

# CATALOGUE

## SURVEY | CONSTRUCTION | FORESTRY



# Welcome to the Gottlieb Nestle company!



**Nestle tripods – built to last!**



## Welcome to Gottlieb Nestle GmbH!

According to our motto: "MEASURE WITH THE BEST", our primary goal is that you as our customers and partners are the best!

Thanks to your trust, we have established ourselves as a medium-sized traditional company to one of the leading European providers of surveying products technology in the field of Surveying | Construction | Forest.

Everything we do, we do with passion!

In this edition of the main catalogue you will find proven, high-quality Products with many innovative details and innovations. Have a look right away. What all products have in common is our competence and experience, which you can rely on at any time.

We look forward to you!

Best regards from the German Black Forest

Andreas Kern with team

A handwritten signature in blue ink, appearing to read "Andreas Kern". The signature is fluid and cursive, written on a light-colored background.



Andreas Kern,  
head of sales and marketing



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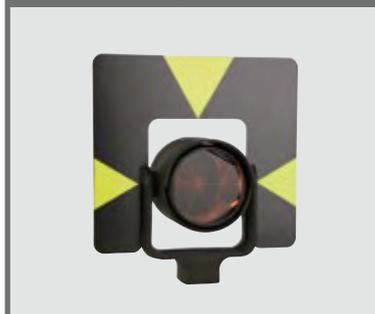
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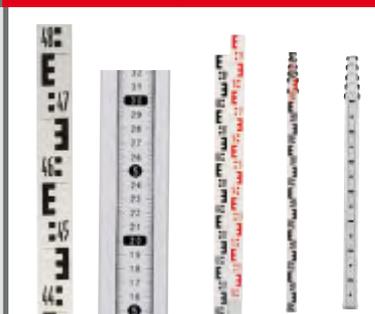
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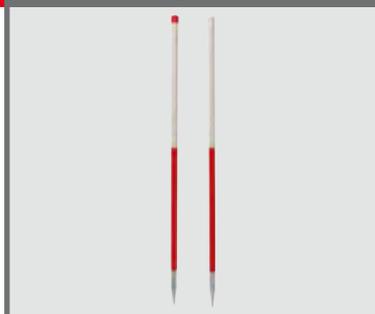
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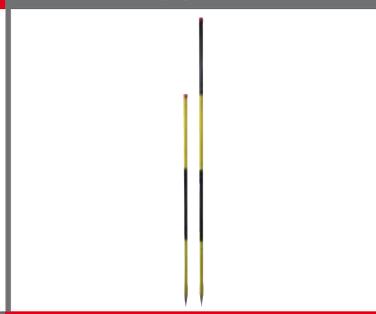
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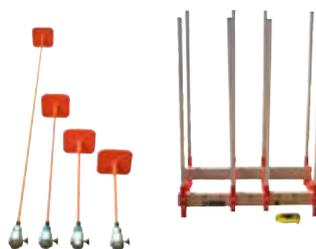
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## Products | **Measuring wheels**



# Products | Measuring wheels

Products | Measuring wheels



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## NESTLE measuring wheels

1200001, 1200401



### Measuring wheel - precision models

- NESTLE precision measuring wheels for exact measurements.
- Ideal for distance measurements on construction sites and roadworks.
- Also suitable for accident investigations.
- Quality counter **"Made in Germany"** mounted directly above the wheel, easy to read while handling the wheel.
- The counter also works decremental, which makes subtractions possible.
- Zero-set lever attached to the counter for quick resets.
- Solid and large stand, easy to fold out.
- Integrated brake prevents from unintentional changes of the measuring result.
- Foldable handle for space-saving transport.
- Solid full wheel or spoke wheel respectively, made of aluminium die-cast metal keeps the measuring wheel firmly on the track.
- The rubber is ground to exactly 318.5mm diameter.
- The wheel's framework is robot-welded and guarantees for lasting quality and durability.
- Also available as spoke wheel version on request.



### Application benefits

- Easy handling - top precision
- Quality workmanship and manufacturing keep our measuring wheels ready for toughest use over many years.
- As a certificate of quality, a sticker on the wheel indicates the deviation from the correct circumference. A Nestle exclusive feature!



Specifications	Measuring wheels precision models
Wheel	<b>Model no. 12000001: Full disc wheel</b> <b>Model no. 12004001: Spoke wheel</b>
Measuring range	9,999.99m / cm reading
Wheel diameter	318.5mm
Wheel circumference	1.00m
Accuracy	<0.02%
Weight	Model no. 12000001: 4,100g Model no. 12004001: 3,500g
Colour	Fluorescent colour red
Calibratable	Yes



Seal of quality

### Accessories

As accessories for our measuring wheels we offer:

- Special support for rail measurement - the wheel is kept safely on the track. Model no. 12902000.
- Carrying case, model no. 12900000.
- Carrying bag, model no. 12901001.



## NESTLE measuring wheels standard

12002001, 12006001



### Measuring wheel - standard models

- Ideal for distance measurements on construction sites and roadworks.
- Also suitable for accident investigations.
- Quality counter **"Made in Germany"** mounted directly above the wheel, easy to read while handling the wheel.
- The counter also works decremental, which makes subtractions possible.
- Zero-set lever attached to the counter for quick resets.
- Solid and large stand, easy to fold out.
- Integrated brake prevents from unintentional changes of the measuring result.
- Foldable handle for space-saving transport.
- Solid full wheel or spoke wheel respectively, made of aluminium die- cast metal keeps the measuring wheel firmly on the track.
- The rubber is ground to exactly 318.5mm diameter.
- The wheel's framework is robot-welded and guarantees for lasting quality and durability.
- Also available as spoke wheel version on request.



### Application benefits

- Easy handling - top precision
- Quality workmanship and manufacturing keep our measuring wheels ready for toughest use over many years.
- As a certificate of quality, a sticker on the wheel indicates the deviation from the correct circumference. A Nestle exclusive feature!



Specifications	Measuring wheel standard
Wheel	<b>Model no. 12002001: Full disc wheel</b> <b>Model no. 12006001: Spoke wheel</b>
Measuring range	9,999.99m / cm reading
Wheel diameter	318.5mm
Wheel circumference	1.00m
Accuracy	<0,05%
Weight	Model no. 12002001: 3,900g Model no. 12006001: 3,300g
Colour	Warning colour orange
Calibratable	Yes



### Accessories

- As accessories for our measuring wheels we offer:
- Special support for rail measurement - the wheel is kept safely on the track. Model no. 12902000.
  - Carrying case, model no. 12900000.
  - Carrying bag, model no. 12901001.



**NESTLE measuring wheel with hinged guide rod****12008000****A new generation of measuring wheels**

- Quality counter **"Made in Germany"** mounted directly above the wheel, easy to read while handling the wheel.
- The counter also works decremental, which makes subtractions possible.
- Zero-set lever attached to the counter for quick resets.
- Solid and large stand, easy to fold out.
- The stand also works as brake to prevent from unintentional changes of the measuring result.

Only a solid measuring wheel guarantees for enduring precision:

- The wheel's framework is robot-welded and guarantees for lasting quality and durability. The wheel is powder-coated in red warning colour.
- Solid spoke wheel made of aluminium die cast metal, keeps the measuring wheel firmly on the track.
- The rubber is ground to exactly 318.5mm diameter. As a certificate of quality, a sticker on the wheel indicates the deviation from the correct circumference. A Nestle exclusive feature!
- The model 12008000 has a hinged guide rod, not the usual foldable handle which is fixed with a wing screw. This provides an accurate free-of-play connection.

**Application benefits**

Ideal for distance measurements on construction sites and roadworks.

**Specifications**      **Measuring wheel with hinged guide rod**

Wheel	Spoke wheel
Measuring range	9,999.99m / cm reading
Wheel diameter	318.5mm
Wheel circumference	1.00m
Accuracy	< 0.05%
Weight	3,400g
Colour	Warning colour red
Calibratable	Yes

**Accessories**

As accessories for the measuring wheel we offer:

- Carrying case, model no. 12900000.
- Carrying bag, model no. 12901001.



## NESTLE measuring wheels MR-21

12003001



With foldable guide rod made of aluminum and spoked wheel

Measuring wheels are used for measuring distances on ground. You hold the guide rod and push the measuring wheel forward along the measuring section. The distance traveled is displayed by means of a counter. Typical areas of application are: official use, road and track construction, agriculture and forestry, landscaping, construction and wherever distance measurements over medium to long distances are required.

The NESTLE measuring wheel MR-21 has a foldable guide rod made of aluminium and equipped with a spoked wheel. The high quality counter records the distances in the direction of travel and subtracts against the running direction. The MR-21 measuring wheel also offers a parking bracket and an integrated brake.

NESTLE measuring wheels are always **"Made in Germany"**.



### Application benefits

- Quality counter "MADE IN GERMANY" above the measuring wheel attached, easy to read.
- Counter also counts backwards, subtractions are possible.
- Zero lever right next to the counter enables a quick Reset.
- Running rubber is ground to a diameter of exactly 318.5 mm.
- Highest precision <0.02% - is certified with a test sticker.
- The frames of our measuring wheels are robot-welded and guarantee a constant quality and extreme robustness for years.



Specifications	Measuring wheel MR-21
Wheel	Spoke wheel
Measuring range	9,999.99m / cm reading
Wheel diameter	318,5mm
Wheel circumference	1,00m
Accuracy	<0,02%
Weight	2,950g
Colour	red, luminous paint



### Accessories

More Measuring wheels from Gottlieb Nestle GmbH...

- Measuring wheel with hinged guide rod: model no. 12008000.
- Measuring wheel with handbrake: model no. 12010001.
- Measuring wheel with dm reading: model no. 12014000.



**NESTLE measuring wheel with hand brake****12010001****NESTLE measuring wheel with spoke wheel and hand brake**

- Quality counter **"Made in Germany"** mounted directly above the wheel, easy to read while handling the wheel.
- The counter also works decremental, which makes subtractions possible.
- Zero-set lever attached to the counter for quick resets.
- Solid and large stand, easy to fold out.

Only a solid measuring wheel guarantees for enduring precision:

- The wheel's framework is robot-welded and guarantees for lasting quality and durability. The wheel is powder-coated in orange warning colour.
- Solid spoke wheel, made of aluminium die cast metal, keeps the measuring wheel firmly on the track.
- The rubber is ground to exactly 318.5mm diameter. As a certificate of quality, a sticker on the wheel indicates the deviation from the correct diameter. A Nestle exclusive feature!
- The standard brake has been converted into a hand brake attached to the guiding rod. The brake handle has to be pulled to release the wheel. Thus, accuracy becomes enhanced.
- Due to the brake attached to the guiding rod, the measuring wheel cannot be folded.

**Application benefits**

Ideal for distance measurements on construction sites and roadworks. A special support for rail measurement is also available - the wheel is kept safely on the track.

Also suitable for accident investigations:

**Rely on precision measuring wheels made by NESTLE!**

**Specifications****Measuring wheel with hand brake**

Wheel	Spoke wheel
Measuring range	9,999.99m / cm reading
Wheel diameter	318.5mm
Wheel circumference	1.00m
Accuracy	<0.05%
Weight	3,400g
Colour	Warning colour orange

**Accessories**

As accessories for our measuring wheel we offer:

- Support for rail measurement, model no. 12902000.



**NESTLE measuring wheel with dm reading**

**12014000**



**Wheel for approximative measurements**

- The model 12014000 is especially designed for approximative measurements, when dm-reading and an accuracy of 0.1% are sufficient.
- Quality counter **"Made in Germany"** mounted directly besides the wheel.
- The counter also works decremental, which makes subtractions possible.
- Small wheel for quick reset attached to the counter.
- Integrated brake prevents from unintentional changes of the measuring result.
- Foldable handle for space-saving transport.

Only a solid measuring wheel guarantees for enduring precision:

- The wheel's framework is robot-welded and guarantees for lasting quality and durability. Powder coated in warning colour orange.
- Solid full wheel for keeping the measuring wheel firmly on the track.
- The rubber is ground to exactly 160mm diameter.



**Application benefits**

- For approximative measurements on construction sites and roadwork.
- Small dimensions.



**Specifications**      **Measuring wheel with dm reading**

Wheel	Full disc wheel
Measuring range	9.999,9m / dm reading
Wheel diameter	160mm
Wheel circumference	50m
Accuracy	0.1%
Weight	1,300g
Colour	Warning colour orange



**Accessories**

Available for measuring wheel model no. 12014000:

- Carrying bag, model no. 12903000.



**NESTLE cross-country measuring wheel**

12015001

**Measuring wheel for cross-country measurements**

- The big wheel with 2m circumference is shock-absorbing and keeps in lane when measuring off-street.
- Its characteristics make the wheel the perfect choice for measuring fields and meadows.
- Quality counter **"Made in Germany"** mounted directly above the wheel, easy to read while handling the wheel.
- The counter also works decremental, which makes subtractions possible.
- Zero-set lever attached to the counter for quick resets.
- Solid and large stand, easy to fold out.
- Integrated brake prevents from unintentional changes of the measuring result.
- Foldable handle for space-saving transport.

Only a solid measuring wheel guarantees for enduring precision:

- The spoke wheel, keeps the device in lane and guarantees for smoothness of running.
- The rubber is ground to exactly 636.6mm diameter. The wheel's frame work is robot-welded and guarantees for lasting quality and durability.
- The model has a zero-pointer placed as pendulum besides the wheel.

**Application benefits**

- Cross-country distance measurements.
- The big wheel is shock-absorbent for keeping in lane.

**Specifications**

	Cross-country measuring wheel
Wheel	Spoke wheel
Measuring range	9,999.999 / 7 cm reading
Wheel diameter	636.6mm
Wheel circumference	2m
Accuracy	±0.1%
Weight	8,000g
Colour	Warning colour orange

**Accessories**

NESTLE- wheels for exact measurements.

- Measuring wheel with hinged guide rod, model no. 12008000.
- Measuring wheel with hand brake, model no. 12010001.
- Measuring wheel with dm reading, model no. 12014000.



Sorry, sold out

# Products | Tripods



# Products | Tripods



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Aluminium tripod  
light  
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Aluminium tripod  
medium heavy  
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Aluminium tripod  
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Elevating tripods  
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Camera tripod/  
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## NESTLE aluminium tripod, light

13000000



### Light version

- The lightweight 13000000 is especially designed for levelling, which often requires quick repositioning.
- Quick locking with eccentric clamping levers.
- New patented circumferential clamping system. The clamping force takes effect on the outer and inner profiles. The force is always constant at every grade of extension.
- We only use high-quality aluminium for the tubes and profiles. The anodized aluminium parts are weather-proof and designed for toughest use.
- The aluminium tubes slide without jamming. This prevents the material from wear and keeps the tripod ready for use over a long period of time.
- Tripod head made of polymer-fibreglass composite.
- The special Features is the circular bubble which is integrated in the tripods head-ideal for quick setting up.
- The plastic parts are made of polymer-fibreglass composite and are extremely robust. These quality characteristics make NESTLE tripods the superior choice in comparison to competitive products.



### Application benefits

- Low weight for easy transport and positioning.
- The plastic tips are ideal for indoor measurements.



### Specifications Aluminium tripod, light

Head	Flat, with circular bubble
Working range, 1m distance of tips	90 – 170cm
Transport length	105cm
Clamping	Eccentric, circumferential
Weight	2,200g
Thread connection	5/8"



### Features

- Plastic tips for safe positioning on smooth ground and to prevent damages of surfaces like parquet flooring and paving tiles.
- Head with circular bubble.



**NESTLE telescopic tripod****13001000****Light version**

- For light rotating and line lasers. In combination with the Pythagoras-adaptor, using the telescopic tripod increases reliability and accuracy of distance measurements with Disto-devices.
- The tripod has a 5/8" connection, delivery includes an 1/4" adaptor.
- Position the tripod, then simply extend the telescopic segment up to the required height and fix it.
- New patented circumferential clamping system. The clamping force takes effect on the outer and inner profiles. The force is always constant at every grade of extension.
- We only use high-quality aluminium for the tubes and profiles. The anodized aluminium parts are weather-proof and designed for toughest use.
- The aluminium tubes slide without jamming. This prevents the material from wear and keeps the tripod ready for use over a long period of time.
- The plastic parts are made of polymer-fibreglass composite and are extremely robust. These quality characteristics make NESTLE tripods the superior choice in comparison to competitive products.

**Application benefits**

- Easy transport.
- Superior use ability.
- Best materials and quality workmanship keep the tripod ready for years of toughest use.

**Specifications****Telescopic tripod**

Working range, 1m distance of tips	77 – 190cm
Transport length	99cm
Clamping	Eccentric
Weight	2,700g
Thread connection	5/8" / 1/4"

**Feature**

- Delivery includes 1/4" adaptor, model no. 13923000.



## NESTLE aluminium tripod

13100000, 13105000



### Light version / short version

- The light 13100000 is especially designed for levelling, which often requires quick repositioning.
- Quick locking with ergonomically designed eccentric clamping levers for easy handling - even with gloves on.
- New patented circumferential clamping system. The clamping force takes effect on the outer and inner profiles. The force is always constant at every grade of extension.
- We only use high-quality aluminium for the tubes and profiles. The anodized aluminium parts are weather-proof for toughest use.
- The aluminium tubes slide without jamming. This prevents the material from wear and keeps the tripod ready for use over a long period of time.
- Tripod head made of polymer-fibreglass composite.
- The special feature is the circular bubble which is integrated in the tripods head-ideal for quick setting up.
- The plastic parts are made of polymer-fibreglass composite and are extremely robust. These quality characteristics make NESTLE tripods the superior choice in comparison to competitive products.
- Solid tips.



### Application benefits

- Superior use ability.
- Best materials and quality workmanship keep the tripod ready for years of toughest use.



Specifications	13100000	13105000
Head	Flat, Circular vial	Flat, Circular vial
Working range, 1 m distance of tips	90-170cm	44-57cm
Transport length	106cm	55cm
Clamping	Eccentric	Eccentric
Weight	3,300g	1,800g
Thread connection	5/8"	5/8"
Recommended area of application	Levelling	Levelling



### Feature

- Head with circular bubble.



**NESTLE aluminium tripod****13102000, 13103000, 13104000****Medium heavy version**

- The medium heavy tripods are especially designed for use with levels, light rotating lasers and theodolites.
- The circular head plate (13103000) is ideal for use with theodolites, when the instrument has to be positioned perpendicular over a certain point.
- New patented circumferential clamping system. The clamping force takes effect on the outer and inner profiles. The force is always constant at every grade of extension.
- We only use high-quality aluminium for the tubes and profiles. The anodized aluminium parts are weather-proof for toughest use.
- The aluminium tubes slide without jamming. This prevents the material from wear and keeps the tripod ready for use over a long period of time.
- Tripod head made of metal.
- The central locking screw is movable.
- The plastic parts are made of polymer-fibreglass composite and are extremely robust. These quality characteristics make NESTLE tripods the superior choice in comparison to competitive products.
- Solid tips.

**Application benefits**

- Superior use ability.
- Best materials and quality workmanship keep the tripod ready for years of toughest use.
- Also for use with theodolites.

13102000

13103000

**Specifications****13102000 / ...3000...4000**

Head

**Model no. 13102000** Triangular shape, metal**Model no. 13103000** Flat, Ø 168mm, metal**Model no. 13104000** Domed head

Working range, 1m distance of tips 90 – 170cm

Transport length 106cm

Clamping Eccentric, circumferential

Weight 3,700g

Thread connection 5/8"

13104000

**Features**

- Also available with domed head version model no. 13104000.
- Tip made of polymer-fibreglass composite with metal pin.



## NESTLE aluminium tripod

13107000



### Heavy duty version

- The 13107000 is especially designed for use with levels, rotating lasers, theodolites and construction tachymeter.
- Quick locking with ergonomically designed eccentric clamping levers for easy handling – even with gloves on.
- New patented circumferential clamping system. The clamping force takes effect on the outer and inner profiles. The force is always constant at every grade of extension.
- We only use high-quality aluminium for the tubes and profiles. The anodized aluminium parts are weather-proof for toughest use.
- The aluminium tubes slide without jamming. This prevents the material from wear and keeps the tripod ready for use over a long period of time.
- Tripod head made of metal.
- The central locking screw is movable.
- Solid tips.



### Application benefits

- Best materials and quality workmanship keep the tripod ready for years of toughest use.
- Suitable for all construction surveying instruments.
- Aluminium tips.



### Specifications

#### Heavy duty version

Head flat	triangular shape
Working range, 1m distance of tips	95 – 170cm
Transport length	109cm
Clamping	Eccentric, circumferential
Weight	4,500g
Thread connection	5/8"
Area of application	levels, rotating lasers, theodolites, construction tachymeters



### Feature

- Aluminum step shoe
- Best quality in workmanship and material, therefore suitable for many years of tough use.
- Suitable for all construction surveying instruments



**NESTLE elevating tripods****13200000, 13201000, 13202000****Light aluminium version with multifunctional head**

- These elevating tripods are suitable for light and medium rotating lasers.
- With the double gear reduction (1.2cm crank elevation / revolution) a specific height can be approached easily. Even when burdened with heavy laser devices, the 35cm elevator can be moved without effort.
- Patented multifunctional head with slip guard and integrated circular bubble.
- The self- locking system prevents the elevator from slippage. The tripod keeps the chosen height even under heavy weight lasers and vibrations on the job site.
- Quick locking with ergonomically designed Eccentric clamping levers for easy handling - even with gloves on.
- New patented circumferential clamping system. The clamping force takes effect on the outer and inner profiles. The force is always constant at every grade of extension.
- We only use high-quality aluminium for the tubes and profiles. The anodized aluminium parts are weather-proof for toughest use.
- The aluminium tubes slide without jamming. This prevents the material from wear and keeps the tripod ready for use over a long period of time.
- The plastic parts are made of polymer-fibreglass composite and are extremely robust. These quality characteristics make NESTLE tripods the superior choice in comparison to competitive products.
- Solid tips.



13200000

13201000

13202000

**Application benefits**

- Superior use ability.
- Best materials and quality workmanship keep the tripod ready for years of toughest use.
- Three versions for highest flexibility at work - from cutting check up to heights of 3 meters.

**Specifications****Elevating tripods, multifunctional head**

<b>Model no. 13200000</b>	Transport size: 72cm
Range	58 – 130cm
Weight	3,000g
<b>Model no. 13201000</b>	Transport size: 108cm
Working range, 1m distance of tips	90 – 194cm
Weight	3,700g
<b>Model no. 13202000</b>	Transport size: 161cm
Working range, 1m distance of tips	150 – 300cm
Weight	4,800g
Elevator all models	35cm
Thread connection	5/8"

**Accessories**

Tripods by NESTLE for all applications!

We also offer a wide variety of accessories for elevating tripods!  
See page 35.



**NESTLE elevating tripods, direct drive**

**13300000, 13301000, 13302000**



**Medium aluminium versions with direct drive**

- The direct drive allows for quickly elevating the column for approximately reaching the required height.
- Then simply turn the direct drive for fine adjustment and fix the tripod's elevation with the locking screw.
- Models 13300000 and 13301000 feature a new patented circumferential clamping system. The clamping force takes effect on the outer and inner profiles. The force is always constant at every grade of extension.
- Model 13302000 has a double side clamping for maximum clamping force. This patented system works directly in the direction of force. This provides for maximum stability especially at large heights.
- When required, the tripod legs tips can be covered with rubber caps. This ensures safe positioning on smooth ground and prevents damages of surfaces like parquet flooring and paving tiles.
- We only use high-quality aluminium for the tubes and profiles. The anodized aluminium parts are weather-proof for toughest use.
- The aluminium tubes slide without jamming. This prevents the material from wear and keeps the tripod ready for use over a long period of time.
- The plastic parts are made of polymer-fibreglass composite and are extremely robust. These quality characteristics make NESTLE tripods the superior choice in comparison to competitive products.
- Solid tips.



13300000

13301000

13302000

**Application benefits**

- Quick setting up with the direct drive.
- Superior use ability.
- Best materials and quality workmanship keep the tripod ready for years of toughest use.



**Specifications Elevating tripods, direct drive**

<b>Model no. 13300000</b>	Transport size: 109cm
Working range, 1m distance of tips	90 – 197cm
Weight	4,100g
<b>Model no. 13301000</b>	Transport size: 161cm
Working range, 1m distance of tips	150 – 300cm
Weight	5,200g
<b>Model no. 13302000</b>	Transport size: 209cm
Working range, 1m distance of tips	200 – 394cm
Weight	7,400g
Elevator	35cm
Thread connection	5/8"



Eccentric-Clamping at 13300000 and 13301000



Pagen-Clamping at 13302000

**Feature**

- Tips with rubber caps.



Rubber cap at 13300000 and 13301000



Tip at 13302000

**NESTLE elevating tripods, medium****13400000, 13401000, 13402000****Medium aluminium version, self-impeding**

- These elevating tripods are suitable for light and medium rotating lasers.
- With the double gear reduction (1.2cm crank elevation / revolution) a specific height can be approached easily. Even when burdened with heavy laser devices, the 35cm elevator can be moved without effort.
- Models 13400000 and 13401000 feature a new patented circumferential clamping system. The clamping force takes effect on the outer and inner profiles. The force is always constant at every grade of extension.
- Model 13402000 has a double side clamping for maximum clamping force. This patented system works directly in the direction of force. This provides for maximum stability especially at large heights.
- When required, the tripod legs' tips can be covered with rubber caps. This ensures safe positioning on smooth ground and prevents damages of surfaces like parquet flooring and paving tiles.
- We only use high-quality aluminium for the tubes and profiles. The anodized aluminium parts are weather-proof for toughest use.
- The aluminium tubes slide without jamming. This prevents the material from wear and keeps the tripod ready for use over a long period of time.
- The plastic parts are made of polymer-fibreglass composite and are extremely robust. These quality characteristics make NESTLE tripods the superior choice in comparison to competitive products.
- Solid tips.

**Application benefits**

- The self-impeding elevator allows millimetre by millimetre approaching the height.
- Superior use ability.
- Best materials and quality workmanship keep the tripod ready for years of toughest use.

**Specifications Elevating tripods, medium**

<b>Model no. 13400000</b>	Transport size: 109cm
Working range, 1m distance of tips	90 – 197cm
Weight	4,100g
<b>Model no. 13401000</b>	Transport size: 161cm
Working range, 1m distance of tips	150 – 300cm
Weight	5,200g
<b>Model no. 13402000</b>	Transport size: 209cm
Working range, 1m distance of tips	200 – 394cm
Weight	7,400g
<b>Model no. 13403000</b>	Transport size: 127cm
Working range, 1m distance of tips	105 – 290cm
Weight	5,600g

Elevator all models	35cm
Thread connection all models	5/8"

**Features**

- Side clamping, model no. 13402000.
- Model 13403000: For transport and storage the extension can be retracted. Thus, it can neither be forgotten nor misplaced.



Model 13403000 with extension

Eccentric-Clamping and tip  
13400000 and 13401000Pagen-Clamping and tip  
13402000

## NESTLE elevating tripods, heavy

13500000, 13501000, 13502000



### Heavy aluminium version, self-impeding

- These elevating tripods are suitable for heavy rotating lasers.
- With the gear reduction (0,7cm crank elevation / revolution) a specific height can be approached easily. Even when burdened with heavy laser devices, the 35cm elevator can be moved without effort.
- Models 13501000 and 13502000 have a double side clamping for maximum clamping force. This patented system works directly in the direction of force. This provides for maximum stability especially at large heights.
- When required, the tripod legs tips can be covered with rubber caps. This ensures safe positioning on smooth ground and prevents damages of surfaces like parquet flooring and paving tiles.
- We only use high-quality aluminium for the tubes and profiles. The anodized aluminium parts are weather-proof for toughest use.
- The aluminium tubes slide without jamming. This prevents the material from wear and keeps the tripod ready for use over a long period of time.
- The plastic parts are made of polymer-fibreglass composite and are extremely robust. These quality characteristics make NESTLE tripods the superior choice in comparison to competitive products.
- Solid tips.



13500000

13501000

13502000

### Application benefits

- The heavy self-impeding elevator allows millimetre by millimetre approaching the height. Even with heavy laser devices.
- Superior use ability.
- Best materials and quality workmanship keep the tripod ready for years of toughest use.



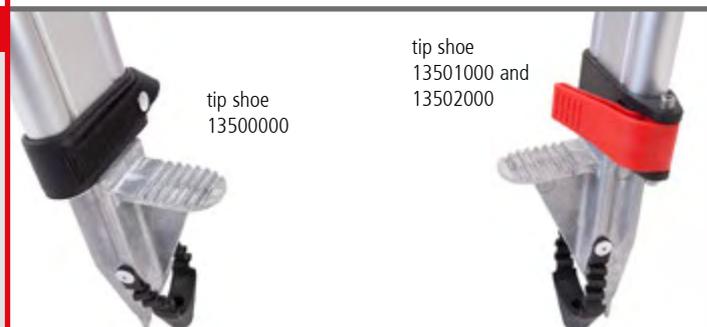
### Specifications Elevating tripods, heavy

<b>Model no. 13500000</b>	Transport size: 109cm
Working range, 1m distance of tips	90 – 188cm
Weight	5,400g
<b>Model no. 13501000</b>	Transport size: 161cm
Working range, 1m distance of tips	150 – 295cm
Weight	6,900g
<b>Model no. 13502000</b>	Transport size: 209cm
Working range, 1m distance of tips	200 – 391cm
Weight	8,100g
Elevator all models	35cm
Thread connection	5/8"



### Features

- All models feature side clamping.
- Double side clamping for models 13501000 and 13502000.



tip shoe  
13500000

tip shoe  
13501000 and  
13502000

**NESTLE elevating tripod, strut section**

13503000

**Heavy aluminium version, self-impeding**

- This elevating tripod is suitable for heavy rotating lasers.
- The middle strut section guarantees a constant and quick setting up.
- The working range goes up to 270cm.
- Because of the strut section - none tripod leg slides away.
- When required, the tripod legs tips can be covered with rubber caps. This ensures safe positioning on smooth ground and prevents damages of surfaces like parquet flooring and paving tiles.
- We only use high-quality aluminium for the tubes and profiles. The anodized aluminium parts are weather-proof for toughest use.
- The plastic parts are made of polymer-fibreglass composite and are extremely robust. These quality characteristics make NESTLE tripods the superior choice in comparison to competitive products.
- Solid tips.

**Application benefits**

- The self-impeding elevator allows millimetre by millimetre approaching the height.
- Superior use ability.
- Best materials and quality workmanship keep the tripod ready for years of toughest use.

**Specifications** Aluminium tripod, heavy

Transport length	115cm
Working height min.	85cm
Working height max.	270cm
Weight	7,000g
Elevator	50cm
Thread connection	5/8"

**Features**

- Tips with rubber caps
- Side clamping
- Strut section
- NESTLE has for all kind of work the right tripod



## NESTLE manhole tripod

13610000



### For variable use up and down

- With the NESTLE manhole tripod you can introduce 3D laser scanner (e.g. FARO 3D) any deep into the shaft.
- With the delivery of five extensions a depth of 4m from the stand base is possible.
- To move the Instrument up or down the supplied crank or an optional cordless drill can be used.
- A removable device used to facilitate installation of the scanner: Z + F IMAGER 5006, Z + F IMAGER 5010; Leica HDS 7000, Leica HDS 6000, Faro Focus 3D. Adaptations of other scanners available on request.
- We assume the guarantee to 5m depth from the stand base.  
Scope of delivery: Manhole tripod with 1 extension 1m, plate 110mm, incl. rubber feet, 4 extensions à 1m in a bag, crank, adapter for cordless screwdriver, T-spanner, coupling for operation down, coupling for operation up.



### Application benefits

- Due to the special design and the included fittings is both an operating up and down without rebuilding effort possible.
- Robust construction.
- Stable crank column.
- Dental column elements separately identifiable.

With the crank, the scanner can be brought to the desired work area exactly in position.



### Specifications

### Manhole tripod

Weight with 1 extension	8,500g
Weight of 1 extension	1,200g
Transport length	130cm
Weight of attaching device	max. 20kg
Material	Aluminium



### Features

- Tripod dolly, model no. 13900000.
- Extension tube 100cm, model no. 13926000.
- Scanner quick coupling complete, model no. 13930000.
- Manhole cover lifter, model no. 21000000.

Reference:

- Cordless screwdriver.



**NESTLE accessories scanner quick coupling**

13949000,...



**For the optimal use of the manhole tripod**

- The NESTLE scanner quick couplings are recommended to use while attaching an instrument overhead at the 2-way manhole tripod. The use prevents the instrument from accidentally falling effective.



**Scanner**

	FARO Focus3D 120 FARO Focus3D X 130 FARO Focus3D X 330 Trimble TX5 Trimble TX8 Z+F IMAGER 5006 Serie (5006, 5006i, 5006h) Z+F IMAGER 5010 Serie (5010, 5010C, 5010X) Z+F IMAGER 5016 Serie Leica HDS 7000 Leica HDS 6200 Leica HDS 6100 Leica HDS 6000 Leica ScanStation P50 Leica ScanStation P40 Leica ScanStation P30 Leica ScanStation P20 Leica ScanStation P16 TI Asahi Co., Ltd Pentax S-3080 TI Asahi Co., Ltd Pentax S-3180, S-3180V API IMAGER, IMAGER Pro, IMAGER Pro C	FARO Focus S70 FARO Focus S150 FARO Focus S350 FARO Focus M70	Trimble X7	Leica RTC360
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<b>Carrier name</b>	<b>Scanner-coupling Carrier Multi-S</b>	<b>Scanner-coupling Carrier FS</b>	<b>Scanner-coupling Carrier X7</b>	<b>Scanner-coupling Carrier RTC</b>
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<b>Model no.</b>	<b>13950000</b>	<b>13951000</b>	<b>13952000</b>	<b>13953000</b>
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<b>Carrier pic.</b>				
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<b>Scanner-coupling Base Version A 13948000</b>	 Sorry, phased out	No	No	No
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<b>Scanner-coupling Base Version B 13949000</b>				
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## NESTLE wooden tripod, PVC-coated

13700000, 13701000



### Wooden tripod with Eccentric quick-clamping system

- Wooden tripods show excellent damping qualities. In comparison to aluminium-made tripods shocks and vibrations on the jobsite get much better absorbed. This enhances measurement accuracy.
- Exposed to bright sunlight wood proves to have much less expansion than metal-made items. This also adds to the quality and reliability of any survey work -no matter what weather conditions you have to cope with.
- Especially when working with high-precision instruments - like total stations or theodolites - using a quality wooden tripod is absolutely recommended.
- The clamping unit of the PVC-coated tripods is positioned directly over the middle segment, and all connections of wood and plastics became additionally sealed with silicone. Thus, the clamping system does not affect the PVC-coating and the tripod stays ready for use over a long period of time.
- Only high-quality wood is used in the manufacturing process.
- The rugged clamping levers are made of polymer-fibreglass composite. All metal parts are made of solid aluminium diecast.



### Application benefits

- The PVC coating and silicone sealing protect the tripod from humidity for years of toughest use.
- Ideal for precision theodolites, levels and total stations - even in permanent humid areas.
- Including rubber feet (13701000 only).



Specifications	Wooden tripod, PVC-coated
Head	Flat, metal
Working range, 1m distance of tips	90 – 170cm
Transport length	108cm
Clamping	Eccentric
Weight	5,500g
Thread connection	5/8"



### Accessories

- The PVC-coated wooden tripod is available in two versions:
- Basic version with standard head plate, model no. 13700000.
  - With circular head, 168mm, model no. 13701000.
  - On request NESTLE wooden tripods could be equipped with carrying strap.



**NESTLE wooden tripod, heavy duty****13702000, ...3000, ...4000, ...5000****Wooden tripod for high-precision total stations and lasers**

- The tripod is made of lacquered, high-quality wood.
- A special processing with oil protects the wood from humidity and water.
- Wooden tripods show excellent damping qualities. In comparison to aluminium-made tripods shocks and vibrations on the jobsite get much better absorbed. This enhances measurement accuracy.
- Exposed to bright sunlight wood proves to have much less expansion than metal-made items. This also adds to the quality and reliability of any survey work -no matter what weather conditions you have to cope with.
- Especially when working with high-precision instruments - like total stations or theodolites -using a quality wooden tripod is absolutely recommended.
- The handling is as simple and convenient as it is with aluminium tripods. The legs extend without jamming which prevents the tripod from wear. Nonetheless - the clamping system works absolutely reliable.

**Application benefits**

- Using a NESTLE wooden tripod is ideal for high-class levels, lasers, theodolites and robotic total stations.
- The special wood processing prevents water diffusion - the tripod stays ready for use over many years.

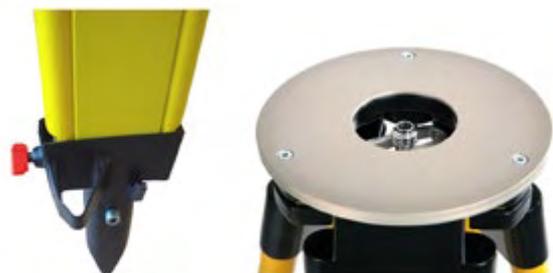
**Specifications****Wood tripod, heavy**

Head	Flat, metal
Working range, 1m distance of tips	90 – 170cm
Transport length	107cm
Clamping	Clamp screw
Weight	6,200g
Thread connection	5/8"

**Accessories**

The heavy wooden tripod is available in four versions:

- Basic version, model no. 13702000.
- Basic version, self-locking, model no. 13704000.
- With circular head plate, 168mm, model no. 13703000.
- With circular head plate, 168mm, self-locking, model no. 13705000.
- Available on request: Carrying strap for wooden tripods, model no. 13920000.
- Head protect cover available for models 13702000 and 13704000: model no. 13919000.
- Head protect cover available for models 13703000 and 13705000: model no. 13927000.



## NESTLE wooden tripod, Max-I

13708000



### Wooden tripod for high-precision total stations and lasers

- The tripod is made of lacquered, high-quality wood.
- A special processing with oil protects the wood from humidity and water.
- Wooden tripods show excellent damping qualities. In comparison to aluminium-made tripods shocks and vibrations on the jobsite get much better absorbed. This enhances measurement accuracy.
- Exposed to bright sunlight wood proves to have much less expansion than metal-made items. This also adds to the quality and reliability of any survey work -no matter what weather conditions you have to cope with.
- Especially when working with high-precision instruments – like total stations or theodolites -using a quality wooden tripod is absolutely recommended.
- The handling is as simple and convenient as it is with aluminium tripods. The legs extend without jamming which prevents the tripod from wear. Nonetheless - the clamping system works absolutely reliable.
- With the optimized maximum working height, the Max-I 13708000 is ideally suited for applications where large working heights are important, e.g. for machine controls. 13708000 is equipped with double clamping (below: screw, top: eccentric).



### Application benefits

- Using a NESTLE wooden tripod is ideal for high-class levels, lasers, theodolites and robotic total stations.
- The special wood processing prevents water diffusion – the tripod stays ready for use over many years.



### Specifications

#### NESTLE wooden tripod, Max-I

Head	Flat, metal
Working range, 1m distance of tips	132 to 220cm
Transport length	139cm
Clamping	Double (below: screw, top: eccentric)
Weight	9,020g
Thread connection	5/8"



### Accessories

Optionally, we recommend:

#### NESTLE tripod warning kilt, model no. 13935001.

Increase the visibility of your instrument through the NESTLE tripod warning kilt. The reflective strips also increase the visibility and thus the safety when light is incident. Ideal for application in tunnel construction or at stand points with poor light conditions.



**NESTLE wooden tripods****13709000, 13710000****Heavy duty version Min-I and Mid-I**

- The wooden tripod Min-I and Mid-I correspond in their specification to the wooden tripod in heavy construction, but with different transport dimensions, working area and associated with a lighter weight.
- With its transport length of 97cm, the wooden tripod Mid-I 13710000 is especially suitable for transport in normal cars, as it can be stored and transported in almost every car trunk.
- The wooden tripod Min-I 13709000 for special applications with lowest installation and working heights in scanning or tachymeter surveying (for example, viewpoints on stairs, industrial plants ...)

**Application benefits**

- Low transport dimensions
- Self-locking
- Small, lightweight and robust for maximum precision



Specifications	Wooden tripods, heavy
Best application	Rotary laser, Tachymeter, Laser scanner
Head-Ø	143mm
Head plate	flat, triangular
Self-locking	Yes
Clamp screw	Yes
Thread connection	5/8"
	Min-I 13709000 / Mid-I 13710000
Working range	47 to 59cm / 89 to 145cm
Transport length	52cm / 97cm
Weight	4,000g / 6,100g

**Feature**

- Head cover



## NESTLE carbon tripod GEO

13706000, 13707000



### For total stations and scanners

- As a material for prism and antenna poles carbon is already very popular.
- Light weight and a thermal expansion coefficient better than aluminum, wood and even invar makes carbon an ideal choice as material for tripods.
- The carbon tripod GEO Delta, model no. 13706000 is equipped with a triangular head plate and the carbon tripod GEO Omega, model no. 13707000 with detachable round head plate.
- The NESTLE carbon tripods series GEO are particularly suitable for precision measurements with scanners and total stations for indoor and outdoor use.
- The low weight reduces transport costs e.g. while travelling airplanes, and makes changing the station point very comfortable.



### Application benefits

- Thermal expansion coefficient better than wood and invar
- Very low weight compared to wood
- Suitable for precision measurements with scanner or total stations
- Delivered with dust protection pouch



Specifications	NESTLE carbon tripod GEO
Working range, 1m distance of tips	93 – 169cm
Transport length	108cm
Thread connection	5/8"
Clamping	Eccentric
Standard	DIN 18726 for instruments until 10kg
Colour	Black, grey, bright red
<b>Carbon tripod GEO Delta</b>	<b>Model no. 13706000</b>
Head plate	Flat, metal, triangular
Weight	3,700g
<b>Carbon tripod GEO Omega</b>	<b>Model no. 13707000</b>
Head plate	Flat, metal, round (removable)
Weight	3,800g



### Accessories

Optionally, we recommend:

- Carrying bag, model no. 13931001

For work with laser scanners:

- NESTLE scan sphere, model no. 14200000



**NESTLE carbon tripod CT-01****13800000, 13801000****NESTLE carbon tripod CT-01**

- The NESTLE carbon tripod CT-01 is particularly suitable for working with terrestrial 3D laser scanners.
- By the 4-fold extendable tripod legs it can be quickly and flexibly extended to the desired height.
- The tripod legs are locked fast with high accuracy by collet clamps.
- The adjustable expansion stop prevents unintentional slip of legs on smooth floors.
- Legs made of high-quality, semi-matt carbon fibre.
- Lateral mounted head-adapter-lock for collision-free fastening.
- All Instrument adapter exchangeable without tools.

**Application benefits**

- 4-fold extendable legs
- Adjustable expansion stops
- Include interchangeable adapter for 3/8" + 5/8"
- Headstock lock collision-free
- Low weight, only 2,180g

**Specifications** **NESTLE carbon tripod CT-01**

Working range	12,5cm to 153cm
Connection included	Adapter 3/8" model no. 13944000 Adapter 5/8" model no. 13945000 Adapter 1/4" model no. 13943000 Adapter PIN DN 16 mm model no. 13946000
Clamping	Union nut with collet clamping
Vial	circular vial
Working load	24kg
Weight	2,180g
Application	for terrestrial 3D laser scanners

**Scope of delivery****Model no. 13800000:**

Tripod CT-01 with bag, instrument adapter 3/8" (model no. 13944000) and instrument adapter 5/8" (model no. 13945000).

**Model no. 13801000:**

Tripod CT-01 with bag, pin adapter (model no. 13946000) (e.g. for Leica RTC360) and instrument adapter 5/8" (model no. 13945000)- **minimum order 5 pieces.**

**13800000****13801000**

## NESTLE carbon tripod HD, classic black

31023000



### For precision and engineering surveying

- NESTLE Carbon tripod HD, classic black – for precision and engineering surveying.
- The tripod is equipped with a central strut section. The triangular plates on the tripod legs are freely swinging and equipped with tips to prevent slipping.
- For even load balancing the legs are equipped with two clamping screws. Due to the additional head clamping screw, the tripod plate can be freed from any torque.
- Carbon has a better coefficient of thermal expansion than Invar, which makes the HD, classic black suitable for any measurement with the highest precision requirements.



### Application benefits

- Double clamping on the legs
- Head clamp screw for torque relief of the tripod plate
- Center strut section
- Lightweight and robust for the highest precision



Specifications	NESTLE Carbon tripod HD
Best application	Precision and engineering surveying
Working range	98cm to 160cm
Transport	L: 108cm D: 30cm
Thread connection	5/8"
Weight	6,300g
Special features	Carbon, double clamping, center strut, torque relief screw



### Accessories

Optional with crank or video head possible.



## Heavy duty tripods

13600000, 13601000



### Heavy elevating tripods

- The tripods guarantee stability for lasers at large heights.
- Rugged aluminium construction with central strut section.
- The crank is easy to operate, even with heaviest laser devices.
- Mounting screw 5/8" (other threads available on request).
- Detachable top plate Ø 140mm.
- Crank handle undetachable (the screws can't be removed completely so no parts can get lost on the jobsite).
- Tips made of solid steel, replaceable.
- Including one set of tips with rubber caps to protect damageable surfaces and one set for exterior applications.
- The circular bubble placed besides the central column allows for quick setting up.
- The NESTLE heavy tripod is in accordance with numerical simulation calculation by **Ingenieurbüro Dr. Heiser** in the virtual-wind-tunnel stable over 90km/h wind speed. The calculation was performed by CFD method (computational fluid dynamic) in full working height and rotary laser on top.



### Application benefits

- The tripods guarantees stability for lasers at large heights - even under stormy weather conditions. Ideal for machine control applications.
- The crank handle is located directly below the central column and can be operated any time and at any tripod extension height.
- The clamping buttons are placed in the side of the leg and therefore protected from transport damages.
- Ideal balance of weight: The tripod - while being light enough to be operated by one single person - is also solid and heavy enough to withstand wind and stormy weather conditions on the jobsite.



### Specifications

#### Heavy duty tripods

Height min.	<b>13600000:</b> 162cm / <b>13601000:</b> 212cm
Height max.	<b>13600000:</b> 360cm / <b>13601000:</b> 452cm
Crank elevation both models	80cm
Transport size	<b>13600000:</b> 177cm / <b>13601000:</b> 230cm
Base circle	<b>13600000:</b> 220cm / <b>13601000:</b> 300cm
Weight	<b>13600000:</b> 17kg / <b>13601000:</b> 20kg



### Accessories

Delivery includes transport bag and 2 sets of tips (with/without rubber caps).



**Tripod accessories**

**13900000, 13929000, 13914000, 13913000, 13916000**



Accessories for NESTLE tripods

- **Tripod dolly for interior and exterior use.** The tripod is fixed on the dolly by clamping bands. The wheels can simply be locked or unlocked mechanically. The dolly offers a mobile solution for quick repositioning without having to set up the tripod again and again. The dolly can be folded for convenient and space-saving transport.
- **Tripod stand:** especially for smooth surfaces. Simply unfold the stand and set the tripod legs into the appropriate holes. Model no. 13912000 with 70cm leg without rubber spring, model no. 13929000 with 50cm leg and with rubber spring.
- **Extension 66cm:** For all elevating tripods. The extension can be „parked“ in the tripod’s crank tube.
- **Rubber cover set with rivets for tripods.** For safe positioning on smooth ground and for protecting damageable surfaces.
- **Carrying bag for tripods,** model no. 13916000 with transport size up to 130cm. Made of solid cloth.
- **Carrying bag with zipper and lanyard,** model no. 13931001 for tripods with transport size up to 110cm, made of synthetic with reinforced foot and headboard.



Application benefits

Increase your flexibility at work with our tripod accessories for interior and exterior use.



Specifications	Tripod accessories
<b>Tripod dolly</b>	Model no. 13900000
Weight	8,000g
<b>Tripod stand</b>	
Weight / Length each leg	Model no. 13929000; 500g / 50cm
	Model no. 13912000; 800g / 70cm
<b>Extension 66cm</b>	Model no. 13914000
Weight	500g
<b>Rubber cover set incl. rivets</b>	Model no. 13913000
<b>Carrying bag for tripods 130cm</b>	Model no. 13916000
<b>Carrying bag for tripods 110cm</b>	Model no. 13931001



Accessories

For all NESTLE tripods.



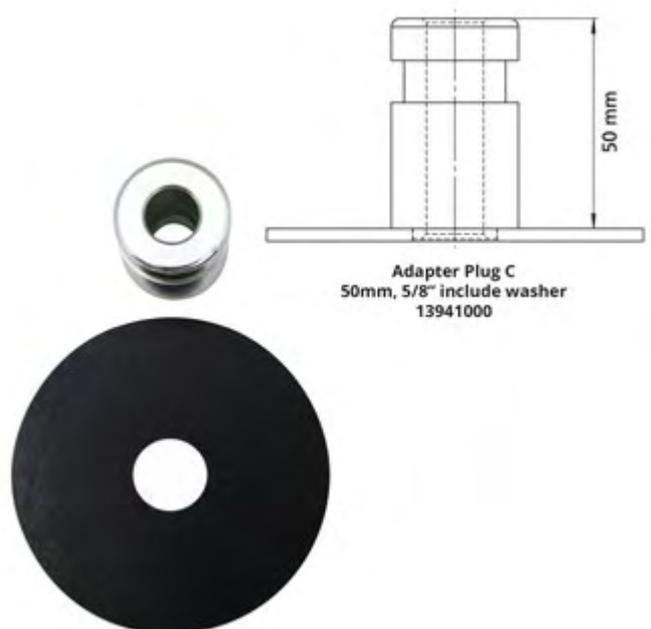
## NESTLE tripod accessories

13941000, 13942000



### NESTLE tripod adapter

- Tripod adapter for attaching (floodlighting) headlights throw on tripods with 5/8" connection with fire department DIN mount.
- **13941000:** NESTLE tripod adapter plug C the C-pin has a 5/8" attachment for attachment on tripods. The enclosed disc is used to bridge the tripod head opening.
- **13942000:** NESTLE tripod adapter bridge 350 mm. Suitable for receiving 2 headlamps. The bridge has two holes for optional attachment of guy rope.
- Both articles with C-pins according to DIN 14640 for fire department bracket.



### Application benefits

- Suitable for all standard tripods with 5/8" centre screw.



### Specifications

Tripod adapter	Model no. 13938000
C-pins	according to DIN 14640
Weight	200g

Tripod adapter bridge 350mm	Model no. 13942000
C-pins	according to DIN 14640
Pin-distance	350mm
Weight	920g



### Accessories

We recommend to use only high-quality tripods from Gottlieb NESTLE GmbH while working with (flood lighting) headlights.



## Camera tripod / Column stand

13911000, 21141000



### Photographer's tripod with 1/4 inch connection

- Ideal for working with Disto laser-distance meters and PLS line lasers with 1/4" thread connection..
- A line laser can easily be positioned on the required height using the crank system.
- The accuracy of measurements with laser-distance meters becomes increased when fixing the Disto on a tripod - no shaking when measurements are triggered.
- The head can be turned and inclined.
- Quick-lock head plate for easy mounting devices.
- Circular bubble for perpendicular positioning.
- Carrying handle positioned at the central column.



### Application benefits

- Easy and space-saving transport.
- Easy handling.
- Increased precision when used with distancemeters.



Specifications	Camera tripod / Column stand
<b>Camera Tripod</b>	Model no. 13911000
Range	60 – 160cm
Transport length	65cm
Clamping	Quick clamping system
Weight	1,370g
Thread connection	1/4"
<b>Column stand</b>	Model no. 21141000
Length	145cm – 290cm
Thread connection	1/4" / 5/8"
Weight	2,700g

### Column stand

- Automatic stretcher for quick and continuous fixing.
- Safe stand even in inclined position due to rubber-covered endplates.
- Working range 1.45m to 2.90m.
- Carrying capacity 45kg.
- Inclination up to 25° with ball joints.
- GS-certified.
- A mount included in the scope of delivery (BSS-01 model no. 21138000) allows for fixing small laser devices with 1/4" or 5/8" connection.



# Products | **Machine control mast**



Machine control mast  
MCM-series  
page 39



**NESTLE machine control mast MCM**

**30012000, ...13000, ...14000, ...15000**



**Machine control mast MCM for machine guidance**

- The Nestle machine control masts MCM are stable masts for sensors such as prisms, GNSS antennas or laser receivers.
- The MCM masts are suitable for all construction machinery and can be telescoped if required.
- The scale of the telescope area is laser-marked, abrasion-resistant and with millimeter distribution.
- The integrated damping significantly reduces oscillations and vibrations, so that instruments on the masts are less stressed.

**Variant of the machine control mast MCM-BC1**

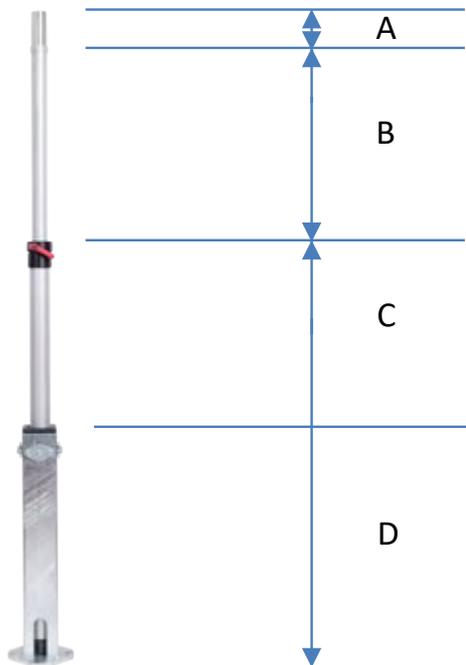
- Special feature: vibration-decoupled damping.
- For your specific product variants, please contact us, we will be happy to advise you.



**MCM-BC1**

**Application benefits**

- Scale abrasion resistant with millimetre division.
- Four lengths available.
- Suitable for all machines.



Technical data	MCM-116	MCM-180	MCM-210	MCM-280
Model no.	30012000	30013000	30014000	30015000
Max. Length overall cm	116	180	210	280
Min. Length overall cm	85	147	167	207
Ø Tube A mm	45			
Length A mm	35			
Scale [mm] on telescopic tube B	0 - 310	0 - 330	0 - 430	0 - 730
Length C cm	18	47	70	110
Length D cm	31	61	61	61
Connection below	perforated plate 4 x 12mm holes on 80 mm circle			
Clamping	Clamping screw			
Colour	Tubes silver, Clamping part black, Foot part hot-dip galvanized			

# Products | **Angle gauges + spirit levels**



Digital angle gauges

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Digital angle gauges

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Digital spirit level

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Spirit levels

page 44



## NESTLE DIGIT - angle gauge

17004001, 17005001



### Electronic angle gauges with digital display

- The angle measure are used especially for interior construction work and they are suitable for aligning any sort of built-in units, staircases, floor and wall tiling as well as roof constructions.
- Display angles of  $\pm 0-180^\circ$  with an accuracy of  $\pm 0.2^\circ$ .
- Big digits in the LCD-display are very easy to read, even from a distance.
- In bad lightning conditions you can switch light on.
- Because of the horizontal and vertical bubble, you can use the angle measurer also as a level or slope level.
- You can use the „reset“ function in every position to set the value to zero. Now you can measure the complementary angle in one measurement.

### Only a solid instrument can guarantee an enduring accuracy:

- Measuring leg made of aluminium in a high-precision CNC production.
- The powder coating makes the angle gauge weather-resistant.
- Display and bubble levels are protected behind plexiglass.
- The measuring module is located inside the housing and can not be touched from the outside.



### Application benefits

- Operating time around 1.5 years.
- Display definition  $0.05^\circ$  with an innovating sensor system which guarantees accurate measurements.
- Press the „Hold“ function to freeze the values - especially if you cannot see the display in your working positions.
- Automatically switch off after 5 minutes and value saving.
- If you switch off the DIGI, the values are saved and they appear if you switch on again.
- Start with the „Reset“ function in every position new measurements without addition or subtraction.



Specifications	DIGIT - angle gauge
Display definition	0.05°
Accuracy	$\pm 0.2^\circ$
Measuring range	$\pm 0^\circ - 180^\circ$
auto. switch off	after 5min.
Operating temperature	-5°C to 35°C
Battery	2 x AAA
Operating time	app. 1.5 years
<b>Model no. 17004001</b>	Weight 460g
	Length 348mm
<b>Model no. 17005001</b>	Weight 650g
	Length 500mm



### Accessories

Available for the DIGIT:

- Bag, model no. 17900000 for 17004001
- Bag, model no. 17901000 for 17005001



**NESTLE DIGIT - angle gauge**

17003000

**Electronic angle gauges with digital display**

- These NESTLE digital angle gauges will make your daily work much easier.
- The DIGIT measures and displays angles of 0-199.9° respectively. Minimum reading 0.1°.
- Accuracy 0.15°
- Big digits in the LCD-display are very easy to read, even from a distance.
- Because of the horizontal and vertical bubble, you can use the angle measurer also as a level or slope level.
- Imprinted cm-scale for length measurement and marking.

**Only a solid instrument can guarantee an enduring accuracy:**

- Measuring leg made of aluminium in a high-precision CNC production.
- The powder coating makes the angle gauge weather-resistant.
- Display and bubble levels are protected behind plexiglass.
- The measuring module is located inside the housing and can not be touched from the outside.
- The DIGITs are available at four lengths.
- Low power demand for long battery life.
- Delivery including 9V - battery.
- Low-bat signal to avoid downtime.

**Application benefits**

The angle measures are used especially for interior construction work and they are suitable for aligning any sort of built-in units, staircases, floor and wall tiling as well as roof constructions.

**Specifications** DIGIT - angle gauge

Accuracy	0.15°
Measuring range	0°-199.9°
Battery	9V block
Length	1,067mm
Weight	1,700g

**Accessories**

See also NESTLE spirit levels on next page.



## NESTLE DIWA - digital spirit level

1710000, 1710100



### Spirit level with digital reading

- Big digits in the LCD-display are very easy to read, even from a distance.
- Accuracy 0.1% at 90° and 0.2% for other angles.
- HOLD-function. Often, measurements have to be done in places, where it is difficult to read the display. Just apply the level, press the HOLD-button, then read the result in convenient position.
- Button for acoustic signal at 0°. This function allows for checking level when the display can't be seen.
- The solid construction guarantees for precise measurements.
- The level is made of rugged aluminium.
- The levels are available at 60cm and 100cm length.
- Adjustable.
- Display showing degrees or percent.
- Delivery includes two micro batteries (AAA) and bag.



### Application benefits

Layout of grades for:

- Stairways
- Windows
- Doors
- Roofs



### Specifications

### Digital spirit level

Model no. 17100001	Length: 60cm
-	Weight: 1,000g
Model no. 17101001	Length: 100cm
-	Weight: 1,200g
<b>Both models:</b>	
Measuring range	0-180°
Reading	0.1° / 0.1%
Functions	HOLD-function, acoustic signal at 0°
Accuracy	At 0° and 90°: 0.1%
-	Other angles 0.2%
Power supply	Battery 9V block



### Accessories

For angle measurements we offer digital and analogue gauges.



**NESTLE Spirit level**

17103001, 17104001,...

**NESTLE Spirit level Zeus**

- The professional craftsman's spirit level Zeus has an enlarged Horizontal vial.
- The 2 Plumb-Site® Dual View™ vials provide an optimal field of view and enable highest measurement accuracy - back, neck and Eyes are spared.
- Air-cushioned Ergo Grip™ handle for comfortable handling.
- The vials are UV-resistant and made of epoxy-sealed acrylic.
- Shock-absorbing rubber end caps.
- Accuracy of vials: 0.5 mm / m.
- High quality aluminium profile W = 66mm x H = 30mm, with a thickness of 2.1 mm on the finely milled measuring surfaces.

17103001



17104001

**Application benefits**

- Vials: UV resistant, epoxy - sealed acrylic glass
- Air-cushioned Ergo Grip™
- Shock-absorbing rubber caps

**Specification****Spirit level Zeus**

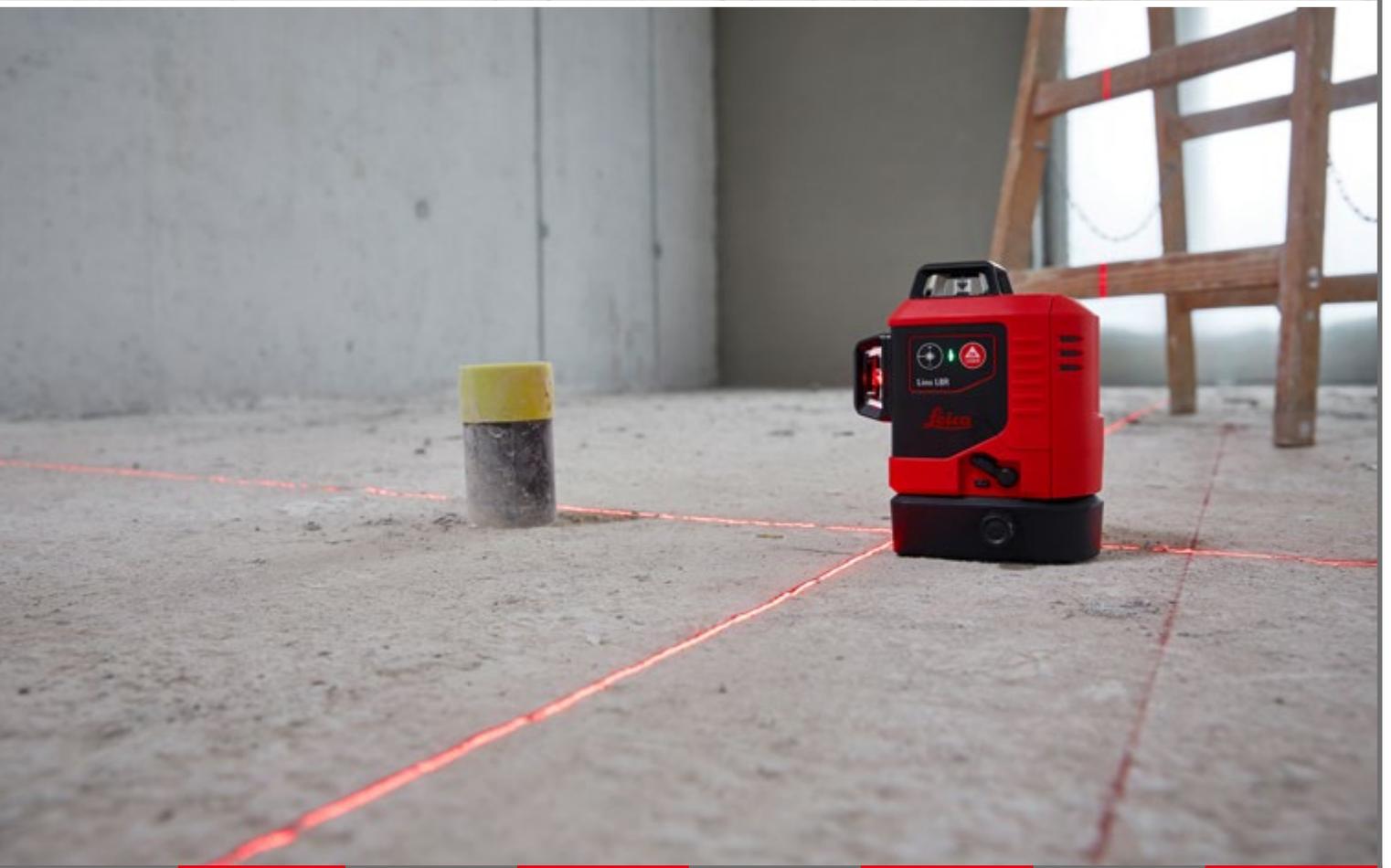
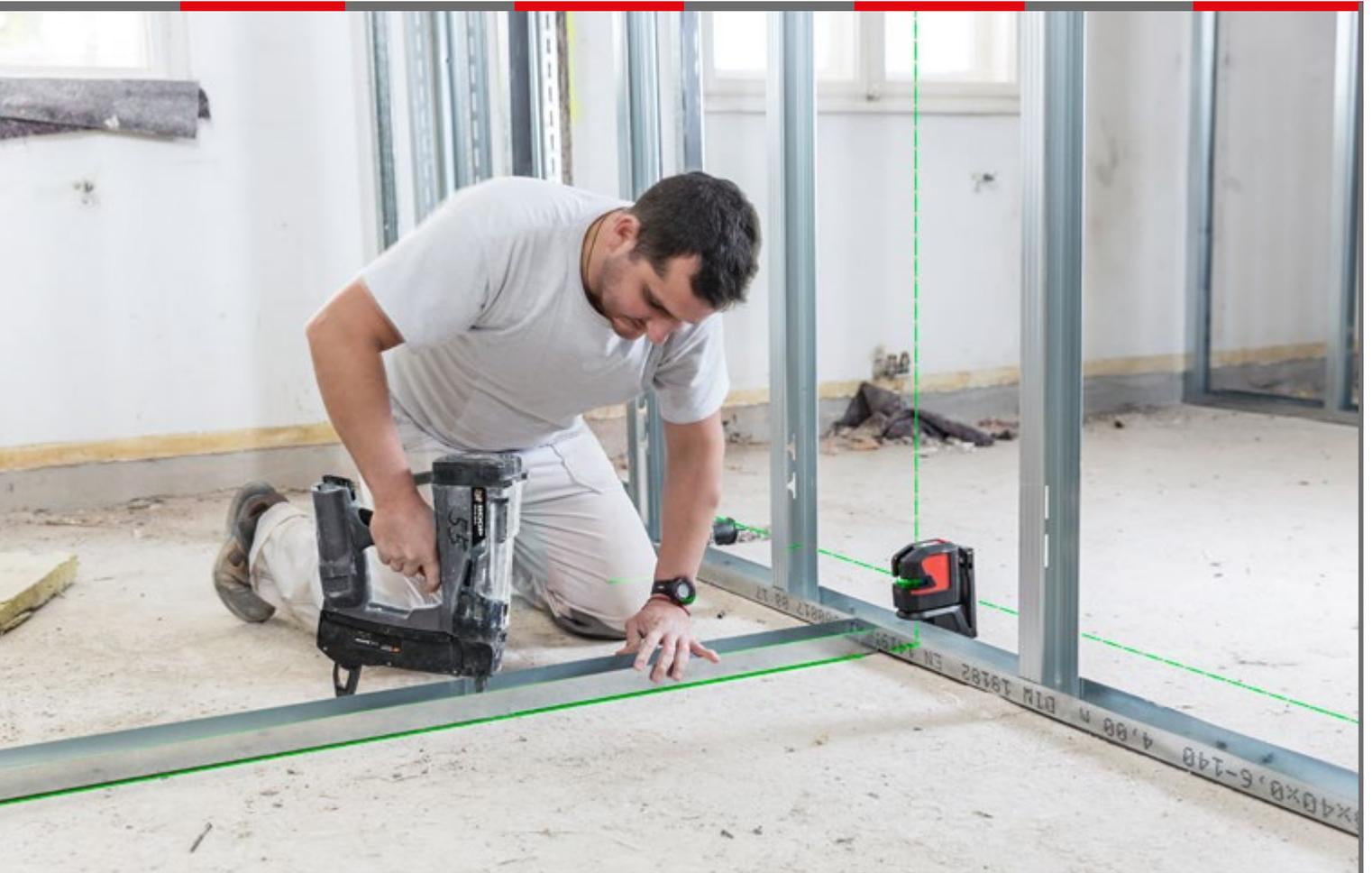
60cm / 610g	17103001
80cm / 820g	17104001
100cm / 1,020g	17105001
120cm / 1,230g	17106001
150cm / 1,530g	17107001

**Accessories**

We recommend leveling instruments or rotating lasers for height control and transmission over longer distances. You can find these in the categories Levels and Rotating Lasers.



# Products | Point and line lasers



# Products | Point and line lasers



NESTLE Octoliner

Multiline laser with 360° horizontal line  
page 47



NESTLE Octoliner G

Multiline laser with 360° horizontal line  
page 48



NESTLE NCL-2

Line laser for indoor working  
page 49



NESTLE NCL-2 G

Line laser for indoor working  
page 50



Leica LINO L2

Cross line laser  
page 51



Leica LINO L2P5

Cross line and point laser  
page 52



Leica L4P1

Multiline laser  
page 53



Leica LINO P5

5 point laser  
page 54



Leica LINO L6 Rs/Gs

Multiline laser 360° red  
page 55 / 56



Leica LINO 6R/G

Multiline laser 360° green  
page 57 / 58



NESTLE point and line laser

Accessories  
page 59



NESTLE wall mounts

page 60

## NESTLE Octoliner

1610001



### Multiline laser with 360° horizontal line

- Ideal for any kind of alignment.
- For renovation works, glaziers, frame and drywall-workers, electricians, building contractors.
- The NESTLE Octoliner emits a 360°- horizontal line.
- Additional vertical lines cross each other at a 90°- angle for upper plumb spot.
- Also, a bottom plumb beam is emitted.
- The Octoliner features motorized self-levelling at a range of 4°.
- The 5/8" - thread connection allows for fixing the laser on a tripod.
- The Octoliner is also suitable for working with a receiver.
- Tangent screws for exact alignment of the vertical beams.
- The Octoliner features a manual mode for beam inclination.
- Adjustable foot screws for balancing the instrument on uneven surfaces beyond self-levelling range.
- Scope of delivery contains laser glasses, a target plate, accu with charger and a carrying case.
- Illuminated bubble for quick and easy pre-alignment.



### Application benefits

- Manual tilt in one axis:  $\pm 5\%$  electronically and additionally  $\pm 8\%$  mechanically by the feet.
- Easy handling.
- The motorized self levelling prevents the laser line from jittering in comparison to pendulum line lasers.
- Unique versatility due to the combination of the 360° line and the vertical beams.



### Specifications

#### Octoliner

Laser	635nm, Class 2
Accuracy	$\pm 1.5\text{mm}$ at 10m
Range without / with Receiver	30m / 100m
Self-levelling	4°
Optical angle	360° horizontal / 4 x vertical
Power supply	Accumulator
Dimensions	$\varnothing 15\text{cm} \times 22\text{cm}$
Weight	1,520g
Thread	5/8"
Protection class	IP54
Pulse-Mode	Yes



### Accessories

- For outdoor working we recommend the receiver DECTO incl. holder, model no. 16814000.
- The Octoliner ist available in a set with receiver DECTO model no. 16101001.
- For working with the Octoliner we recommend our telescopic tripod, model no. 13001000.



**NESTLE Octoliner G**

16114001

**With green laserbeam**

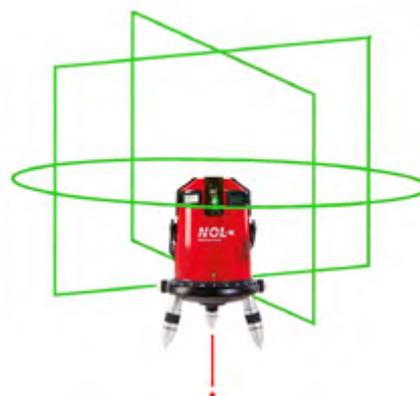
- The human eye recognizes green light significantly better than red light. Due to the green laser beam of all laser lines the Octoliner-G impresses with a better visibility of the projected lines.
- The Octoliner-G corresponds in its application properties to the Nestle Octoliner:
  - 360° horizontal line
  - 4 switchable vertical lines and plump point
  - Motorized self-levelling (can be switched off)
  - 5/8" connection, tangent screws, adjustable leg screws
- Thanks to the green laser lines, the Octoliner-G is especially suitable for drywall construction, glaziers, electricians, heating and ventilation engineers, for aligning building elements such as walls, pipes and for transferring floor and ceiling points.
- The Octoliner-G is also suitable for use with a receiver (Decto-G model no. 16829000).

**Application benefits**

- All lines with green laser beam, plump point red laser beam.
- Working temperature -10° C to +40° C.
- Motorized self-levelling.

**Specifications****Octoliner G**

Laser (Lines)	Green, class 2
Plump (Point)	Red, class 2
Tolerance	± 1.5mm at 10m
Range without / with receiver	50m / 120m
Self-levelling	± 4°
Optical angle	360° horizontal / 4 x vertical
Power supply	Li-Ion or 4 x AA
Dimension	Ø 15cm x 22cm
Weight	1,520g
Thread	5/8"
Protection class	IP54

**Accessories**

**Scope of delivery:** Octoliner-G, carrying case, Li-Ion battery, target plate, glasses, charger.

- For work with the Octoliner-G we recommend our light telescopic tripod model no. 13001000.
- Decto-G Receiver model no. 16829000



**NESTLE Line laser NCL-2 / NCL-2G**

**16102001, 16115001**



**Line laser for interior work**

- Set up and start work! The NESTLE NCL-2 has an integrated pendulum compensator which does the fine adjust by itself.
- An outstandingly visible laser line. You could use a receiver for longer distances – switch into the pulse mode.
- The human eye recognizes green light much better than red light. With the green laser beams, the NESTLE NCL-2G cross line laser impresses with the high visibility of the projected lines.
- No operating errors – clearly arranged control panel.
- It is possible to fix the horizontal and vertical laser lines to operate in every position.
- Low-bat indicator starts blinking when battery voltage under <3 Volt.
- The NESTLE NCL-2 is a small sized instrument for nearly every indoor work.
- The laser has a 1/4" thread to mount a tripod. This makes the laser more flexible in its application.
- An acoustical alarm signal sounds out, if the laser cannot do the fine adjusting.
- Horizontal and vertical laser line – angle of reflected beam 120°.



**Application benefits**

- The NESTLE NCL-2 is protected by a solid casing with rubber coating for more safety at construction.
- Solid construction of the NCL-2 is ideal for the rugged daily use.
- Simple handling to be fast and precision.
- 1/4 "thread connection for attachment to wall brackets or tripods.



**Specifications NESTLE NCL-2 and NCL-2G**

Tolerance horizontal line	± 3mm to 10m
Tolerance vertical line	± 2.5mm to 10m
Self-levelling zone	4° ± 0.5°
Operating area / with receiver	20m / 50m with receiver
Operating time	<8 hours
Laser	635nm visible, class 2 505 nm visible, class 2 (NCL-2G)
Storage temperature	-20°C to +60°C
Dimensions	119 x 62 x 95mm
Weight	480g
Thread	1/4"
Pulse-Mode	Yes



**Accessories**

Optionally available from NESTLE:

- Decto receiver - for red laser - with holder, model no. 16814000.
- Decto G receiver - for green laser - with holder, model no. 16829000.

NCL-2 and NCL-2G also available as a set - see next page.



16829000



16814000

**NESTLE Line laser NCL-2 and NCL-2G Set****16116001, 16117001****In a practical set with wall bracket and case**

The cross line laser NCL-2 has an extremely robust design, is also rubber-coated and is therefore especially designed for tough, daily use. It has fine, but strong laser lines that are extremely visible - even over longer distances. The built-in pendulum compensator enables reliable self-leveling. The simple operating concept makes it quickly ready for use and ideal for interior work. The green laser beams of the NCL-2G are much better perceived by the human eye.

Two NCL-2 sets are available:

**Cross line laser NESTLE NCL-2 set, model no. 16116001:**

- NESTLE NCL-2, 3x AA batteries, wall bracket NWM-802, target plate, Transport case, laser goggles, batteries, instructions.

**Cross line laser NESTLE NCL-2G set, model no. 16117001:**

- NESTLE NCL-2G, 3x AA batteries, wall bracket NWM-802, target board, Transport case, laser goggles, batteries, instructions

**Application benefits**

- Ease of use for quick and precise work.
- 1/4" thread connection for attachment to wall brackets or tripods.
- Practical set with wall bracket and case.

**Specifications** NESTLE NCL-2 and NCL-2G

Tolerance horizontal line	± 3mm to 10m
Tolerance vertical line	± 2.5mm to 10m
Self-levelling zone	4° ± 0.5°
Operating area / with receiver	20m / 50m with receiver
Operating time	<8 hours
Laser	635nm visible, class 2 505nm visible, class 2 NCL-2G
Storage temperature	-20°C to +60°C
Dimensions	119 x 62 x 95mm
Weight	480g
Tread connection	1/4"
Pulse-Mode	Yes

**Accessories**

Optionally available from G-NESTLE:

- Decto receiver - for red laser - with holder, model no. 16814000.
- Decto G receiver - for green laser - with holder, model no. 16829000.

See page 59.



## Leica LINO L2 and LINO L2G

16724000, 16725000



### Cross line Laser for interior work

- The LINO L2 projects exact lines for easy and fast interior work.
- So you always have your hands free for work.
- In interior work, green light is often perceived more easily by the human eye. The LINO L2 projects red laser beams, LINO L2G projects green laser beams both in laser class 2.
- Whether horizontal, vertical or crossed - the lines are perfectly visible on the wall everywhere.
- Minor inaccuracies when setting up to  $\pm 4^\circ$  are compensated automatically.
- With the optional receiver Lino RGR200, a range of up to 80 meters is possible.
- With triple power supply concept: use the included Li-Ion battery, the included power adapter or alkaline batteries.



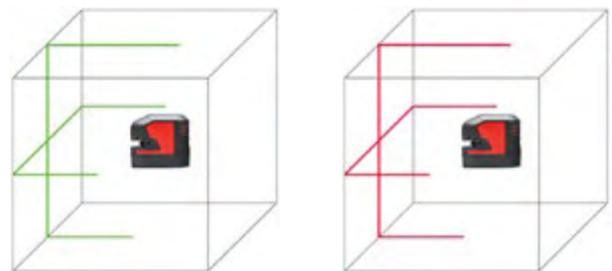
### Application benefits

- Very precise laser lines
- Self-levelling range  $\pm 4^\circ$
- Exact  $90^\circ$  angle
- Red laser beam (L2) or green laser beam (L2G)



### Specifications Leica LINO L2 / LINO L2G

Laser class	2
Laser colour	L2 = red, L2G = green
Laser lines	Vertical + horizontal
Range	L2 up to 25m / L2G up to 35m
Range with receiver	Up to 80m
Accuracy	$\pm 0.3\text{mm/m}$
Self-levelling range	$\pm 4^\circ$
Power	Li-Ion, or 3 x AA
Dimension	110 x 60 x 100mm
Weight	530g
Tripod thread	1/4" (5/8")
Protection class	IP54



### Scope of delivery

**16724000** Leica LINO L2, adapter Twist 250, Li-Ion battery, charger, alkaline battery tray, target plate, hard case, safety instructions, quick start with QR code linking to online manual.

**16725000** Leica LINO L2G, adapter Twist 250, Li-Ion battery, charger, alkaline battery tray, target plate, hard case, safety instructions, quick start with QR code linking to online manual, wall bracket UAL130.



## Leica LINO L2P5 and LINO L2P5G

16727000, 16728000



## Cross line and point Laser

- The LINO L2P5 combines line and point laser in one instrument.
- So you always have the right instrument for all your tasks.
- The proven Leica optics and the large outlet openings ensure extra long projections.
- In interior work, green light is often perceived more easily by the human eye. The LINO L2P5 projects red laser beams, LINO L2P5G projects green laser beams both in laser class 2.
- Minor inaccuracies when setting up to  $\pm 4^\circ$  are compensated automatically.
- With the optional receiver Lino RGR200, a range of up to 80 meters is possible.
- With triple power supply concept: use the included Li-Ion battery, the included power adapter or alkaline batteries.



## Application benefits

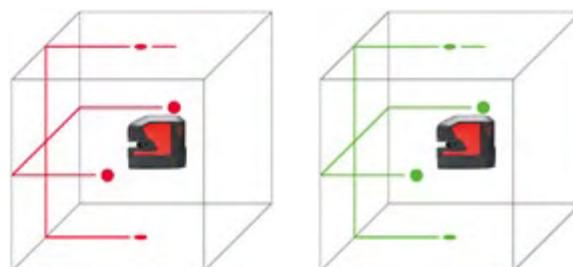
- Extra long good visible laser lines.
- 4 precisely perpendicular laser points for soldering and sighting.
- Self-levelling range  $\pm 4^\circ$ .
- Red laser beam (L2P5) or green laser beam (L2P5G).
- Works with optional receiver up to 80 meters.



## Specifications

## Leica LINO L2P5 / LINO L2P5G

Laser class	2
Laser colour	L2P5 = red / L2P5G = green
Laser lines	Vertical + horizontal
Laser points	Up, down, forward, right, left
Range	L2P5 up to 25m / L2P5G up to 35m
Range with receiver	Up to 80m
Accuracy	Points $\pm 0.2\text{mm/m}$ , lines $\pm 0.3\text{mm/m}$
Self-levelling range	$\pm 4^\circ$
Power	Li-Ion, or 3 x AA
Dimension	110 x 60 x 100mm
Weight	530g
Tripod thread	1/4" (5/8")
Protection class	IP54



## Scope of delivery

**16727000** Leica LINO L2P5, adapter Twist 360, Li-Ion battery, charger, alkaline battery tray, target plate, hard case, safety instructions, quick start with QR code linking to online manual.

**16728000** Leica LINO L2P5G, adapter Twist 360, Li-Ion battery, charger, alkaline battery tray, target plate, hard case, safety instructions, quick start with QR code linking to online manual, wall bracket UAL130.



## Leica LINO L4P1

16719000



### Multi line laser

- Powerful & versatile: Leica LINO L4P1 for all interior applications.
- 180° vertical and horizontal line & 5 layout points.
- The L4P1 can be rotated 360° over a selected point. The precise fine adjustment supports quick targeting of the vertical laser lines for high-speed layouts of whole rooms.
- Innovative Li-Ion power: Rechargeable Li-Ion is cost saving - no need to constantly exchange alkaline batteries.
- "Always ready to work" ... even if you forget to charge the LI-Ion batteries - you can easily exchange to standard alkaline batteries.



### Application benefits

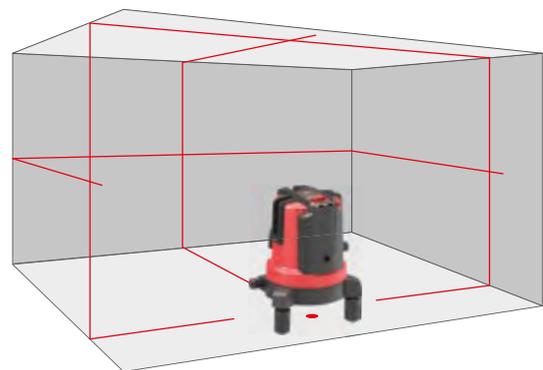
- Easy levelling and aligning.
- Simple 90° layout with bright laser lines.
- Quick plumbing - easy point transfer from floor to ceiling.
- Smart Power: Li-Ion exchangeable with Alkaline.



### Specifications

#### Leica LINO L4P1

Protection class / laser class / type	IP54, cl. 2, 635nm
Range	up to 15m / ca. 80m with detector
Dimension / weight	H 181mm, Ø 147mm / 1,173g
Self-levelling range	± 3°
Levelling accuracy	1.0mm to 5m
Laser lines / laser points	4 / 1
Operating- / storage-temperature	-10°C to 50°C / -25°C to 70°C
Battery life Li-Ion batteries	24h
Battery type	Li-Ion batteries rechargeable (and Alkaline batteries 4 x AA, 1,5V)
Beam direction	180° vertical / 180° horizontal
Tripod thread	1/4", 5/8"
Pulse-Mode	Ja



### Scope of delivery

- Leica LINO L4P1
- Red target plate
- Battery and battery compartment
- Battery charger with 4 adapters
- Carrying case



**Leica LINO P5****16726000****5 point laser for interior work**

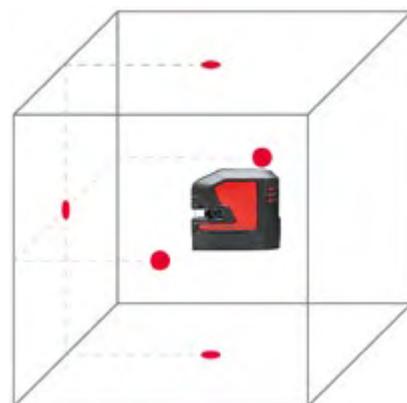
- For vertical up and down, right-angled staking, alignment and for simple height transfers in the interior.
- Five laser points which are arranged at right angles to each other: upwards, downwards, forwards, to the right and to the left.
- Easy operation with just one button.
- Minor inaccuracies when setting up to  $\pm 4^\circ$  are compensated automatically.

**Application benefits**

- One-button operation
- Self-levelling range  $\pm 4^\circ$
- Robust and ergonomic design

**Specifications****Leica LINO P5**

Laser class	2
Laser colour	Red
Laser points	Up, down, forward, right, left
Range	Up to 30m
Accuracy	$\pm 1.0\text{mm}$ to 5m
Self-levelling range	$\pm 4^\circ$
Power	3 x AA
Dimension	110 x 60 x 100mm
Weight	495g
Tripod thread	1/4" (5/8")
Protection class	IP54

**Scope of delivery**

**16726000** Leica LINO P5 point laser, adapter Twist 360, batteries, target plate, hard case, safety instructions, quick start with QR code linking to online manual.



## Leica LINO L6Rs

16729000



### 3 x 360° multi-line lasers for precise alignment

- The Leica LINO L6Rs is a self-levelling multi-line laser with a red laser beam.
- The professional line laser has three 360° visible laser lines.
- Thin, sharp and clearly visible 360° laser lines make this line laser ideal for demanding applications.
- The vertical laser lines projected onto the walls and ceiling can be easily adjusted after setting up the plumb point. Thanks to the integrated base of the line laser, the point of intersection of the two vertical laser lines (plumb point) can be positioned as required. The laser lines can then be further aligned by  $\pm 10^\circ$  without changing the plumb point.
- The triple power supply concept always allows uninterrupted work. The Leica LINO L6R can work with 3x AA batteries, Li-ion batteries or a power supply unit (scope of delivery depends on the model number).
- For better visibility or to save energy, the power of the laser lines can be set in three stages (100%, 75% and 50%).
- Optionally available with magnetic adapter TWIST 250 and wall bracket UAL 130.

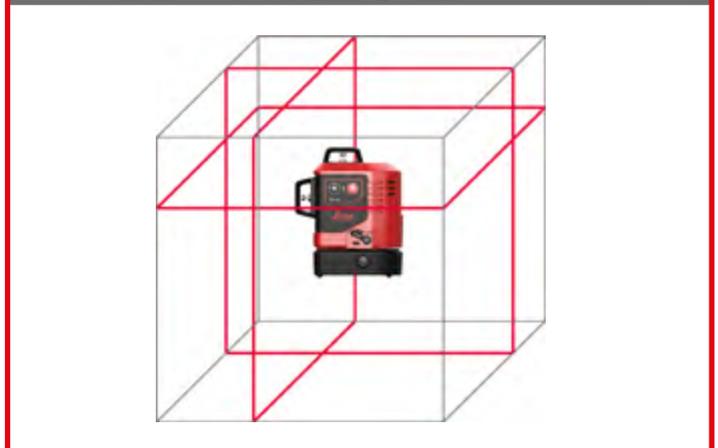
### Application benefits

- 3 x 360° laser lines (2 x vertical, 1 horizontal)
- Due to its robustness, it is suitable for use on construction sites
- Laser power adjustable in three stages
- Self-levelling
- Fixed plumb point thanks to the integrated base
- Triple power supply concept for uninterrupted work

Specifications	Leica LINO L6Rs
Laser horizontal	360°
Laser vertical	2 x 360°
Laser class	2
Laser colour	red
Protection class	IP 54
Operation temperature	-10°C to +50°C
Range diameter	Ø 50m (depending on light conditions)
Work with receiver	YES
Range diameter with receiver	Ø 140m
Self-levelling range	$\pm 4^\circ$
Accuracy	$\pm 1,5\text{mm} @ 5\text{m}$
Dimension	124 x 107 x 154mm
Weight	781g
Tripod thread	1/4"
Power	Li-Ion or 3 x AA Alkaline or Power supply
Operation time	Li-Ion up to 36 hours, Alkaline up to 25 hours

### Scope of delivery

Leica Lino L6Rs, Li-Ion battery pack, charger for Li-Ion battery, battery tray for Alkaline, target plate, quick start guide, Calibration Certificate, pouch.



**Leica LINO L6Gs****16730000****3 x 360° multi-line lasers for precise alignment**

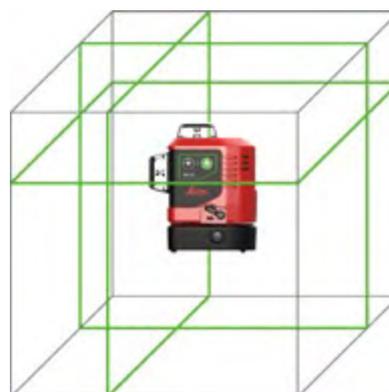
- The Leica LINO L6Gs is a self-leveling multi-line laser with a green laser beam.
- The professional line laser has three 360° visible laser lines.
- Thin, sharp and clearly visible 360° laser lines make this line laser ideal for demanding applications.
- Leica LINO L6G has a green laser that has been shown to be more visible to the human eye.
- The vertical laser lines projected onto the walls and ceiling can be easily adjusted after setting up the plumb point. Thanks to the integrated base of the line laser, the point of intersection of the two vertical laser lines (plumb point) can be positioned as required. The laser lines can then be further aligned by  $\pm 10^\circ$  without changing the plumb point.
- The triple power supply concept always allows uninterrupted work. The Leica LINO L6G can work with 3x AA batteries, Li-ion batteries or a power supply unit (scope of delivery depends on the model number).
- For better visibility or to save energy, the power of the laser lines can be set in three stages (100%, 75% and 50%).
- Optionally available with magnetic adapter TWIST 250 and wall bracket UAL 130.

**Application benefits**

- 3 x 360° laser lines (2 x vertical, 1 horizontal)
- Due to its robustness, it is suitable for use on construction sites
- Laser power adjustable in three stages
- Self-levelling
- Fixed plumb point thanks to the integrated base
- Triple power supply concept for uninterrupted work

**Specifications****Leica LINO L6Gs**

Laser horizontal	360°
Laser vertical	2 x 360°
Laser class	2
Laser colour	green
Protection class	IP 54
Operation temperature	-10°C to +50°C
Range diameter	Ø 70m (depending on light conditions)
Work with receiver	YES
Range diameter with receiver	Ø 140m
Self-levelling range	$\pm 4^\circ$
Accuracy	$\pm 1,5\text{mm} @ 5\text{m}$
Dimension	124 x 107 x 154mm
Weight	781g
Tripod thread	1/4"
Power	Li-ion or 3 x AA Alkaline or Power supply
Operation time	Li-ion up to 11 hours, Alkaline up to 8 hours

**Scope of delivery**

Leica Lino L6Gs, Li-Ion battery pack, charger for Li-Ion battery, battery tray for Alkaline, target plate, quick start guide, Calibration Certificate, pouch.



## Leica LINO L6R

16731000



### 3 x 360° multi-line lasers for precise alignment

- The Leica LINO L6R is a self-levelling multi-line laser with a red laser beam.
- The professional line laser has three 360° visible laser lines.
- Thin, sharp and clearly visible 360° laser lines make this line laser ideal for demanding applications.
- The vertical laser lines projected onto the walls and ceiling can be easily adjusted after setting up the plumb point. Thanks to the integrated base of the line laser, the point of intersection of the two vertical laser lines (plumb point) can be positioned as required. The laser lines can then be further aligned by  $\pm 10^\circ$  without changing the plumb point.
- The triple power supply concept always allows uninterrupted work. The Leica LINO L6R can work with 3x AA batteries, Li-ion batteries or a power supply unit (scope of delivery depends on the model number).
- For better visibility or to save energy, the power of the laser lines can be set in three stages (100%, 75% and 50%).
- With magnetic adapter TWIST250 and wall bracket UAL130.



### Application benefits

- 3 x 360° laser lines (2 x vertical, 1 horizontal)
- Due to its robustness, it is suitable for use on construction sites
- Laser power adjustable in three stages
- Self-levelling
- Fixed plumb point thanks to the integrated base
- Triple power supply concept for uninterrupted work



Specifications	Leica LINO L6R
Laser horizontal	360°
Laser vertical	2 x 360°
Laser class	2
Laser colour	red
Protection class	IP 54
Operation temperature	-10°C to +50°C
Range diameter	Ø 50 m (depending on light conditions)
Work with receiver	YES
Range diameter with receiver	Ø 140m
Self-levelling range	$\pm 4^\circ$
Accuracy	$\pm 1,5\text{mm} @ 5\text{m}$
Dimension	124 x 107 x 154mm
Weight	781g
Tripod thread	1/4"
Power	Li-Ion or 3 x AA Alkaline or Power supply
Operation time	Li-Ion up to 36 hours, Alkaline up to 25 hours



### Scope of delivery

Leica Lino L6R, Li-Ion battery pack, charger for Li-Ion battery, battery tray for Alkaline, target plate, quick start guide, Calibration Certificate, hard case, Twist 250 magnetic adapter, UAL wall mount adapter.



**Leica LINO L6G**

16732000

**3 x 360° multi-line lasers for precise alignment**

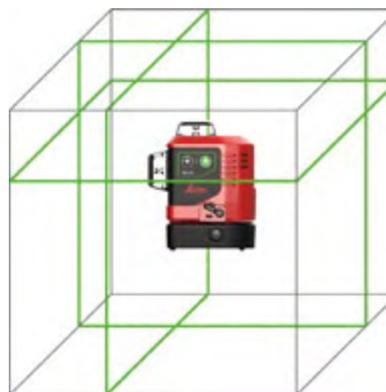
- The Leica LINO L6G is a self-levelling multi-line laser with a green laser beam.
- The professional line laser has three 360° visible laser lines.
- Thin, sharp and clearly visible 360° laser lines make this line laser ideal for demanding applications.
- Leica LINO L6G has a green laser that has been shown to be more visible to the human eye.
- The vertical laser lines projected onto the walls and ceiling can be easily adjusted after setting up the plumb point. Thanks to the integrated base of the line laser, the point of intersection of the two vertical laser lines (plumb point) can be positioned as required. The laser lines can then be further aligned by  $\pm 10^\circ$  without changing the plumb point.
- The triple power supply concept always allows uninterrupted work. The Leica LINO L6G can work with 3x AA batteries, Li-ion batteries or a power supply unit (scope of delivery depends on the model number).
- For better visibility or to save energy, the power of the laser lines can be set in three stages (100%, 75% and 50%).
- With magnetic adapter TWIST250 and wall bracket UAL130.

**Application benefits**

- 3 x 360° laser lines (2 x vertical, 1 horizontal)
- Due to its robustness, it is suitable for use on construction sites
- Laser power adjustable in three stages
- Self-levelling
- Fixed plumb point thanks to the integrated base
- Triple power supply concept for uninterrupted work

**Specifications****Leica LINO L6G**

Laser horizontal	360°
Laser vertical	2 x 360°
Laser class	2
Laser colour	green
Protection class	IP 54
Operation temperature	-10°C to +50°C
Range diameter	Ø 70m (depending on light conditions)
Work with receiver	YES
Range diameter with receiver	Ø 140m
Self-levelling range	$\pm 4^\circ$
Accuracy	$\pm 1,5\text{mm} @ 5\text{m}$
Dimension	124 x 107 x 154mm
Weight	781g
Tripod thread	1/4"
Power	Li-Ion or 3 x AA Alkaline or Power supply
Operation time	Li-Ion up to 11 hours, Alkaline up to 8 hours

**Scope of delivery**

Leica Lino L6G, Li-Ion battery pack, charger for Li-Ion battery, battery tray for Alkaline, target plate, quick start guide, Calibration Certificate, hard case, Twist 250 magnetic adapter, UAL wall mount adapter.



**NESTLE Point and Line laser Accessories**

21139000, 16814000,...



**Wall bracket NWM-802, Receiver DECTO**

- The wall bracket NWM-802 is suitable for fastening point or line lasers on walls, angle rails or tripods (5/8", 1/4").
- The two-part wall bracket consists of a vertically adjustable instrument carrier with 1/4" connection and a base carrier with bracket.
- 14cm vertically adjustable.
- The instrument carrier and the base carrier are magnetically connected.
- NESTLE wall bracket suitable for NESTLE NCL-2 or Leica LINO.

Advantages in use:

- 5/8" and 1/4" tripod connection.
- Eyelet for wall mounting.
- Clamp for drywall rails.
- Instrument carrier and base carrier connected magnetically.

- The **DECTO laser receivers** are suitable for all pulsating Line laser with red or green laser light. Thanks to the integrated vial, the receiver can be aligned quickly and precisely. The acoustic signal and the LED display indicate in which direction the Receiver needs to be moved.

Advantages in use:

- Receiver has built-in horizontal and vertical vials to align receivers quickly and precisely.
- Easy handling.
- Read the laser beam display both on the front and on the back possible.



21139000



**Specification Accessories**

<b>Wall bracket</b>	<b>NWM-802, 21139000</b>
Vertical height adjustment	9cm by screw, 5cm on magnetic plate
Dimension	200 x 65 x 175mm
Weight	750g
Connection thread	1/4" + 5/8"
Instrument connection screw	1/4"

**Receiver for Laser DECTO 16814000 / DECTO-G 16829000**

Working range	50m
Receiving range	40mm / 35mm
Accuracy	± 0,5 - 1 mm (depending on distance)
Auto. Shutdown	10 min.
Power	DC 9 V
Dimensions	160 x 55 x 28mm / 149 x 54 x 24mm
Weight	160g / 200g



16829000

16814000

**Feature**

- 16722000 Receiver Leica Lino RGR 200 red + green
- 16814000 Receiver DECTO, red
- 16829000 Receiver DECTO-G, green



16722000

## NESTLE tripod adaptors + wall mounts

13902000, 21135000, ...



### Tripod adaptors for line lasers

- **Wall mount 21135000:** professional wall mount with vertical adjustment screw. To fix rotating lasers or line lasers with 5/8" connection on a wall.
- **Wall mount 21136000:** with 5/8" and 1/4" connection screw. To fix rotating lasers or line lasers with 5/8" or 1/4" connection on a wall.
- **Horizontal adaptation 13922000:** With the 5/8" thread the horizontal arm can be attached to any surveying tripods.
- **Adaptor 13902000:** from 5/8" to 5/8". The adapter enable the connection to a standard tripod for line laser with 5/8" connection - like Octoliner. The adaptor is placed on the tripod plate and connected to the central fixing screw. The long spigot provides perfect working space.
- **Adaptor 13923000:** from 5/8" to 1/4". The adaptor enables the connection to a standard tripod for line laser with 1/4" connection. The round base plate is ideal for tripods with big head plate opening.



### Application benefits

- Robust wall bracket for attaching rotation and line lasers on the wall or ceiling profiles.
- Ideal for interior work.



### Specifications tripod adaptor + wall mount

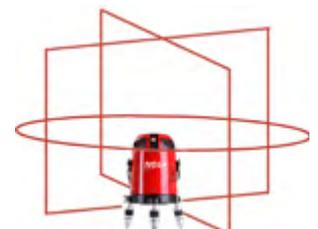
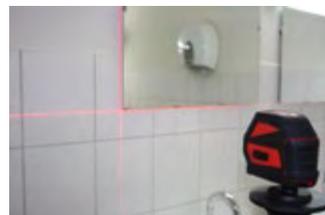
<b>Tripod adaptor</b>	13902000 / 13923000
	5/8" to 5/8"; 5/8" to 1/4"
Weight	130g / 100g
Plate	Ø 90mm / Ø 80mm x 30mm
Spigot length	65mm
<b>Wall mount</b>	21135000 / 21136000
for Instruments to	max. Ø 21cm
Weight	1,200g / 330g
<b>Horizontal adaption</b>	13922000
Dim / Weight	296 x 60 x 15mm / 660g



### Accessories

Other sizes on request.

See our range of line and rotation lasers for indoor and outdoor use. At NESTLE you find the right instrument for all applications.



# Products | **Rotation laser**



# Products | **Rotation laser**



NESTLE Pulsar H  
Horizontal laser  
page 63



NESTLE Pulsar HV-R / HV-G  
Multifunction laser  
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NESTLE Pulsar 2S  
Multifunction laser  
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NESTLE Pulsar H / HV-R, HV-G / 2S  
Horizontal-, Multifunction laser  
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GEOMAX  
Zone20 H  
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GEOMAX  
Zone20 HV  
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GEOMAX  
Zone40 H  
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GEOMAX  
Zone60 HG/DG  
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GEOMAX  
Zone80 DG  
page 72

## NESTLE PULSAR H – Type 2

16015001



### Automatic laser for horizontal applications

- Clear function program for simple application.
- In case of interruption at the tripod, the construction laser switches off his rotation automatically. If you are working in the TILT mode, the laser stops and doesn't level out himself. False measurements are impossible.
- Heavy-walled, massive aluminium casing for toughest use at constructions.
- High quality standard used by NESTLE in converting.
- The assembled laser diode of PULSAR H has a well visible laser beam, which increases the visibility of indoor working.
- A total coverage of 600m.



### Application benefits

- Install, turn on and start working.
- Complete package with a laser receiver and target plate.
- The laser is qualified for digging and base grade, levelling of form work and basements, landscape and roadworks, height control in construction areas.



### Specifications

#### PULSAR H

Accuracy	±1mm on 10m
Self-levelling zone	± 5°
Range with receiver	Ø 600m
Laser diode / beam	635nm, class 2 / red
Operating time	20 h
Rotation	600 r.p.m.
Operating temperature	-20°C to +50°C
Weight	3,000g
Dimensions	215 x 190 x 210mm
Protection class	IP65



### Scope of delivery

- PULSAR H with case and technical manual.
- Laser receiver PDRG60 (Made in Germany) with mm-display and holder.
- Charger.
- Target plate.
- Laser glasses.



**NESTLE PULSAR HV-R / HV-G – Type 2****16016001 + 16017001****Multifunctional laser with red or green beam**

- Clear function program with simple application.
- Heavy-walled, massive aluminium casing protects the laser by toughest use at construction.
- High quality standard used by NESTLE in converting.
- Power-supply on front display of the laser for most comfortable using and environment protection by saving batteries.
- The assembled laser diode has a well visible laser beam, which increases the visibility for indoor working.
- The human eye can better realise the green laser beam of PULSAR HV-G as the red one, especially indoor.
- Total range of 500m.
- NESTLE Pulsar HV-R (model no.16016001) with red laser light.
- NESTLE Pulsar HV-G (model no. 16017001) with green laser light.
- The instrument works in both horizontal and vertical modes.

**Application benefits**

- Automatic horizontal and vertical rotating laser: Install, turn on and start working.
- Complete package with laser receiver and remote control.
- Three modes: rotation (four speeds), scanning mode (for locating working ranges), point mode, with plump beam up and down.
- The PULSAR HV-R / -G can be inclined in two axes manually up to  $\pm 5^\circ$ .

**Specifications****PULSAR HV-R / -G**

Accuracy	$\pm 1\text{mm}$ on 10m
Self-levelling zone	$\pm 5^\circ$
Range with receiver	$\varnothing 500\text{m}$
Laser diode / beam	635nm, cl. 2 / red or 535nm, cl. 3 / green
Operating time	approx. 20h
Rotation velocities	0; 60; 120; 300; 600 r.p.m.
Operating temperature	-20°C to +50°C (HV-R) ; 0°C to +40°C (HV-G)
Weight / Dimensions	3,000g / 215 x 190 x 210mm
Protection class	IP65
Range with remote	20m

16017001

**Scope of delivery**

- PULSAR HV-R (model no. 16016001) or PULSAR HV-G (model no. 16017001) with case and technical manual.
- Laser receiver PDRG60 (Made in Germany) with mm-display and holder.
- Target plate and wall bracket.
- Charger.
- Remote control.
- Laser glasses.

16016001



## NESTLE PULSAR 2S – Type 2

16018001



### Automatic horizontal and vertical rotating laser

- Clear function program with display for simple application.
- High quality standard used by NESTLE in converting.
- Heavy-walled, massive aluminium casing for toughest use at construction.
- The assembled laser diode has a well visible laser beam, which increases the visibility for indoor working.
- Power-supply on front display of the laser for most comfortable using and environment protection by saving batteries.
- Illuminated display
- The instrument works in both horizontal and vertical modes.



### Application benefits

- The PULSAR 2S disposes of a digital inclination in two axes up to  $\pm 8\%$ .
- Three modes: rotation (four speeds), scanning mode (for locating working ranges), point mode, with plump beam up and down.
- The laser is qualified for one and two-sided slope construction, digging and base grade, levelling of form work and basements, suspended ceilings, cutting check and vertical plump, height control in construction area.



Specifications	NESTLE PULSAR 2S
Accuracy	$\pm 1\text{mm}$ on 10m
Self-levelling zone	$\pm 5^\circ$
Range with receiver	$\varnothing 500\text{m}$
Laser diode / beam	635nm, cl. 2 / red
Operating time	20h
Rotation velocities	0; 60; 120; 300; 600 r.p.m.
Operating temperature	$-20^\circ\text{C}$ to $+50^\circ\text{C}$
Weight / Dimensions	3,100g / 215 x 190 x 210mm
Protection class	IP65
Range with remote	20m



### Scope of delivery

- PULSAR 2S with case and technical manual.
- Laser receiver PDRG60 (Made in Germany) with mm-display and holder.
- Charger.
- Target plate and wall bracket.
- Laser glasses.
- Remote control.



**NESTLE PULSAR H, HV-R / HV-G, 2S – Type 1**

1600001, 1601001,...



## Fully automatic rotating laser

**NESTLE PULSAR H**

- Horizontal, fully automatic rotating laser
- Easy to use
- Laser class 2 red

## Accessories included

- PDRG60 laser receiver (Made in Germany) with holder
  - Charger, target plate, laser goggles, operating instructions, carrying case
- Item No. 1600001

**NESTLE PULSAR HV-R**

- Multifunctional laser for indoor and outdoor use
- Scanning mode, manual tilt, laser plummet
- Laser class 2 red

## Accessories included

- PDRG60 laser receiver (Made in Germany) with holder
  - Remote control, charger, target plate, wall bracket, laser viewing glasses, Operating instructions, carrying case
- Item No. 16001001

**NESTLE PULSAR HV-G**

- Multifunctional laser for indoor and outdoor use
- Scanning mode, manual tilt, laser plummet
- Green laser beam for better visibility
- Laser class 3 green

## Accessories included

- PDRG60 laser receiver with holder, remote control
  - Target plate, wall bracket, laser goggles, operating instructions, Carrying case
- Item No. 16002001

Sorry, phased out.  
See PULSAR HV-G 16017001 page 64.

**NESTLE PULSAR 2S**

- Inclination laser for indoor and outdoor use
- Tilttable in 2 axes, scanning mode, laser plummet
- Laser class 2 red
- Display

## Accessories included

- PDRG60 laser receiver with holder, remote control, charger
  - Target plate, wall bracket, laser goggles, operating instructions, Carrying case
- Item No. 16002001

**Technical data PULSAR H, HV-R / HV-G, 2S**

Tolerance	± 1mm on 10m
Self-levelling zone	± 5°
Range with receiver	Ø 500m
Accuracy receiver	± 1mm / ± 2mm / ± 5mm
Laser diode / beam colour	635nm class 2 red / 535nm class 3 green (HV-R)
Operating time	approx. 20h
Rotation velocities	0; 60; 120; 300; 600 U / min (only HV-R, HV-G, 2S)
Temperature range	-20 °C to +50 °C
Weight	3,800g
Dimensions	202 x 202 x 194mm
Protection class	IP56
Range with remote	20m



## GEOMAX rotating lasers Zone20 H

27103000, ...4000, ...5000



### Fully auto. horizontal laser with manual grade functionality

- The rotating lasers of GeoMax Zone series are robust (IP67), versatile (900 meters workspace) and offer exceptional value for money.
- The Zone 20H horizontal laser with self-levelling and manual slope in two axes ideal for concrete and form work.
- Best application: outdoor area.



### Application benefits

- Automatic self-levelling.
- Easy to use and highly reliable.
- With manual grade functionality.
- Laser class 1.



### Specifications

#### Zone20 H

Tolerance	± 0.75mm at 10m
Working range with receiver	Ø 900m
Laser diode	635nm visible (red), class 1
Self-levelling range	± 6°
Manual inclination range	8%
Temperature range	- 10°C to + 50°C
Power supply	4 alkaline D-cell (D), Lithium Ion (Li-Ion Pack) rechargeable
Operating time	> 40 hours
Dimensions	240 x 215 x 215mm
Weight	3,060g
Protection class	IP67
Tilt warning	Yes



### Scope of delivery

GeoMax Zone 20H laser rotator, Carrying case, Receiver, Li-Ion battery, Li-Ion charger, User manual on CD, Quick start guide, Safety instructions.

- Model no. 27103000 with receiver ZRB90
- Model no. 27104000 with receiver ZRP105 (picture)
- Model no. 27105000 with receiver ZRD105



**GEOMAX rotating lasers Zone20 HV****27106000, ...7000, ...8000****Fully auto. horizontal and vertical laser**

- The rotating lasers of GeoMax Zone series are robust (IP67), versatile (900 meters workspace) and offer exceptional value for money.
- The Zone 20HV expands the Zone 20H to the possible use as a vertical laser and 90° laser spot.
- As a result of Zone 20HV becomes a multifunction laser for a variety of applications on all construction sites.
- Best application: Multi-purpose tool for exterior and interior.

**Application benefits**

- Multipurpose laser, interior and exterior applications.
- Fully automatic.
- Easy-to-use and dependable in any element.
- Ideal for concrete and form work and levelling, aligning, plumbing or squaring.

**Specifications****Zone20 HV**

Tolerance	± 0.75mm at 10m
Working range with receiver	Ø 900m
Laser diode	635nm visible (red), class 2
Self-levelling range	± 6°
Manual inclination range	8%
Temperature range	- 10°C to + 50°C
Power supply	4 alkaline D-cell (D), Lithium Ion (Li-Ion Pack) rechargeable
Operating time	> 40 hours
Dimensions	240 x 215 x 215mm
Weight	3,150g
Protection class	IP67
Tilt warning	Yes

**Scope of delivery**

GeoMax Zone 20HV laser rotator, Carrying case, Receiver, Li-Ion battery, Li-Ion charger, User manual on CD, Quick start guide, Safety instructions, Remote control ZRC20.

- Model no. 27106000 with receiver ZRB90
- Model no. 27107000 with receiver ZRP105 (picture)
- Model no. 27108000 with receiver ZRD105



## GEOMAX rotating lasers Zone40 H

27109000, 27110000, 27111000



### Fully auto. horizontal laser with manual grade functionality

- The rotating lasers of GeoMax Zone series are robust (IP67), versatile (900 meters workspace) and offer exceptional value for money.
- The Zone 40H horizontal laser with manual tilt and convincing accuracy.
- The Zone 40H is the best solution for any levelling at construction sites, for inspection of concrete and form work, as well as for manual slopes, ramps and driveways.
- Best application: exterior.



### Application benefits

- Easy and intuitive operation
- Fully automatic
- Ideal for concrete and form work
- Laser class 1



Specifications	Zone40 H
Tolerance	± 0.5mm at 10m
Working range with receiver	Ø 900m
Laser diode	635nm visible (red), class 1
Self-levelling range	± 6°
Manual inclination range	10%
Temperature range	-20°C to +50°C
Power supply	4 alkaline D-cell (D), Lithium Ion (Li-Ion Pack) rechargeable
Operating time	> 40 hours
Dimensions	240 x 215 x 215mm
Weight	3,200g
Protection class	IP67
Tilt warning	Yes



### Scope of delivery

GeoMax Zone 40H laser rotator, Carrying case, Receiver, Li-Ion battery, Li-Ion charger, User manual on CD, Quick start guide, Safety instructions.

- Model no. 27109000
- Model no. 27110000 with receiver ZRP105 (picture)
- Model no. 27111000 with receiver ZRD105

**Sorry, phased out**



**GEOMAX rotating lasers Zone60 HG**

27112000, ...3000, ...4000

**Fully autom. horizontal laser with digital grade functionality**

- The rotating lasers of GeoMax Zone series are robust (IP67), versatile (900 meters workspace) and offer exceptional value for money.
- The Zone 60HG is a horizontal laser with digital grade to 8% and convincing accuracy.
- Through the display settings of inclinations in two axes are very simple.
- Best application: exterior.

**Application benefits**

- Easy and intuitive operation.
- Ideal for concrete and form work.
- Laser class 1.
- Can be grade in 2 axes up to  $\pm 8\%$ .
- Digital display for inclination.

**Specifications****Zone60 HG**

Tolerance	$\pm 0.5\text{mm}$ at 10m
Working range with receiver	$\varnothing 900\text{m}$
Laser diode	635nm visible (red), class 1
Self-levelling range	$\pm 6^\circ$
Temperature range	$-20^\circ\text{C}$ to $+50^\circ\text{C}$
Power supply	4 alkaline D-cell (D), Lithium Ion (Li-Ion Pack) rechargeable
Operating time	> 40 hours
Dimensions	240 x 215 x 215mm
Weight	3,300g
Protection class	IP67
Tilt warning	Yes

**Scope of delivery**

GeoMax Zone 60HG laser rotator, Carrying case, Receiver, Li-Ion battery, Li-Ion charger, User manual on CD, Quick start guide, Safety instructions.

- Model no. 27112000 with receiver ZRB90
- Model no. 27113000 with receiver ZRP105 (picture)
- Model no. 27114000 with receiver ZRD105



## GEOMAX rotating lasers Zone60 DG

27115000, ...6000, ...7000



### Fully autom. 2-axis grade laser horizontally and vertically

- The rotating lasers of GeoMax Zone series are robust (IP67), versatile (900 meters workspace) and offer exceptional value for money.
- Fully automatic 2-axis grade laser (DG = Dual Grade) with digital grade up to 15% for every construction site.
- With the remote control ZRC60 you have full control of up to 300m.
- Through the display settings of inclinations in two axes, horizontal and vertical, are very simple.
- Best application: exterior.
- With the ZRD105B laser receiver the beam can be caught and monitored automatically.



### Application benefits

- Fast auto-levelling.
- Laser class 1.
- Can be grade in 2 axes up to  $\pm 15\%$ .
- Digital display for inclination on the remote control.
- **Beam catching:** automatic laser beam catching (with receiver ZRD105B)
- **Beam lock:** automatic laser beam monitoring (with receiver ZRD105B)



Specifications	Zone60 DG
Tolerance	$\pm 0.5\text{mm}$ at 10m
Working range with receiver	$\varnothing 900\text{m}$
Laser diode	635nm visible (red), class 1
Self-levelling range	$\pm 6^\circ$
Temperature range	$-20^\circ\text{C}$ to $+50^\circ\text{C}$
Power supply	4 alkaline D-cell (D), Lithium Ion (Li-Ion Pack) rechargeable
Grade	Up to 10% in both axis simultaneously, 15% in one axis with up to 3% of the cross axis
Operating time	> 40 hours
Dimensions / Weight	240 x 215 x 215mm / 3,400g
Protection class	IP67
Tilt warning	Yes



### Scope of delivery

GeoMax Zone 60DG laser rotator, Carrying case, Receiver, Li-Ion battery, Li-Ion charger, User manual on CD, Quick start guide, Safety instructions, Remote control ZRC60.

- Model no. 27115000 with receiver ZRB90
- Model no. 27116000 with receiver ZRP105 (picture)
- Model no. 27117000 with receiver ZRD105
- Model no. 27121000 with receiver ZRD105B



**GEOMAX rotating laser Zone80 DG**

27122000

**High-End-Rotation laser**

- The Zone80 DG rotary laser is the first choice when it comes to long distances where high accuracy and reliability is required - not only in construction, but also in agriculture.
- The focus of the Zone80 DG is on long distance applications and machine guidance, as it operates at different rotation speeds up to 20 revolutions per second (RPM).
- With Beam Catching (only with ZRD105B receiver), the Zone80 DG moves to the desired tilt position, displays the tilt found, and begins self-leveling to maintain the tilt. The receiver's Beam Lock feature monitors the laser beam so that an alarm is triggered when movement is detected. Both functions are also available with the rotary laser in vertical position.
- The rotation laser works fully automatically and allows you to perform your leveling tasks simply and accurately. For optimal tillage, the Zone80 DG provides horizontal plane application settings and up to 15 percent tilt in both axes.

**Application benefits**

- Laser class 1
- Rotation speed up to 1200 rpm
- Digital display of the inclination also on the remote control
- Beam Catching and Beam Lock (with ZRD105B)

**Specifications****Zone80 DG**

Tolerance	± 0,5mm to10m
Working area with receiver	Ø 1100m
Laser diode	visible 635 nm (red), class 1
Self-leveling range	± 6°
Temperature range	-20°C to +50°C
Power supply	Lithium-Ion (Li-Ion-Pack rechargeable)
Grade	up to 15% in one axis up to 3% of the transverse axis, 10% for both axes simultaneously
Operating time	> 40 hours
Dimensions / Weight	240 x 215 x 215mm / 3,400g
Protection class	IP67
Tilt warning	yes

**Scope of delivery**

- Zone80 DG, carrying case, Li-Ion battery with charger, manual on CD, quick start guide, safety instructions.
- Optional riflescope item no. G739870
- Optional remote control ZRC60 item no. G835245
- Optional GeoMax Receiver ZRB90, ZRP105, ZRD105, ZRD105B, MR240, MR360



# Products | Pipe lasers



GEOMAX Zeta 125 / 125S  
Pipe lasers red  
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GEOMAX Zeta 125G / 125SG  
Pipe lasers green  
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GEOMAX Pipe lasers  
accessories  
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**GEOMAX Pipe lasers Zeta125 / 125S**

28004000, 28001000,...

**Pipe laser with red laser beam**

- Ideal for the control and implementation of gradients during laying of sewage and drainage systems.
- The Zeta125 fits in tight bends and narrow manholes. Its slim build makes it suitable for pipes with 125mm (5") diameter and the Zeta feet ensure users continue working in most any site situation.
- Wide range of applications: inclination of -10% to +40%, Range >300m.
- With the alignment function, only Zeta 125S, you direct the laser by remote control on the direction of target, even outside the trench.
- Zeta 125S has additional vertical plane of rotation and alignment, optionally with automatic target.

- GeoMax Zeta 125, L. c. 2, red, with universal target, m. n. 28004000
- GeoMax Zeta 125, L. c. 2, red, with standard target m. n. 28005000
- GeoMax Zeta 125, L. c. 3, red, with universal target, m. n. 28000000
- GeoMax Zeta 125, L. c. 3, red, with standard target, m. n. 28002000
- GeoMax Zeta 125S, L. c. 3, red with universal target, m. n. 28001000
- GeoMax Zeta 125S, L. c. 3, red with standard target, m. n. 28003000

**Application benefits**

- Extremely robust construction (IP68) for rough conditions.
- Maximal range.
- Compact size, from 125 (5") pipe used.
- Easy to read, backlit display.

**Specifications****Zeta125 / 125S**

Tolerance	± 5mm to 100m
Range	> 300m
Laser diode	635nm visible (red), class 2 / class 3R
Tilt range	+40% to -10%
Self-levelling range	+45% to -15%
Temperature range	-20°C to +50°C
Power supply	Lithium-Ion (Li-Ion-Pack) rechargeable
Operating time	40 hours
Dimensions	305 x 105 x 113mm
Weight	2,070g
Protection class	IP68
Tripod mount	5/8"

**Scope of delivery**

- Instrument
- Case
- Charger LDG125
- Batteries
- Universal target
- Remote control
- 4 x leg for diameter 150mm
- Manual



## GEOMAX Pipe lasers Zeta125G / 125SG

28006000, 28011000,...



### Pipe laser with green laser beam

- Green laser beams are many times more visible than red laser beams for the human eye.
- Ideal for the control and implementation of gradients during laying of sewage and drainage systems.
- The Zeta 125 fits in tight bends and narrow manholes. Its slim build makes it suitable for pipes with 125mm (5") diameter and the Zeta feet ensure users continue working in most any site situation.
- The screwable feet allow the instrument to be attached to different diameters, ensuring that users can work on site in almost any situation.
- Wide range of applications: inclination of -10% to +40%, Range < 200 m.
- With the alignment function (nur Zeta125SG) you direct the laser by remote control on the direction of target, even outside the trench.
- GeoMax Zeta 125SG has additional vertical plane of rotation and alignment cross axis self-levelling.
- GeoMax Zeta 125G, L.c. 2 green, blue standard target, m. n. 28006000
- GeoMax Zeta 125G, L.c. 2 green, blue universal target, m. n. 28007000
- GeoMax Zeta 125G, L.c. 3 green, blue standard target, m. n. 28008000
- GeoMax Zeta 125G, L.c. 3 green, blue universal target, m. n. 28009000
- GeoMax Zeta 125SG, L.c. 3 green, blue standard target, m. n. 28010000
- GeoMax Zeta 125SG, L.c. 3 green, blue universal target, m. n. 28011000



### Application benefits

- Extremely robust construction (IP68) for rough conditions.
- Maximal range.
- Compact size, from 125 (5") pipe used.
- Easy to read, backlit display.



Specifications	Zeta125G / 125SG
Tolerance	± 5mm to 100m
Range	< 200m
Laser diode	520nm visible (green), class 2 / class 3R (Zeta 125) class 3R (Zeta 125SG)
Tilt range	+ 40% to - 10%
Self-levelling range	+ 45% to - 15%
Temperature range	- 20°C to + 50°C
Power supply	Lithium-Ion (Li-Ion-Pack) rechargeable
Operating time	40 hours
Dimensions	305 x 105 x 113mm
Weight	2,070g
Protection class	IP68
Tripod mount	5/8"



### Scope of delivery

- Instrument
- Case
- Charger LDG125 with 3 x power plug adapter
- Batteries
- Target plate universal blue, standard blue
- Remote control ZRC 125
- 4 x leg for diameter 150mm
- Manual



## GEOMAX Pipe lasers accessories



### Accessories for Zeta pipe lasers

- Model no. G829482 ZRC125 remote control for Zeta series. Range 100m. Model no. G821876 battery cable for connection to a 12V power supply with alligator clips.
- Model no. G821878 standard target plate with bubble tube. Legs for installation in pipe centre at DN 150mm are included. More legs below. Laser and standard target plate require the same leg each.
- Model no. G821877 universal target plate - adjustable target plate with bubble tube for DN 150, 200 and 250mm. The laser must be set to the corresponding leg.
- Model no. G938339 Target plate universal (blue) for green lasers - height-adjustable target plate with tubular vial for DN 150, 200 and 250mm. The laser must stand on suitable feet.
- Model no. G938342 Target plate standard (blue) for green lasers - with tubular vial. Feet for assembly in the pipe centre at DN 150mm are included. For more feet see below. The laser and standard target plate each require the same feet.
- Model no. G815624 clip-in target plate for 125mm pipe diameter.
- Model no. ~~G821881~~ leg ~~do not completely consist of base plate and each 4 leg of 200mm and 150mm.~~ Sorry, phased out. Ask for alternative G948797
- Model no. G821883 leg 150mm - 4 x 150mm leg with rubber cap (for laser and target plate standard are each 4 leg required)
- Model no. G821884 leg 200mm - 4 x 200mm leg with rubber cap (for laser and target plate standard are each 4 leg required)
- Model no. G821885 leg 250mm - 4 x 250mm leg with rubber cap (for laser and target plate standard are each 4 leg required).
- Model no. G821888 charger LDG125.
- Model no. G821886 power pack Li-Ion for Zeta series.



### Application benefits

- The accessories expand the flexibility at work.
- With several feet the Zeta can be adapted to the most varied construction site situations.



### Accessories



# Products | Laser receivers



**GEOMAX ZRB90**

Laser receiver  
page 78



**GEOMAX ZRP105**

Laser receiver  
page 79



**GEOMAX ZRD105**

Laser receiver  
page 80



**GEOMAX ZRD 105B**

Laser receiver  
page 81



**METOR**

Receiver with mm-display  
page 82



**GEOMAX MR240**

Machine receiver  
page 83



**GEOMAX MR 360**

Machine receiver  
page 84



**GEOMAX Laser receiver ZRB90**

27405000



## Laser receiver ZRB90 of GeoMax Zone line

- ZRB90 is a reliable entry receiver, ideal for Zone 20H and like all rotating lasers of the series GeoMax Zone.
- Display with graphics and audio signal.
- Two precision levels selectable.



## Application benefits

- Operating temperature -10°C to +50°C.
- Suitable for all GeoMax Zone rotating laser.
- Acoustic and graphic display.



## Specifications

## ZRB90

Laser receptor	80mm
Digital readout	no
Bandwidths	± 1mm, ± 2mm
Range	Ø 600m
Signal	Display and signal
Protection class	IP66
Working temperature	-10°C to +50°C
Weight	255g
Dimension	155 x 70 x 25mm



## Accessories

Laser rod with slide adaptor, model no. 18702000.



## GEOMAX Laser receiver ZRP105

27401000



### Laser receiver ZRP105 of GeoMax Zone line

- The laser receiver ZRP105 is suitable for all rotating lasers of the series GeoMax Zone.
- ZRP105 professional laser receiver with high performance with professional format.
- Double-sided display with graphics and sound.
- Three precision levels available.



### Application benefits

- Operating temperature -20°C to +50°C.
- Due to the large detection range the laser beam could be found quick and easy.
- Acoustic and graphic display.



### Specifications ZRP105

Laser receptor	105mm
Digital readout	no
Bandwidths	± 1mm, ± 2mm, ± 3mm
Range	Ø 900m
Signal	Display and signal
Protection class	IP67
Working temperature	-20°C to +50°C
Weight	320g
Dimension	175 x 80 x 30mm



### Accessories

Laser rod with slide adaptor, model no. 18702000.



**GEOMAX Laser receiver ZRD105**

27402000

**Laser receiver of GeoMax Zone line**

- The laser receiver ZRD105 is suitable for all rotating lasers of the series GeoMax Zone.
- ZRD105 digital laser receiver. Best digital technology in a rugged housing.
- Double-sided display and numeric display in five levels of precision.
- The digital display shows the laser distance in real numerical values.

**Application benefits**

- Protection class IP67 suitable for the hardest missions.
- Operating temperature -20°C to +50°C.
- Suitable for all GeoMax Zone rotating laser.
- Acoustic and graphic display.
- Suitable for the working range of Ø 900m.

**Specifications ZRD105**

Laser receptor	105mm
Digital readout	90mm
Bandwidths	± 0,5mm, ± 1mm, ± 2mm, ± 3mm, ± 5mm
Range	Ø 900m
Signal	Display and signal
Protection class	IP67
Working temperature	-20°C to +50°C
Weight	320g
Dimension	175 x 80 x 30mm

**Accessories**

Laser rod with slide adaptor, model no. 18702000.



## GEOMAX Laser receiver ZRD105B

27404000



### Laser receiver of GeoMax Zone line

- Combines the advantages of the ZRD105 with additional features, available with the Zone 60DG.
- The numerical display shows the laser distance in real numbers.

#### Additional features:

- **Beam catching** - Find and align the laser plane by one key press for slope or vertical alignment application (auto Grade Matching).
- **Beam lock** - the laser plane is caught and monitored in real-time. (Grade Matching and Monitoring)



### Application benefits

- IP67 shock and water resistant.
- Working temperature - 20°C to + 50°C
- Catch and align the laser plane in combination with Zone 60DG



### Specifications ZRD105B

Laser receptor	105mm
Digital readout	90mm
Bandwidths	± 0,5mm, ± 1mm, ± 2mm, ± 3mm, ± 5mm
Range / Range RF	Ø 900m / Ø 100m for Beam (Catching+Beam Lock)
Signal	Display and signal
Protection class	IP67
Working temperature	- 20°C to + 50°C
Weight	320g
Dimension	175 x 80 x 30mm
Include	Beam Catching and Beam Lock technology



### Accessories

Laser rod with slide adaptor, model no. 18702000.



**METOR laser receiver****16813000****Receiver with mm-display**

- The Metor receiver measures and displays the distance between the laser beam and the marking notch digitally.
- Thus, level differences can easily be measured.
- High precision: Being switched on, the Metor performs a self-calibration procedure automatically.
- Internal storage of 100 readings.
- Laser receptor 125mm, 100mm numeric.
- Display on front and backside.
- Reliable, solid and absolutely waterproof.
- Working with all common rotating lasers (wavelength 610-790nm).
- 70h continuous use with 2 x AA batteries
- Delivery including holding clamp

**Application benefits**

For high-precision levelling with rotating lasers.

- Programmable communication (e.g. with corresponding GEOMAX lasers).
- No shifting at the laser staff within the digital display area necessary - fast and efficient work.

**Specifications****METOR**

Laser receptor	125mm / 100mm numeric
Accuracy	5 levels: 0,5mm to 10mm
Range	Ø 300m
Signal	Display and acoustic signal
Display	Front and backside
Power supply	2 x AA
Protection class	IP67
Dimensions	170 x 75 x 37mm
Weight	380g including batteries

**Accessories**

For laser levelling we offer laser rods:

- Laser rod with slide adaptor, 18702000.



## GEOMAX MR240

27600000



### Machine receiver

- Ideal for use with backhoes and mini-excavators, the GeoMax MR240 offers the convenience of a machine-mounted display at an economical price.
- It features LED indicators to show the position of cutting edge in relation to laser reference beam.
- Three indicators in coarse mode, up to five in fine mode. Equipped with magnet mount with extra strong rare earth magnets.



### Application benefits

- Accurate grade information for all visual machine control applications.
- Extra strong rare earth magnets.
- Rugged design, waterproof.



### Specifications

#### GeoMax MR240

Range	200m
Accuracy fine	6mm
Accuracy coarse	30mm
Reception angle	240°
Reception height	14cm
Power	3 x AA
Battery power	130 hours with 3 x AA
Protection class	IP67
Weight	2,200g
Dimensions	220 x 120 x 100mm



### Scope of delivery

MR240, case, alkaline batteries.

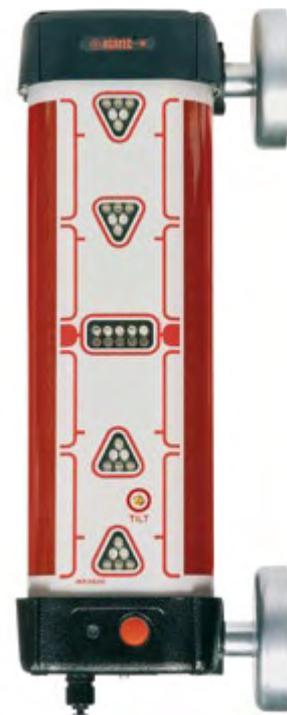


**GEOMAX MR360**

27602000, 27604000, ...

**Machine receiver**

- The GeoMax MR360 offers accurate grade information for all visual machine control applications.
- Large 360° detection windows pick up any rotating laser, from any angle.
- Built-in vertical indicator monitors angle of the stick, signaling if it's plumb or under- or over-extended.
- Magnet mount allows quick setup and easy movement from machine to machine.
- The optional display unit MD360 enables wireless transmission of the display in the machine cabin.

**Application benefits**

- 360° detection windows for total coverage.
- Remote display in the cab in order to ensure the best possible control of the workflow (optional).
- No cable required.
- Particularly strong magnets.

**Specifications****MR360**

Range	200m
Accuracy fine	6mm
Accuracy coarse	12mm
Reception angle	360°
Reception height	25cm
Vertical indicator	± 5°
Power	NiMh rechargeable
Battery power	30 hours
Protection class	IP67
Weight	1,800g
Dimensions	375 x 75 x 107mm

**Scope of delivery**

- MR360**, model no. 27602000: case, rechargeable batteries, charger.
- MR360RE**, model no. 27604000: case, rechargeable batteries, charger and remote display MD360.
- MR360**, model no. 27605000: clamp attachment, case, rechargeable Batteries and charger.
- MR360RE**, model no. 27608000: MR360 with clamp fastening, remote display MD360, case, rechargeable batteries and charger.
- MD360**, model no. 27601000: Remote display.



# Products | Laser accessories



NESTLE - inclination support  
page 86



NESTLE Receiver adapter for batter boards - For precise alignment  
page 87



NESTLE - pavement support  
For rotation lasers  
page 87



NESTLE universal carrier  
page 88



NESTLE facade and column console  
page 89



**NESTLE - inclination support****13905000****Inclination support for lasers with manual mode**

- For all rotating lasers with manual mode the NESTLE- inclination support offers a convenient alternative to expensive slope lasers.
- There are only two preconditions for using the support: First, the tripod and the laser have to be equipped with a 5/8" - connection, which is standard for survey tripods and rotating lasers.
- Second, the laser has to feature manual mode.
- Handling is easy: Fix the laser with the inclination support on the tripod, then turn the laser into manual mode.
- The support has a circular bubble level for perpendicular positioning the device.
- The degree of inclination can be easily adjusted by turning the crank.
- The graduation displays degrees and percent scale.
- Although easy to use, the NESTLE- inclination support is rugged and designed for daily use on the jobsite. The solid metal construction withstands all environmental influences, the graduation is abrasion-proof.

**Application benefits**

For manual inclination of rotating lasers, e.g. for roof slopes or road construction.

**Specifications****NESTLE - Inclination support**

Graduation	in ° and %
Weight	2,000g
Dimensions	190 x 140 x 110mm
Thread	5/8"

**Accessories**

We offer rotating lasers with switchable automatic:

- NESTLE Pulsar 2S, model no. 16003001.
- GeoMax Zone 20HV, model no. 27108000.



**Laser system accessories**

**13936000, 13915000**



**Accessories for working with rotating lasers**

**NESTLE L-angle 90°, batter board adapter for receivers PDR60 or PDRG60**

- On modern construction sites, axes can be aligned quickly and precisely with a rotating laser, replacing the scaffolding line.
- The L-bend 90° is simply mounted between the PDR60 receiver and the bracket, allowing the PDR60 receiver to be mounted vertically on the batter board directly above the axle mark.
- For mounting the rotary laser on a batter board, we also recommend the optional batter board support 13907000. Using the batter board support, attach the rotating laser to the other board and align it over the axle mark to the receiver.
- Use the batter board support 13907000 and the L-bend 90° for receiver PDR60 13936000 as a set for alignment work on the batter board.

**NESTLE Pavement support bracket:**

- The Pavement support bracket is used for applications close to the floor, also clearly below the meter mark. It is therefore suitable for e.g. floorer, composition floor layers, electricians (for cable ducts and sockets to set) as well as for installing radiators and pipes. The support bracket is simply attached to the crank tube or to the extension attached under the NESTLE tripod.
- For lasers with 5/8" thread.

**Application benefits**

- The brackets are ideal for working on batter boards.
- The pavement support bracket is particularly suitable for working below the meter mark.
- Increase your flexibility and work comfort.

**Specifications Laser system accessories**

<b>Batter board adapter</b>	<b>Model no. 13936000</b>
Weight	100g

<b>NESTLE Pavement support bracket</b>	<b>Model no. 13915000</b>
Weight	600g

**Accessories**

- Wall brackets in various designs can be found on the pages 60 and 88.
- Model no. 13907000, plank holder for all instruments with one 5/8" connection.



13936000



13907000

13915000



## NESTLE Universal Carrier NUT-9G



### Tripod adaptor + Wall mount

- The NESTLE Universal carrier NUT-9G is used to mount rotary lasers on walls, angle rails, tripods or batter boards.
- With the help of the adjusting screw an instrument can be moved exactly and simply on the universal carrier.
- The maximum stroke adjustment is 18 cm, each horizontal or vertical.
- A measuring scale in cm and inch supports the exact alignment of the instrument on the slide.
- With the included L-bend 90°, GeoMax laser receivers (ZRP105, ZRD105x) can be mounted on batter boards for vertical operation.



### Application benefits

- Multiple use on walls, columns, planks, drywall rails and tripods
- Vertical and horizontal use



### Specifications

#### NUT-9G

Stroke adjustment	18cm
Load capacity	Rotary laser with housing radius < 10cm
Dimension	42 x 18 x 23cm
Weight	1,400g
Tripod connection	5/8"
Instrument connection	5/8"



### Scope of delivery

- NESTLE Universal Carrier NUT-9G
- L-Bend 90° for ZRP105, ZRD105x
- Quick start Guide with QR-Code



## NESTLE tripod accessories

13938000, 13939000



### NESTLE facade and column console

- The NESTLE facade and column console is suitable for alignment work with rotary lasers in facade construction and as an instrument support on columns.
- **Facade construction:** attach both brackets to the wall, rotary laser and receiver on the respective console, secure the desired wall clearance with the moving sled on the consoles and the system is ready for vertical alignment work.
- **As instrument console** (13939000 only): fix the console on walls with screws, or with a strap on round or square columns and attach a measuring instrument (e.g., total station) without a tripod.



### Application benefits

- Attachment with strap or screws on square / round columns or walls
- Facade building adapter
- Column console for measuring instruments (13939000)
- 40cm sledge path
- Sturdy aluminium profile



### Specifications

Receiver carrier on columns or walls	Model no. 13938000
Wall mounting	with screws
Column mounting	with strap
Length / Max. sled way	50cm / 40cm
Weight	4,200g

Instrument carrier on columns or walls	Model no. 13939000
Wall mounting	with screws
Column mounting	with strap
Length / Max. sled way	50cm / 40cm
Weight	4,400g



### Scope of delivery

NESTLE facade and column console, model no. 1393800 and model no. 13939000 are supplied **with** a strap, **without** fastening screws.

# Products | Laser rods



NESTLE laser rods

page 91



**NESTLE laser rods**

**18700000, 18701000, 18702000**



**Rod for laser applications**

- The laser rod is comfortable and easy to handle.
- Convenient aluminium profile.
- Anodized aluminium profile, protected against environmental influences.
- Bicolor front makes the definition of a certain level very easy. The upper part is divided from 50cm down to 0cm and has a red back ground. The lower part has a silver background and is divided from 0cm up to 50cm. Thus, deviations can easily be levelled.
- Quick locking screw adjustment on the correct level.
- The laser rod is ideal for levelling: Simply extend the rod with the receiver fixed to the zero-position. A second graduation on the bottom segment displays the zero-level height in relation to the ground you are working on.
- Delivery includes bag and bubble level.
- Three versions available: Rod without adaptor, rod with slide adaptor (lever clamping), rod with slide adaptor (screw clamping).



**Application benefits**

- Ideal for laser applications.
- Low weight for fatigue-free working.



**Specifications**

**Laser rod**

<b>Laser rod without adaptor</b>	Model no. 18700000
Length	130 - 240cm
Weight	1,000g
<hr/>	
<b>Laser rod / slide adaptor (screw)</b>	Model no. 18701000
Length	130 - 240cm
Weight	1,300g
<hr/>	
<b>Laser rod / slide adaptor (lever)</b>	Model no. 18702000
Length	130 - 240cm
Weight	1,300g



**Accessories**

- For working with the laser rod we offer a floor support:
- Floor support, 18915000.



# Products | **GEOMAX Cable & pipe locators**



Cable locator  
Ultra Advanced  
page 93



Cable & pipe locators  
Ezisystem  
page 94



Accessories pipe locators  
page 95



Utility detection  
DSX  
page 96



## Locating System Ultra Advanced

27515000



### Locate and track with high level of security

The Ultra Advanced system is a premium class location system. Thanks to its special AIM system, it is particularly suitable in areas with a high density of cables and pipes in order to be able to follow the course of individual supply lines precisely.

In the event of obstacles, the system can also determine lines indirectly through offset measurements. The system shows the direction to a tracked supply line via an integrated compass.

- Configuration for site-specific applications
- Choice of 100 frequencies
- Choice of the optimal antenna for your location
- Detection of the signal direction
- Offset measurement

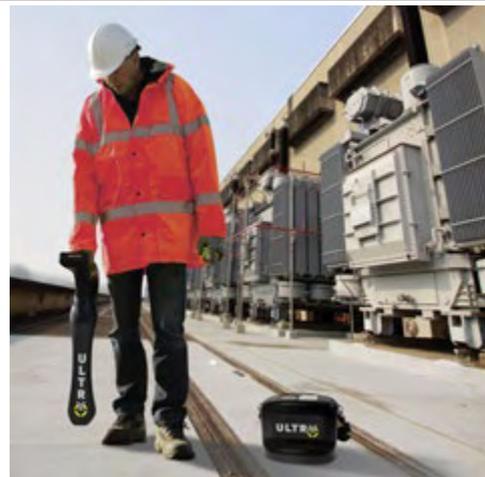
### Advantages in use:

- Display of the direction of the tracked utility line using Compass.
- Direction detection - detection of the target supply line at several parallel supply lines.
- Measurement of ambient signal interference (AIM).
- Remote controlled generator.

Specification	Ultra Advanced
Dimensions locator / weight	691 x 325 x 122mm / 2.2kg
Frequency range locator	50Hz to 200kHz
max. depth	6m
Depth accuracy	5%
Operating temperature	-20° to +50° C
Battery locator	2 mono cells
Battery life Locator	up to 70h
Dimensions transmitter / weight	254 x 305 x 91mm / 3.4kg
Protection class locator / transmitter	IP65
Battery transmitter	10 mono cells
Battery life transmitter	100h
Frequencies	up to 22 custom frequencies from 256 Hz-10 kHz

### Scope of delivery

Locator Ultra, Transmitter Ultra 12 W, signal clamp 125mm, bag, batteries.



## GEOMAX Cable & pipe locators

27500000 ...



### Cable avoidance and tracing system EZi systems

- The determination of the precise location of underground lines to protect employees and equipment during an excavation project has never been more important.
- The EZiCAT devices identify the location of underground lines by the receiving electromagnetic signals radiated from them.
- The intelligent EZiCAT software interprets these signals and provides the user both audible and visual information to the position and orientation of the hidden lines.
- **EZiCAT i500, model no. 27500000**, rugged instrument for easy and fast line location.
- **EZiCAT i550, model no. 27501000**, locator with additional depth display function\*.
- **EZiCAT i750xf, model no. 27518000**, locator with depth display function\*, data logging, Bluetooth and GPS.

\* For depth displaying a signal transmitter t100 or t300 is necessary.



### Application benefits

- Increasing the safety during earthworks.
- In combination with signal transmitter safe location over long distances.
- Very simple operation.



Specifications		i500	i550	i750xf
Depth	0.3 to 3m	•	•	•
Depth display	With transmitter		•	•
Depth estimation	With transmitter		•	•
GPS	± 2.5m			•
Locating	Active power lines	•	•	•
Modi	Power, Radio, 8 / 33kHz	•	•	•
Further modi	512 / 640kHz			•
Power	6 x AA	•	•	•
Capacity	40 hours	•	•	•
Protection class	IP54	•	•	•
Weight	2,700g	•	•	•
Dimension	760 x 85 x 250mm	•	•	•



### Scope of delivery

- Instrument include batteries.

Extend the flexibility of working with the accessories for EZi system, see next page!



**GEOMAX Cable & pipe locators accessories**



Accessories for EZi system

**Signal generator EZiTEX**

Necessary for depth measurements with i550 and i750xf, as well as to apply conductive signal to conductive media.

**t100, model no. 27503000**, a robust signal generator for the use before excavation work, for i550.

**t100xf, model no. 27526000**, ideal if you frequently locate lines in areas of high signal overlay or large excavation areas, for i750xf.



**Signal clamp for EZiTEX 8/33 kHz, model no. 27512000**

The signal terminal is a lightweight, rugged, 100 mm clamp that is used to apply a locatable signal to underground conductive supply lines and used in conjunction with an EZiTEX signal generator.



**EZiROD bending rod on drum**

The EZiROD is a flexible rod that works in conjunction with the EZiTEX for location of non-metallic drainage pipes, channels or pipes allows. The EZiROD is passed through the supply line to be examined pushed.

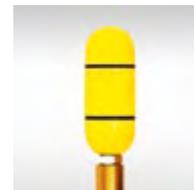
**EZiROD 80m, model no. 27504000**

**EZiROD 50m, model no. 27505000**



**Sonde compact, model no. 27511000**

The compact dual-frequency sonde can be used to locate drainage pipes and sewers and other non-conductive supply lines. It works like a signal generator and can be attached to various devices, e.g. pipe cleaning rods, drills and security cameras.



**Property connection set, model no. 27513000**

The property connection set is used to apply a locatable signal to cables and is used in conjunction with an EZiTEX signal generator.



**Robust bag for your EZi system, model no. 27514000**



## Leica DSX utility detection

25010000, 25011000



### DSX – Locating supply lines in underground

- Knowledge of the exact location of supply. Underground lines are during earthworks essential.
- With the DSX ground penetrating radar you cover supply lines clearly and effortlessly, because the DSX System is optimized for the detection of lines.
- The intuitive software DXplore takes over for you the interpretation of the data.
- The system optionally accepts position data of GeoMax GNSS antennas.
- Decrease line damage, increase the safety for your personnel during earthworks, reduce search shafts.

### Application benefits

- Reduces line damage.
- Any pipe material.
- Increases the safety of your staff during earthworks.
- Reduces search shafts.
- Assists in interpretation of the measurement data.
- Environmentally friendly, no CO<sub>2</sub> pollution, no noise.

### Specifications

Detection depth	up to 2m
Acquisition speed	up to 7km/h
Scan interval	0.50m
Protection class	IP 65
Weight (without Akku)	23kg
Operating time	up to 8 hours
Operating temperature	-10°C to +40°C
Display	11,6"
Operating system	Windows 10 Pro
Location from wheel encoders	yes
Google Maps and current location support	yes
Local coordinate system support	only 25011000 (Surveyor-Kit)
Geoid corrections	only 25011000 (Surveyor-Kit)
GNSS antenna and TPS support	only 25011000 (Surveyor-Kit)
Accuracy check	only 25011000 (Surveyor-Kit)

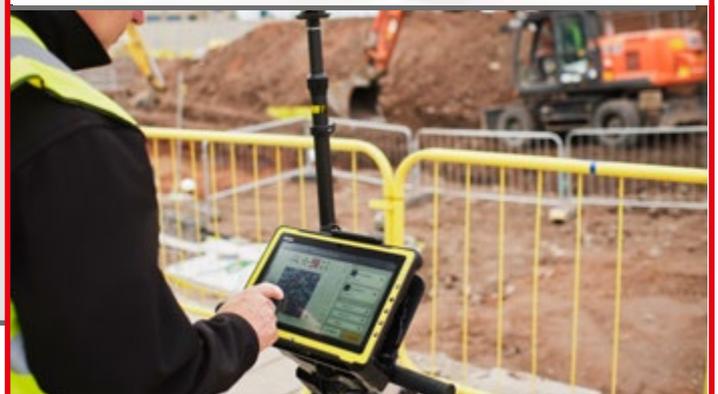
### Scope of delivery

#### Leica DSX Starter-Kit, model no. 25010000:

DSX Hardware, CT1000 Controller model no. 25012000, DXplore Build with permanent license.

#### Leica DSX Surveyor-Kit, model no. 25011000:

DSX Hardware, CT1000 Controller, model no. 25012000, DXplore Build and Surveyor with permanent license, PS1000 Pole-Kit model no. 25013000.



# Products | Distancemeters



# Products | Distancemeters



Leica DISTO™ D1  
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Leica DISTO™ D110  
page 100



Leica DISTO™ D2  
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Leica DISTO™ X3, X4  
page 102



Leica DISTO™ D510  
page 103



Leica DISTO™ D810 Touch  
page 104



Leica DISTO™ S910  
page 105

# Leica DISTO™ D1

16721000



## Small size, plenty opportunity

- Measure the distance in seconds without the help of another person by simply pressing a button. Avoid the risk of work accidents during difficult and dangerous measurements, e.g. when heights are measured.
- Thanks to the precise laser technology, the starter model Leica DISTO™ D1 delivers reliable measurement results. The operation of the device is very simple and intuitive.
- The Leica DISTO™ D1 can be quickly and easily connected to the Leica DISTO™ free App Sketch for transferring and documenting measurements.



## Application benefits

- Fast and reliable
- Unit m, ft, inch
- Integrated Bluetooth® Smart for free App (iOS and Android)
- Precision at the push of a button
- Individual measurement and duration measurement



Specifications	Leica DISTO™ D1
Laser class	2
Range	0.2 - 40m
Accuracy	± 2mm
Protection class	IP54
Dimension	115 x 43.5 x 23.5mm
Weight	87g
Battery	2 x AAA
Data interface	Bluetooth® smart
Free App for	iOS / Android



## Scope of delivery

- Leica DISTO™ D1 laser distancemeter
- User Manual
- 2 x AAA batteries



**Leica DISTO™ D110****16715000****Small size, plenty opportunity**

- The D110 is the smallest member of the Leica Disto™ Series with integrated Bluetooth® Smart technology.
- Ergonomic design it fits perfectly in the hand.
- With its four buttons it is fast and intuitive to use and allows distance and area measurements in seconds.

**Application benefits**

- Practical form and unmatched ease of use
- Extended functionality through integrated Bluetooth® Smart and the app Leica DISTO™ sketch
- Ideal for rapid distance and area measurements
- Removable pocket clip for convenient carry the device
- Technology, quality and precision of Leica Geosystems

**Specifications****Leica DISTO™ D110**

Laser class	2
Range	0.2 - 60m
Accuracy	± 1.5mm
Protection class	IP54
Dimension	120 x 37 x 23mm
Weight	92g
Battery	2 x AAA 1.5V
Measure	m, ft, in
Data interface	Bluetooth® smart

**Scope of delivery**

- Leica DISTO™ D110
- Belt bag
- Pocket clip
- 2 x AAA batteries
- Manual / safety instructions on CD
- Calibration Certificate Silver
- Quick Start Guide
- Protect Card



# Leica Disto™ D2

16720000



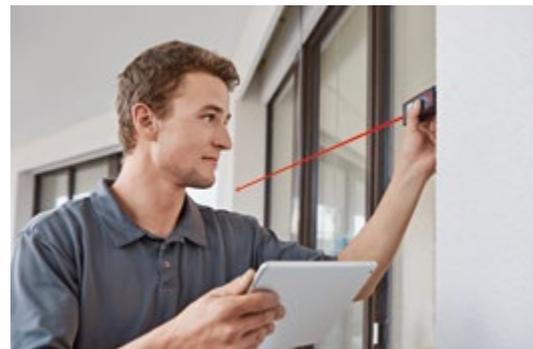
## Laser distancemeter

- The compact and handy Leica DISTO™ D2 has many interesting functions and is still simple to use.
- Thanks to its ergonomic and compact design with soft grip, the Leica DISTO™ D2 sits securely in your hand, is lightweight and fits in any pocket.
- The innovative X-Range Power Technology makes it possible to measure distances up to 100m. This technology ensures optimum measure performance, what means fast and reliable measurements.
- Whether measuring out of corners, slots or from edges, with the multi-functional end-piece you are prepared for all measuring situations. The instrument detects the end-piece automatically, which helps to avoid expensive measuring errors.
- Functions: Mini/Max measurement, addition/subtraction, area/volume
- Memory for 10 results.
- Illuminated display.
- With integrated Bluetooth® Smart you can send your measure results directly to smart phones or tablets - so expensive faults from writing can be avoided.
- DISTO™ D2 is certified by ISO 16331-1.



## Application benefits

- Precise in its applications - faster than measurements with a measuring tape.
- Handy, small, simple to use - versatile in daily use.
- Free app Leica DISTO™ sketch supports the creation of drawings and pictures and to dimension them precisely



## Specifications

### Leica DISTO™ D2

Laser class	2
Range	0.05 – 100m
Accuracy	± 1.5mm
Protection class	IP54
Dimensions	116 x 40 x 26mm
Weight	100g
Battery	2 x AAA



## Scope of delivery

- Leica DISTO™ D2 laser distancemeter
- Holster
- Hand loop
- Batteries



## Leica DISTO™ X3 and X4

25005000, 25006000



### Laser distancemeter for tough and rugged conditions

- The rugged Leica DISTO™ X-series combines innovative measuring technologies with a site-proof design and simple user interface.
- Together with the Leica DST 360, the X-series can be turned into a powerful 3D capturing station.
- The DISTO™ X4 is equipped with a pointfinder camera (DISTO™ X4 only), allowing you to easily target distant objects in bright sunlight. Even if the laser dot cannot be seen, the target clearly appears on the large colour display.
- With the optional DST 360 package you can precisely aim points and measure distances between any 2 points.
- The Leica DISTO™ X3 and X4 can be quickly and easily connected to an App for transferring and documenting measurements.



### Application benefits

- Field-compatible and robust with protection class IP65
- Integrated Bluetooth® Smart for App (iOS and Android)
- With pointfinder camera (DISTO™ X4 only)
- P2P measurement and precise targeting (25007000 necessary)



### Specifications

#### Leica DISTO™ X3 and X4

Pointfinder camera	Only X4
Laser class	2
Range	0.05m - 150m
Accuracy	+/- 1 mm
Protection class	IP 65
Neigungssensor	360° ± 0.2°
Dimensions	132 x 56 x 29mm
Weight	184 g
Battery	2 x AA
Data interface	Bluetooth® Smart
App for	iOS / Android



### Scope of delivery

- 25005000 Leica DISTO™ X3, holster, hand loop, 2 x AA, QR code link to online manual.
- 25006000 Leica DISTO™ X4, holster, hand loop, 2 x AA, QR code link to online manual.

**For optimal functionality, we recommend the optional Leica DST360 set. Prerequisite for P2P measurements.**

- 25007000 Leica DST 360 adapter, tripod TRI120, rugged hard case IP67.



25007000

## Leica DISTO™ D510

16714000

### Laser distancemeter

- The Leica DISTO™ D510 is the all-rounder under the distance meters.
- Unique combination of digital point finder with 4x zoom and 360° tilt sensor allows measurements which are not possible with conventional distance meters.
- Take measurements with perfect accuracy and in unfavorable light conditions - even if the red laser point is no longer visible, the target can be seen exactly on the colour display.
- Multifunctional end-piece.
- Use the DISTO™ D510 in every weather conditions. He is sealed against water and dust (IP65).
- Operating range up to 200m and an accuracy of ±1mm.
- Measuring units in m, ft, in and yd.
- Tilt sensor units in 0,0°, 0,00%, mm/m and in/ft.
- The Leica DISTO™ D510 is the indispensable attender on every construction area.



### Application benefits

- You could clean the D510 under running water.
- Free app – Leica DISTO™ sketch supports the creation of ground plans or tables on iPhone or iPad.
- Measurement data can be transferred using the Bluetooth Smart Technology.
- Create your own list of favourites.



### Specifications

#### Leica DISTO™ D510

Laser class	2
Range	0.05 - 200m
Accuracy	± 1.0mm
Protection class	IP65
Tilt sensor	360°
Dimensions	143 x 58 x 29mm
Weight	190g
Battery	2 x AA
Data interface	Bluetooth® Smart
Free app	Leica DISTO™ sketch



### Scope of delivery

- Distancemeter Leica DISTO™ D510
- Holder
- Hand loop
- 2 x AA batteries



**Leica DISTO™ D810 touch**

2500000

**Laser distancemeter with touchscreen**

- The Leica DISTO™ D810 touch is the world's first laser distancemeter with touch screen for quick and intuitive operation.
- Measure in photo: With only one measurement of the Leica DISTO™ D810 touch can determine the height, width, area and the diameter of an object.
- Distance measurement, inclined objects, area, volume and trapezoidal measurement, addition, subtraction, and Pythagoras to name only a few features.
- Can be easily measured with the height tracking function even trees or buildings that do not provide appropriate reflection point.
- With the camera function photos for documentation and more detailed explanation can be created and loaded via the USB port on a computer.
- Using the Leica DISTO™ Sketch App (Version 2.0) can be transmitted measurement data in each iOS or Windows 8 program.

**Application benefits**

- Touch screen
- Overview camera
- Measure with a Picture
- Precise 360° tilt sensor
- Height tracking, Profile measurement
- Smart Horizontal Mode™
- Bluetooth® Smart
- Free App - Leica DISTO™ sketch (Version 2.0)
- Diameter calculation
- Measuring unit: m, ft, in
- Colour Display with Point finder: 4 x zoom

**Specifications**

Specifications	Leica DISTO™ D810 touch
Laser class	2
Range	0.05 - 200m
Accuracy	± 1mm
Protection class	IP54
Tilt sensor	360°
Dimensions	164 x 61 x 31mm
Weight	238g
Battery	Li-Ion battery
Data interface	Bluetooth® Smart
Memory	30 Displays

**Scope of delivery**

- Leica DISTO™ D810 touch
- Holster
- Hand loop
- Charger with cable and 4 adapters

**Optional accessories:**

- FTA360 adapter with fine adjustment, model no. 22015000 (see page 108)



# Leica DISTO™ S910

25002000



## Measuring anything from anywhere

- The Leica DISTO™ S910 is worldwide the first laser distancemeter with the revolutionary P2P Technology.
- The integrated Smart Base enables measurements between any two points from one location.
- As world's first the Leica DISTO™ S910 can save all the measured points into a DXF file, as a floor plan, wall layout or even as 3D data, which can be downloaded later in the office to a PC via the USB interface.
- To provide you with complete and reliable documentation, the S910 also stores all the pictures showing where you measured to.
- Measurement data can also be transferred directly on site over the WLAN interface to a portable computer to be further processed in your preferred software.
- Establishing the connection is extremely easy - similar to a hotspot.
- The free Leica DISTO™ transfer with Plugin software also supports the transfer of your results into many CAD applications.
- All this points shortens the work flow and save valuable time.
- Optional available as set with tripod and adapter FTA360-S.



## Application benefits

- Integrated Smart Base for P2P Technology
- Point finder with 4x zoom for easy targeting
- X-Range Power Technology for highest measurement performance (range up to 300m)
- 360° tilt sensor
- DXF data capture
- Real-time data transfer with WLAN
- Bluetooth® Smart
- Free App - Leica DISTO™ sketch - iOS, Android



## Specifications

### Leica DISTO™ S910

Laser class	2
Range	0.05 - 300m
Accuracy	± 1.0mm
Protection class	IP54
Tilt sensor	360°
Dimensions	164 x 61 x 32mm
Weight	290g
Batteries / Charging time	Li-on rechargeable / 4h
Data interface	Bluetooth® Smart, WLAN, USB
Measuring units	m, ft, in



## Scope of delivery

- Leica DISTO™ S910, holster, hand loop, charger with cable and 4 adapters and smart base extensions
- **For powerful performance we recommend the optional available set with tripod and adapter FTA360-S.**
- DISTO S910 P2P set, model no. 25009000: DISTO™ S910, FTA360-S, target plate GZM3, tripod TRI120, together in a case.



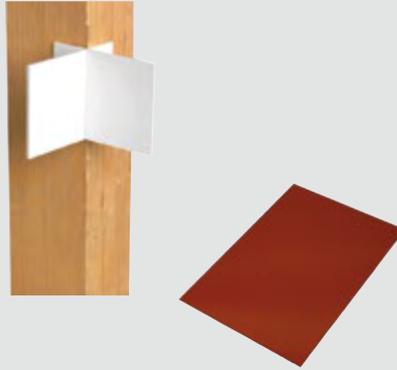
25009000

# Products | **DISTO™** - accessories



DISTO™-accessories

page 107



Target plate

page 107



Laser glasses

page 107



Adaptor

page 108



**DISTO™- accessories**

13910000 ...



Accessories for distancemeters

- Pythagoras-adaptor:** Vertically rotatable adaptor for the models Leica DISTO™ X310, D410, D510 and D810 (Model No. 13910000). The adaptor makes all measurements more accurate, especially for indirect measurements. The Pythagoras-adaptor fits with any common levelling or photographer's tripod.
- Target plates:** In spite of Power Range Technology the DISTO's range is limited by environmental and illumination conditions. For these reasons, target plates are used to improve laser reflection. The pluggable target plate is especially suitable for measurements along external walls. The connector system and the BluTack-glue allow for easy attaching the plate to a building's wall.
- Laser glasses:** For better laser point visibility on large distances.

Sorry, phased out.

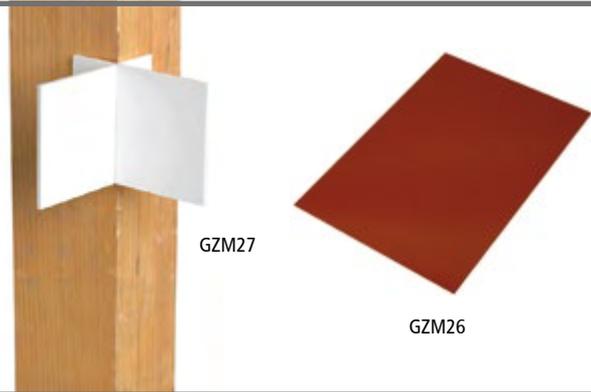
Sorry, phased out.

13910000



Application benefits

More flexibility and accuracy when measuring with Leica DISTO™ distancemeters.



Specifications DISTO™- accessories

Specifications		DISTO™- accessories
<b>Pythagoras-adaptor</b>		
Connection	1/4" / 5/8"	
Model no. / Weight Leica	13910000 / 350g	
<b>Target plate GZM3</b>		
	Model no. 22022000	
<b>Target plate GZM26 / A4</b>		
	Model no. 22005000	
<b>Pluggable target plate GZM27</b>		
	Model no. 22004000, incl. glue	
<b>Pluggable target plate GZM30</b>		
	Model no. 22002000	
<b>Laser glasses GLB30</b>		
	Model no. 22000000	
<b>Laser glasses</b>		
	Model no. 21101000	



Accessories

- The GLB30-laser-glasses impresses with its design and changeable glasses. Delivery includes laser-, sun- and protection-glass.
- Standard laser-glasses helps to find the laser point or line.



Laser glasses

**DISTO™- accessories**

22007000 ....

**Accessories for distancemeters**

- **Adaptor LSA360-S** for the Leica DISTO™ D410, D510, D810 touch and S910. With this adaptor you can fix your DISTO™ on a prism pole or GPS-pole.
- **Tripod-adaptor TA360** for the DISTO™ D3aBT, D5, D8, D410 and D510. You can fix your Leica DISTO™ on top of a tripod with a connection of 1/4".
- **Tripod-adaptor FTA 360** for the DISTO™ D510 and DISTO™ D810 touch. For DISTO™ S910 you need **FTA 360-S**. Solid adaptor with fine adjustment. You can fix your Leica DISTO™ on top of a tripod with a connection of 1/4".
- **Tripod adaptor DST360** for DISTO™ X3 / X4. To the functional extension for P2P measurements.
- **Charger UC20** including 2xAAA batteries and a plug. It is useful at work for the DISTO™ models D2, D210, X310 and D3aBT.
- **Supporting loop** is helpful for all types of DISTOS™.
- **Tripod Leica TRI200** 1/4" thread connection, incl. carrying bag model no. 22023000.

**Application benefits**

- For more flexibility with the Leica DISTO™ instruments at work.
- You improve the accuracy by doing measurements with the pole- and tripod adaptors.

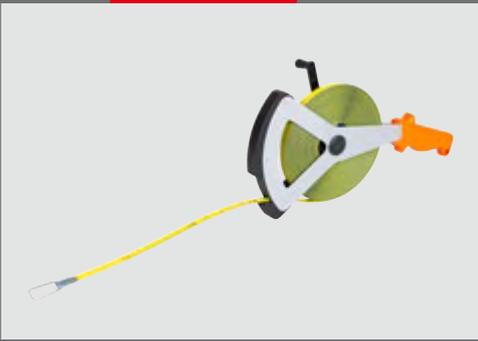
Specifications	DISTO™- accessories
<b>Adaptor LSA360-S</b>	Model no. 22026000
Weight	600g
<b>Tripod-adaptor TA360</b>	Model no. 22007000
Connection	1/4"
Weight	500g
<b>Tripod-adaptor FTA360 / S</b>	Model no. 22015000 / 22019000
Connection	1/4"
Weight	580g
<b>Tripod-adaptor DST360</b>	Model no. 25014000
Connection	1/4"
Weight	1.300g
<b>Charger UC20</b>	Model no. 22008000
<b>Supporting loop</b>	Model no. 22009000
<b>Tripod Leica TRI200</b>	Model no. 22023000
Connection / Weight	1/4" / 1,800g
Transport length	77cm

**Accessories**

You will find accessories for all types of DISTOS™ by Gottlieb NESTLE GmbH.



# Products | **Measuring tapes**



Measuring tape glass fibre

page 110



Steel measuring tape

page 111



**Measuring tape****18100000, ...1000, ... 2000, ... 3000, ... 4000****Measuring tape glass fibre**

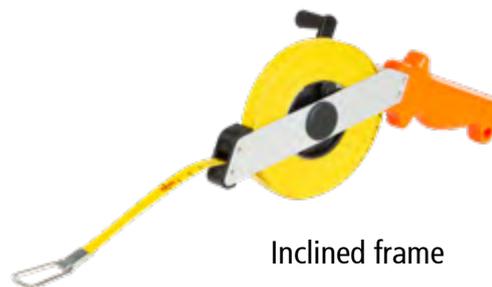
- Measuring tapes are indispensable accessories for your equipment.
- Measuring tape made of glass fibre - 13mm wide.
- The accuracy is increased by parallel plastic-embedded glass fibre threads.
- Corresponding with EU design approval D85/1.3.54
- The glass fibre tapes are available with various frames: V-frame (30 + 50m), inclined frame (20m) and casing (10 + 20 + 50m).
- Single-side printing with cm-graduation



V-Frame

**Application benefits**

- Reliable and tough - Made in Germany!
- Easy handling in application.



Inclined frame

**Specifications****Measuring Tape**

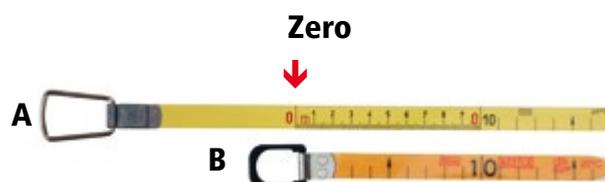
V-Frame, 30m	Start A: 18100000 / Start B: 18110000
V-Frame, 50m	Start A: 18101000 / Start B: 18111000
Inclined frame, 20m	Start A: 18102000 / Start B: 18112000
Casing, 10m	Start A: 18103000 / Start B: 18113000
Casing, 20m	Start A: 18104000 / Start B: 18114000
Casing, 50m	Start A: 18121000 /



Casing

**Tape starts**

Our tapes are available with different starts. Simply choose and indicate the required tape start with your order.



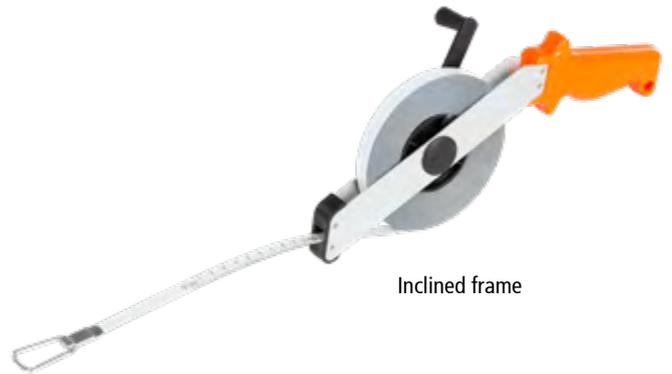
**Steel measuring tape**

18105000, ... 6000, ... 7000, ... 8000, ... 9000



**White painted steel tapes or Polysan**

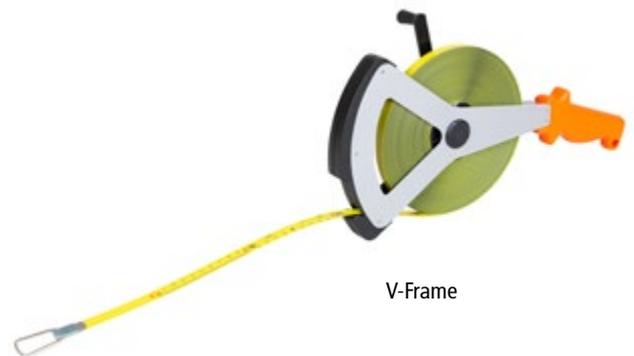
- Measuring tapes are indispensable accessories for your equipment.
- Steel tapes are characterized by their high resistance.
- Made of hardened and polished steel, 13mm wide
- Corresponding with EU design approval D81/1.3.41.
- Abrasion-resistant graduations in black and red.
- Available in white painted steel tape or with nylon coating „Polysan“ (yellow).
- With V-frame or inclined frame.
- Single-side printing, cm-graduation (mm-graduation on the first 10 centimetres).



Inclined frame

**Application benefits**

- Reliable and tough - Made in Germany!
- Easy handling in application.



V-Frame

**Specifications**

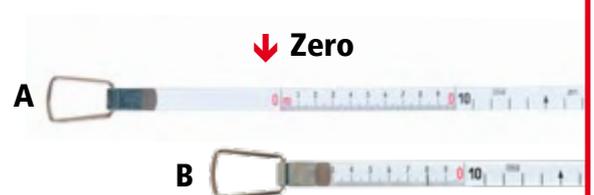
**Steel measuring tape**

White painted, V-Frame, 100m	Start A: 18105000 / Start B: 18115000
White painted, inclined frame, 30m	Start A: 18106000 / Start B: 18116000
White painted, inclined frame, 50m	Start A: 18107000 / Start B: 18117000
Polysan, V-Frame, 30m	Start A: 18108000 / Start B: 18118000
Polysan, V-Frame, 50m	Start A: 18109000 / Start B: 18119000



**Tape starts**

Our tapes are available with different starts. Simply choose and indicate the required tape start with your order.



↓ Zero

A

B

# Products | Telescopic meters



NESTLE TELEFIX  
page 113



TELEMAX  
page 114



TELEMAT  
page 115



## NESTLE telescopic meters

1840001 ...



### TELEFIX

- Analogue mm-reading, easy to read at a convenient height. No bending down - no falsifying the result.
- Telescopic extendable.
- Height measurement with optional geodesy adapter for Telefix, model no. 18905000.
- Two indices for inner and outer dimensions.
- Horizontal and vertical bubble level for exact handling.
- Accuracy according to MID-guidelines.
- Anodized aluminium square tubes for a solid and stable stand.
- Bilateral pressure spring lock prevents the elements from slumping down.
- All models incl. carrying bag made of sailcloth.
- The TELEFIX- telescopic meters are available at 3m, 4m, 5m, 6m, 8m and 10m length.
- TELEFIX- telescopic meters Geodesy, length 5m, screw fixing, model no. 18406001, for use with prisms or laser receivers.
- TELEFIX 5m PLUS, length 5m, reinforced elements, with foldable hook 70cm, model no. 18409001.



### Application benefits

- Measure roof heights, ceiling heights, internal dimensions etc.
- We also offer hooks for vehicle height measurement and forestry.
- Height measurements in survey with geodesy-adaptor.



Specifications	NESTLE- TELEFIX
Telefix 3m: 66-300cm, 1,600g	Model no. 18400001
Telefix 4m: 83-40 cm, 1,900g	Model no. 18401001
Telefix 5m: 99-500cm, 2,200g	Model no. 18402001
Telefix 6m: 116-600cm, 2,400g	Model no. 18403001
Telefix 8m: 135-800cm, 3,200g	Model no. 18404001
Telefix 10m: 164-1,000cm, 4,400g	Model no. 18405001
Telefix 5m: Geodesy 104-500cm, 2,300g	Model no. 18406001
Telefix 5 m PLUS: 103 – 500 cm, 3,100g	Model no. 18409001
Folding hook 70cm only for Telefix 8m +10m	Model no. 18924000
Length / weight	73cm / 250g
Features	screwable, foldable

### Optional

- Triangular tips, model no. 18902000, Round tips, model no. 18903000.
- Thread bolt M8/5/8", model no. 18904000.
- Laser-adaptor for Telefix 3, 4, 5 and 6m, model no. 18906000.
- Laser-adaptor for Telefix 8 and 10m, model no. 18907000.
- Hook for Telefix, 35cm, model no. 18908000.
- Hook for Telefix, 70cm, foldable, incl. fixing screw and hex-wrench, model no. 18924000.
- Bags available separately. Please indicate length.



**NESTLE telescopic meters****18407000****TELEMAX – telescopic meter made of glass fibre**

- Sturdy design - perfect for daily use on the job site.
- Made of solid glass fibre tubes.
- Telescopic extendable in 8 segments.
- Analogue mm-reading, viewing panel positioned at a comfortable height.
- Glass fibre is non-conducting, therefore measurements near power lines are possible.

**Application benefits**

Measure roof, ceiling, cable or vehicle heights.

**Specifications****TELEMAX**

Range	140 - 800cm
Weight	2,000g

**Accessories**

A bag is included in the scope of delivery.



## NESTLE telescopic meters

18302001, 18305001



### TELEMAT

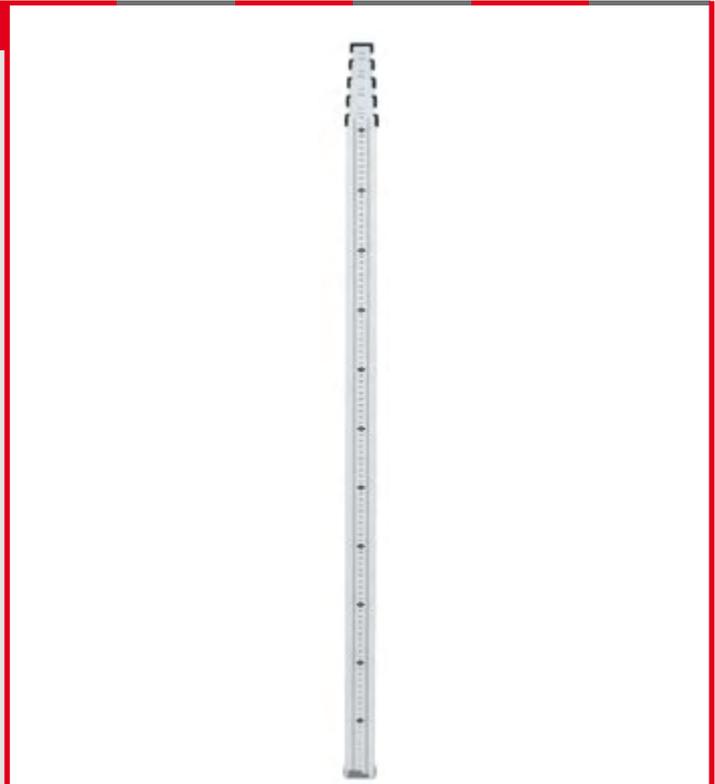
- Ideal for measuring clear heights such as ceilings, door frames, eaves.
- The mm-graduation on the front side measures „upside down“: Simply extend the segments, the result can be read at the junction to the next segment.
- Telescopic extendable staffs, short transport size and low weight make the staffs comfortable to handle.
- The imprint is protected by projected profile edges.
- Solid push-button mechanism for secure locking of the telescopic segments.
- The segments slide easily without jamming.
- The 5m version is available with fold-out hook. Therefore ideal for measuring vehicle heights and external dimensions.

#### Telescopic meter with 70cm fold-out hook:

- Ideal for measuring altitude of trucks and commercial vehicles.
- The fold and lockable hook is plastic coated, therefore are no hard or sharp edges, so neither vehicle nor cargo will be scratched during measurement.

### Application benefits

- Easy to handle.
- Fast measurement of clear heights.
- Simple to transport.
- Trucks and cargo altimeter.



### Specifications

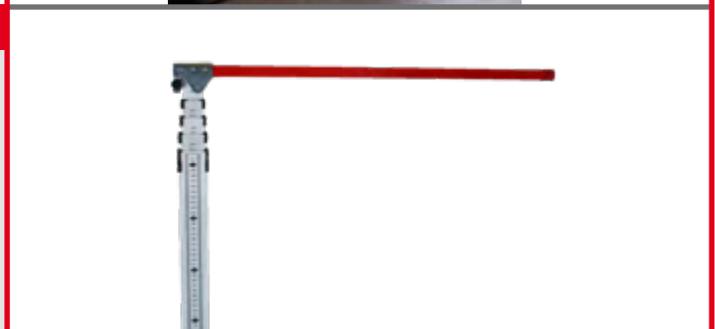
#### TELEMAT

<b>TELEMAT 5m</b>	Model no. 18302001
Working range	125-500cm
Weight	1,700g
<b>TELEMAT 5m with hook 70cm</b>	Model no. 18305001
Working range	125-500cm
Weight	1,960g



### Accessories

Telemat 5m with a folding hook 70cm on top, 18305001.



# Products | **Manhole cover lifter**



NESTLE-manhole  
cover lifter  
page 117



Manhole cover lifter-  
accessories  
page 118



## NESTLE manhole cover lifter

2100001



### For easily lifting manhole covers

- Ergonomic device providing safety at work for everyone who has to lift manhole covers.
- For all kinds of manhole covers.
- Easy handling: Simply fit the hook into the cover's notch to lift it.
- Telescopic handle for increasing leverage and minimizing efforts.
- Scope of delivery: Cover lifter, standard hook including attachment bolt.
- Suitable for many types of road shafts thanks to the extensive assortment of hooks for different manhole cover shapes.
- Extremely simple operation of the manhole cover lifter: insert the lifting bolt and the manhole cover and lift it without great effort.
- Enlargement of the leverage through the telescopic guide rod, the effort required is thus reduced.
- Scope of delivery: manhole cover lifter, standard hook with bolt for attachment.

### Application benefits

Ideal for maintenance, road construction and sewer cleaning.

The manhole cover lifter is also highly useful for surveyors, who often have to measure sewer depths in topographical survey, e.g. for new buildings with connection to the sewage system.



Specifications	NESTLE-manhole cover lifter
Frame	Metal, powder coated
Wheels	Solid rubber, heavy duty
Weight	9,000g
Min- / Max. lever	98 - 148cm
Operating range	Cover till 150kg (loose sitting cover)



### Accessories

We offer various hooks and an extension for the manhole cover lifter.



**Manhole cover lifter - accessories****21001000....****Extension and hooks for manhole cover lifter**

- Various hooks and an extension make the cover lifter adapted for almost all kinds of covers.
- Suitable for gasoline traps.
- Two different heavy duty hooks are available (15 x 15mm and 12 x 8mm).
- Furthermore, we offer two round hooks (normal, 90° angular).
- For centred notches we offer an extension.
- Extension, model no. 21001000.
- Heavy duty hook 15 x 15mm, model no. 21002000\*.
- Heavy duty hook 12 x 8mm, model no. 21003000\*.
- For gasoline traps, model no. 21004000\*.
- Heavy duty hook 20 x 15 mm, model no. 21005000\*.
- Heavy duty hook, round, model no. 21006000\*.
- Standard hook, model no. 21008000.
- Welded hook, to lift up rain drainages, model no. 21009000\*.
- Heavy duty hook, round, 90° angular, short, model no. 21011000\*.

**Application benefits**

- High flexibility with hooks for all standard shaft covers.
- Hook for manhole cover lifter SET-7, model no. 21010000:  
Set consists of all \* marked hooks including practical holder.

**Specifications****Extension and hooks**

Weight extension	1,000g
Weight hook	1,000 - 1,500g
Weight SET-7	4,500g

**Accessories**

For safeguarding your work with the cover lifter we offer:

- Traffic cone, model no. 19807000.
- Warning pyramid, model no. 19400001.



# Products | **Warning pyramids + Safety products**



NESTLE warning pyramid  
luminous colour  
pages 120



NESTLE warning pyramid  
retro-reflective  
pages 121



NESTLE warning pyramid  
yellow  
pages 122



Warning lights + Traffic cones  
pages 123 + 124



NESTLE warning flags  
pages 125



## Warning pyramid, luminous colour 70 / 90cm

- For safeguarding construction sites, survey work and signalling hazardous areas of all kinds.
- NESTLE warning pyramids are very versatile. You have the choice between the symbols !-mark (VZ101), construction worker (VZ123) and smoking cigarette. In addition you can choose out of more than 100 imprints which refer to specific dangers.
- The warning pyramid is available in 70cm and 90cm.
- You have the choice between warning pyramids light weight model with center column or heavy weight model with spring mechanism.
- Outside, the warning pyramids are exposed to changing weather-conditions. That is why the base frame of our warning pyramids is made of anodized aluminium or powder-coated steel (spring-model) to be resistant to rust and oxidation.
- The cover is made of durable, PVC-coated synthetic fabric in white, the triangle is printed in luminous red.
- All warning pyramids are equipped with a standardized adaptor and a carrying bracket. Thus, warning lamps and flashlights, signs or reflectors can easily be attached to the pyramid.



## Application benefits

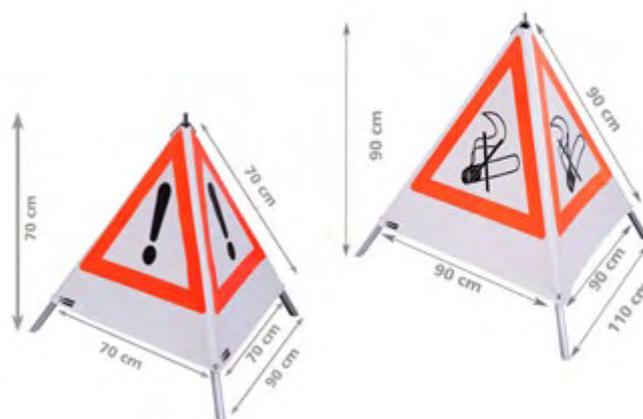
The warning pyramids manufactured without spring allows setting up the pyramid using only one hand. Because of its construction without spring the warning pyramid is prevented from flying away like a parachute by wind gusts coming from passing cars by example. Our warning pyramid collapses, falls to the side and stays on the ground. Delivery includes case for storage and transport.



## Specifications

## Warning Pyramids

70cm, VZ101 (! - sign)	Model no. 19400001 / With spring: 19000001
70cm, VZ123 (construction worker)	Model no. 19500001 / With spring: 19100001
70cm, smoking ban	Model no. 19600001 / With spring: 19200001
90cm, VZ101 (! - sign)	Model no. 19404001 / With spring: 19004001
90cm, VZ123 (construction worker)	Model no. 19504001 / With spring: 19104001
90cm, smoking ban	Model no. 19604001 / With spring: 19204001
Weight 70cm warning pyramids	Ca. 1,700g / With spring mechanism 2,900g
Weight 90cm warning pyramids	Ca. 2,300g / With spring mechanism 3,400g



## Accessories

An additional weight including hex-wrench is available for our warning pyramids. This provides for more stability in high wind or gusts caused by passing vehicles:

19900000: Additional weight 1,100g for warning pyramids with spring.

19901000: Additional weight 2,000g for warning pyramids with light frame.

The additional weight can be left attached to the pyramid for transport.



## NESTLE warning pyramid retro-reflective

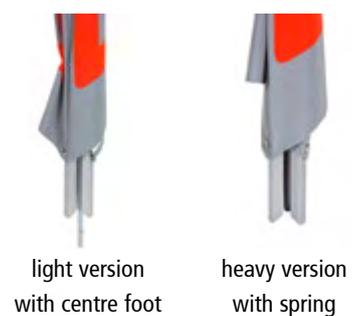
19002001...



### Warning pyramid retro-reflective 70 / 90cm

- Warning pyramids with retro-reflecting cover offer at night the advantage of reflecting the light of oncoming cars. Perfect for us at night or in the dusk.
- For safeguarding construction sites, survey work and signalling hazardous areas of all kinds.
- NESTLE warning pyramids are very versatile. You have the choice between the symbols !-mark (VZ101), construction worker (VZ123) and smoking cigarette. In addition you can choose out of more than 100 imprints which refer to specific dangers.
- The warning pyramid is available in 70cm and 90cm.
- You have the choice between warning pyramids light weight model with center column or heavy weight model with spring mechanism.
- Outside, the warning pyramids are exposed to changing weather-conditions. That is why the base frame of our warning pyramids is made of anodized aluminium or powder-coated steel (spring-model) to be resistant to rust and oxidation.
- All warning pyramids are equipped with a standardized adaptor and a carrying bracket. Thus, warning lamps and flashlights, signs or reflectors can easily be attached to the pyramid.

**MAGNETIC BASE:** All warning pyramids without spring could be equipped with a removable magnetic base. The magnetic base has to be fixed at our factory. A subsequent modification of the pyramid is not possible. With the magnetic base a warning pyramid can be placed securely onto the roof of a car. Additional rubber covers surrounding the magnet and the tips prevent from damages and scratches.



### Application benefits

- More Protection for worker and passer-by at construction sites, at survey works and other dangerous situations.
- Especially for use at night or in the dusk.
- The construction allows setting up the pyramid using only one hand (Model without spring)

Specifications	Warning pyramids retro-reflective
70cm, VZ101 (! - sign)	Model no. 19402001 / With spring: 19002001
70cm, VZ123 (construction worker)	Model no. 19502001 / With spring: 19102001
70cm, smoking ban	Model no. 19602001 / With spring: 19202001
90cm, VZ101 (! - sign)	Model no. 19406001 / With spring: 19006001
90cm, VZ123 (construction worker)	Model no. 19506001 / With spring: 19106001
90cm, smoking ban	Model no. 19606001 / With spring: 19206001
Magnetic base	Model no. 19905000
Weight 70cm-warning pyramids	Ca. 1,700g / With spring mechanism 2,900g
Weight 90cm-warning pyramids	Ca. 2,300g / With spring mechanism 3,400g



**magnetic base**

### Accessories

We offer warning lamps attachable to our pyramids. (See page 123). Available as LED or bulb version including adaptor and wrench.

- Warning lamp StarLED, model no. 19902000.
- Warning lamp Optima2001, model no. 19903000.
- High-capacity battery for warning lamps, model no. 19904000.



**NESTLE warning pyramid yellow**

19001001...

**Warning pyramid yellow 70 / 90cm**

- Warning pyramids with yellow cover and normal red triangle or retro-reflecting yellow cover and luminous red triangle.
- For safeguarding construction sites, survey work and signalling hazardous areas of all kinds.
- NESTLE warning pyramids are very versatile. You have the choice between the symbols !-mark (VZ101), construction worker (VZ123) and smoking cigarette. In addition you can choose out of more than 100 imprints which refer to specific dangers.
- The warning pyramid is available in 70cm and 90cm.
- You have the choice between warning pyramids light weight model with center column or heavy weight model with spring mechanism.
- Outside, the warning pyramids are exposed to changing weather-conditions. That is why the base frame of our warning pyramids is made of anodized aluminium or powder-coated steel (spring-model) to be resistant to rust and oxidation.
- All warning pyramids are equipped with a standardized adaptor and a carrying bracket. Thus, warning lamps and flashlights, signs or reflectors can easily be attached to the pyramid.



yellow daylight luminous

**Application benefits**

- More Protection for worker and passer-by at construction sites, at survey works and other dangerous situations.
- The construction allows setting up the pyramid using only one hand (Model without spring)
- Neon yellow colour (retro-reflecting) has more conspicuity at daylight.
- The retro-reflective versions are especially suitable for use at night or in the dusk.

**Specifications****Warning pyramide yellow**

70cm, VZ101 (! - sign)	Model no. 19401001 / With spring: 19001001 Retro-ref.: 19403001 / With spring: 19003001
70cm, VZ123 (construction worker)	Model no. 19501001 / With spring: 19101001 Retro-ref.: 19503001 / With spring: 19103001
70cm, smoking ban	Model no. 19601001 / With spring: 19201001 Retro-ref.: 19603001 / With spring: 19203001
90cm, VZ101 (! - sign)	Model no. 19405001 / With spring: 19005001 Retro-ref.: 19407001 / With spring: 19007001
90cm, VZ123 (construction worker)	Model no. 19505001 / With spring: 19105001 Retro-ref.: 19507001 / With spring: 19107001
90cm, smoking ban	Model no. 19605001 / With spring: 19205001 Retro-ref.: 19607001 / With spring: 19207001
Weight 70cm- warning pyramids	Ca. 1,700g / With spring mechanism 2,900g
Weight 90cm- warning pyramids	Ca. 2,300g / With spring mechanism 3,400g



yellow retro-reflecting

**Accessories**

All our warning pyramids are delivered including a protective bag. This allows space-saving and convenient transport.



## NESTLE warning light

19810000, 19902000



### Warning light 9 in 1

- Specifically designed for emergency situations, especially in the dark, in the rain, fog and smoke.
- The solid and robust construction (shock, vibration and water resistant), it can withstand even the heaviest loads.
- **Not approved for road traffic!**
- Increase your safety through improved visibility.
- 9 possible LED sequences.
- Possible to fix with magnet or strap.

#### Warning light available in different colours:

- red, model no. 19810000
- yellow, model no. 19812000

#### Warning light rechargeable, incl. charger:

- orange, model no. 19818000
- orange, 6 pcs. in case, model no. 19813000

#### Plummet hook butler, model no. 19819000

By the butler you attach warning lights with magnetic easy and secure at the plummet-hook of your tripod which increase the visibility and safety of your tripod.



### Application benefits

#### Warning light:

- 360° light with 16 LED sequences.
- With strong magnet.
- Shock, vibration and water resistant.
- At night visible far.



Specification	LED warning light
<b>Warning light</b>	
Battery	1 x Li-ion (included)
Duration	approx. 10 hours (depending on the flashing mode)
Dimension	Ø 130mm x 35mm
Weight	250g
<b>Warning light StarLED / Optima 2001</b>	
Blinking rate	Approx. 60/min.
Dimension	195 x 120 x 335mm
Weight with battery	1,100g

### Worksite warning light

#### Warning light Optima 2001, model no. 19903000

- Continuous and flashing light switch.
- Change battery without removing the light.
- Include adapter and wrench.

#### Warning light StarLED, model no. 19902000

- Durable high end work-site light.
- Continuous and flashing light switch.
- Change battery without removing the light.
- Include adapter and wrench.

#### 1 high capacity battery for work-site warning light, model no. 19904000



19902000

19903000



## Traffic cones

19806000, 19807000



### Traffic cones 32cm, 50cm

- Entirely made of plasticized PVC, weatherproof and unbreakable.
- Stable enough to withstand wind gusts from cars passing by.
- The daylight luminous red paint provides for best visibility even at large distances.



### Application benefits

Advance warning of hazards and dangers for road construction, survey, construction sites and scenes of accidents.



### Specifications

#### Traffic cones

Material	Plasticized PVC
Height	32cm
Colour	Daylight luminous red / white
Weight	500g
Model no.	19806000

Material	Plasticized PVC
Height	50cm
Colour	Daylight luminous red / white
Weight	1,150g
Model no.	19807000



### Accessories

Besides traffic cones we offer warning pyramids at 70 and 90cm side length, in daylight luminous or retro-reflective colour available with various imprints on request.



**NESTLE warning flags**

**19802000, ...3000, ...4000, ...5000**



**For safeguarding and signalling**

- NESTLE warning flags provide for a flexible solution to safeguard scenes of accidents, construction sites or hazardous areas.
- The warning flags can easily be attached to snow ploughs.
- Tearproof textile.



**Application benefits**

Safeguarding and signalling for forestry and municipal works.



**Specifications**

**NESTLE- warning flags**

<b>Model no. 19802000</b>	50 x 50cm, wooden stick 80cm, Ø 21mm
Colour	white/orange/white
	VPE 40 pieces
<b>Model no. 19803000</b>	75 x 75cm, wooden stick 100cm, Ø 21mm
Colour	white/orange/white
	VPE 20 pieces
<b>Model no. 19804000</b>	50 x 50cm, wooden stick 80cm, Ø 21mm
Colour	white/red/white
	VPE 40 pieces
<b>Model no. 19805000</b>	75 x 75cm, wooden stick 100cm, Ø 21mm
Colour	white/red/white
	VPE 20 pieces



**Accessories**

We offer warning pyramids and traffic cones.

On construction sites or in surveying: Safety accessories from NESTLE always keep you on the safe side!



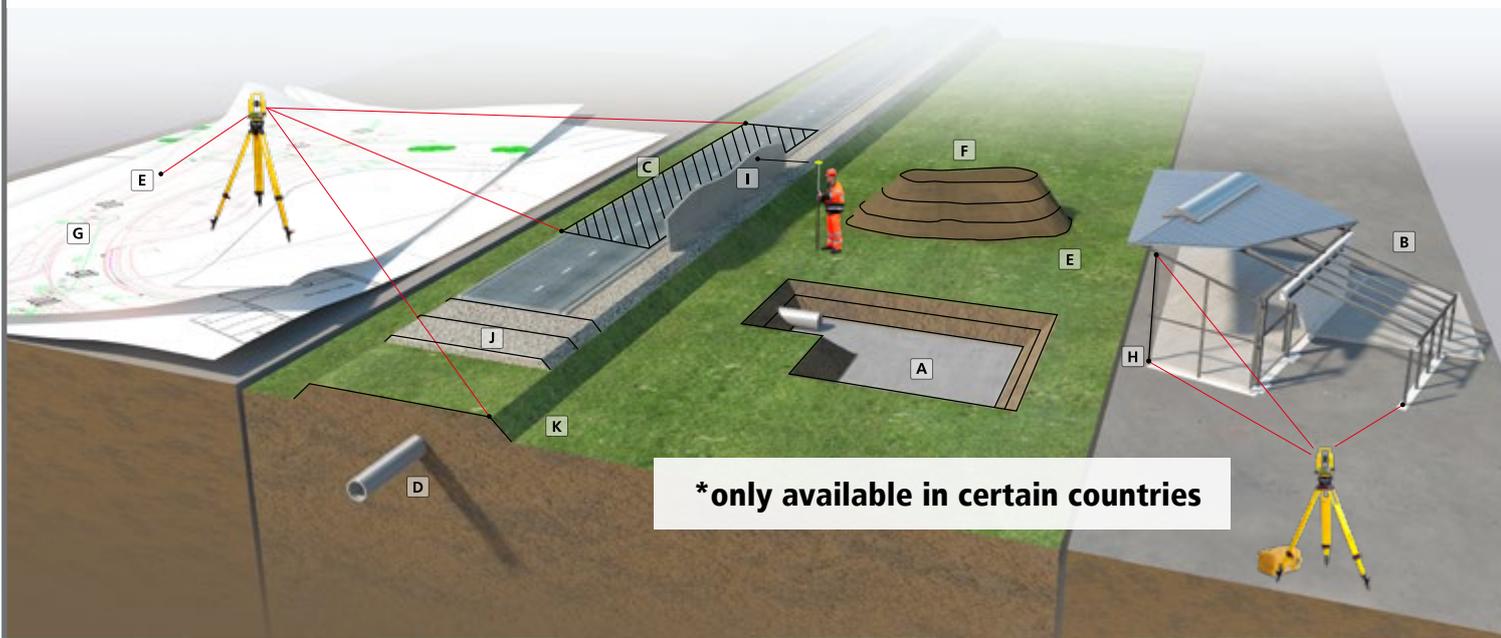
# Products | Geomatics

## Optimal solutions for your tasks in the field of Geomatics:

- Totalstations\* for terrestrial surveying
- RTK GNSS Systems\* for satellite surveying
- 3D Measuring System
- Field controller



For more information, please contact us, or visit us at [www.g-nestle.de/en](http://www.g-nestle.de/en)



# Products | Geomatics



GEOMAX Zoom 3D  
measurement system  
page 128



NESTLE GNPS-42  
satellite positioning system  
page 129



NESTLE Geomatics accessories  
universal case  
page 130



**GEOMAX Zoom3D****27203000, 27204000****Motorized 3D measurement system for interior and exterior**

- The Zoom3D is a motorized 3D measurement system with optional automatic target tracking.
- The ease of use has been designed for non-surveyors. There is only one button for turning on and off the instrument, any operation carried out wirelessly via a handheld computer.
- By Zoom3D you simply and safely 3D stakeout and survey in indoors and outdoors.
- The Zoom3D sets new standards and is the ideal tool for simple construction surveying, building modelling in BIM area (BIM = Building Information Modelling) and versatile interior data collection.
- To control the measurements we recommend Samsung Active Tab 3 tablet and Field Software X-PAD masterplan.

**There are two versions available:**

**GEOMAX Zoom3D Basic**, Android - SET, model no. 27203000  
Instrument Zoom3D Basic with internal battery, remote control, charging power supply, USB cable, USB stick, case, tripod 13701000, software app Master plan Basic.

**GEOMAX Zoom3D Robotic**, Android - SET, model no. 27204000  
Zoom3D Basic instrument with internal battery, remote control, charging power supply, USB cable, USB stick, case, tripod 13701000, case with 2 target boards and controller holder, software app Masterplan Robotic.

**Application benefits**

- Fully integrated, automatic self-levelling  $\pm 3^\circ$
- Operation by wireless handheld Computer.
- Optional automatic target recognition and tracking
- 1-person operation
- Wireless data transmission

**Specifications****GeoMax Zoom3D**

Dimensions	height 215.5mm, $\varnothing$ 186.6mm
Weight	2.8kg
Operating temp.	-10° C to 50° C
Protection class	IP54 (IEC 60529)
Connection	5/8"
Communications	WLAN, USB Type Micro-B and Typ-A
Angle measuring range	250°, horizontal 360°; vertical
Laser / class	coaxial, visible red laser / class 2
Laser type	650nm; < 1mW
Measuring range	0.5 – 50m
Accuracy	5 ", corresponds to 1.2mm at 50m

**Accessories**

- Controller, Poles

For more information's: <https://www.digitale-bauvermessung.de/zoom3d>



## NESTLE GNSS-System GNPS-42

26032001



### NESTLE Satellite positioning system GNPS-42

- The NESTLE GNPS-42 is a precise, light, mobile Satellite positioning system for point recording and point setting out in topography, documentation, construction and volume measurements.
- The GNPS-42 system sets standard for entry-level satellite positioning systems.
- Through the simultaneous use of 4 satellite systems (GPS, GLONASS, GALILEO, BEIDOU) measurements can be carry out comfortably.
- The NESTLE on2go app - one of the most user-friendly Software app for construction measurements - can be learned very quickly. We have put special attention during developing the software to users without special knowledge in the field of surveying applications.
- The GNPS-42 system is Made in Germany.

#### Optional - GNPS-42 Extension (up to 3m)

The pole of GNPS-42 can be optionally extended.



GNPS-42 Landingpage:  
<https://www.gnps-42.com/>

### Application benefits

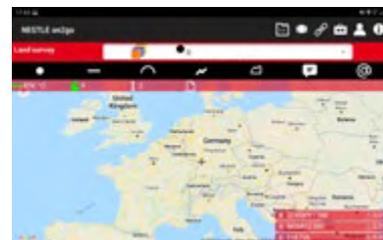
- Simultaneous use of 4 satellite systems (GPS, GLONASS, GALILEO, BEIDOU).
- Satellite measurement system made in Germany.
- Quick and easy to learn.
- Particularly light weight.



### Specifications

Application	RTK real-time positioning for recording and staking out points and geometric shapes
Antenna / Weight	Helix / 25g
Antenna working height	2m
GNSS-Tracking	GPS, Glonass, Beidou, Galileo
Accuracy (RTK Fixed)	Hor = 10mm +1 ppm, Ver = 18mm +1 ppm
Weight (coml. system, ready to work)	1,760g
Working temperature	-20°C to +50°C
IP-Protection class	Antenna IP67, Tablet IP68, Sensor-box IP54
Power supply	by Tablet
Battery	Li-ION 4450 mAh, removable
Battery working time (System)	6 hours
Battery charging time	1 hour to 80%, 1.5 hours until fully charged

Software App **on2go**



### Scope of delivery

- Helix antenna
- Pole 2-parts with internal cable routing and vial
- Tablet with Li-Ion battery, charger, pen, outdoor-cover
- GNPS-Sensor-box with connecting cable
- Holder for Tablet and GNPS-Sensor-box
- Pole holder H2C for tablet holder
- Software App NESTLE on2go (one year license)
- Manual
- Bag



## NESTLE accessories Geomatics

26020000, 26026000



### Universal Case NT300 and NT400 black

- The universal case NT300 and NT400 – black with shock-proof and water-tight housing – are suitable for the safe transport of expensive and sensitive devices (for example a field computer).
- Due to the foam cubes of the inner lining an individual division is easily possible.

Universal cases available in two sizes:

- **NT300, model no. 26020000:** is suitable for a field computer as well as the suitable Nestle computer holder.
- **NT400, model no. 26026000:** offers extra space (for example for a 360° prism)

Universal NTX00 also as a **presentation case** for small parts in the field sales.



### Application benefits

- IP67
- Shock and water resistant
- With variable foam insert
- Especially suitable for field computers
- Pressure valve and lever locks for easy opening



### Specifications

Protection class	IP67
Dimensions / Weight NT300	336x300x148mm / 1,800g
Dimensions / Weight NT400	464x366x176mm / 1,800g
Outside	Carry handle, 2 lever locks, pressure valve
Inside	Foam cubes in the bottom + convoluted foam in the cover
Colour	Black
Material	Polypropylene copolymer



### Feature

We also recommend:

- Bags for tripods, e.g. 13931001
- Bags for prisms / antenna poles, e.g. 14977001

13931001



14977001



# Products | **Theodolites**



## **NESTLE DT-405/L**

Electronic theodolites

with optical or laser plummet / page 132



## **GEOMAX Zipp02**

Digital theodolite

page 133



**NESTLE DT-405 / DT-405 L****15103000, 15104000****Electronic theodolite with optical plummet or laser plummet**

- The DT-400 Series is an electronic theodolite with digital angle measurement unit.
- The Theodolite is appropriate for measurements in the field of surveying, railway, construction, mining and engineering.
- Optionally with optical (model no. 15103000) or laser plummet (model no. 15104000).
- Equipped with tubular and circular bubble for quick levelling up.
- Switchable between Grad, GON and MIL.

Scope of delivery: Instrument, manual, battery charger, battery, battery compartment for 4 x AA batteries, tool kit, rain cover, transport case with carrying strap, tripod.

**Application benefits**

- Display on two sides for easy reading of the angular values.
- Large and easy to read numbers on the display.
- Inclusive tribrach.
- Integrated function for checking and adjustment in the field.

**Specifications****DT-405 / DT-405L**

Protection class / Laser class	IP54 / 2
Dimension	153 x 175 x 340mm
Weight	4,300g
Magnification	30
Accuracy angle	5"
Accuracy laser plummet	± 1.0mm / 1.5mm (only 15104000)
Lens aperture	Ø 45mm
Shortest focussing distance	Approx. 100cm
Operating temperature	-20°C to +50°C

**Accessories**

Besides the Instrument, we offer a complete range of accessories. Of particular note are our wooden tripods.

For steep sights an eyepiece with bayonet lock is available for DT-405 and DT-405L, model no. 15902000.

Model no. 15902000 with bayonet lock.

The eyepiece is compatible to Leica theodolites.



## GEOMAX Digital Theodolite Zipp02

27011000



### Digital theodolite

- With vertical compensation and 2" accuracy Zipp02 supplies for your most demanding tasks, the accuracy required - inexpensive and without complexity.
- Various display modes, zero hold and set for horizontal angle, a choice of measurement units, simple distance measurement with stadia lines, and all with just six buttons easily to use.
- The visible laser plummet makes positioning over a point easily and faster than ever before.
- Zipp02 is the tool for angle controls, orientations, inclinations and short levelling.



### Application benefits

- All application of a level
- Ideal for setting out and aligning (vertically and horizontally)
- Determination of inclines and declines in road construction
- Visible laser plummet
- With 2" angle accuracy for demanding tasks



### Specifications

#### Theodolite Zipp02

Magnification	30 times
Display	Both sides
Angular accuracy	2"
Lens aperture	45mm
Shortest focusing distance	1.35m
Multiplication constant	100
Addition constant	0
Lot	Laser plummet, visible
Working temperature	-20°C to +50°C
Environmental conditions	Dust- and waterproof, IP54
Power supply	Chargeable NiMH, alkaline battery pack replacement
Weight with battery and tripod	4,500g



### Accessories

- For theodolites we offer the complete range of accessories that you need.
- Of particular note are our wooden tripods.
- For Zipp02 a diagonal eyepiece for steep sights is available, model no. 15901000.



## Products | Digital level



GEOMAX Digital level  
ZDL700  
page 135



## GEOMAX Digital levels ZDL700

27010000



### Digital = simply + exactly + fast

- Extensive field tests confirmed the excellent accuracy of ZDL700 – double run line of 0.7mm at 1km. So that ZDL700 is the ideal levelling system not only for demanding levelling but also deformation measurements and precise field survey and the general use in construction.
- Extensive internal calculation programs.
- Patented magnetically damped pendulum compensator for highly accurate measurement results.
- Even in low light or bright sunshine. Even in total darkness you can with a flashlight further perform accurate measurements.
- For high-precision measurement campaigns, we offer an one-piece levelling staff of fibreglass with a length of 3m, standard deviation of 0.7mm per 1km double run, front with barcode, back with graduated scale.
- For the standard levelling, we offer a 5m long, four-piece aluminium telescopic levelling staff with standard deviation of 2mm per 1km double run, front with barcode, back with graduated scale.



### Application benefits

- Fast meas
- Superior p
- No error w
- stored digi
- Convenient

Sorry, phased out.



### Specifications

#### ZDL700

Magnification	24 times
Compensator	± 10"
Accuracy	± 0.7mm / km
Range	2m to 105m
Memory, interface	2,000 measurements, RS232
Power supply	4 x LR6/AA 1.5V, for >14 hours long measure
Weight	2,500g
Protection class	IP55
Working / storage temperature	-10°C to +50°C / -40°C to +70°C



### Accessories

- Especially for high-precision levelling, we recommend tripods from Gottlieb NESTLE.
- Barcode levelling staff GSS113, fibreglass, 3m, model no. 27022000
- Barcode levelling staff GSS111, standard, 5m, model no. 27023000



# Products | Automatic levels



NESTLE NAL  
Automatic levels  
page 137 / 138



NESTLE NLS  
Automatic levels  
page 139



GEOMAX ZAL100 Series  
Automatic levels  
page 140



GEOMAX ZAL200 Series  
Automatic levels  
page 141



GEOMAX ZAL300 Series  
Automatic levels  
page 142



## NESTLE NAL-series – Type 1

1500001...



### Automatic levels

The NESTLE NAL series is designed for building construction applications:

- Available with 20x, 24x, 28x and 32x magnification.
- Measurement of height differences between points.
- Distance measurement via stadia lines.
- Height layout.
- Horizontal angle measurement.
- Air-dampened compensator for fine adjustment.
- All operating elements are positioned conveniently.
- Casing sealed according to protection class IP54 for protection against splash and dust.
- Aluminium body, casing cover and control knobs made of plastics.

- **NAL 20** with 20x magnification, model no. 15000001.
- **NAL 24** with
- **NAL 28** with 28x magnification, model no. 15004001.
- **NAL 32** with

- Scope of delivery: NAL level, plumb bob, adjustment tools, manual, case.



### Application benefits

- Solid and precise with ideal price-performance ratio.
- Brilliant optics and excellent mechanical quality.



Specifications	NESTLE NAL series
Objective aperture	40mm
Compensator	Air-dampened
Horizontal circle	400gon
Accuracy / 1km double run	NAL20: ± 2.5mm / NAL24: ± 2.0mm
–	NAL28: ± 1.5mm / NAL32: ± 1.0mm
Accuracy compensator	NAL20/24: < 0,5" /NAL28: < 0,4" /NAL32: < 0,3
Multiplication constant	100
Shortest focus	0.65m
Vial	8' / 2mm
Dimensions / Weight	190 x 140 x 150mm / 1,600g
Protection class	IP54



### Accessories

The NAL levels are available with aluminium tripod (model 13000000) and 5m levelling staff (with bag and circular vial, model no. 18203000).

- **NAL 20 set:** model no. 15001001.
- **NAL 24 set:**
- **NAL 28 set:** model no. 15005001.
- **NAL 32 set:**

Bag for levelling set see page 172.



**NESTLE NAL-Series – Type 2**

15041001...

**Automatic levels for the building industry**

Type 2 of the NESTLE NAL series is a version that has been revised and further developed in detail. The most striking feature from the outside is a new design. The NAL series adopts the proven technical features of the NAL series and is therefore the ideal levelling instrument for the building industry.

- Available with 24x, 28x or 32x magnification.
- Horizontal circle with graduation for horizontal angle measurement.
- Determination of the height difference between several points.
- Optical distance measurement using two distance lines.
- Stake out the height of a point.
- Easy-to-reach rotary knobs on both sides for the fine adjustment.
- Large, ergonomically shaped rotary knob for focusing.
- Housing sealed according to protection class IP54 and thus splash-proof.
- Housing base made of aluminium, cover and rotary knobs Plastic.

- **NAL 24** with 24x magnification, model no. 15041001
- **NAL 28** with 28x magnification, model no. 15043001
- **NAL 32** with 32x magnification, model no. 1504500

Scope of delivery: levelling instrument, plumb bob, adjustment tool, Instruction manual, case.

**Application benefits**

- Robust and precise with an optimal price-performance ratio.
- Very good optics with above-average workmanship.



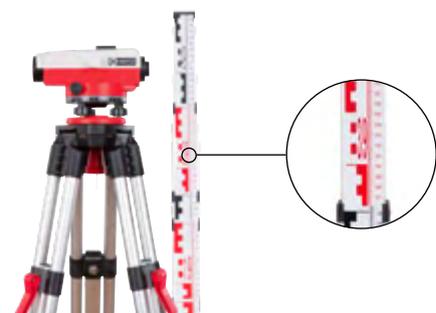
Specification	NESTLE NAL-Series
Lens opening	40mm
Compensator	Air-cushioned
Pitch circle	400gon
Accuracy to 1 km Double levelling	NAL 24: $\pm 2,0$ mm
–	NAL 24: $\pm 2,0$ mm; NAL 28: $\pm 1,5$ mm; NAL 32: $\pm 1,0$
Accuracy compensator	NAL 24: $<0,5$ " ; NAL 28: $<0,4$ " ; NAL 32: $<0,3$ "
Multiplication constant	100
Shortest target distance	0.5m
Vial	8' / 2mm
Dimensions / weight	200 x 135 x 140mm / 1,450g
Protection class	IP54

**Feature**

The NAL levels are each also in a set with an aluminium tripod (light construction, model no. 13000000) as well as a 5m telescopic Levelling staff (including bag and vial, item no.18210000) available:

- NAL 24 levelling set: model no. 15042001
- NAL 28 levelling set: model no. 15044001
- NAL 32 levelling set: model no. 15046001

Bag for levelling set see page 172.



**NESTLE NLS series**

15008001...



**Automatic levels**

The NESTLE NLS series is designed for building construction and precision levelling:

- Available with 20x, 24x and 32x magnification.
- Measurement of height differences between points.
- Distance measurement via stadia lines.
- Height layout.
- Horizontal angle measurement.
- Magnet-dampened compensator for fine adjustment.
- All operating elements are positioned conveniently.
- Casing sealed according to protection class IP65 for protection against splash and dust.
- Aluminium body, casing cover and control knobs made of plastics.

- **NLS 20**
- **NLS 24** with 24x magnification, model no. 15010001.
- **NLS 32** with 32x magnification, model no. 15012001.

Scope of delivery: NLS level, plumb bob, adjustment tools, manual, case.



**Application benefits**

- Superior optics.
- High quality manufacturing.



**Specifications**

**NESTLE NLS series**

Objective aperture	NLS20: 32mm / NLS24: 36mm / NLS32: 42mm
Compensator	Magnet dampened
Horizontal circle	400gon
Accuracy / 1km double run	NLS20: ± 2.5mm / NLS24: ± 2.00mm NLS32: ± 1.0mm
Accuracy compensator	NLS 20/24: < 0,5" / NLS 32: < 0,3"
Multiplication constant	100
Shortest focus	Approx. 0.65m
Vial	8' / 2mm
Dimensions	220 x 140 x 150mm
Weight	1,700g
Protection class	IP65



**Accessories**

The NLS levels are available with aluminium tripod (model no. 13100000) and 5m levelling staff (with bag and circular vial, model no. 18203000).

- **NLS 20 set:**
- **NLS 24 set:** model no. 15011001.
- **NLS 32 set:** model no. 15013001.

Bag for levelling set see page 172.



**GEOMAX levels ZAL100 series****27001000, 27002000****Levels for the construction industry**

- Levels of series ZAL100 are suitable for easy levelling at all sites in the interior and exterior.
  - Three different magnifications.
  - With reference circle for horizontal angle measurements.
  - With stadia lines for optical distance measurement and simple terrain surveys.
  - Stakeout heights.
  - Automatic compensation by air-damped compensator.
- **ZAL124** with 24x magnification, model no. 27001000
  - **ZAL132** with 32x magnification, model no. 27002000

**Application benefits**

- Ergonomic two-side endless fine drive.
- Robust and accurate for your daily tasks in the construction sector.
- Sealed housing according to protection class IP54.

**Specifications****ZAL124 / ZAL132**

Magnification	ZAL124: 24x / ZAL132: 32x
Field of view	< 2.1m at 100m
Compensator	Air-damped
Circle Graduation / Interval	360° / 1°
Standard deviation for 1km double levelling ISO17123-2	ZAL124: 2.0mm / ZAL132: 2.0mm
Working range	± 15'
Multiplicat. / Additive const.	100 / 0
Stadia lines	Yes
Shortest target distance	< 1m
Circular vial	8' / 2mm
Weight	1,500g
Protection	IP54
Working Temp.	-20°C to +40°C

**Accessories**

Each ZAL100 levels are available with an aluminium tripod (light version model no. 13100021) and a 5m telescopic levelling staff (including bag and circular vial, model no. 18203000).

- GEOMAX ZAL124-set: model no. 27013000
- GEOMAX ZAL132-set: model no. 27014000

Bag for levelling set see page 172.



## GEOMAX levels ZAL200 series

27003000, 27005000



### Levels for the construction industry

- Levels of series ZAL200 are suitable for easy levelling at all sites in the interior and exterior.
  - The ZAL200 series corresponds substantially to the ZAL100 series. The ZAL200 instruments have a higher water protection class IP56 and the best air-damped compensator in this instrument class.
  - Three different magnifications.
  - With reference circle for horizontal angle measurements.
  - With stadia lines for optical distance measurement and simple terrain surveys.
  - Stakeout heights.
  - Automatic compensation by air-damped compensator.
- **ZAL220** with 20x magnification, model no. 27003000
  - **ZAL232** with 32x magnification, model no. 27005000



### Application benefits

- Ergonomic two-side endless fine drive.
- Robust and accurate for your daily tasks in the construction sector.
- Sealed housing according to protection class IP56.



### Specifications

#### ZAL220 / ZAL232

Magnification	ZAL220: 20x/ ZAL232: 32x
Field of view	< 2.1m at 100m
Compensator	Air-damped
Circle Graduation / Interval	360° / 1°
Standard deviation for 1km double levelling ISO17123-2	ZAL220: 2.5mm/ ZAL232: 1.9mm
Working range	± 15'
Multiplicat. / Additive const.	100 / 0
Stadia lines	Yes
Shortest target distance	< 1m
Circular vial	8' / 2mm
Weight	1,500g
Protection	IP56
Working Temp.	-20°C to +40°C



### Accessories

Each ZAL200 levels are available with an aluminium tripod (light version model no. 13100021) and a 5m telescopic levelling staff (including bag and circular vial, model no. 18203000).

- GEOMAX ZAL220-set: model no. 27015000
- GEOMAX ZAL232-set: model no. 27017000

Bag for levelling set see page 172.



**GEOMAX levels ZAL300 series****27007000, 27009000****Automatic levels for construction and engineering**

- From the daily works to high accuracy requirements - the ZAL300 series is your first choice for durability, comfort and accuracy.
  - Two different magnifications available (24x, 30x).
  - The best-in-class optics in ZAL300 and MAGNEX™ compensator are housed in a sealed and shockproof housing. Thus, the instruments are insensitive to shocks and all weather conditions.
  - The circle has a 360° and 400gon reading for horizontal angle measurements.
  - With stadia lines for optical distance measurement and simple terrain surveys.
- **ZAL324** with 24x magnification, model no. 27007000
  - **ZAL330** with 30x magnification, model no. 27009000

**Application benefits**

- Ergonomic two-sided endless fine drive.
- Robust and accurate for your daily tasks in construction and engineering.
- Protection class IP57 with gas-filled telescope.

**Specifications**      **ZAL324 / ZAL330**

Magnification	ZAL324: 24x/ZAL330: 30x
Objective aperture	324: 30mm/ZAL330: 40mm
Compensator	Automatic, magnetic-damped, patented magneX™
Circle Graduation / Interval	360° and 400gon / 1°, 1gon
Standard deviation for 1km double levelling ISO17123-2	ZAL324: 2.0mm ZAL330: 1.2mm
Working range	± 15'
Multiplicat. / Additive const.	100 / 0
Stadia lines	Yes
Shortest target distance	ZAL324: 0.6m/ZAL330: 0.8m
Circular vial	10' / 2 mm
Weight	ZAL324: 1,600g/ZAL330: 1,700g
Protection	IP57
Working Temp.	-20°C to + 50°C

**Accessories**

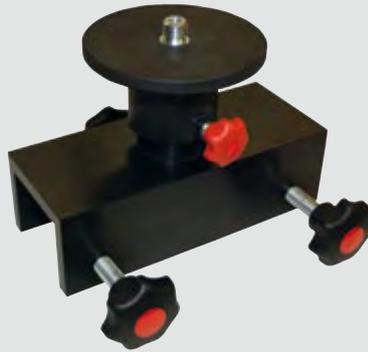
Each ZAL300 levels are available with an aluminium tripod (light version model no. 13100021) and a 5m telescopic levelling staff (including bag and circular vial, model no. 18203000).

- GEOMAX ZAL324-set: model no. 27019000
- GEOMAX ZAL330-set: model no. 27021000

Bag for levelling set see page 172.



# Products | **Clamp holder**



NESTLE clamp holder  
Clamp holder for theodolites  
page 144



**NESTLE Clamp holder****13907000****Clamp holder for theodolites**

- NESTLE clamp holder for easily positioning theodolites directly on the pins of batter boards.
- The clamp holder is fixed by clamp screws right over the pin by using a guideway aperture.
- The theodolite can be positioned perpendicular above the pin on the 5/8" head plate.

**Application benefits**

Alignment of axes in building construction using batter boards.

- No lines swaying in the wind - increase the precision with the work, especially over long distances or batter boards.
- Quick and safe fixation of the theodolite or rotation laser perpendicular to the Batter board nail.

**Specifications****NESTLE clamp holder**

Thread	5/8"
Dimensions	210 x 150 x 120mm
Weight	2,000g

**Accessories**

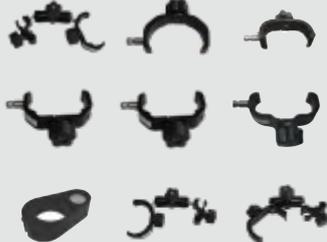
NESTLE offers a wide range of products for survey work in the building and construction industry: Theodolites, automatic levels, premium aluminium, wooden and elevating tripods for highest demands.



# Products | Prism and GNSS poles



# Products | Prism and GNSS poles

			
<p>NESTLE Mini-prism poles page 147</p>	<p>NESTLE MIDI-prism poles page 148</p>	<p>NESTLE prism pole screw clamp, 130-215cm page 149</p>	<p>NESTLE prism pole button clamp, 130-215cm page 150</p>
			
<p>NESTLE Robotic pole, 260 PR-1 page 151</p>	<p>NESTLE Combi pole 350 PK-1 page 152</p>	<p>NESTLE Carbon GNSS pole page 153</p>	<p>NESTLE GNSS pole PS-9 page 154</p>
			
<p>NESTLE Carbon GNSS pole two-segment page 155</p>	<p>NESTLE GNSS-pole carbon PO-9 page 156</p>	<p>NESTLE GNSS-pole carbon PT-9 page 157</p>	<p>Prism accessories page 160</p>
			
<p>Bipod page 162</p>	<p>NESTLE Mini bipod page 163</p>	<p>NESTLE prism pole-/ GNSS- accessories page 164</p>	<p>NESTLE Haltesystem H2C page 165</p>

## NESTLE Mini-prism poles

14000000, 14001000



### Mini-prism pole with 5/8 inch / Wild-connection

- With the mini poles the prism can be positioned closely above the measuring point. The error caused by a slightly misaligned bubble level is minimized in comparison to using standard prism poles.
- Ideal for use under dense growth or for batter board measurements.
- Solid all-metal construction, with adjustable level.

• **PN-2, model no. 14000000**, 5/8" inch-connection, hard metal tip.

• **PN-3 model no. 14001000**, Wild-connection, high-grade metal tip.



### Application benefits

- Construction and cadastral survey.
- Suitable for batter board measurements.



### Specifications

14000000 NESTLE Mini-prism poles

Weight 160g

14001000 Wild- / Leica-connection

Weight 320g



### Accessories

Mini prism pole with Wild- / Leica-connection.

Model no. 14001000.



**NESTLE MIDI-prism poles****14002000, 14003000****MIDI-prism poles with 5/8 inch / Wild-connection**

- Ideal for precise measurements when space is limited, e.g. underneath growth or roofings.
  - With its working range of 50-80cm the MIDI pole allows for prisms to be positioned closer to the measuring point than with standard-sized prism poles. Therefore, the resulting error caused by slightly non-perpendicular positioning is minimized.
  - Low weight and low size for convenient and space-saving transport.
  - Tip made of aluminium with hard metal-steel element. The hard metal steel tip is force-fitted into the pole and shows no abrasion even after years of hard use.
- **PD-2, model no.14002000** for 5/8"-connection.
  - **PD-3, model no. 14003000** for Wild- / Leica-connection.

**Application benefits**

- Construction and cadastral survey.
- For perpendicular positioning the prism when space is limited.

**Specifications****NESTLE MIDI-prism poles**

Clamping	Screw clamp
Working range	50 - 80cm
Weight	400g
	14002000: 5/8"
	14003000: Wild / Leica

**Accessoires**

Especially for our MIDI-poles we offer a „mini“ pole support tripod: Model no. 11900000.



**NESTLE prism pole, screw clamp, 130-215cm**

14004000



**Universal-prism pole PA-1-S**

- Our prism poles are very easy to use. Extend the prism pole to the desired height with one hand and use the other hand to fix it with the clamping screw.

Our prism poles set standards for durability:

- Inner and outer tube are resistant to any weather influences.
- The imprint is done with a scuff proof patent laser engraving.
- Shock absorbing inner tube - protects rod and prism.
- Tip made of aluminium with hard metal steel element. The Hard metal steel tip is force-fitted into the pole and shows no abrasion even after years of hard use.
- Included in the scope of delivery is an adaptor which aligns the prism tilt axis height (Leica, Sokkia, Zeiss) to the pole's graduation.

Just indicate the type of prism you use with your order.



**Application benefits**

- For construction and cadastral survey.



**Specifications NESTLE universal-prism pole**

Clamping	Screw clamping
Working range	130-215cm
Weight	800g
Adaptor	included



**Accessories**

We also offer bipods, pole support tripods and prisms.

- Bipod, model no. 14950000.
- Pole support tripod, model no. 11901000.
- Prism, model no. 14100000.
- Prism pole bag model no. 14944000 for PA-1-D (14005000); PA-3-D (14014000), PA-1-S (14004000).



**NESTLE prism pole, button clamp, 130-215cm****14005000, 14014000****Universal-prism pole PA-1-D, PA-3-D**

- Our prism poles are very easy to use. Extend the prism pole to the desired height with one hand and use the other hand to fix it with the clamping button.

Our prism poles set standards for durability:

- Inner and outer tube are resistant to any weather influences.
- The imprint is done with a scuff proof patent laser engraving.
- Tip made of high-grade steel.
- Included in the scope of delivery is an adaptor which aligns the prism tilt axis height (Leica, Sokkia, Zeiss) to the pole's graduation.

Just indicate the type of prism you use with your order.

**Application benefits**

- For construction and cadastral survey.

**Specifications****NESTLE universal-pole****PA-1-D, model no. 14005000**

Clamping	Button clamping
----------	-----------------

Working range	130-215cm
---------------	-----------

Weight	800g
--------	------

Adaptor	Included
---------	----------

**PA-3-D, model no. 14014000**

Adaptor	Leica/Wild fixed
---------	------------------

**Accessories**

The prism pole is available with fixed Leica / Wild adaptor and hard metal-Tip:

- Model no. 14014000.  
Prism pole bag model no. 14944000 for
- PA-1-D (14005000); PA-3-D (14014000), PA-1-S (14004000).



## NESTLE Robotic pole 260 PR-1

14032000



### Prism pole with carbon outer tube

- Carbon prism pole for surveying of all kinds in the construction and cadastre sector.
- Carbon outer tube. The carbon ensures a pleasant handling even at low temperatures.
- Tip made of hard metal.
- The scale is indestructible and written with a patented laser engraving.
- Inner tube shock-absorbing - protects prism and pole.
- With pin locking feature - to secure the pole when using heavy prisms or GNSS antennas (1.60m, 1.80m, 2.00m, 2.20m, 2.40m).
- Clamping effects on the entire circumference of the inner tube - the inner tube remains so exactly in the middle.
- Included in delivery is one adapter. This allows the scale offset to be adjusted to the tilt axis dimension of your prism. (Just indicate the type of prism you use with your order)
- For GNSS measurements you will optionally receive the adapter model no. 14934000. This will bring the scale offset to zero, as is usual with GNSS antennas.



### Application benefits

- Carbon for pleasant work, even at low temperatures.
- The additional pin locking feature keep heavy prisms or antenna exactly at the height.



### Specifications NESTLE carbon pole PR-1

Clamping	Screw clamping
Diameter	Outer tube 32mm, inner tube 25mm
Working range	150 - 260cm
Transport length	135cm
Weight	900g
Connection	Female M12 with one adapter
Special feature	5 Pin locking positions



### Accessories

- GNSS adaptor, model no. 14934000.
- Bag for carbon poles up to 143 cm, model no. 14977001.



**NESTLE Combi pole 350 PK-1****14031000****Double telescopic pole made of carbon**

- Prisms and antenna pole for surveying of all kinds in the construction and cadastral sector.
- Simplest operation: Set up the right height with one hand, clamp with the other hand.
- With a height of up to 3.50m, the pole is ideally suited for measurements in hilly areas or in built-up and heavily vegetated terrain.
- Inner tube shock-absorbing - Protects prism or antenna and pole.
- Included in delivery is one adapter. This allows the scale offset to be adjusted to the tilt axis dimension of your prism.
- For GNSS measurements there is the optionally adapter 14934000. This will bring the scale offset to zero, as is usual with GNSS antennas.

Just indicate the type of prism you use with your order.

**Application benefits**

- Carbon for pleasant work, even at low temperatures.
- Maximum working height 3.50m.

**Specifications****NESTLE carbon pole PK-1**

Clamping	Screw clamping
Diameter	Outer tube 32mm, inner tube 25/18mm
Working range	151 - 365cm
Transport length	138cm
Weight	1,300g
Connection	Female M12 with one adapter
Special feature	Double telescopic

**Accessories**

We also offer bipods, pole support tripods and prisms.

- Bipod, model no. 14950000.
- Pole support tripod, model no.11901000.
- Prism, model no.14100000.
- Bag for carbon poles up to 143 cm, Model no. 14977001.



## NESTLE Carbon GNSS pole

14028000, 14030000, 14041000



### Carbon GNSS pole, telescopic PG-2 & PG-5 & PG-9

- For all kinds of GNSS measurements.
- Carbon outer and inner tube - comfortable handling even at low temperatures.
- Tip made of hard metal steel.
- The pole is telescopic with locking at 1.60m, 1.80m, 2.00m.
- For ergonomic work, both poles have a outer tube with 132cm, so you can mount field computers in a comfortable working height.
- The screwable sand plate prevents the sinking of the pole during surveying and stakeouts. Can be used for exact centering e.g. be screwed upside down to the tip.
- PG-2 model no. 14028000 without screwable sand plate.
- PG-5 model no. 14030000 with screwable sand plate.
- PG-9, Model no. 14041000 without screwable sand plate, with quick-out.

### Application benefits

- Carbon for pleasant work, even at low temperatures.
- The tip does not wear out - thus no falsification of the measurements by blunt tips.
- Long outer tube for ergonomic work.
- Convenient to transport and clean.

### Specifications Carbon-GNSS-pole PG-2, PG-5 & PG-9

Clamping	Screw
Diameter	Outer tube 32mm, inner tube 25mm
Working range	Locking at 1.60m / 1.80m / 2.00m
Transport length	134cm
Weight	PG-2 = 700g; PG-5 = 730g; PG-9 = 750g
Connection	5/8"
Special feature	Carbon-carbon, telescopic, triple locking latch

### Accessories

We also offer for GNSS survey:

- A large number of field computer holder. See page 164.
- Bag model no. 14977001 for carbon prism poles to 143 cm.



**NESTLE Carbon GNSS pole, PS-9****14023000****Light, narrow antenna pole for surveying**

- Due to its particularly low weight PS-9 is suitable for GIS application, but also for all other measurements with lightweight antennas.
- Outer tube Ø 25mm, and inner tube Ø 20mm are made of carbon.
- With a quick release, the pole can be telescoped easily and quickly.
- The upper 5/8" connection can be quickly removed from the rod with a push-button (Quick-out), so a particularly flexible and fast work is possible.

**Application benefits**

- Carbon for pleasant work, even at low temperatures.
- Quick-out with 5/8" .
- Light and narrow.
- Excellent for applications in the GIS area.

**Specifications** **Carbon GNSS pole PS-9**

Clamping	Quick release clamp
Diameter	Outer tube 25mm, inner tube 20mm
Working range	115cm - 200cm
Transport length	117cm
Graduation	160, 180, 200cm
Weight	480g
Connection	5/8" with Quick-out
Special feature	Light, narrow, Quick-out

**Accessories**

Please also note our two-part and telescopic antenna poles.



## NESTLE GNSS pole

14010000, ...11000, ...17000



### Carbon GNSS pole

- The two-piece GNSS pole is ideal whenever many measurements are needed for a survey job.
- Because of its amazingly low weight, the pole - even with an antenna fixed to it - requires low effort to be carried.
- The lower part of the pole is equipped with a circular level which makes vertical positioning easy.
- The hard metal-steel tip is force-fitted into the pole and shows no abrasion even after years of hard use.
- The carbon offers convenient handling - even at low temperatures.
- The pole can be split in two segments. This makes space saving transport easy. A carrying bag is included in the scope of delivery.
- When required, the pole can be lengthened meter-wise by additional upper segments.
- Version 14017000 with scale in the foot area up to 60cm. On the foot-scale, the sinking depth of the pole can be read quickly when measuring in soft ground and be corrected accordingly.

**PP-2, model no. 14010000**, two-segment GNSS pole.

**PP-2-H, model no. 14011000**, two-segment GNSS pole with cable guide holes.

**PP-2-F, model no. 14017000**, two-segment GNSS pole with foot-scale.

### Application benefits

- Easy handling.
- Low effort by low weight.
- The hard metal-tip has no abrasion - no falsification of measurement by dulled tips.

### Specifications

### NESTLE GNSS pole

Pole diameter	32mm
Height	200cm ( 2 x 1.00m)
Weight	520g
Connection	5/8"

### Accessories

In the version 14011000 has the upper segment two cable guiding holes with rubber sleeves to accommodate the antenna cable.



**NESTLE Carbon GNSS pole, PO-9****14033001****Carbon GNSS pole PO-9 for all GNSS application**

- The carbon GNSS pole PO-9 is telescopic and has only a locking at 2m. Due to the clear, lockable height, height errors are avoided and thanks to the telescoping capability, the pole is ready for use quickly and can be easily transported.
- With a quick release, the pole can be easily and quickly extended.
- The GNSS antenna can be quickly and safely separated from the pole with the quickout adapter Qo-9 (inclusive), so a particularly flexible and fast working is possible.

**Application benefits**

- Carbon for pleasant work, even at low temperatures.
- Quick-out for antenna with 5/8" .
- Only one locking at 2m.
- Excellent for GNSS surveys.

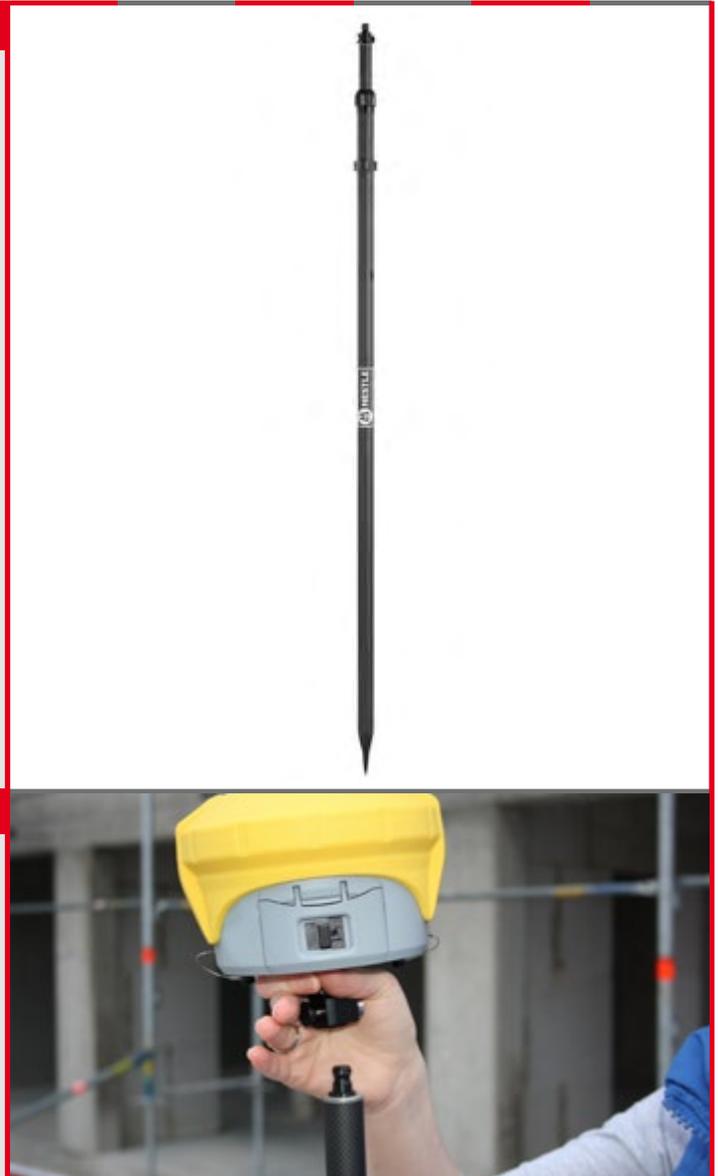
**Specifications****NESTLE Carbon GNSS pole PO-9**

Clamping	Quick release clamp
Vial	20'
Diameter	Outer tube 32mm, inner tube 25mm
Working range	Locking only at 200cm
Transportation length	136cm
Weight	750g
Connection	5/8" with Quick-out Qo-9
Special feature	Carbon-Carbon, Quick-out

**Accessories**

Please also note our two-part and telescopic antenna poles.

- Bag for carbon poles up to 143cm, model no. 14977001.
- Quick-out Adapter Qo-9 - single, model no. 14978000.



## NESTLE Carbon GNSS pole, PT-9

14034000



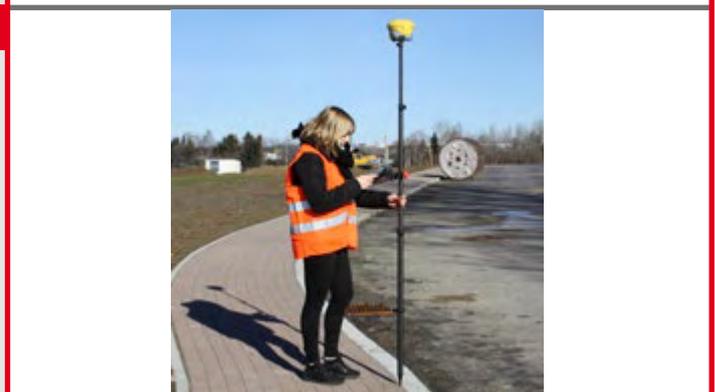
### For all GNSS application - especially short transport length

- The carbon GNSS PT-9 pole has a working height of two meters and a double telescoping means a transport length of only one meter.
- The working height of two meters is achieved by the inner tube is extended to grid position and the head tube to the stop with height control mark.
- With two closures, the pole can be moved in and out easily and quickly.
- The GNSS antenna can be quickly and safely separated from the rod with the quickout adapter Qo-9 (inclusive), so a particularly flexible and fast working is possible.



### Application benefits

- Carbon for pleasant work, even at low temperatures.
- Quick-out for antenna with 5/8" .
- Especially short transport length.



### Specifications NESTLE Carbon GNSS pole PT-9

Clamping	1 x quick clamping, 1 x screw clamp
Vial	20'
Diameter	Outer tube 32mm, inner tube 26mm head tube 20mm
Working range, max.	2m
Transportation length	1m
Weight	700g
Connection	5/8" with Quick-out Qo-9
Special feature	Carbon, Quick-out, short transport length



### Accessories

Please also note our two-part and telescopic antenna poles.

- Quick-out Adapter Qo-9 single – model no. 14978000.



## NESTLE GNSS-pole accessories



### Tip with tungsten carbide pin - version screwable tip

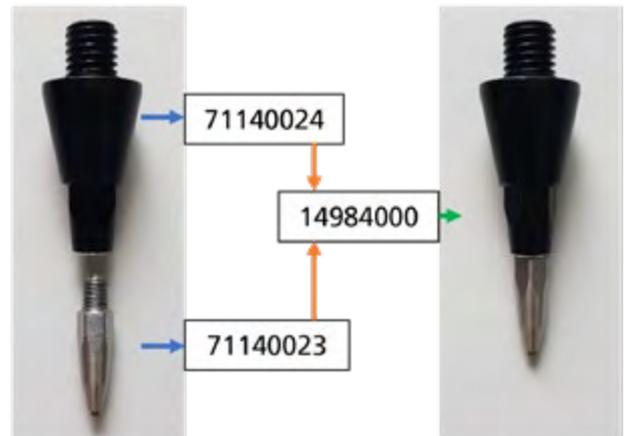
**Model no. 14980001** consists of:

- 71140023 end tip with carbide pin
- 71140024 tip 5/8" with mounting M8

71140023 + 71140024 are available as spare parts, so a worn carbide pin can be easily and quickly replaced.

14984000 can replace the standard tip on the following bars:

- model no. 14010000 PP-2
- model no. 14011000 PP-2-H
- model no. 14028000 PG-2
- model no. 14030000 PG-5
- model no. 14031000 PK-1
- model no. 14032000 PR-1
- model no. 14033001 PO-9
- model no. 14034000 PT-9



Only as an accessory and for self-assembly!

### C-Clamp with vial 20'

- Using e.g. as replacement or additional level on prism or GNSS poles.

**Model no. 14983000**



### Sticker Hatching Beacon orange / white

- To increase visibility, especially of carbon poles
- Suitable for poles D = 32mm (set of 2), each 10 x 18 cm
- Screen printing, strong adhesive, 4-color printed
- Weather-resistant / non-fading
- Available only as an accessory to self-assembly, with brief instructions

**Model no. 14980001**



### Accessories

Only use original Gottlieb Nestle products for all of your surveying tasks. See the next few pages:

- pole-extensions,
- prism adapter,
- bipods and
- Controller holder systems, for ergonomic work with prism and GNSS poles



## NESTLE extensions for prism poles

14900000,..1000,..2000,..3000



### Extension 0,1m / 0,3m / 0,5m / 1,0m

- For measurements of all kinds in construction and cadastral areas, in order to overcome large height offsets in construction or in field measurements.
- For extending NESTLE prism poles.
- Simply screw or plug it on the pole.
- Made of lightweight aluminum, PE-410 and PE-510 made of carbon.



### Application benefits

- With the extensions you increase your flexibility at all kinds of surveying tasks.
- Easiest application with higher precision.
- Available in different lengths.
- For construction and cadastral survey, when extending the pole is needed due to obstacles or height differences.



### Specifications

### Extensions

PE-210 model no. 14902000	100cm, 5/8" - 5/8"
PE-310 model no. 14903000	100cm, Leica - Leica
PE-225 model no. 14900000	50cm, 5/8" - 5/8"
PE-235 model no. 14901000 50 cm, Leica - Leica	50cm, Leica - Leica
PE-23 model no. 14941000 30 cm, 5/8" - 5/8"	30cm, 5/8" - 5/8"
PE-33 model no. 14942000	30cm, Leica - Leica
PE-21 model no. 14939000	10cm, 5/8" - 5/8"
PE-31 model no. 14940000	10cm, Leica - Leica
PE-410 model no. 14982000	100cm, 5/8" - 5/8", Carbon
PE-510 model no. 14983000	100cm, Leica - Leica, Carbon



### Accessories

We also offer bipods, pole support tripods and prisms.

- Bipod, model no. 14950000.
- Pole support tripod, model no. 11901000.
- Prism, model no. 14100000.



# Products | prism pole accessories

<p>One prism adapter is included in the scope of delivery of NESTLE prism poles (PA-1-S, PA-1-D, PR-1, PK-1). Choose from the following list your prism adapter and include it in your order.</p> <p>Prisms names are given as examples for the adapters – may also fit to other types.</p>	 <p>o=overhead u=underneath</p>	<p>Universal adapter Leica-PIN to 5/8"</p> 
<p>L [mm], Type underneath – Type overhead Tilt axis K = [mm]</p>		<p>L = 30 mm, u = Pin – o=5/8" K = -, <b>Model no. 14920000</b></p>
<p>Nestle: 14100000, 14103000 Geomax: ZPR1, ZPR100, GRZ122 Leica: GPR, GPH, GRZ4, GRZ122</p> 	<p>NESTLE: 14104000, Zeiss: KTR, OMNI 1200/9125</p> 	<p>Glunz: GRH1150/1160, OMNI 1225</p> 
<p>L = 40 mm, u = M12 – o = Pin K = 86 mm <b>Model no. 14924000</b></p>	<p>L = 40 mm, u = M12 – o = 5/8" K = 100 mm <b>Model no. 14925000</b></p>	<p>L = 25 mm, u = M12 – o = 5/8" K = 115 mm <b>Model no. 14926000</b></p>
<p>Topcon - different models with tilting axis 78 mm</p> 	<p>Topcon - different models with tilting axis 125 mm</p> 	<p>Geodimeter prism 600</p> 
<p>L = 62 mm, u = M12 – o = 5/8" K = 78 mm <b>Model no. 14930000</b></p>	<p>L = 15 mm, u = M12 – o = 5/8" K = 125 mm <b>Model no. 14931000</b></p>	<p>L = 6 mm, u = M12 – o = 5/8" K = 134 mm <b>Model no. 14932000</b></p>
<p>Trimble: Multitrack-Target</p> 	<p>Adapter NESTLE prism poles with M12 to Nestle scan spheres (14200000)</p> 	<p>Adapter Leica-PIN to Nestle scan spheres (14200000)</p> 
<p>L = 5 mm, u = M12 - o = 5/8" K = 135 mm <b>Model no. 14981000</b></p>	<p>L = 67,5 mm, u = M12 – o = M8 for NESTLE scan sphere <b>Model no. 14209000</b></p>	<p><b>Model no. 14210000</b></p>

# Products | prism pole accessories

<p>Universal adapter 5/8" inside to Leica-PIN</p> 	<p>NESTLE: 14101000, 29304000, Geomax: ZMP101 Leica: GMP</p> 	<p>Universal adapter for 5/8" inside</p> 
<p>L = 18 mm, u = 5/8" - o = Zapfen K = -, <b>Model no. 14921000</b></p>	<p>L = 90 mm, u = M12 - o = 1/4" K = 50 mm, Miniprism <b>Model no. 14922000</b></p>	<p>L = 18 mm, u = M12 - o = 5/8" K = - <b>Model no. 14923000</b></p>
<p>Nikon - different models with tilt axis 110 mm</p> 	<p>Sokkia: Pyramid tilt axis 82 mm</p> 	<p>NESTLE 14102000 Sokkia: AP-series</p> 
<p>L = 30 mm, u = M12 - o = 5/8" K = 110 mm <b>Model no. 14927000</b></p>	<p>L = 58 mm, u = M12 - o = 5/8" K = 82 mm <b>Model no. 14928000</b></p>	<p>L = 43 mm, u = M12 - o = 5/8" K = 97 mm <b>Model no. 14929000</b></p>
<p>Universal adapter - height adjustable</p> 	<p>Adapter 5/8" - 5/8"</p> 	<p>Topcon: ATP1</p> 
<p>L = -- mm, u = M12 - o = 5/8" K = -- <b>Model no. 14933000</b></p>	<p><b>Model no. 14955000</b> L = 50 <b>Model no. 14937000</b> L = 27 <b>Model no. 14939000</b> L = 100</p>	<p>L = 90 mm, u = M12 - o = 5/8" K = 50 mm <b>Model no. 14946000</b></p>
<p>If you would like to use your prism pole as a GNSS pole, use the GNSS adapter. This will reduce the scale offset to zero - as usual with GNSS antennas. The GNSS adapters are never included in the scope of delivery of a pole, and must always be ordered separately.</p>	<p>GNSS-Adapter 14 cm - optional for NESTLE PA-1-S, PA-1-D, PR-1, PK-1</p> 	<p>GNSS-Adapter 10 cm - optional for NESTLE PA-3-D</p> 
	<p>L = 140 mm, u = M12 - o = 5/8" K = 0 mm (GPS) <b>Model no. 14934000</b></p>	<p>L = 100 mm, u = Zapfen - o = 5/8" K = --- <b>Model no. 14935000</b></p>

**NESTLE Bipod****14950000, 14976000****Light, narrow antenna pole for surveying**

- For exact positioning and alignment of all prism and antenna poles, use a bipod. For precise measurements, even in rough terrain.
- The legs can be adjusted by the push buttons smoothly lengthwise to the terrain.

Choose from two versions:

**Model no. 14950000 NESTLE bipod P2-D**

- The legs can be infinitely adjusted in length with snaps adjusted to the terrain using push buttons. "Made in Germany" from high-quality processed aluminum tube. The rounded claws of the clamp are ideal for carbon poles due to the best pressure distribution on the pole. For poles diameters of 20-35 mm.

**Model no. 14976000 Thumb-Release bipod P2-T**

- The leg brakes are unlocked with thumb pressure and can thus be continuously adjusted in length to the terrain. Stable basic version for rod diameters of 25-32 mm

**Application benefits**

- Optimal for carbon poles due to rounded clamping claws
- For pole's up to 35mm tube diameter

**Specifications****NESTLE Bipod**

	<b>14950000</b>	<b>14976000</b>
Length	97 - 168cm	106 - 180cm
Clamping	Push-button	Thumb-Release
Clamp able pole diameter	20-35mm	25-32mm
Material	Aluminium	Metal
Weight	1,400g	2,400g



14950000

14976000

**Accessories****Tip with screwable topo shoe, model no. 14956000**

- Can be used for all carbon poles with removable tip.
- Advantage: sand plate is always there, without being lost.
- Stand base Ø 60mm.
- Weight 95g.



## NESTLE Mini bipod

1496000



### Placing aid for poles

- During setting up of measurement points of the antenna or prism pole must often be placed out of hand. But where to put it on construction sites or in damp and muddy ground? The rugged and lightweight mini bipod is ideal for secure placing your rod.
- Protects the prism, the antenna and the field computer against dirt and damage on difficult ground.
- With the mini bipod your pole also receives secure footing when leaning against a wall.
- The mini bipod is very easy, simple and flexible to assemble.



### Application benefits

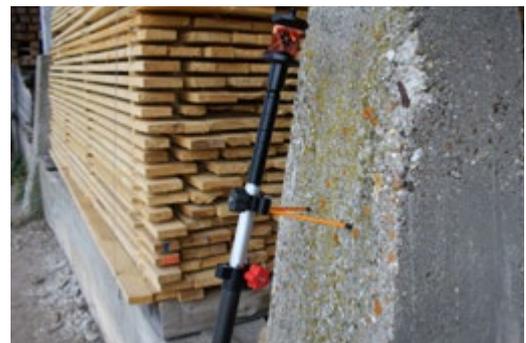
- Clamping screw for prism and antenna poles with diameter 22 - 32mm
- Rapid and flexible installation.
- Specifically suitable for carbon rods.
- Rubberized leg ends - no scratch and slip away from delicate surfaces such as glass.



### Specifications

#### Mini bipod

Varnish	Orange
Weight	155g
Length per strut	14cm
Total length	18.7cm



### Accessories

#### Pole topo shoe, model no. 14919000

- Prevents the sinking of the tip in soft ground.
- This gives more accuracy to the all point heights.
- Stand base Ø 65mm.
- Weight 130g.



**NESTLE prism pole and GNSS accessories**

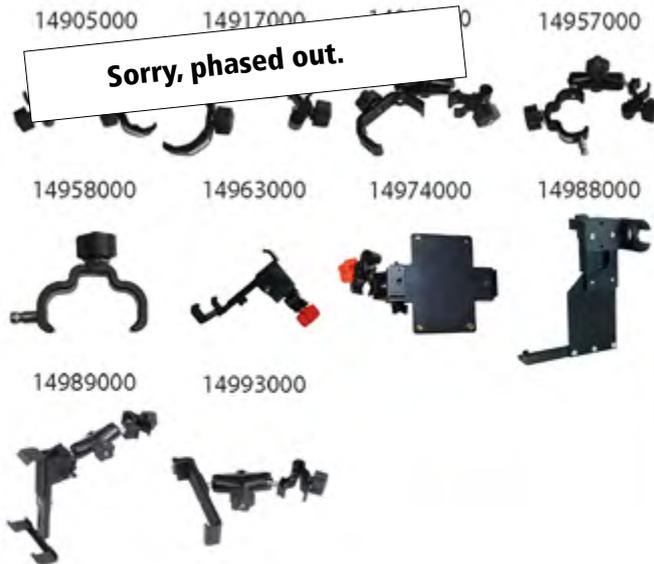
14905000 ...



**Holder for array processor and GNSS accessories**

- Model no. 14905000: ... processor FC-25/SHC 25  
**Sorry, phased out.**
- Model no. 14918000: pole bracket for GRS-1/GMS-2
- Model no. 14957000: mount complete for FC-500
- Model no. 14958000: holder FC-500
- Model no. 14963000: holder with clamp for Panasonic Toughbook FZ-M1, FZ-B2, even when used with battery pack FZ-VZSU95W
- Model no. 14974000: computer holder for Mesa 2
- Model no. 14988000: computer holder for Panasonic FZ-B2, FZ-M1
- Model no. 14989000: computer holder LA MAXE
- Model no. 14993000: mount complete for Zenius800 / Zeno Tab2 / CT 8

Weight: Depending on the type 150 - 450g



**Rod clamps and levels**

- Model no. 14916000: bubble level for poles Ø 32mm.
- Model no. 14947000: pole bracket with compass with pin connector.
- Model no. 14965000: pole bracket with compass with ball connector.



**Specification**

**Tripod mount complete 360°**

14964000	Controller holder 360° for tripod, with ball connector
14970000	Controller holder 360° for tripod, with pin connector
Weight	Depending on the type 400 - 700g

14964000



**Special bracket**

- Pole holder for tripod leg, model no. 14961000.

14959000



14961000



## NESTLE Holder system H2C

14966000, 14964021



### Holder system H2C for field controller

- The H2C holding system is used for stable attachment of field controllers to prism or GNSS antenna poles, or to tripods.
- As the number of field controller types is constantly increasing or older ones are disappearing from the market, we have developed the two-part H2C holder system.
- The H2C holding system consists of a base holder and a controller carrier. In this way, different controller carriers can be connected to the same base holder.
- A base holder for poles 14966000 and a base holder for tripod heads 14964021 are available.
- The base holder 14966000 distributed through the integrated double-C clamp, those clamping distributes the pressure evenly and is therefore ideally suited for all carbon poles. This base holder is equipped with a compass for easy orientation when setting out.
- Both base holders can hold all controller supports of the H2C series.
- The controller supports of the H2C series are individual for different controller types designed and always match the base holder of the H2C series.
- For the connection, the controller support is hooked into the base holder and secured with a clamping screw. The field controller's viewing angle can be set individually thanks to the toothed washer coupling between the base holder and the controller support.

### Advantages in use:

- One base holder for all controller carriers.
- Base holder for poles with double C-clamp for the best pressure distribution, especially with carbon poles.
- Base holder for tripod heads with rotary plate 360°.
- Different controller supports always fit on both base holders.

### Specification

Base Holder	14966000	14964021
Base to connect to	Poles with Ø 22 to 32mm	Tripods with triangled head
Base holder weight	250g	1,700g
Clamping	Double C with screw	
<b>Controller carrier</b>		
Weight	depending on type	
Clamping of controller	depending on type	
Connection to base holder	Clamping screw with toothed disc coupling	
<b>Controller carrier model nos.</b>		
14985000	controller type	
14986000	Samsung Galaxy Tab2 and Tab3 7"	
14987000	Mesa2, Mesa3	
14988000	Zenius 800, Zeno Tab2, CT8	
14988000	Panasonic FZ-B2, FZ-M1	
14991001	Samsung Galaxy TAB Active Pro 10"	



## NESTLE Holder system H2C



### Model no. 14964021

Base holder H2C tripod head



### Model no. 14966000

Base holder H2C pole version with compass



### Model no. 14987000

Controller holder

- Zenius 800
- Zeno Tab 2
- CT8

Base holder H2C is needed



### Model no. 14986000

Controller holder Mesa2/3

Base holder H2C is needed



### Model no. 14985000

Controller holder Active Tab2

Base holder H2C is needed



### Model no. 14988000

Controller holder Panasonic FZ-B2/M1

Base holder H2C is needed



# Products | Prisms + Scan Sphere



**Prisms**  
page 168



**Scan sphere**  
page 169



## Survey prisms

**Prism Leica Style GPR-1-Type 14100000:**

- Housing made of shockproof polycarbonate.
- Wild-Leica-connection.
- Metal target plate for easy and quick sighting.
- Delivery including transport bag.

**Prism 14101000:** connection 1/4".

- Mini-prism-set.
- Ideal for batter boards works.
- Incl. tip and four-piece rod in bag.

**Universal prism 14102000:** connection 5/8".

- Solid metal frame.
- Frame in bright orange colour for easy sighting.
- Delivery including transport bag.

**Prism 1410300:** Wild-Leica-connection /**Prism 14104000:** connection 5/8".

- Metal frame, powder-coated.

**Reflective target 40 x 40;** model no. **14105001**

- Yellow, adhesive-backed, average target distance 90m (depending on instrument), packaging unit: 20 pieces.

## Application benefits

- The frame with bright yellow visor aids or frame in bright orange and white arrows are ideal for targeting of the prisms in reduced visibility (prisms 14100000, 14102000).
- The prism-set 14101000 is ideal for alignment stage. With the 4-segment bar even simple survey work is not a problem.

## Specifications

## Prisms

<b>GPR1-type, target plate above prism</b>	Model no. 14100000
Offset / connection / Weight	-34mm / Leica / Wild / 350g
<b>Mini-prism-set</b>	Model no. 14101000
Offset / connection / weight	0-30mm / 1/4" / 130g
<b>Prism with target plate orange</b>	Model no. 14102000
Offset / connection / weight	0-30mm / 5/8" / 500g
<b>GPR1- SE, metal frame</b>	Model no. 14103000
Offset / connection / weight	-34 mm / Wild-Leica / 730g
<b>KTR1- SE, metal frame</b>	Model no. 14104000
Offset / connection / weight	-34 mm / 5/8" / 730g
<b>Reflective target 40 x 40</b>	Model no. 14105001
Dimension	40 x 40mm
Packing unit	20 pieces

## Accessories

- The prisms 14100000 and 14102000 are supplied with a handy travel bag.
- The Mini-prism-set comes complete with tip and 4 rod segments in a bag.



14105001



14101000



## NESTLE Scan sphere

1420000



### Reference sphere for laser scanning

- The NESTLE scan sphere is a reference for all scanning work.
- Perfect to put together several scans.
- The spherical shape allows an optimum capture from all directions and has proved itself as a laserscanning-target.
- The scan sphere is made of plastic with a mat textured paint specifically for optimum reflection properties.
- Inclusive removable magnetic base (thread M8).



### Application benefits

- Washable.
- Suitably for dishwasher.
- Shock proof.
- Scan sphere set, 6 pcs. with magnet and carrying bag, model no. 14206000.
- Scan sphere set, 6 pcs. with magnet and carrying case, model no. 14207000.



14204000



14205000



14207000



14206000

### Specifications

#### NESTLE scan sphere

Diameter	Ø 145mm; (5.7")
Weight	250g
Sphericity	0.3mm at 20°C
Accuracy radius.	± 0.15mm at 20°C



### Accessories

- Carrying case for 6 scan spheres, model no. 14204000.
- Carrying bag for 6 scan spheres, model no. 14205000.
- Adaptor for scan sphere / NESTLE range pole, model no. 14209000.
- Pole with metal cap, model no. 14201000.
- Traffic cone with metal plate, model no. 14202000.
- Ranging pole support, model no. 11903000.
- Mini Tripod, model no. 14203000.



14202000

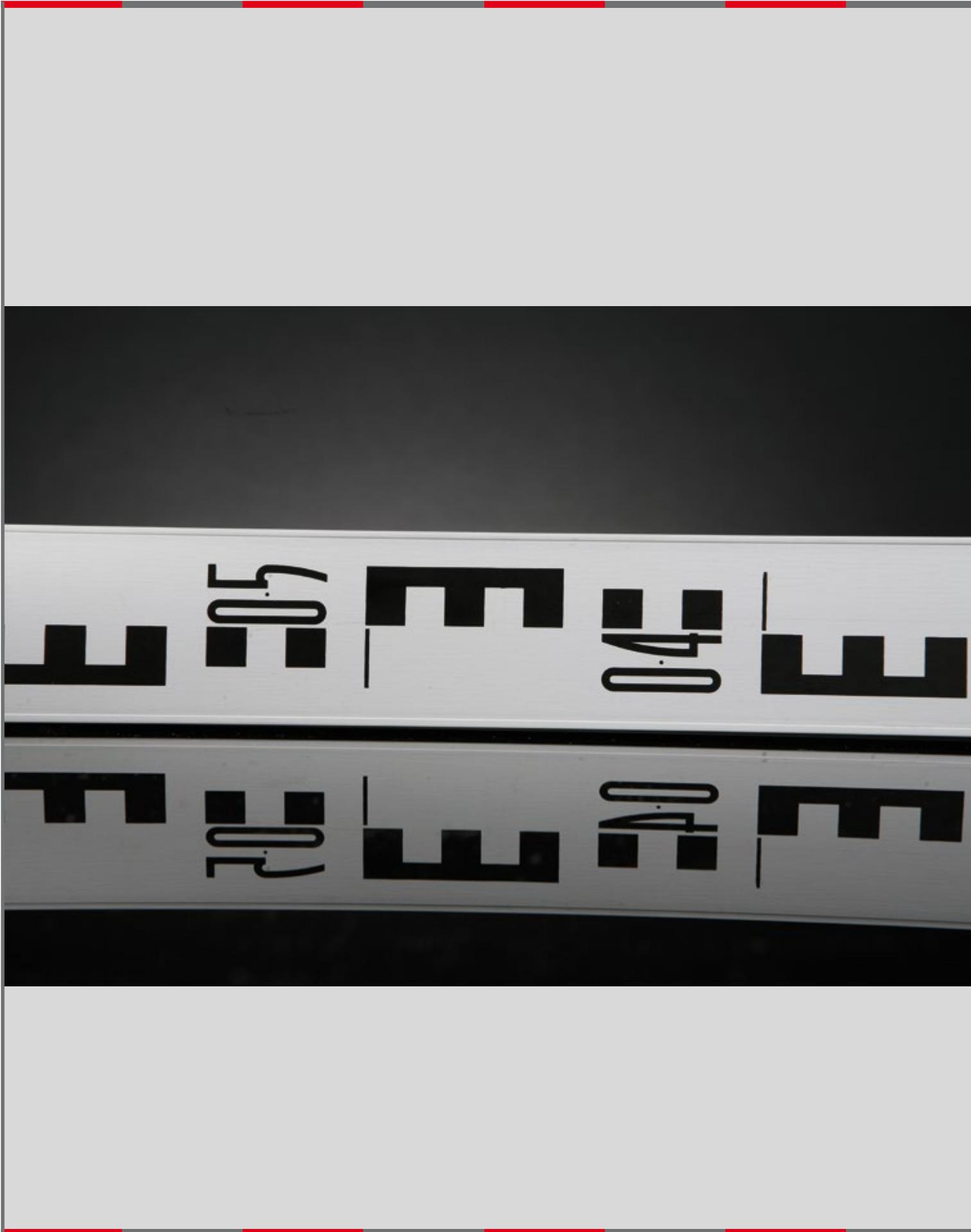


14201000



14203000

# Products | **Levelling staffs**



# Products | **Levelling staffs**



Telescopic levelling staffs  
page 172



Telescopic laser levelling staffs  
page 173



Folding levelling rod  
page 174



Levelling staff accessories  
page 175



Tripod adaptor  
for levelling staffs  
page 176

## NESTLE Levelling staffs

1820000....



### Telescopic levelling staffs

- All staffs are delivered with bag and bubble.
- Telescopic extendable staffs, short transport size and low weight make the staffs comfortable to handle.
- E-graduation on the frontside with alternately red and black print.
- Backside with mm-graduation for measuring clear heights. Simply extend the segments, the result can be read at the junction to the next segment.
- Models 18200000 and 18206000 with continuous mm-graduation on the backside beginning with 0 at the staff's bottom.
- Model 18208000 made of glass fibre including carrying bag. Glass fibre is non-conducting, so working near power lines is possible.
- The telescopic levelling staffs are sturdy and meet the requirements of daily use on the jobsite perfectly.
- The imprint is protected by projected profile edges.
- Solid push-button mechanism for secure locking of the telescopic segments.
- The segments slide easily without jamming.



### Application benefits

- Easy handling.
- Easy and space-saving transport.
- Bubble available separately, model no. 18912000.



### Specifications

#### Telescopic levelling staffs

1.24m - 5.00m, 1,700g	Model no. 18200000 / backs. mm starting with 0
1.21m - 3.00m, 1,500g	Model no. 18201000
1.22m - 4.00m, 1,600g	Model no. 18202000
1.22m - 4.00m, 1,600g	Model no. 18209000 / backs. mm starting with 0
1.24m - 5.00m, 1,700g	Model no. 18203000
1.68m - 7.00m, 2,500g	Model no. 18205000
1.68m - 7.00m, 2,500g	Model no. 18206000 / backs. mm starting with 0
1.45m - 7.00m, 2,100g	Model no. 18208000 / glass fibre
1.24m - 5.00m, 1,900g	Model no. 18210000 / mm + E-graduation both on front



### Accessories

Nestle levelling set bag, model no. 15905000.  
For easy transport of levelling set to construction side and tidy up storage.



## NESTLE Telescopic laser levelling staffs

18204000



### Telescopic laser levelling staffs

- Model 18204000 with continuous mm-graduation on the frontside starting with 0 at the bottom. When working with rotating lasers, the receiver can be clamped to the staff. The mm-graduation allows for exact height reading.
- Backside with mm-graduation for measuring clear heights. Simply extend the segments, the result can be read at the junction to the next segment.
- Telescopic extendable staffs, short transport size and low weight make the staffs comfortable to handle.
- The telescopic levelling staffs are sturdy and meet the requirements of daily use on the jobsite perfectly.
- The imprint is protected by projected profile edges.
- Solid push-button mechanism for secure locking of the telescopic segments.
- The segments slide easily without jamming.



### Application benefits

- For levelling and laser applications.



### Specifications

1.24m - 5.00m, 1,700g

### Telescopic levelling staffs

Model no. 18204000



### Accessories

For working with our levelling staffs we also offer:

- Bag for models 3-5m, model no. 18913000.
- Bubble level, model no. 18911000.



**NESTLE Folding levelling rod**

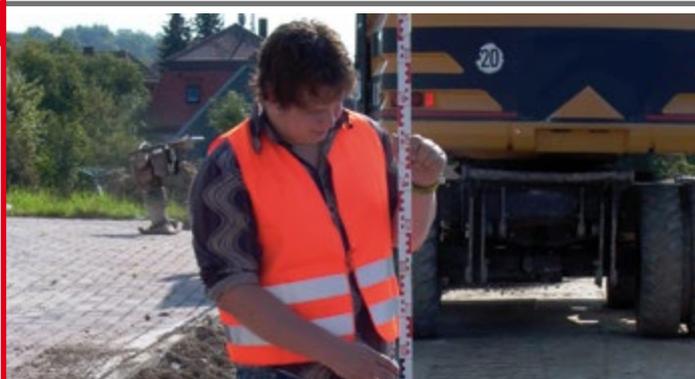
18507000....

**For measuring and levelling**

- The surveyor levelling rod's combine the function of a levelling staff with a common folding rule.
- Made of wood, strong spring mechanism.
- Front-side with E-graduation, alternately 1m red and black.
- Backside with mm- graduation.

**Application benefits**

The folding levelling rods combine the characteristics of levelling staffs and folding meters. Space-saving transport in any vehicle.

**Specifications****Folding levelling rod****Folding levelling rod**

2.00m, 38cm folded, 300g	Model no. 18507000
3.00m, 38cm folded, 800g	Model no. 18508000
3.00m, 54cm folded, 900g	Model no. 18509000
4.00m, 54cm folded, 1,100g	Model no. 18510000

**Folding meters**

Wood, 3.00m, 900g	Model no. 18512000
Wood, 4.00m, 1,100g	Model no. 18513000
Wood, 5.00m, 2,300g	Model no. 18514000

**Accessories**

We also offer wooden folding meters with mm-graduation on both sides.



**NESTLE Levelling staff accessoires**

11911000....



**Accessories for levelling**

- Staff level, metal, adjustable, circular bubble level. To be screwed, pinned or handheld to the levelling staff for perpendicular positioning.
- Staff level, metal, non-adjustable.
- Base plate levelling support. Grey cast iron, orange. With wrist strap.



**Application benefits**

Accessories for levelling staffs for construction and levelling survey.



**Specifications Levelling staff accessories**

Staff level, metal, 100g	Model no. 11911000, adjustable
Staff level, metal, 50g	Model no. 11912000, not adjustable
Base plate without tips, 2,860g	Model no. 18900000
V-Head, 320g	Model no. 18914000



**V-Head 18914000**

For measuring inclinations and unevenness in combination with a jointing rule. For tiling and floor covering.

- Measuring range 27mm.
- Graduation mm.
- Weight 320g.
- Dimensions 400 x 11 x 35mm.
- Made of aluminium, wooden handle.



**Tripod adaptor for levelling staffs**

13901000

**Adaptor for levelling staffs**

- The innovative solution for one-man levelling.
- For fixing the levelling staff to the tripod.
- The perfect solution when the staff has to be positioned safely on a measuring point.

**Application benefits**

For one-man levelling - especially when your assistant has a day off again.

**Specifications****Tripod adaptor for levelling staffs**

Thread	5/8"
Holder	For staff width 75mm maximum
Weight	300g

**Accessories**

NESTLE offers everything you need for levelling:

- Automatic levels.
- Tripods.
- Levelling staffs.



# Products | Ranging poles



NESTLE- ranging poles  
wood  
page 178



NESTLE- ranging poles  
steel  
page 179



Wood, 3-splices, round,  
triangular



Triangular poles,  
wood



Wood, tubular tip,  
round, triangular



Steel, tubular tip,  
round



Steel, jointable,  
round

## NESTLE ranging poles

11001000....



### Wooden ranging poles

- All ranging poles are **"Made in Germany"**.
- The ranging poles are fitted with a solid steel tip which is required in survey work.
- We only use high class wood (Ø 28mm) for manufacturing our ranging poles.
- PVC-coated.
- For various applications our ranging poles are available with different tips.
- Round tips for grassy, sandy or forest soil.
- Triangular tips for stony ground.
- Ranging poles with special triangle design can be easily transported in bundles of 6 pcs.
- Ranging poles are available in normal red or daylight luminous red. Luminous red is especially for field survey, because it is better visible.



### Application benefits

For aligning and marking.

Ranging poles are indispensable accessory for any kind of survey work e.g. for marking boundary stones in order to find the optimal position for placing the total station.



### Specifications

#### Ranging poles, wood

Ranging poles	Packing unit 12 pcs
2.00m, tubular tip, round, r/w	Model no. 11001000
2.00m, round tip, 3-splices plate, r/w w/r	Model no. 11003000
2.00m, triang. tip, 3-splices plate, r/w w/r	Model no. 11004000
2.16m, 3-splices plate, round tip, fluorescent red, r/w w/r	Model no. 11005000
2.16m, 3-splices plate, tubular tip, fluorescent red, r/w w/r	Model no. 11006000
–	
Triangular poles	6 poles = 1 set / Packing unit 2 sets
2.00m, round tip, 3-splices plate	Model no. 11007000



### Accessories

For quick setting out points with ranging poles we offer a wide variety of measuring tapes.



**NESTLE ranging poles**

**11100000, 11101000, 11102000**



**Steel ranging poles, various types**

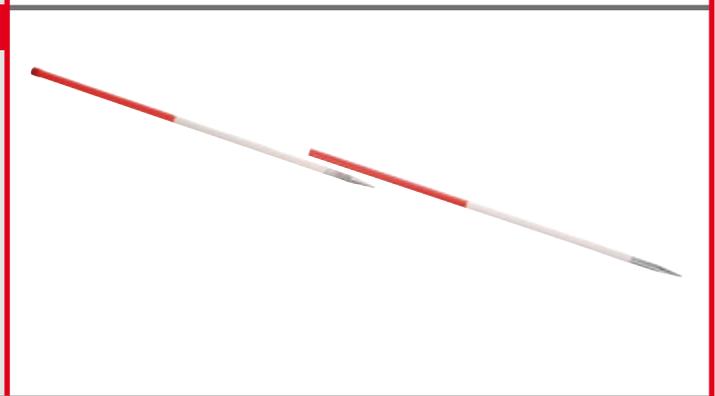
- Steel ranging poles, also jointable versions available.
- All ranging poles are **"Made in Germany"**.
- The ranging poles are fitted with a solid steel tip which is required in survey work.
- We only use high class steel (Ø 27mm) for manufacturing our ranging poles.
- PVC-coated.
- For various applications our ranging poles are available with different tips.
- Round tips for grassy, sandy or forest soil.
- Triangular tips for stony ground.
- The jointable ranging poles allow for space-saving transport. Also, the two segments, each with a steel tip, are highly useful when many points have to be marked.



**Application benefits**

For aligning and marking.

Ranging poles are indispensable accessory for any kind of survey work e.g. for marking boundary stones in order to find the optimal position for placing the total station.



**Specifications**

**Ranging poles, steel**

Jointable poles	2 tips / Packing unit 12 pcs.
Normal red, 2.16m, round tubular tip	Model no. 11102000
One-piece poles	Packing unit 12 pcs.
Normal red, 2.00m, round tubular tip, r/w	Model no. 11101000
Normal red, 2.00m, round tubular tip, r/w w/r	Model no. 11100000



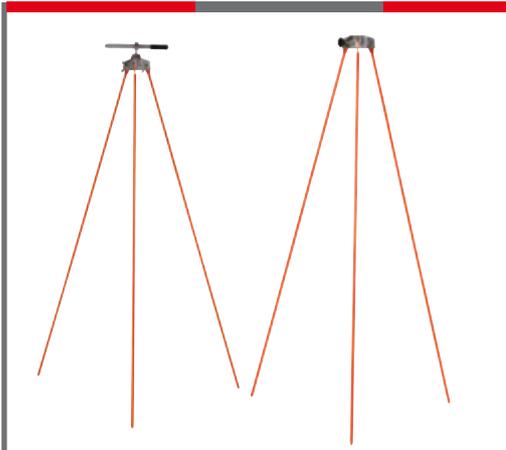
**Accessories**

Especially for our jointable poles we offer carrying bags:

- Bag for 12 x 1m segments, model no. 11906000.



## Products | Ranging pole accessories



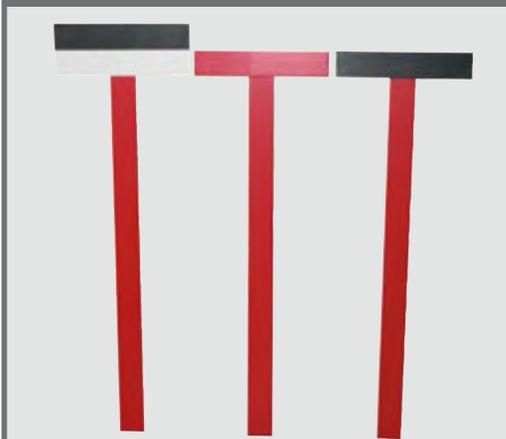
Ranging pole supports,  
light version  
page 181



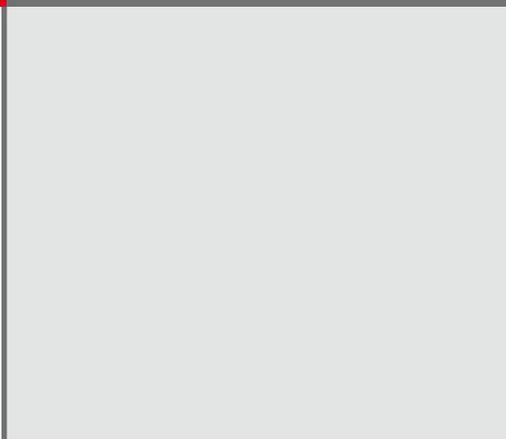
Ranging pole supports,  
heavy duty  
page 182



Ranging pole bag  
page 183



Boning rods  
page 184



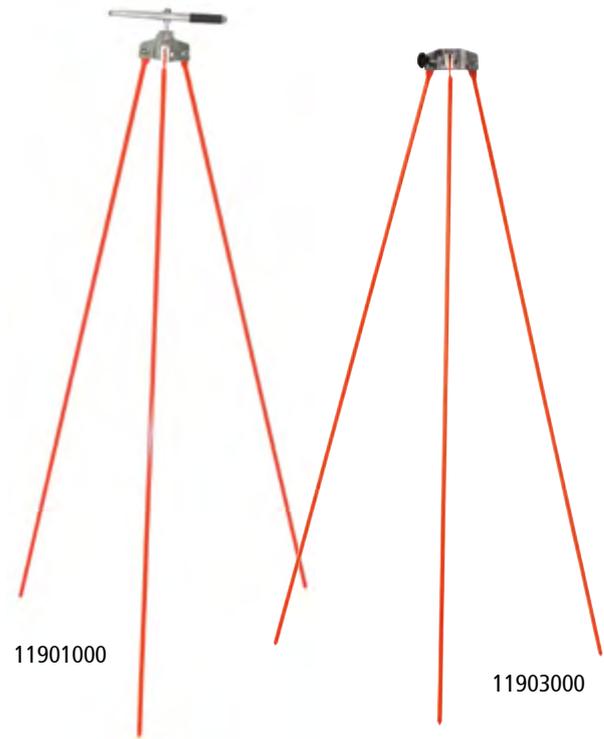
## Ranging pole supports, light version

11900000...



### Ranging pole supports with jaw or ring clamp

- Available with jaw or ring clamp.
- Easy handling: for fixing and plumbing prism or ranging poles on the measuring point.
- Orange paint to prevent corrosion.
- The thin legs of the support can easily be pushed into the soil for stabilization when needed.
- Model no. 11901000: with jaw clamp.
- Model no. 11903000: with ring clamp.
- Model no. 11900000: mini version with jaw clamp. Ideal for NESTLE MIDI-prism poles, for positioning the prism perpendicular when space is narrow (below growth or roofings).
- Model no. 11902000: with jaw clamp. The legs can additionally be fixed with wing screws.



11901000

11903000

### Application benefits

For construction and cadastral survey. Not only for positioning ranging poles on solid surfaces, also applicable with prism poles.



11902000

11903000

Specifications	Ranging pole supports
<b>11901000, 11902000</b>	Jaw clamp / 11902000 with add. fixation
Height	100cm
Weight	1,800g
<b>11903000</b>	Ring clamp
Height	100cm
Weight	1,700g
<b>11900000 Mini</b>	Jaw clamp
Height	27cm
Weight	800g
Paint	Orange



11900000

### Accessories

We also offer heavy duty ranging pole supports.

- Model no. 11905000 with ring clamp.
- Model no. 11904000 with jaw clamp.



## Ranging pole supports, heavy duty

11904000, 11905000



### Ranging pole supports, heavy duty

- Available with jaw or ring clamp.
  - Easy handling: for fixing and plumbing prism or ranging poles on the measuring point.
  - The heavy duty supports provide safe positioning for ranging and prism poles to withstand wind gusts caused by passing cars for example.
  - The aluminium legs can be extended from 100-125cm or 100-130cm respectively.
- Model no. 11905000: with ring clamp.
  - Model no. 11904000: with jaw clamp.



### Application benefits

For construction and cadastral survey. Not only for positioning ranging poles on solid surfaces, also applicable with prism poles.



### Specifications

#### Ranging pole supports, heavy

<b>11905000</b>	Ring clamp
Height	100-125cm
Weight	3,000g
Material	Aluminium

<b>11904000</b>	Jaw clamp
Height	100-130cm
Weight	3,000g
Material	Aluminium



### Accessories

We also offer light ranging pole supports:

- Model no. 11901000: with jaw clamp.
- Model no. 11900000: with jaw clamp, „Mini“.
- Model no. 11903000: with ring clamp.



## Ranging pole bag

11906000



### Bag for 12 x 1m poles

- Bag for 1m ranging poles.
- For easy transport.
- Especially for our joint poles.
- Sturdy with strengthened bottom part.



### Application benefits

For easy transport of 1m ranging poles in construction or cadastral survey.



### Specifications

#### Ranging pole bag

Material	Synthetic fibre
Weight	400g



### Accessories

This bag is especially designed for our joint poles.

- Joint pole, two tips, model no. 11102000.



**Boning rods****21117000, 21116000****Levelling support**

- Boning rods in T-shape for easy levelling.
- One set consists of two half and one full T-patterns.
- Available in fully wooden or with metal stand.

**Application benefits**

For setting out levels on hard landscaping projects.

**Specifications****Boning rods**

**T-shape, wood**, 1.25m, 4,000g      Model no. 21117000

**Marking pins**      Model no. 21116000

Length:      40cm

**Accessories**

In our program we also have chaining pins. The chaining pins have a length of 40cm and one set includes 10 pins.

- Chaining pins, model no. 21116000



# Products | Prism | Optical square | Plummet pole



Double penta prism

page 186



Optical square

page 187



Plummet pole, wood

page 188



Plummet pole, metal

page 189



**NESTLE Double penta prism****11908000****For exact 90° alignment**

- For exact 90° alignment of ranging poles.
- It consists of two prisms at 90° to the left and the right and a central aperture.
- Accuracy <math><1'</math>.
- The metal housing with turning lock mechanism makes the prism shockproof.
- The prism can be attached to a plummet pole. Furthermore a plump bob can be hooked into the prism.
- Delivery including pouch.

**Application benefits**

Alignment of ranging poles, setting out 90° angles.

**Specifications****Double penta prism**

Weight	150g
Accuracy	<math><1'</math>

**Accessories**

For working with the double penta prism we offer plummet poles and ranging pole supports.

- Ranging pole support, model no. 11901000.
- Plummet pole, metal, model no. 11201000.
- Plummet pole, wood, model no. 11200000.



## NESTLE optical square

11909000



### For 90° alignment

- 90° optical square. For setting out 90° angles with ranging poles.
- The cathetus is 25 x 10mm.
- Delivery including pouch.



### Application benefits

Fast setting-out on construction sites.



### Specifications

#### Optical square

Weight	90g
--------	-----



### Accessories

We offer plummet poles and ranging pole supports as accessories for optical squares.

- Wooden plummet pole, model no. 11200000.
- Ranging pole support, model no. 11901000.
- Telescopic plummet pole, metal, model no. 11201000.



**Plummet pole, wood****1120000****Plummet pole with adaptor for optical square / penta prism**

- Wooden plummet pole, 150cm length, diameter 28mm.
- PVC coating in red and white protects the pole from rain and moisture.
- Delivery including adaptor for penta prism or optical square.

**Application benefits**

Ideal for working with optical squares or double penta prisms.

**Specifications****Plummet pole, wood**

Material	Wood, PVC coated
Length	150cm
Weight	760g
Diameter	28mm

**Accessories**

We also offer optical squares and double penta prisms.  
Adaptor available separately.

- Double penta prism, model no. 11908000.
- Optical square, model no. 11909000.
- Adaptor, model no. 11910000.



## Plummet pole, metal

11201000



### Telescopic plummet pole

- The telescopic plummet pole can be fixed on the required height between 100 and 180cm.
- Tip made of stainless steel serves as plummet point.
- Adaptor for penta prism or optical square included in the scope of delivery.
- Wing screw fixing.

### Application benefits

Ideal for working with optical squares or double penta prisms.

### Specifications

#### Plummet pole, metal

Material	Aluminium
Height	100-180cm
Weight	700g
Diameter	25mm

### Accessories

We also offer optical squares and double penta prisms.

- Double penta prism, model no. 11908000.
- Optical square, model no. 11909000.



# Products | **Field book frame**



Field book frame  
wood  
page 191



Field book frame  
synthetic material  
page 191



**NESTLE Field book frame FOLIGRAPH**

21107000...



**Field book frame wood / synthetic material**

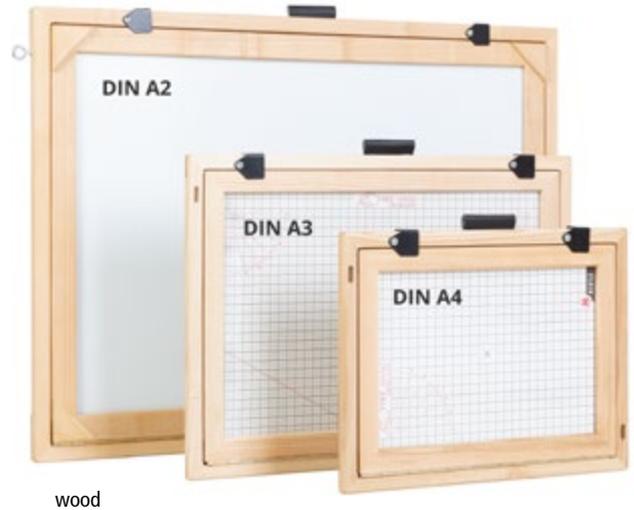
- Our field book frames are easy to use and convenient blotting pads for your survey notations.
- Cellular rubber straps prevent the aluminium underlay from shifting.
- The celluloid inlay protects from rain.
- The carrying strap can easily be adjusted to the required length.
- Our field book frames set standards concerning durability.
- Made of resistant wood or robust synthetic material.
- Adjustable strap made of solid nylon.

**Field book frame wood:**

- Cellular rubber straps prevent the aluminium underlay from shifting.
- Frame joint made of brass.
- Rustproof and powder-coated closure cap.

**Field book frame synthetic material:**

- Rustproof and galvanized closure cap.
- Frame joint with pins attached.



wood

**Application benefits**

For construction or cadastral survey: Our field book frames protect plans, maps or drawings from rain and snow. Additionally they can be used as convenient blotting pads for notations.



synthetic

Specifications	Field book frame
<b>Wood</b>	<b>Model no. / Weight</b>
DIN A4, 260 x 335mm	21107000 / 650g
DIN A3, 335 x 460mm	21109000 / 1,000g
DIN A2, 500 x 665mm	21111000 / 2,400g
<b>Synthetic</b>	
DIN A4, 260 x 345mm	21112000 / 650g
DIN A3, 345 x 465mm	21113000 / 1,000g



**Accessories**

- For working with field book frames we also offer:
- Field Table DIN A2, light version, field book frame DIN A2 with adaptor 5/8" at undersurface, model no. 21128000.
  - Quick-Line drawing support pad for field book frames DIN A3, model no. 21115000.
  - Quick-Line drawing support pad for field book frames DIN A4, model no. 21114000.



## Products | **Survey umbrella**



Survey umbrella

page 193



Carrying bag

page 193



Ground spike

page 193



**NESTLE survey umbrella**

**21104000, 21105000, 21106000**



**Survey umbrella**

- The umbrella is water-repellent.
- Made of 100% polyester, approx. 190g/qm, plain-coloured orange with one sided acrylate coating.
- Join table pole (two segments) with 22/25mm diameter easily with-stands wind gusts.
- Lower pole part galvanized inside with integrated water drain.
- Additionally, the umbrella can be secured with three nylon strings and pegs.
- Easy to use: the tip slides effortlessly into the ground. An additional ground spike is available separately.
- Simply connect the two segments and fix the clamp.
- The umbrella has an overall height of approx. 220cm (usable height approx. 190cm), this allows comfortable positioning of the instrument below.



**Application benefits**

Even high-grade survey instruments like total stations or theodolites with high protection class should be protected from humidity and direct sunlight exposure. This makes the survey umbrella an indispensable accessory for any kind of survey work. The surveyor himself is also protected below the umbrella and is able to work efficiently in rain or shine - no matter what the weather conditions are.



**Specifications**

**Survey umbrella**

Model no.	21104000
Diameter	200cm
Weight	3,200g
Height	220cm approx.



**Accessories**

- Also available for the umbrella:
- Carrying bag, model no. 21105000.
  - Ground spike, model no. 21106000.



# Products | **Wall caliper**



NESTLE wall caliper

page 195



## NESTLE wall caliper

21102000, 21103000



### Wall caliper for interior applications and renovation

- Like NESTLE forestry calipers the wall caliper is characterized by its easy and comfortable handling.
- The slide gauge handle can be moved without jamming while showing precise results.
- Deep black figures on silver anodized layer.
- Use the measuring arms to clasp around door cases to determine wall thickness.
- Offset scales on front and backside for measuring internal and external dimensions.
- Especially for door renovation in old buildings the wall caliper will make your job easier.
- 30mm oval profile with special alloy providing high flexural strength.
- Anodized coating prevents the figures from abrasion and makes the caliper resistant against humidity and dust.
- Slide handle made of shockproof polyamide, measuring arm made of high-quality welded aluminium.
- Available in two lengths.



### Application benefits

For measuring wall thickness by clasping the door case with the measuring arms. For interior applications and renovation.



Specifications	Wall caliper
Model no.	21102000
Weight	900g
Length	80cm
Range	60cm internal / 50cm external
Model no.	21103000
Weight	1,100g
Length	120cm
Range	100cm internal / 90cm external

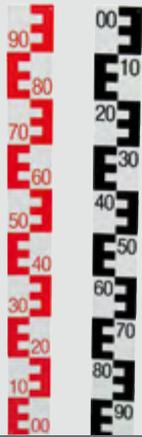


### Accessories

For interior applications we recommend the laser distancemeter Leica DISTO™ D110, model no. 16715000.



# Products | Gauge boards



Gauge boards

page 197



**NESTLE gauge boards**

**18500000, ..1000, ..2000, ..3000**



**Gauge boards made of rigid foam**

- Four bores in each board make these gauge boards easy to fix.
- Dimensions 1,000 x 100 x 10mm and a weight of only 250g for effortless transport and mounting.
- Inscription available in red or black colour - easy to read on the white surface even at larger distances.
- The gauge boards are made of high-quality rigid foam. At a temperature of 20°C they are resistant against climatic influences, mineral oil and even diluted acids and bases.
- Partitions available starting from the bottom (00-90) or from the top of the gauge (90-00).



**Application benefits**

Level indication for rivers, reservoirs and tidal locations.



**Specifications**

**Gauge boards**

Weight	250g
Black, 00-90	Model no. 18500000
Black, 90-00	Model no. 18501000
Red, 00-90	Model no. 18502000
Red, 90-00	Model no. 18503000



**Accessories**

Beside gauge boards we offer laser staffs for levelling and laser applications.



# Products | **Snow poles**



Snow poles

page 199



## NESTLE snow poles

1130000...



### Snow poles wood / steel

- For marking roads, tracks and routes above the snowline.
- Made of steel or wood, with PVC coating.
- Yellow / black coloured.
- 50cm partition.
- Tubular tip.



### Application benefits

- For municipal and factory premises snow clearing services.
- Yellow/black for a long way visible.



### Specifications

### Snow poles

<b>Steel</b>	Ø 27mm
Model no. 11303000	150cm
Model no. 11304000	200cm
Model no. 11305000	250cm
<b>Wood</b>	Ø 28mm
Model no. 11300000*	150cm
Model no. 11301000	200cm
Model no. 11302000*	250cm
* minimum order quantity 108 pieces	
Packing unit 12 pieces	



### Accessories

We offer high-quality ranging poles for various applications.



## Products | Environmental measurement technology

### Optimal solutions for your measurement tasks in the field of environmental measurement technology from Gottlieb NESTLE

- Moisture meters VM100 and VM125
- Other environmental measurement technology on request: Noise level meter, Voltmeter, Videoscope, Wall-scanner.



Contact us for more information, or visit us at [www.g-nestle.de](http://www.g-nestle.de).



#### Metofix VM100 Wood and Building moisture meter

- Reliable moisture meter for wood and building materials.
- The value is shown directly in % in the display.
- With a protective cover that can be used as a reference part for wood and construction materials.
- Scope of delivery: complete with bag

Model no. 32600000

#### Characteristics:

- with exchangeable measuring tips
- for wood and building materials
- easy handling
- high precision
- robust housing

#### Specification:

- Measuring principle: resistance measurement
- Wood area: 6- 44% ( $\pm 1.0\%$ )
- Construction material range: 0.2 - 2.0% ( $\pm 0.05\%$ )



#### Metofix VM125 moisture meter

- Professional moisture meter for floors, walls and ceilings.
- The VM125 enables through surface measurement, without damage, to measure the moisture content of various building materials (without piercing measuring tips into the object to be measured).
- Equipped with practical measuring functions (min / max, adjustable alarm function and values, etc.) for quick measurements of larger areas.

Model no. 32601000

#### Characteristics:

- suitable for all types of building materials
- up to 40 mm thick for hard materials
- Measurement functions convenient and easy to use
- Impact resistant housing

#### Specification:

- Measuring principle: dielectric
- Range / display: 5-40 mm / 0-100
- Accuracy: 0.1%

#### Scope of delivery:

- Complete with bag

# Products | **Forestry**



# Products | **Forestry calipers**



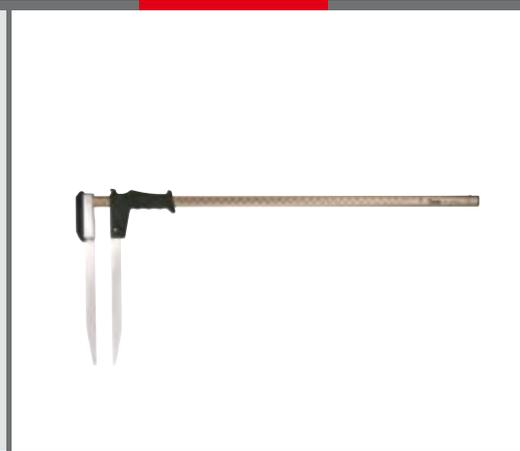
Forestry caliper Waldfix

page 203



Forestry caliper Fuchs

page 204



Forestry caliper Waldmeister

page 205



Forestry caliper Waldfreund

page 206



Forestry caliper Specht

page 207



**Forestry caliper Waldfix**

2020000, ...1000, ...2000, ...3000, ...4000, ...5000



**The practical caliper**

- Comfortably to carry at the belt because of its 25 x 5mm flat profile (Waldfix) and a weight of only 400-600g.
- NESTLE forestry calipers are characterized by their comfortable handling.
- The slide gauge handle can be moved without jamming while showing precise results.
- Deep black figures under titan-coloured anodized layer - easy to read even in the twilight.
- NESTLE calipers are extremely resistant. The special alloy guarantees for a high flexural strength of the flat profile.
- Anodized coating prevents the figures from abrasion and makes the caliper resistant against environmental influences.
- Slide handle made of shockproof polyamide, measuring arm made of high-quality welded aluminium.
- Available as standard and "officially calibrated"\*

\* From 01.01.2018 on, our calipers are conformity evaluated according to module D1 (certificate DE-M-AQ-PTB144 issued by the PTB Braunschweig). (For Germany: The conformity evaluated calipers can be used indefinitely, as in the past the officially calibrated calipers. A recalibration is only needed in the case of a repair).



**Application benefits**

- For measuring tree trunk diameters in forestry.



Specifications	Forestry caliper Waldfix
Waldfix 40cm, 400g	"officially calibrated"* , model no. 20201000 Standard, model no. 20200000
Waldfix 50cm, 500g	"officially calibrated"* , model no. 20203000 Standard, model no. 20202000
Waldfix 60cm, 600g	"officially calibrated"* , model no. 20205000 Standard, model no. 20204000
Measuring bar	Flat profile
Waldfix 40/60	25 x 5mm
Waldfix 50	20 x 5 mm
Graduation	cm



**NESTLE calipers**

Trust in the experience of NESTLE!

We are the leading European manufacturer of forestry calipers.



## Forestry caliper Fuchs

20400001, 20401001



### Sorting caliper

- Comfortably to carry at the belt because of its 20 x 5mm flat profile and a weight of only 400g.
- Its length of only 46cm makes the Fuchs the perfect sorting caliper.
- NESTLE forestry calipers are characterized by their comfortable handling.
- The slide gauge handle can be moved without jamming while showing precise results.
- Deep black figures under titanium-coloured anodized layer - easy to read even in the twilight.
- NESTLE calipers are extremely resistant. The special alloy guarantees for a high flexural strength of the flat profile.
- Anodized coating prevents the figures from abrasion and makes the caliper resistant against environmental influences.
- Slide handle made of shockproof polyamide, measuring arm made of high-quality welded aluminium.
- Available as standard and "officially calibrated"\*

\* From 01.01.2018 on, our calipers are conformity evaluated according to module D1 (certificate DE-M-AQ-PTB144 issued by the PTB Braunschweig). (For Germany: The conformity evaluated calipers can be used indefinitely, as in the past the officially calibrated calipers. A recalibration is only needed in the case of a repair).



### Application

- For measuring tree trunk diameters in forestry.
- For sorting timber with at least 46cm top end diameter.



### Specifications

#### Forestry caliper Fuchs

Fuchs	"officially calibrated"* , model no. 20401001
	Standard, model no. 20400001
Length	46cm
Graduation	cm
Weight	400g



### NESTLE calipers

Trust in the experience of NESTLE!

We are the leading European manufacturer of forestry calipers.



**Forestry caliper Waldmeister**

20000001,... 1001, 2001, 3001, 4001, 5001...



**Classic caliper**

- NESTLE forestry calipers are characterized by their comfortable handling.
- The slide gauge handle can be moved without jamming while showing precise results.
- Deep black figures on titanium-coloured anodized layer - easy to read even in the twilight.
- NESTLE calipers are extremely resistant. The special alloy guarantees for a high flexural strength of the oval profile.
- Anodized coating prevents the figures from abrasion and makes the caliper resistant against environmental influences.
- Slide handle made of shockproof polyamide, measuring arm made of high-quality welded aluminium.
- Available as standard and "officially calibrated" \*.

\* From 01.01.2018 on, our calipers are conformity evaluated according to module D1 (certificate DE-M-AQ-PTB144 issued by the PTB Braunschweig). (For Germany: The conformity evaluated calipers can be used indefinitely, as in the past the officially calibrated calipers. A recalibration is only needed in the case of a repair).



**Application benefits**

- For measuring diameters of standing timber in forestry.
- Trust in the experience of NESTLE! We are the leading European manufacturer of forestry calipers.



**Specifications**

**Forestry caliper Waldmeister**

Waldmeister 40cm, 800g	"officially calibrated"*, model no. 20000001
	Standard, model no. 20001001
Waldmeister 60cm, 900g	"officially calibrated"*, model no. 20002001
	Standard, model no. 20003001
Waldmeister 80cm, 1,000g	"officially calibrated"*, model no. 20004001
	Standard, model no. 20005001
Waldmeister 100cm, 1,100g	"officially calibrated"*, model no. 20006001
	Standard, model no. 20007001
Measuring bar all models	30 x 15mm Oval profile
Graduation	cm



**Various graduations**

Different graduations are available on request:  
 Besides the classical cm-graduation, a mm-graduation is available.  
 The taxation graduation facilitates the classification of the measured tree trunks. The French graduation also shows you, besides the diameter, the circumference of the measured trunk.



**Caliper Waldfreund****2010001...1001, ...2001, ...3001, ...4001, ...5001****Triangular profile caliper**

- NESTLE forestry calipers are characterized by their comfortable handling.
- The slide gauge handle can be moved without jamming while showing precise results.
- Deep black figures under silver anodized layer - easy to read even in the twilight.
- The triangular profile allows for comfortably reading the results from above.
- NESTLE calipers are extremely resistant. The special alloy guarantees for a high flexural strength of the oval profile.
- Anodized coating prevents the figures from abrasion and makes the caliper resistant against environmental influences.
- Slide handle made of shockproof polyamide, measuring arm made of high-quality welded aluminium.
- Available as standard and "officially calibrated" \*.

\* From 01.01.2018 on, our calipers are conformity evaluated according to module D1 (certificate DE-M-AQ-PTB144 issued by the PTB Braunschweig). (For Germany: The conformity evaluated calipers can be used indefinitely, as in the past the officially calibrated calipers. A recalibration is only needed in the case of a repair).

**Application benefits**

- For measuring diameters of standing timber in forestry.
- Trust in the experience of NESTLE! We are the leading European manufacturer of forestry calipers.

**Specifications****Forestry caliper Waldfreund**

Waldfreund 60cm, 900g	"officially calibrated"*, model no. 20101001 Standard, model no. 20100001
Waldfreund 80cm, 1,000g	"officially calibrated"*, model no. 20103001 "officially calibrated"*, model no. 20102001
Waldfreund 100cm, 1,100g	Calibrated, model no. 20105001 "officially calibrated"*, model no. 20104001
Measuring bar all models	Triangular, 30mm
Graduation	cm

**Accessories**

Also available on request: Waldfreund with french graduation.



## Forestry caliper Specht

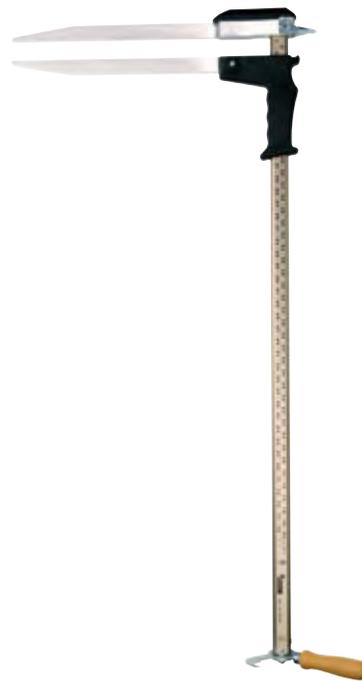
20300001, 20301001, 20302001



### Marking caliper

- NESTLE forestry calipers are characterized by their comfortable handling.
- The slide gauge handle can be moved without jamming while showing precise results.
- Deep black figures on titanium-coloured anodized layer - easy to read even in the twilight.
- NESTLE calipers are extremely resistant. The special alloy guarantees for a high flexural strength of the oval profile.
- Anodized coating prevents the figures from abrasion and makes the caliper resistant against environmental influences.
- Slide handle made of shockproof polyamide, measuring arm made of high-quality welded aluminium.
- The upper limit stop is 1cm above the lower one and calculates the waste of your saw automatically.
- Available as standard and "officially calibrated" \*.

\* From 01.01.2018 on, our calipers are conformity evaluated according to module D1 (certificate DE-M-AQ-PTB144 issued by the PTB Braunschweig). (For Germany: The conformity evaluated calipers can be used indefinitely, as in the past the officially calibrated calipers. A recalibration is only needed in the case of a repair).



### Application benefits

For use in forestry.

- 2 functions: marking and measuring diameters of tree trunks.
- Suitable for use with hand or motor saws.



### Specifications

### Forestry caliper Specht

Specht 60cm, 1,550g	Standard, model no. 20300001
Specht 80cm, 1,650g	"officially calibrated"*, model no. 20302001
Specht 80cm, 1,650g	Standard, model no. 20301001
Measuring bar all models	Oval, 30 x 15mm
Graduation	cm



### NESTLE calipers

Trust in the experience of NESTLE!

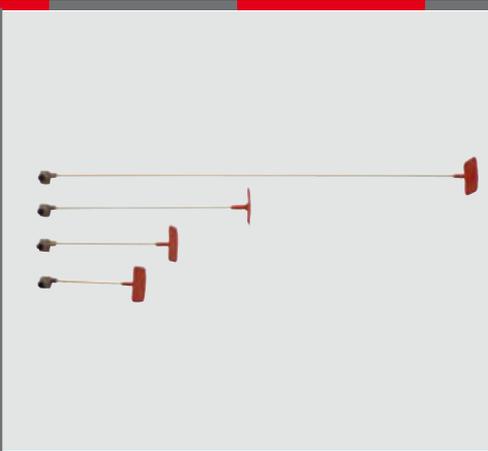
We are the leading European manufacturer of forestry calipers.



# Products | **wood-working**



Marking meter  
metal + wood  
page 209 + 210



Trimming support KOLIBRI

page 211



Sawbuck Holzmiichel

page 212



NESTLE Felling wedge hydraulically  
Version Arnold-S  
page 213



## Marking meter

20500000 + 20900000



### Meter marking of trunks

- If you are looking for a simple tool for meter markings on trunks we can offer the marking meter Kolibri.
- The solid markers are exactly 100cm apart from each other.
- Deep black figures on both sides under titanium-coloured anodized layer.
- Oval profile.
- Abrasion proof and more durable than wooden marking meters.



### Application benefits

For use in forestry.



Specifications	Marking meter
Length	100cm
Weight	700g
Material ruler	Aluminium, oval
Material tip	Steel, galvanized
Graduation	cm
Model no.	20500000



### Accessories

- Hand counter „PRIMAT“, counting mechanism 0000-9999, 20900000.



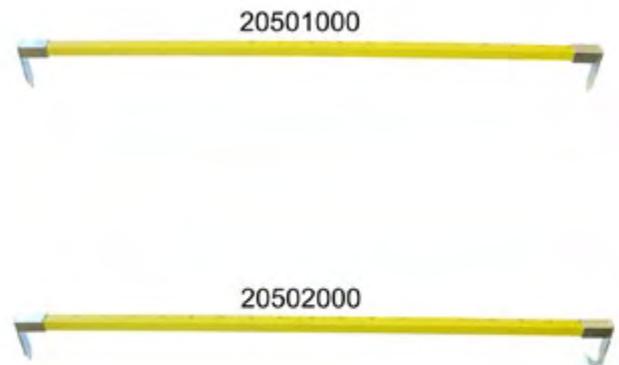
## Marking meter wood

20501000, 20502000



### Lightweight model

- Both sides are made out of a special tempering steel who protects the ends for blunting.
- The wood is completely plastic-coated to keep the water away.
- Four cornered profile.
- The model no. 20501000 is ideal for length and volume calculation of trunks.
- The model no. 20502000 has an angled tip on one side. It helps to see your markets better.



### Application benefits

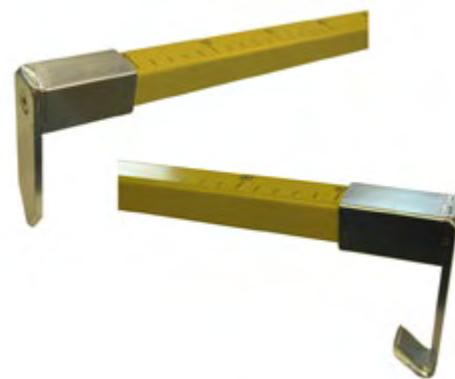
- For use in Forestry.



### Specifications

### Marking meter

Length	100cm
Weight	570g
Material ruler	Wood
Material tips	Steel
Graduation	cm
Version with two peaks	Model no. 20501000
Version with angled tip	Model no. 20502000



### Accessories

- Besides the marking meters, NESTLE has a large range of callipers.
- The caliper Specht are combined with a marker at the end. Model no. 20301001. (see page 207)
- To safeguard in the forest find NESTLE warning pyramids from page 119.



**Trimming support KOLIBRI**

20600000, 20601000, 20602000, 20603000



The easy way for cutting tree boles

- Sawing without marking the log.
- Saves time, work and money.
- Especially for sizing firewood, pulp- and industrial wood.
- The spigot is attached effortlessly with a combination wrench to the screw of the sword fixation.
- The KOLIBRI is mounted on and taken off from the spigot by easily pressing the knob.
- Easy and fast mounting to all popular motor saws.
- Just attach the end piece of the KOLIBRI to the right end of the log and start sawing.



Application benefits

- KOLIBRI 25cm: for cutting small pieces of firewood.
- KOLIBRI 33cm: for cutting medium pieces of firewood.
- KOLIBRI 50cm: for cutting large pieces of firewood
- KOLIBRI 100cm: for cutting flooring sleepers.
- KOLIBRI 100-v, 100cm: with infinitely variable stop.



Specifications	Trimming support KOLIBRI
KOLIBRI 25cm	Model no. 20600000
KOLIBRI 33cm	Model no. 20601000
KOLIBRI 50cm	Model no. 20602000
KOLIBRI 100cm	Model no. 20603000
KOLIBRI 100-v, 100cm	Model no. 20605000, variable stop
Material stick	Glass fibre
Material end piece	Synthetic



Accessories

For further forestry work we recommend NESTLE calipers and marking meters:  
We are the leading European manufacturer of forestry calipers.

Trust in the experience of NESTLE!



### Sawbuck for cutting firewood

- By practising experts for expert practice.
- For cutting firewood for your stove.
- Separate the wood in fitting pieces of 25, 33 or 50cm length respectively.
- The sawbuck „Holzmittel“ is ideal, when using professional circular saws or band saws is not profitable.
- The „Holzmittel“ can be disassembled effortlessly, so it can easily be transported in the boot of your car.
- The „Holzmittel“ can be charged with 0.33 piled meters. You need two cuts for 33cm pieces, three cuts for 25cm pieces and one single cut for 50cm pieces of wood.
- Markings on the „Holzmittel“ make it easy to position the cuts.
- Pluggable upright poles made of aluminium even withstand contact with the saw.
- Included in the scope of delivery is a retaining band for securing the charging.
- Sawbuck „Holzmittel“ - a hundred per cent **“Made in Germany”**.



### Application benefits

For cutting firewood for your stove.



Specifications	Holzmittel
Capacity	At least 0.33 stere
Weight	App. 15kg
Dimensions of the basic frame	(W) 820mm x (D) 465mm x (H) 203mm
With inserted side supports	1,130mm height
Aluminum side supports (8 pcs.)	Each 25mm x 25mm x 1,000mm
Shipping packaging size	1,030mm x 400mm x 90mm



For further forestry work we recommend NESTLE calipers and marking meters:  
We are the leading European manufacturer of forestry calipers.

Trust in the experience of NESTLE!



**NESTLE Felling wedge hydraulically Arnold-S**

**20701001**



**Ergonomic forest work**

- The hydraulic felling wedge Arnold-S from NESTLE can be used as an alternative to heavy wedge work in the harvesting of large timber. The vibration-free wedging reduces the risk of falling dead wood. The special thing about the Arnold-S is that the wedge can be moved forwards and backwards. The pump unit can be rotated continuously through 360°. The felling wedge is your perfect companion for working ergonomically in the forest.
- Can be used as an alternative to heavy wedge work in heavy timber harvesting
- Enables vibration-free wedging - thus the risk of falling dead wood is significantly lower.



**Advantages in use:**

- Wedge can be moved forwards and backwards.
- The pump unit can be rotated continuously through 360°, so the Felling wedge can be operated particularly ergonomically.
- 100% "Made in Germany"



**Specifications Arnold-S**

Weight	9,900g
Temperature range	-25°C to +60°C
Dimensions	758 x 130 x 180mm
Wedge angle	19°
Spring steel plates	290 x 90 x 2mm
Oil quantity	650ml, oil HEES 22 Bio
Grease nipple	1
KWF checked	Yes
Stroke length	145mm
Stroke per pumping movement	> 2mm
Lifting force	28,5t at 690N



**Scope of delivery**

Felling wedge, pump rod, shoulder strap, oil filled, instructions.



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Gottlieb NESTLE GmbH  
 Freudenstädter Str. 37-43  
 D - 72280 Dornstetten  
 Tel.: +49 / 7443 / 9637-0  
 Fax: +49 / 7443 / 9637-50  
 E-Mail: info@g-nestle.de

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# General terms and conditions

## I. Validity

1. The following contractual terms (general terms and conditions) apply to all contracts relating to the sale of goods between Gottlieb Nestle GmbH (hereinafter: Supplier) and the customer.
2. These general terms and conditions shall apply exclusively to all deliveries and services. The customer's general terms and conditions shall not apply, even if the Supplier does not expressly contradict them.
3. The general terms and conditions also apply to all future business relations, even if this has not been agreed upon again explicitly.

## II. Offer and conclusion of contract

1. The Supplier's offers are subject to change.
2. All agreements made between the Supplier and the customer for the purpose of the execution of this contract must be made in writing. Declarations of acceptance and orders must be confirmed in writing by the Supplier in order to be legally binding. The Supplier's sales staff are not authorised to make verbal subsidiary agreements or to make oral agreements which go beyond the content of the written contract.
3. The Supplier retains unrestricted property rights and copyrights to drawings and other documents; they must be not disclosed to third parties.
4. The customer is not permitted to copy or imitate software and/or other programs.
5. The source code of the programs is not made available to the customer.
6. The supplier shall be allowed to take technical measures in order to protect software and/or other programs.
7. All information in the Supplier's sales documents (in particular software and/or programs, price lists, catalogues, brochures, technical documents and digital media) are provided to the best of the Supplier's knowledge, however, they are subject to confirmation and are non-binding. The Supplier reserves the right to make changes.

## III. Prices and Payment

1. Prices shall apply ex works excluding packaging. VAT at the applicable statutory rate is added to all prices.
2. Unless otherwise specified, the Supplier shall be bound to the prices contained in its offers for 30 days from their date.
3. Within the Federal Republic of Germany, we deliver to receiving stations free of all charges, including packaging, from a net invoice amount of €500.00. For deliveries outside Germany, we deliver ex works plus shipping and packaging costs.
4. Unless otherwise agreed, payments must be made within 30 days of the invoice date. We grant 2% cash discount for payment within 10 days of the invoice date.
5. The customer may only offset claims that are undisputed or legally ascertained.
6. In the event of a late payment, the Supplier is entitled to claim interest on arrears. The Supplier reserves the right to further claims.

## IV. Delivery time and delayed delivery

1. Compliance with an agreed delivery time requires the timely provision of all documents, authorisations and approvals to be supplied by the customer. If this is not the case, the delivery time shall be extended appropriately, unless the Supplier is responsible for the delay.
2. The delivery time shall be met if the delivery item has left the Supplier's factory or if readiness for dispatch has been notified before the deadline lapses.
3. The Supplier cannot be held responsible for delays in delivery and performance due to force majeure and due to events which make delivery considerably more difficult or impossible for the Supplier, and not just on a temporary basis e.g. strike, lockout, official orders etc., even if they occur with suppliers or their subcontractors, and even if binding dates and deadlines have been agreed on. This entitles the Supplier to defer delivery or performance by the duration of the hindrance plus a reasonable start-up time, or to withdraw fully or partially from the contract due to the as yet unfulfilled part. If the hindrance lasts more than 3 months, the customer shall be entitled to withdraw from

the contract with regard to the as yet unfulfilled part after an appropriate grace period. If the delivery time is extended or if the Supplier is released from its obligation, the buyer cannot derive any claims for compensation from this. The Supplier may only invoke the circumstances mentioned if it notifies the customer immediately.

4. If the Supplier is in default, the customer may only withdraw from the contract if the Supplier is responsible for the delay and the Supplier has permitted an appropriate term for delivery accorded him to expire to no effect.
5. Further claims due to delay are determined by point VIII. If the Supplier must subsequently accept liability for non-compliance with agreed deadlines and dates or other delays, the customer shall be entitled to compensation for delayed completion to the amount of 0.5 % for every full week of delay, however not more than a total of 5 % of the invoice value of the deliveries and services affected by the delay. Further claims are excluded under all conditions, except when the delay is based at least on gross negligence by the Supplier.
6. The Supplier is entitled to partial deliveries and partial performances at all times, unless the partial delivery or partial performance is of no interest to the customer.

## V. Risk transfer and shipping

1. The risk is transferred to the customer no later than at the time the purchased items are shipped, even if partial deliveries are made or the Supplier has taken on other services such as the dispatch cost or delivery.
2. If the dispatch is delayed as a result of circumstances for which the customer is responsible, the risk is transferred to the customer from the day the dispatch is ready.
3. At the request of the customer, the shipment will be insured under the customer's information and at the customer's own expense.

## VI. Rights in the event of defects

1. The customer must check the deliveries and services for defects immediately upon receipt. If defects are identified, they must be communicated in writing immediately, but not later than within one week of receipt of the faulty goods. Defects that cannot be detected within this period, even upon careful inspection, must be communicated to the Supplier in writing immediately upon detection.
2. Defective parts of the delivery or performance shall be improved or delivered/provided again, at the Supplier's option. In this case, the Supplier requests that, at its discretion and at its own expense
  - the defective part or device is sent to the Supplier for repair and subsequent return;
  - the customer holds the defective part or device and a service technician of the Supplier is sent to the buyer to carry out the repair.
 If the customer requires the repair work to be carried out at a place determined by him/her, the Supplier may comply with this demand, whereby replacement parts are not charged, whilst work time and travel costs are to be paid at the Supplier's standard rates.
3. The customer shall give the Supplier the necessary time and opportunity to carry out all repairs and replacements deemed necessary by the Supplier. Otherwise, the supplier shall be exempt from liability for the consequences.
4. In the event of inappropriate or improper use or commissioning by the customer or by third parties, natural wear and tear, incorrect or negligent handling, improper maintenance, and unsuitable operating resources, no claims for defects may be lodged if the customer cannot disprove a substantiated assertion that even one of these circumstances caused the defect. If improper modifications or repair work is carried out by the customer or third parties, no claims for defects may be lodged for these and the resulting consequences, in accordance with the predicted consequences.
5. Replaced parts shall become the property of the Supplier.
6. The period of limitation for warranty claims by the customer is 24 months, calculated from the passing of risk to customer. Warranty claims for software and/or programs, batteries, particularly with regard to their performance, are, as a rule, only recognised within 6 months from delivery.
7. Returns are only accepted after prior agreement with the Supplier.

## VII. Voluntary return of goods

If we accept the return of goods delivered free of defects as a gesture of goodwill, a reasonable processing fee shall be included with the credit note. Returns must be delivered postage paid, after prior agreement with the Supplier.

## VIII. Liability

1. Regardless of the nature of the infringement, including unlawful acts, claims for damages are excluded, unless deliberate intent or gross negligence is involved.
2. In the event of violation of essential contractual obligations, the Supplier shall be liable for any negligence, but only up to the amount of the foreseeable damage. Claims cannot be made for lost profits, saved expenses from compensation claims of third parties, or for any other direct or consequential loss, unless the Supplier has guaranteed a particular quality characteristic of the product with the purpose of safeguarding the customer against such losses.
3. The customer releases the supplier from any liability towards third parties, which result from or in connection with services and/or deliveries, which the supplier has provided and/or performed on behalf of the customer.
4. The liability restrictions and exclusions in paragraphs 1 and 2 shall not apply to claims that have arisen due to fraudulent behaviour on the part of the Supplier, or where there is liability for guaranteed quality characteristics, for claims in accordance with the product liability law, or for compensation claims resulting from injury to life, limb or health.
5. Where the Supplier's liability is excluded or restricted, this also applies to the seller's employees, representatives and vicarious agents.

## IX. Reservation of proprietary rights

1. The goods shall remain the property of the Supplier until all claims are fulfilled (including all current account balance claims) which the Supplier may be entitled to from the customer now or in future.
2. The customer shall be entitled to process and, in particular, to sell the reserved goods within the course of orderly business practices, provided the customer is not in default. Pledging or transfer of ownership by way of security is not permissible. Any debts arising from the resale or any other legal ground (insurance, unlawful acts etc.) with respect to the reserved goods (including all current account balance claims) shall be assigned fully by the customer to the Supplier now for insurance purposes. The Supplier revocably authorises the customer to collect the claims assigned to the Supplier for its invoices and in its own name. This authorisation to collect can only be revoked if the customer fails to honour its payment obligations in an orderly fashion.
3. In the event of third-party access to the reserved goods, especially in the case of pledging, the customer shall notify them that this is the property of the Supplier and inform the Supplier immediately so that it may assert its property rights. If the third party is not able to refund the Supplier the appropriate judicial or extrajudicial costs in this context, the customer shall be liable for this.
4. In the event of behaviour by the customer that is contrary to the contract, especially default of payment, the Supplier shall be entitled to withdraw from the contract and reclaim the reserved goods.

## X. Applicable law, partial invalidity

1. The law of the Federal Republic of Germany shall apply to these terms and conditions and all legal relations between the Supplier and customer. The provisions of the UN Convention on Contracts for the International Sale of Goods do not apply here, even if the customer has its headquarters abroad.
2. If the Customer is a businessman, the headquarters of the Supplier shall be the exclusive place of jurisdiction for all disputes resulting directly or indirectly from the contractual relationship.
3. If any provision in these terms and conditions or a provision within the framework of other agreements is or becomes invalid, this shall not affect the validity of all other provisions or agreements.



[www.g-nestle.de](http://www.g-nestle.de)



MEASURE WITH THE BEST

**Gottlieb NESTLE GmbH**

Freudenstädter Straße 37-43  
D-72280 Dornstetten

Tel. +49 (0) 7443 96 37-0  
Fax +49 (0) 7443 96 37-50

E-Mail: [info@g-nestle.de](mailto:info@g-nestle.de)  
Internet: [www.g-nestle.de](http://www.g-nestle.de)