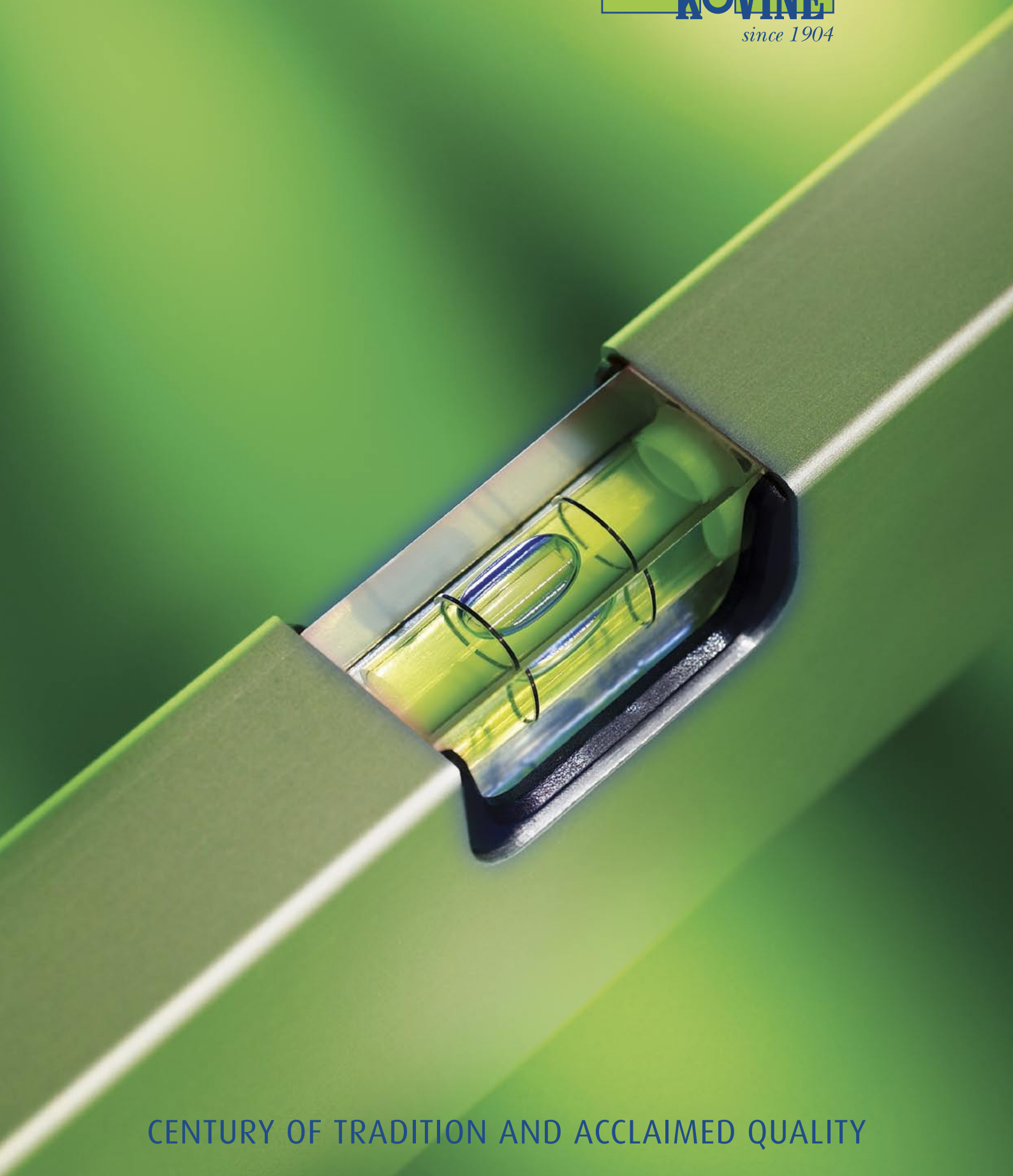
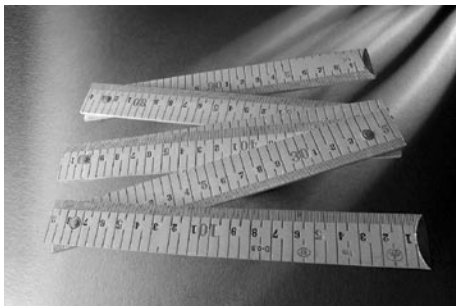


TOVARNA MERIL  
**KOVINE**  
*since 1904*



CENTURY OF TRADITION AND ACCLAIMED QUALITY

# STORY OF SUCCESS



The roots of our company reach way back into the past. It all began in **1904** when the entrepreneur J. A. Siegel began with the manufacture of wooden folding rules. The nearby forests of the Pohorje area provided a plentiful supply of raw material.

In **1936**, Tovarna meril began the production of spirit levels, an activity which to this day represents the company's leading production line. After World War II, the enterprise extended its product range to encompass metal and plastic rules.

In **1972**, a new organisation called Slovenijales Tovarna meril Slovenj Gradec was created.

In **1979**, it became an independent manufacturer of metal rules and measuring tools.

In **1996**, the firm transformed to the status of joint-stock company - TOVARNA MERIL KOVINE D.D. and is today successfully continuing its production of the wide product program of high-quality measuring tools.

A CENTURY OF TRADITION OF TOVARNA MERIL KOVINE












TOVARNA MERIL KOVINE D.D. ranks amongst the largest manufacturers of high-quality spirit levels in Europe. Customers from all over the world are the best proof of our quality. We complement the production of spirit levels with a wide assortment of other measuring tools, especially for the building industry. Adaptability to customer needs, quick response and superior quality are our major advantages; the strength which we will maintain into the future. All our products are the result of our own research and development. We want to satisfy our customers with precise, functional and user-friendly measurement tools.

Our ISO 9001:2008 certification proves that our company controls the entire production and management process in accordance with international standards.

**All products in this catalogue are produced per order and minimal order quantities are required. Product on stock you can find in our special Sales catalogue.**

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Production program of **TOVARNA MERIL KOVINE** includes a wide range of various high-quality measuring tools for professional use. Spirit levels are the leading and primary product line in our production program.

**Important advantages:**

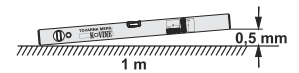
- › Long tradition.
- › Superior quality.
- › Adaptability to customers needs (colours, printing, tool varieties,...).
- › In-house development and production of plexiglas vials.
- › Use of high-quality ecological input materials.
- › Continuous control of production processes using computerised optical measuring devices.
- › High measurement precision.

**MEASURING ACCURACY:**

- › Alu-spirit levels: 0.5 mm/m in normal position.
- › Model Exacta: 0.3 mm/m in normal position and 0.75 mm/m in inverted position.
- › By all spirit levels accuracy in inverted position is under 1 mm/m.

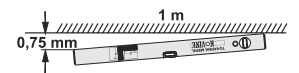
**THE MEANING OF ACCURACY:**

Measuring accuracy of 0.5 mm/m in normal position means that a level that is 1 m long allows max. 0.5 mm fault of horizontal line on one or the other side of the level, under the condition, that the bubble in the vial is precisely in the middle of the marking rings. See the picture: 1



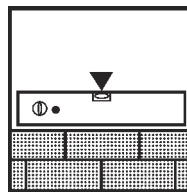
Picture 1

Measuring accuracy of 0.75 mm/m in inverted position means that a level that is 1 m long allows max. 0.75 mm fault of horizontal line on one or the other side of the level, under the condition, that the bubble in the vial is precisely in the middle of the marking rings. See picture: 2

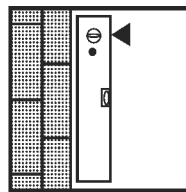


Picture 2

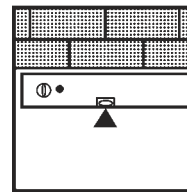
**APPLICATIONS FOR SPIRIT LEVELS:**



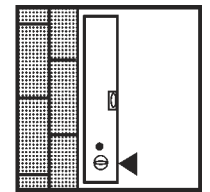
Horizontal normal position



Vertical normal position



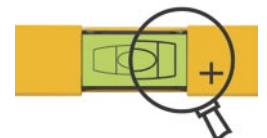
Horizontal inverted position



Vertical inverted position

**PLEXIGLASS VIALS:**

- › Made of high-quality plexiglass, shockproof.
- › Mechanical treatment of internal radii is computer tested.
- › Fluorescent liquid is sealed with ultrasonic welded plugs.
- › 30 years guarantee against fluid leaks.
- › Applicable in all climatic conditions.
- › The colour of liquid is very good resistant to UV-rays.
- › Horizontal vial with lens effect enlarges the bubble for easier reading.
- › Anti-static vials enable better measuring.



**SPIRIT LEVELS**

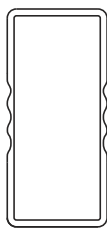
# SPIRIT LEVELS

## ALU-SPIRIT LEVELS

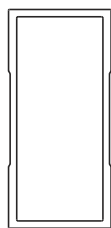
### ALUMINIUM -PROFILE TYPES:



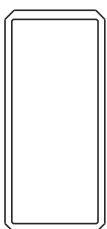
LAG



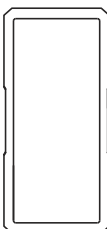
LAR



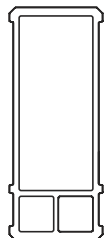
LAU



LAT



LAD



LAP

#### LAG: Flat aluminium profile

Dimension 48 x 22 mm, weight 0.56 kg/m.  
Models: LAGE (silver anodised), LAGB (colour powder coated).

#### LAR: Grooved aluminium profile

Dimension 48 x 22 mm, weight 0.56 kg/m.  
Models: LARE (silver anodised), LARB (colour powder coated).

#### LAU: Aluminium profile U

Dimension 48 x 22 mm, weight 0,56 kg/m.  
Model LAUB (colour powder coated).

#### LAT: Flat, heavier aluminium profile

Dimension 48 x 22 mm, weight 0.61 kg/m.  
Models: LATE (silver anodised), LATB (colour powder coated), LATZ (gold anodised).

#### LAD: Extra strong aluminium profile

Dimension 48 x 22 mm, weight 0,75 kg/m.  
Model LADZ (gold anodized).

#### LAP: Profile for Exacta level

Dimension 60 x 24 mm, weight 0, 90 kg/m.  
Model: LAP (colour powder coated).

### PROFILE COATINGS:



SILVER ANODISING



GOLD ANODISING



YELLOW POWDER COATING: RAL 1021



RED POWDER COATING: RAL 2002



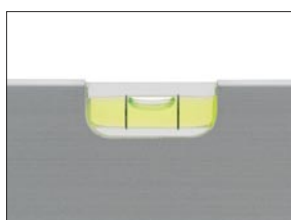
RED POWDER COATING: RAL 3000



OTHER COLOURS BY AGREEMENT

Note: When ordering colour powder coated levels, it is necessary to specify the exact colour!

### TYPES OF PLEXIGLASS VIALS:



Horizontal plexiglass vial, stable mechanical fitting. For installation with the following types : LAG, LAR, LAD.

**Type: B**



Horizontal plexiglass vial, stable mechanical fitting, with a small plastic rim. For installation with the following types: LAG, LAR, LAT, LAP.

**Type: M**



Horizontal plexiglass vial, stable fitting with ultrasonic welding. For installation with the following types: LAG, LAR, LAU.

**Type: V**



Round- vertical plexiglass vial, stable fitting. For the use with the following types: LAG, LAR, LAT, LAP, LAU, LAD, as a vertical vial or a vial with 45° inclination.

### LENGTHS:

30 cm, 40 cm, 50 cm, 60 cm, 70 cm, 80 cm, 100 cm, 120 cm, 150 cm, 180 cm, 200 cm.

### SUPPLEMENTS ON ALU- SPIRIT LEVELS:

#### MAGNETS:



Optional installation into LAT and LAD types beginning from 40 cm length. Levels up to the length of 120 cm have 2 strong magnets and those from 150 cm length 4 strong magnets installed. They ensure safe fastening to the metal groundwork. When ordering, please add letter **M** to the end of the code.



**GRADUATION:**



Optional printing of mm-graduating up to the length of 100 cm on LAG, LAR, LAT, LAU, LAD types of alu-spirit levels. When ordering, please add letter **S** to the end of the code.

**HANGER:**



Optional plastic hanger with Euro-hole on end caps on all types of alu-spirit levels. When ordering, please add letter **O** to the end of the code.

**ADDITIONAL MARKING RINGS IN HORIZONTAL VIAL:**



Optional inclusion of two additional marking rings for measuring of 2% inclination in all types of horizontal vials.

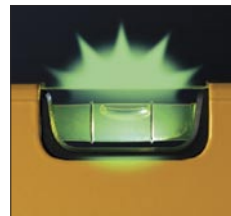
**Available on request.**

**PRINTING OF CUSTOMER LOGO:**

Optional printing in one or more colours for customer logo.

**Available on request.**

**HORIZONTAL VIAL WITH FLUORESCENT BACKGROUND:**



Optional inclusion of fluorescent background in all types of horizontal vials. Allows measuring also in places lacking the light.

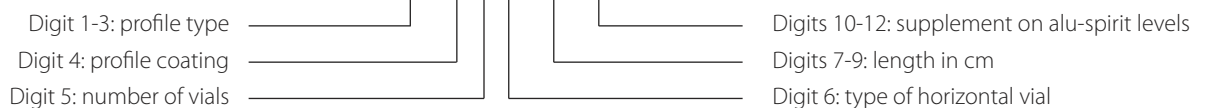
**Available on request.**

**ORDER SURVEY FOR ALU-SPIRIT LEVELS:**

ORDER CODE					
DIGITS 1, 2, 3	DIGIT 4	DIGIT 5	DIGIT 6	DIGITS 7, 8, 9	DIGITS 10 or 11 or 12
PROFILE TYPE:	PROFILE COATING OPTIONS:	NUMBER OF VIALS:	TYPE OF HORIZONTAL VIAL:	LENGTH IN cm:	SUPPLEMENTS:
LAG = FLAT LAR = GROOVED LAT = FLAT, STRONGER	E = SILVER ANODISED B = COLOUR POWDERED Z = GOLD ANODISED	2 = TWO VIALS 3 = THREE VIALS	B = WITHOUT PLASTIC RIM M = WITH SMALL PLASTIC RIM V = WITH BIG PLASTIC RIM	FROM 030 cm TO 200 cm	M = MAGNETS S = GRADUATION O = HANGER
LAG	E, B	2, 3	B, M, V	030...120	S O
LAR	E, B	2, 3	B, M, V	030...120	S O
LAU	B	2, 3	V	030...120	S O
LAT	E, B, Z	2, 3	M	030...200	M S O
LAD	Z	2, 3	B	030...200	M S O

**Illustrative order:** Alu-spirit level, grooved profile, colour powder coated, 2 vials, horizontal vial type B, 30 cm, with graduation.

LAR B 2 B 030 S

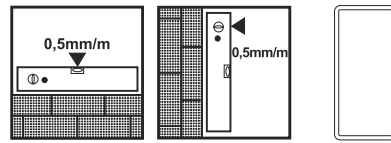


**Optional demands:** inclusion of two additional marking rings in horizontal vial, inclusion of fluorescent background in horizontal vial, printing of customer logo.

# SPIRIT LEVELS

## ALU-SPIRIT LEVELS

MODEL LAG:



Flat aluminium profile.



LAGE 2B...



LAGE 3B...



Flat silver anodised profile, horizontal vial type B.



LAGE 2M...



LAGE 3M...



Flat silver anodised profile, horizontal vial type M.



LAGE 2V...



LAGE 3V...



Flat silver anodised profile, horizontal vial type V.

All above models are available in following coatings:

YELLOW POWDER COATING RAL 1021

■ – CODE LAGB, yellow

RED POWDER COATING RAL 2002

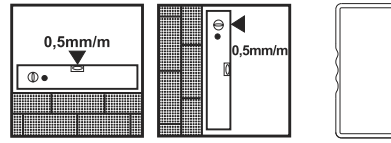
■ – CODE LAGB, red



# SPIRIT LEVELS

## ALU-SPIRIT LEVELS

MODEL LAR:



Grooved aluminium profile.



LARB2B...



LARB3B...



Grooved yellow powder coated profile, horizontal vial type B.



LARB2M...



LARB3M...



Grooved yellow powder coated profile, horizontal vial type M.



LARB2V...



LARB3V...



Grooved yellow powder coated profile, horizontal vial type V.

All above models are available in the following coatings:

SILVER ANODISING

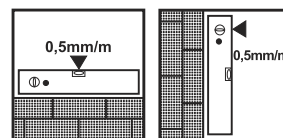
■ – CODE LARE

RED POWDER COATING RAL 2002

■ – CODE LARB, red

# SPIRIT LEVELS

## ALU-SPIRIT LEVELS



### MODEL LAU:



LAU2V...



LAU3V...



Aluminium profile U, horizontal vial type V.  
These levels are available in red colour RAL 3000, mat execution

### MODEL LAT:



LATB2M...



LATB3M...



Flat, stronger red powder coated profile, horizontal vial type M.

Levels fitted with 3 vials as standard are available on request with 2 vertical vials.

All above models are available in the following coatings:

SILVER ANODISING

— CODE LATE

YELLOW POWDER COATING RAL 1021

— CODE LATB, yellow

GOLD ANODISING

— CODE LATZ

### MODEL LAD:



LADZ2B...



LADZ3B...



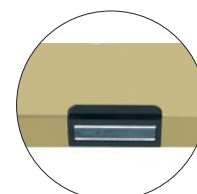
Extra strong aluminium profile, gold anodized, vial type B.

Levels fitted with 3 vials as standard are available on request with 2 vertical vials.

These levels are available in gold anodising execution.

### ALU-SPIRIT LEVEL WITH MAGNETS:

Models LAT and LAD are available with magnets fitted. When ordering, please add the letter **M** to the end of the code.

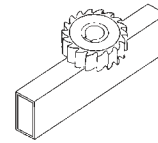




# SPIRIT LEVELS

## ALU-SPIRIT LEVELS

### MODEL LAT:



LATB....F



With milled measuring surface for higher measuring precision.

Possible fitting of all horizontal vial types and one vertical vial, one vertical vial and one vial with 45° inclination or two vertical vials.

Powder coatings: yellow RAL 1021 or red RAL 2002.

Length: 30 cm, 40 cm, 50 cm, 60 cm, 80 cm, 100 cm.

**Illustrative order:** alu-spirit level, stronger profile, yellow powder coated, with 2 vials, horizontal vial type B, length 50 cm, with milled surface: LATB2B50F.

**Note:** Please specify colour.

LATE4M...N



Model with 4 vials, 2 horizontal and 2 (type M) vertical vials and with 2 aluminium legs. Stronger, flat, silver anodised profile. For measuring of horizontal line in various installation situations.

Length: 100 cm, 120 cm, 150 cm, 180 cm and 200 cm.

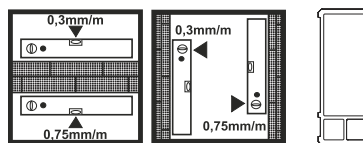
**Illustrative order:** alu-spirit level with legs, length 150 cm: LATE4M150N

# SPIRIT LEVELS

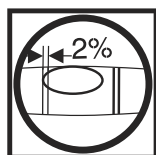
## ALU-SPIRIT LEVELS

### MODEL LAP - EXACTA

Measuring accuracy of 0.3 mm/m in normal position and 0.75 mm/m in inverted position. Walls are thicker, strengthened with ribs outside and walls inside, hereby increasing their rigidity and resistance to deformation. Profile 60 x 24 mm, 0,90 kg/m



Horizontal vial with fluorescent back-ground allows measuring also in places lacking the light.



Two additional marking rings for measuring of 2% inclination.



LAP2...



LAP3



LAP2...R



LAP3...R



#### ORDER VARIANTS:

- With one horizontal and one vertical plexiglass vial – order code LAP2.
- With one horizontal and two vertical plexiglass vial – order code LAP3.
- Level can have two milled measuring surfaces ( F ) up to 120 cm length, for more reliable measuring in all positions.
- Level can have two ergonomic hand-holds ( R ) in-built, made of high - quality plastics for better handling; from 60 cm length.
- Level can have a plastic hanger with an euro-hole ( O ) on end caps.
- Level can have extra strong magnets ( M ).
- RAL 1021 yellow coating.
- Lengths : from 40 cm up to 250 cm.
- Optional printing of customer logos.



Milled measuring surfaces ( F )



Ergonomic hand-holds ( R )



Hanger with a euro - hole ( O )



Extra strong earth magnets ( M )

**Example of order:** EXACTA spirit level with 3 vials, 120 cm, milled, with hand - holds and a hanger:  
order code **LAP3 120 FRO**

LAP 3 120 F R O

Digits 1-3: type of level  
Digit 4: number of vials

Digits 8, 9, 10: supplement on the level  
Digits 5-7: length in cm



# SPIRIT LEVELS

## ALU-SPIRIT LEVELS

### LAP2...E EXACTA ELECTRONIC SPIRIT LEVEL



Beside usual measurements, the inclination can be measured with assistance of a digital electronic sensor in the region from 0° to 360°.

Display selection for the measured values is expressed in °, %, and mm/m.

Display on LCD monitor in steps of 0.1° or 0.1% or 1 mm/m.

Digital display of the necessary vial movement to reach the inclination 0° or 90°.

Switch on and off of a warning signal for the measured value 0° and 90°, in all modes of display.

Measured values are saved with the HOLD button.

The electronic part is calibrated simply and quickly.

Accuracy 0.1° in the area 0° to +/- 10° and 90° to +/- 10°, in other areas 0.2°.

Automatic switch off in 6 minutes if inclination modification is not higher than 1.4°.

Loading: battery 9V – standard (alkaline), in delivery scope, duration: 500 working hours.

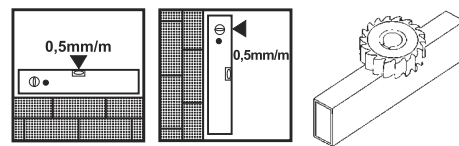
Packaging in a strong, transparent, plastic tube.

Length: 60 cm and 80 cm.

**Illustrative Order:** EXACTA ELECTRONIC spirit level, length 60 cm: LAP2060E

## OTHER SPIRIT LEVELS

### LTH... TORPEDO SPIRIT LEVEL



Casing made of high-quality aluminium alloy Al Si 12.

With 2 plexiglass vials: horizontal and vertical vial, with a milled measuring surface.

Powder coated in yellow colour RAL 1021 or red colour RAL 2002.

Measuring accuracy: 0.5 mm/m in normal position.

Length: 30 cm, 40 cm, 50 cm, 60 cm, 80 cm, 100 cm

**Illustrative order:** torpedo spirit level, length 30 cm: LTH030

Note: Please specify the colour.

### TORPEDO SPIRIT LEVEL, MAGNETIC:



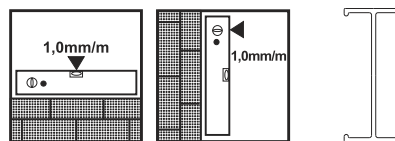
Possible to install strong magnets. Dimensions 30 cm and 40 cm have 2 magnets built in, while 50 cm, 60 cm and 80 cm incorporate 3 strong magnets and 100 cm 4 magnets. When ordering, please add the letter **M** to the end of the code. Example: LTH030M

# SPIRIT LEVELS

## OTHER SPIRIT LEVELS

LIE...

### I-PROFILE SPIRIT LEVEL



LIE2...



LIE3...



Aluminium profile I-shaped, silver anodised 57 x 26 mm, weight 0.68 kg/m. Two fitting options: with 2 vials (horizontal and vertical) or 3 vials (horizontal, vertical and a vial with 45° inclination).

Measuring accuracy: 1 mm/m in normal position.

Length: 40 cm, 50 cm, 60 cm, 80 cm, 100 cm.

**Illustrative order:** I-profile spirit level, anodised, 3 vials, length 40 cm: LIE3040

LPN...

### PLASTIC SPIRIT LEVEL



Made of foamed polystyrene, 50 x 25 mm, yellow.

Measuring accuracy: 1 mm/m in normal position.

Length: 30 cm, 40 cm, 60 cm.

**Illustrative order:** Plastic spirit level, length 30 cm: LPN030

HRL250

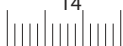
### PLASTIC SPIRIT LEVEL - TORPEDO



Made of high – quality plastic case, with two plexiglass vials.

Measuring accuracy: 1 mm/m in normal position.

Length: 25 cm, colour : red

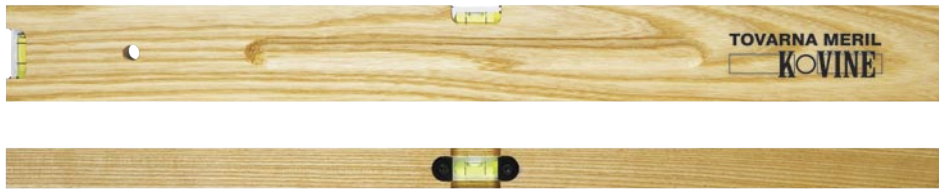


# SPIRIT LEVELS

## OTHER SPIRIT LEVELS

LL...

### WOODEN SPIRIT LEVEL

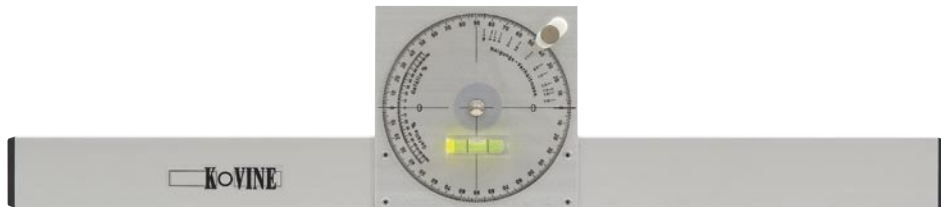


Made of high quality, correctly stored and dried ashen wood, oiled.  
With 1 vertical and 1 horizontal plexiglas vial.  
Measuring accuracy: 1 mm/mm in normal position.  
Length: 30, 40, 50, 60, 80, 100 cm.

**Illustrative order:** Wooden spirit level, length 40 cm: LL040.

LNGE...

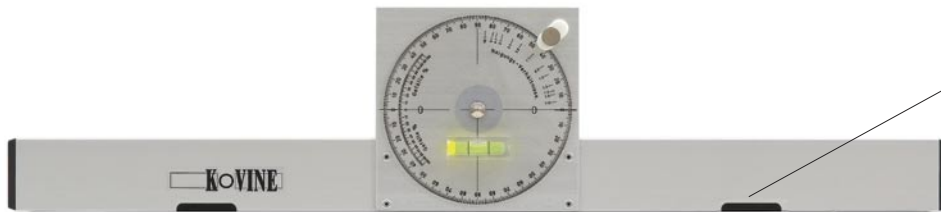
### INCLINE SPIRIT LEVEL



LNGE...

Silver anodised aluminium profile 48 x 22 mm (LAG), flat with a circular plexiglass disc and a measuring graduation in degrees, percent and ratio.  
Length: 20 cm, 30 cm, 40 cm, 50 cm, 60 cm, 80 cm, 100 cm.

**Illustrative order:** Incline spirit level, flat profile, 40 cm: LNGE040



Available with two strong magnets in both types of profiles. When ordering, please add the letter **M** to the end of code.

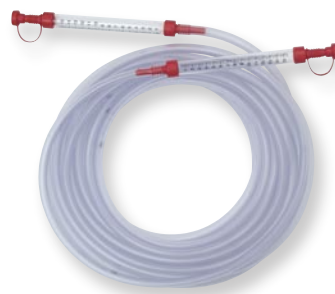
**Illustrative order:** Incline spirit level, flat profile, 60 cm, with magnets: LNGE060M

LC...

### HOSE LEVEL



Two plexiglass tubes with mm-graduation of 155 mm, with plugs and connections for the fitting of hose of 10 mm dia. or 12 mm dia.  
Application: For levelling on longer distances. **Code:** LC



On request, a PVC-hose with 10 mm dia. and 10 m or 15 m length.  
**Code:** LCC10 or LCC15



For smoothing and levelling of large areas.  
Different types of profiles for different purposes.



**Rectangular profile:**  
For smoothing of large areas made up of concrete, plaster, screed and filling materials, etc.



**Trapezoid profile:**  
For smoothing and levelling of slightly dried materials such as plaster, gypsum, etc.



**H-profile:**  
For shaping and smoothing of freshly applied materials such as plaster, screed, etc.

In rectangular profiles, we can fit one or two plexiglass vials and handles.  
Stable fixed plexiglass vials provide high measuring precision of 0.5 mm/m in normal position.

**Order instruction:**

Article number + length in cm

## ALUMINIUM SCREEDING LEVELS AND PROFILES



# ALUMINIUM SCREEDING LEVELS AND PROFILES

## ZL2L2R... ALUMINIUM SCREEDING LEVEL WITH 2 VIALS AND HANDLES



Aluminium profile, box section 100 x 18 mm, wall thickness 1.2 mm, weight 0.86 kg/m, with 1 horizontal and 1 vertical vial and with handles; ends are closed with plastic plugs.  
Length: 100 cm, 150 cm, 180 cm, 200 cm, 250 cm, 300 cm, 350 cm, 400 cm, 500 cm, 600 cm.

**Order instruction:** ZL2L2R + length in cm

Example: ZL2L2R100

## ZL2LBR... ALUMINIUM SCREEDING LEVEL WITH 2 VIALS



Aluminium profile, box section 100 x 18 mm, wall thickness 1.2 mm, weight 0.86 kg/m, with 1 horizontal and 1 vertical vial; ends are closed with plastic plugs.  
Length: 100 cm, 150 cm, 180 cm, 200 cm, 250 cm, 300 cm, 350 cm, 400 cm, 500 cm, 600 cm.

**Order instruction:** ZL2LBR + length in cm

Example: ZL2LBR150

## ZL1L2R... ALUMINIUM SCREEDING LEVEL WITH 1 VIAL AND HANDLES



Aluminium profile, box section 100 x 18 mm, wall thickness 1.2 mm, weight 0.86 kg/m, with 1 horizontal vial and with handles; ends are closed with plastic plugs.  
Length: 100 cm, 150 cm, 180 cm, 200 cm, 250 cm, 300 cm, 350 cm, 400 cm, 500 cm, 600 cm.

**Order instruction:** ZL1L2R + length in cm

Example: ZL1L2R180

## ZL1LBR... ALUMINIUM SCREEDING LEVEL WITH 1 VIAL



Aluminium profile, box section 100 x 18 mm, wall thickness 1.2 mm, weight 0.86 kg/m, with 1 horizontal vial; ends are closed with plastic plugs.  
Length: 100 cm, 150 cm, 180 cm, 200 cm, 250 cm, 300 cm, 350 cm, 400 cm, 500 cm, 600 cm.

**Order instruction:** ZL1LBR + length in cm

Example: ZL1LBR200

# ALUMINIUM SCREEDING LEVELS AND PROFILES

## ZLBL2R... ALUMINIUM SCREEDING LEVEL WITH HANDLES



Aluminium profile, box section 100 x 18 mm, wall thickness 1.2 mm, weight 0.86 kg/m, with handles; ends are closed with plastic plugs.  
Length: 100 cm, 150 cm, 180 cm, 200 cm, 250 cm, 300 cm, 350 cm, 400 cm, 500 cm, 600 cm.

**Order instruction:** ZLBL2R + length in cm

Example: ZLBL2R250

## ZLBLBR... ALUMINIUM SCREEDING LEVEL WITHOUT VIALS

## ZEBLBR... ALUMINIUM SCREEDING LEVEL WITHOUT VIALS - ECONOMIC



Aluminium profile, box section 100 x 18 mm, wall thickness 1.2 mm, weight 0.86 kg/m, (ZLBLBR) and economic type (ZEBLBR) with wall thickness 1.1 mm and weight 0.78 kg/m, both ends closed with plastic plugs.  
Length: 100 cm, 150 cm, 180 cm, 200 cm, 250 cm, 300 cm, 350 cm, 400 cm, 500 cm, 600 cm.

**Order instruction:** ZLBLBR + length in cm or ZEBLBR + length in cm

Example: ZLBLBR350 or ZEBLBR350

## Z902L2R... ALUMINIUM SCREEDING LEVEL 90 WITH 2 VIALS AND HANDLES



Aluminium profile, box section 90 x 18 mm, wall thickness 1.2 mm, weight 0.79 kg/m, with 1 horizontal and 1 vertical vial and with handles; ends are closed with plastic plugs.  
Length: 100 cm, 150 cm, 180 cm, 200 cm, 250 cm, 300 cm, 350 cm, 400 cm, 500 cm, 600 cm,

**Order instruction:** Z902L2R + length in cm

Example: Z902L2R200

## Z902LBR... ALUMINIUM SCREEDING LEVEL 90 WITH 2 VIALS



Aluminium profile, box section 90 x 18 mm, wall thickness 1.2 mm, weight 0.79 kg/m, with 1 horizontal and 1 vertical vial; ends are closed with plastic plugs.  
Length: 100 cm, 150 cm, 180 cm, 200 cm, 250 cm, 300 cm, 350 cm, 400 cm, 500 cm, 600 cm,

**Order instruction:** Z902LBR + length in cm

Example: Z902LBR250

# ALUMINIUM SCREEDING LEVELS AND PROFILES

## Z801LBR... ALUMINIUM SCREEDING LEVEL 80 WITH 1 VIAL



Aluminium profile, box section 80 x 18 mm, wall thickness 1.2 mm, weight 0.70 kg/m, with 1 horizontal vial; ends are closed with plastic plugs.

Length: 100 cm, 150 cm, 180 cm, 200 cm, 250 cm, 300 cm, 350 cm, 400 cm.

**Order instruction:** Z801LBR + length in cm

Example: Z801LBR400

## Z80BLBR... ALUMINIUM SCREEDING LEVEL 80 WITHOUT VIALS



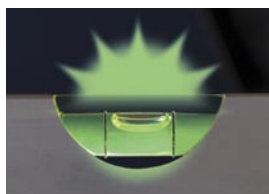
Aluminium profile, box section 80 x 18 mm, wall thickness 1.2 mm, weight 0.70 kg/m; ends are closed with plastic plugs.

Length: 100 cm, 150 cm, 180 cm, 200 cm, 250 cm, 300 cm, 350 cm, 400 cm.

**Order instruction:** Z80BLBR + length in cm

Example: Z80BLBR200

## Z80T... ALUMINIUM SCREEDING LEVEL 80 WITH STRENGTHENED WALL - LONG LIFE



Horizontal vial with fluorescent background allows measuring also in places lacking the light.

Aluminium profile, box section 83 x 18 mm, thickness of the measuring and shaping surface: 4 mm, weight 0.83 kg/m, with 1 horizontal vial (Z80T1L) or with 1 horizontal and 1 vertical vial (Z80T2L); ends are closed with plastic plugs.

Length: 100 cm, 150 cm, 180 cm, 200 cm, 250 cm, 300 cm, 350 cm, 400 cm.

**Order instruction:** Z80T1L + length in cm or Z80T2L + length in cm

Example: Z80T1L150 or Z80T2L150



# ALUMINIUM SCREEDING LEVELS AND PROFILES

ZTE...

## TRAPEZOID PROFILE



Trapezoid-shaped aluminium profile, box section 98 x 17 mm, wall thickness 1.0 mm, weight 0.69 kg/m; ends are closed with plastic plugs.

Length: 100 cm, 120 cm, 150 cm, 180 cm, 200 cm, 250 cm, 300 cm, 350 cm, 400 cm.

**Order instruction:** ZTE + length in cm

Example: ZTE100

ZH...

## H-PROFILE



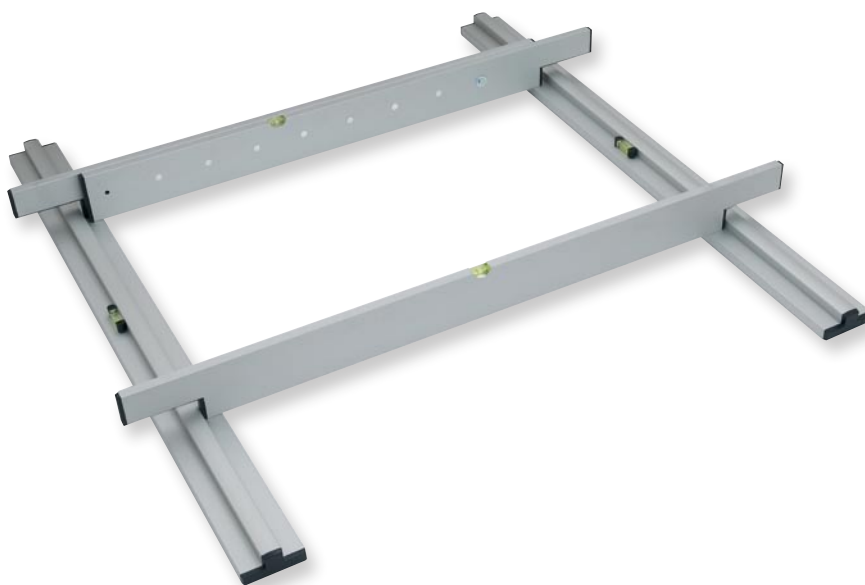
H-shaped aluminium profile, box section 114 x 28 mm, wall thickness 1.3 mm, weight 0.76 kg/m.

Length: 100 cm, 120 cm, 150 cm, 180 cm, 200 cm, 250 cm, 300 cm, 350 cm, 400 cm.

**Order instruction:** ZH + length in cm

Example: ZH400

## LEVELLING SET



It contains two basic staffs (a pair) - **ZPL**  
and one fix transverse levelling staff - **ZRLF**  
or one adjustable levelling staff - **ZRLN**.

For precise levelling of powdered materials.

Combination of set components by order request.

# ALUMINIUM SCREEDING LEVELS AND PROFILES

## ZPL... BASIC STAFFS IN PAIR



Hollow silver anodised aluminium profile T-form, box section 100 x 43 mm, weight 1.92 kg/m with 1 horizontal vial; ends are closed with plastic plugs.

Measuring accuracy: 0.5 mm/m in normal position.

Length: 125 cm, 150 cm, 200 cm, 250 cm, 300 cm, 350 cm.

**Order instruction:** ZPL + length in cm

Example: ZPL125

## ZRLF... LEVELLING STAFF



Hollow silver anodised aluminium profile, box section 100 x 18 mm, weight 0.86 kg/m with 1 horizontal vial; ends are closed with plastic plugs.

Measuring accuracy: 0.5 mm/m in normal position.

Length : 100 cm, 125 cm, 150 cm, 200 cm, 250 cm, 300 cm.

**Order instruction:** ZRLF + length in cm

Example: ZRLF150

## ZRLN... ADJUSTABLE LEVELLING STAFF



Hollow silver anodised aluminium profile, box section 100 x 18 mm, weight 0.86 kg/m with 1 horizontal vial; ends are closed with plastic plugs. With two screws for fixing of lengths at the distance of 10 cm.

Measuring accuracy: 0.5 mm/m in normal position.

**Adjustable length:**

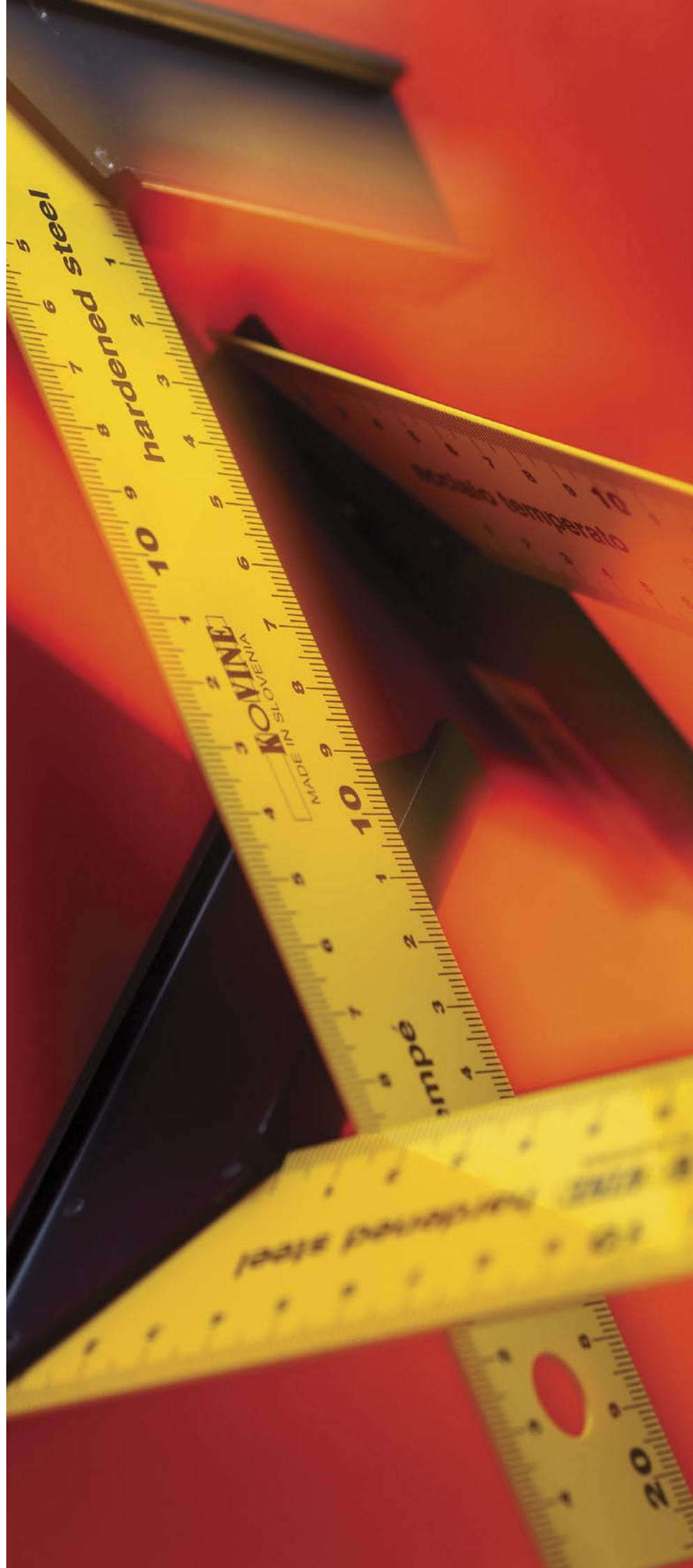
60 cm to 90 cm - ZRLN090, 100 cm to 170 cm - ZRLN170

For measuring and transferring of different angles.  
For builders, carpenters, locksmiths and joiners.

**Advantages of our squares:**

- › High quality.
- › Equipped with precise measuring scales.
- › A wide range of lengths and colours.
- › Optional printing of customer logo.

## MEASURING SQUARES



# MEASURING SQUARES

KMI...

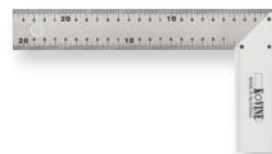
## TRY SQUARE



Measuring blade made of hardened spring steel, 40 x 1.2 mm, with mm-graduation. The support blade made of black anodised aluminium profile, I-form, 40 x 14 mm. Powder coated in yellow (RAL 1021). Other colours by agreement. Accuracy:  $\pm 0,0285^\circ = 0.5 \text{ mm/m}$ . Dimensions: 200 x 125 mm, 250 x 135 mm, 300 x 135 mm, 350 x 190 mm, 400 x 190 mm, 500 x 210 mm. **Illustrative order:** try square, length 250 mm: KMI250

KMR...

## TRY SQUARE, STAINLESS STEEL



Measuring blade made of stainless steel, 40 x 1.0 mm, with etched mm-graduation of long duration. The support blade made of silver anodised aluminium profile, I-form, 40 x 14 mm. Accuracy:  $\pm 0.0285^\circ = 0.5 \text{ mm/m}$ . Dimension: 200 x 125 mm, 250 x 135 mm, 300 x 135 mm, 400 x 190 mm, 500 x 210 mm. **Illustrative order:** try square, stainless steel, length 250 mm: KMR250

KMN250

## ADJUSTABLE TRY SQUARE



Measuring blade made of hardened spring steel, 40 x 1.2 mm. The support blade made of black anodised aluminium profile, I-form, 40 x 14 mm. For measuring and transferring of all angles. Powder coated in yellow (RAL 1021), other colours by agreement. Length of adjustable measuring blade: 250 mm.

KMA...

## ALUMINIUM TRY SQUARE



Measuring blade made of silver anodised aluminium profile 50 x 4.4 mm, with mm-graduation. The support blade made of black anodised aluminium profile, 15 x 40 mm. Accuracy:  $\pm 0.0285^\circ = 0.5 \text{ mm/m}$ . Dimensions: 300 x 200 mm, 500 x 250 mm. **Illustrative order:** aluminium try square, length 300 mm: KMA300

KMS250

## TRY SQUARE 45°



Measuring blade made of hardened spring steel, 40 x 1.2 mm. The support blade made of black anodised aluminium profile, I-form, 40 x 14 mm. For measuring of angles 45° and 135°. Coated in yellow (RAL 1021), other colours by agreement. Length of measuring blade: 250 mm.



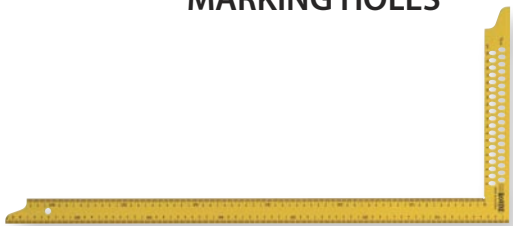
# MEASURING SQUARES

## KTBL... CARPENTER'S SQUARE, POWDER COATED



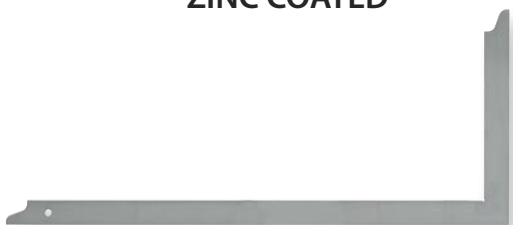
Made of hardened spring steel, 35 x 1.5 mm, with mm-graduation. Powder coated in yellow (RAL 1021). Other colours by agreement. Accuracy: +/- 0,0285° = 0.5 mm/m. Dimensions: 500 x 250 mm, 600 x 280 mm, 700 x 300 mm, 800 x 320 mm, 900 x 340 mm, 1000 x 360 mm. **Illustrative order:** Carpenter's square, yellow, length 600 mm: KTB600

## KTBL ... CARPENTER'S SQUARE, POWDER COATED, WITH MARKING HOLES



Made of hardened spring steel, 35 x 1.5 mm, with mm-graduation and marking holes at the distance of 5 mm. Powder coated in yellow (RAL 1021). Other colours by agreement. Accuracy: +/- 0.0285° = 0.5 mm/m. Dimension: 700 x 300 mm, 800 x 320 mm, 900 x 340 mm, 1000 x 360 mm. **Illustrative order:** Carpenter's square, yellow, with marking holes, length 700 mm: KTBL700

## KTC... CARPENTER'S SQUARE, ZINC COATED



Made of hardened spring steel, 35 x 1.5 mm, zinc coated. Accuracy: +/- 0.0285° = 0.5 mm/m. Dimensions: 500 x 250 mm, 600 x 280 mm, 700 x 300 mm, 800 x 320 mm, 900 x 340 mm, 1000 x 360 mm. **Illustrative order:** Carpenter's square, zinc coated, length 600 mm: KTC600

## KTCL... CARPENTER'S SQUARE, ZINC COATED, WITH MARKING HOLES



Made of hardened spring steel, 35 x 1.5 mm, zinc coated, with marking holes in distance of 5 mm. Accuracy: +/- 0.0285° = 0.5 mm/m. Dimensions: 700 x 300 mm, 800 x 320 mm, 900 x 340 mm, 1000 x 360 mm. **Illustrative order:** Carpenter's square, zinc coated, with marking holes, length 700 mm: KTCL700

## KTR... CARPENTER'S SQUARE STAINLESS STEEL

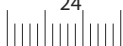


Made of stainless steel, 35 x 1.2 mm. Accuracy: +/- 0.0285° = 0.5 mm/m. Dimensions: 500 x 250 mm, 600 x 280 mm, 700 x 300 mm, 800 x 320 mm, 900 x 340 mm, 1000 x 360 mm. **Illustrative order:** Carpenter's square, stainless steel, length 700 mm: KTR700

## KTRL... CARPENTER'S SQUARE, STAINLESS STEEL, WITH MARKING HOLES



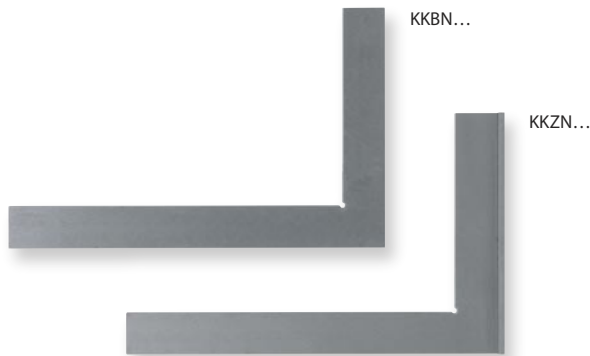
Made of stainless steel, 35 x 1.2 mm, with marking holes in distance of 5 mm. Accuracy: +/- 0.0285° = 0.5 mm/m. Dimensions: 700 x 300 mm, 800 x 320 mm, 900 x 340 mm, 1000 x 360 mm. **Illustrative order:** Carpenter's square, stainless steel, length 800 mm: KTRL800



# MEASURING SQUARES

**KKBN...**      **FLAT SQUARE**

**KKZN...**      **BACK SQUARE**



Made of constructional steel, fine ground.  
Accuracy:  $\pm 0.01425^\circ = 0.25 \text{ mm/m}$ .  
Dimensions: 100 x 70 mm, 125 x 80 mm, 150 x 100 mm, 200 x 130 mm, 250 x 165 mm, 300 x 175 mm, 400 x 230 mm.

**Illustrative order:**

- Flat square, length 150 mm: KKBN150
- Back square, length 300 mm: KKZN300

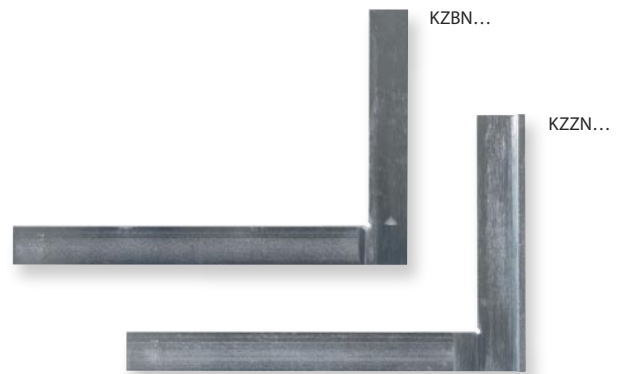
**KZP400**      **FLANGE STEEL SQUARE**



Made of sharp-edge steel in St 37 quality, 30 x 5 mm, zinc coated.  
Accuracy:  $\pm 0.0285^\circ = 0.5 \text{ mm/m}$ .  
Blade length: 400 mm  
Flange space required: 120 x 65 mm  
Application: for exact adjustment of flanges.  
Other dimensions per request.

**KZBN...**      **MASON'S SQUARE WITHOUT BACK**

**KZZN...**      **MASON'S SQUARE WITH BACK**



Made of sharp-edge steel in St 37 quality, thickness 5 mm, zinc coated.

Accuracy:  $\pm 0.0285^\circ = 0.5 \text{ mm/m}$ .

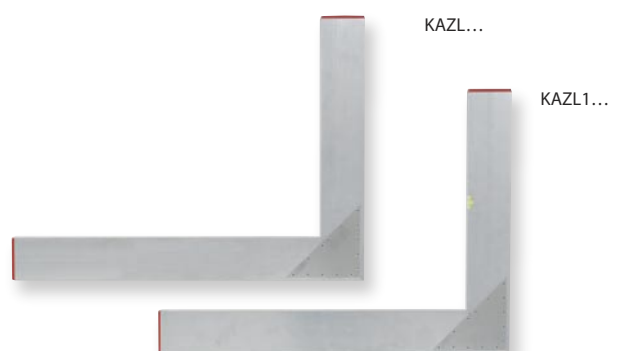
Dimensions: 100 x 70 mm, 125 x 80 mm, 150 x 100 mm, 200 x 130 mm, 250 x 160 mm, 300 x 175 mm, 400 x 230 mm, 500 x 280 mm, 600 x 330 mm, 700 x 375 mm, 750 x 395 mm, 800 x 420 mm, 1000 x 500 mm.

**Illustrative order:**

- Mason's square without back, length 400 mm: KZBN400
- Mason's square with back, length 500 mm: KZZN500

**KAZL...**      **BUILDER'S SQUARE**

**KAZL1...**      **BUILDER'S SQUARE WITH VIAL**



Made of hollow aluminium profile, box section 100 x 18 mm, wall thickness 1.2 mm; ends are closed with plastic plugs.

Model KAZL1 - with 1 horizontal plexiglass vial.

Accuracy:  $\pm 0.0285^\circ = 0.5 \text{ mm/m}$ .

Dimensions: 60 x 80 cm, 80 x 80 cm, 80 x 120 cm, 100 x 100 cm, 100 x 150 cm, 120 x 160 cm, 150 x 150 cm.

**Illustrative order:**

- Builder's square, 80 x 120 cm: KAZL 80X120
- Builder's square with a vial, 80 x 80 cm: KAZL1 80X80

# MEASURING SQUARES

**KALT...** CRAFTSMEN'S SQUARE,  
POWDER COATED

**KALT2...** CRAFTSMEN'S SQUARE WITH  
VIALS, POWDER COATED

Made of yellow powder coated hollow aluminium profile (LAT), box section 48 x 22 mm; ends are closed with plastic plugs.

Model KALT2 - with 1 horizontal and 1 vertical plexiglass vial.

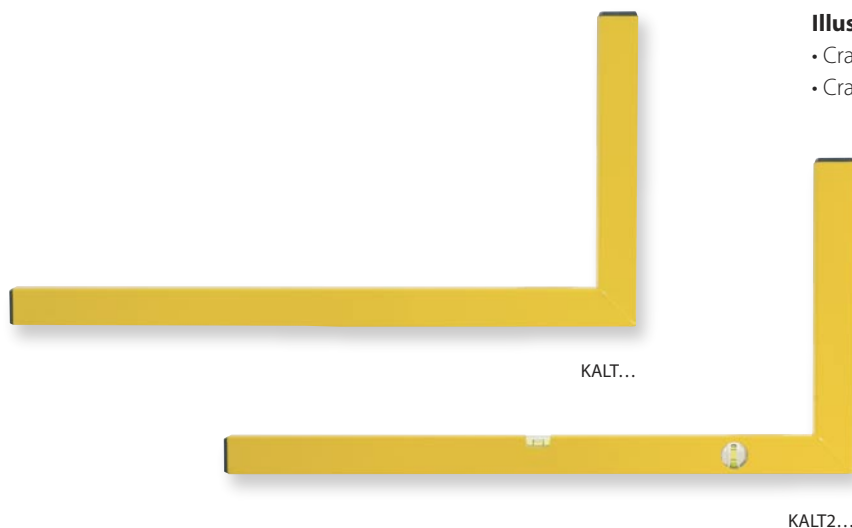
Accuracy:  $\pm 0.0285^\circ = 0.5 \text{ mm/m}$ .

Dimensions: Model KALT: 120 x 80 cm, 150 x 100 cm,

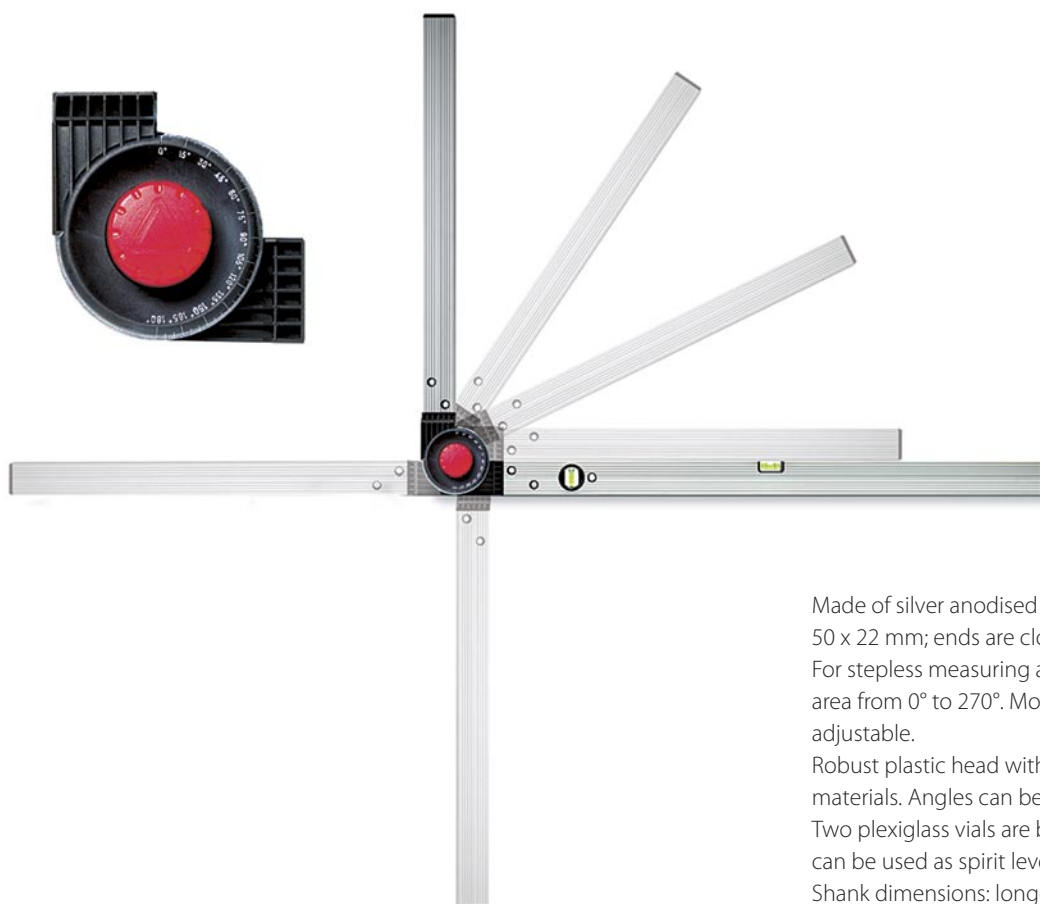
Model KALT2: 80 x 40 cm.

**Illustrative order:**

- Craftsmen's square, 120 x 80 cm: KALT 120x80;
- Craftsmen's square with vials, 80 x 40 cm: KALT2 80x40



**KALG 080** MULTIPLE BUILDER'S SQUARE



Made of silver anodised aluminium profile, box section 50 x 22 mm; ends are closed with plastic plugs.

For stepless measuring and transferring of angles in the area from  $0^\circ$  to  $270^\circ$ . Mobility of measuring shanks is adjustable.

Robust plastic head with scale is produced of quality materials. Angles can be fixed in  $15^\circ$  steps.

Two plexiglass vials are built in and therefore the square can be used as spirit level as well.

Shank dimensions: longer 80 cm, shorter 60 cm.

# MEASURING SQUARES

KALA... ANGLE MEASURER WITH DIAL GAUGES



Made of orange coated hollow aluminium profile. For stepless measuring and transferring of angles in the area from 0° to 210°. Measuring clock steps are 1°. Mobility of measuring shanks is adjustable. Applicable also as a normal spirit level or as a circle (removable steel points). Packed in a strong, plastic case. Length without steel points: 45 cm (KALA045) and 60 cm (KALA060)

KALD060 ANGLE MEASURER - DIGITAL

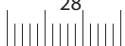


Made of orange coated hollow aluminium profile. For stepless measuring and transferring of angles in the area from 0° to 355°. Reading from the LCD display in steps of 0,1°. The measured values are saved with the HOLD button. Applicable also as a spirit level. Loading: battery 4 x 1,5 V AA (alkaline), included in delivery scope. Packed in a strong, plastic case. Length: 60 cm



## METAL RULES

- › For different applications in the building industry, crafts and in school.
- › Made of quality and straight profiles.
- › High-quality graduations for precise measuring.
- › Long life.



# METAL RULES

## RAG... FLAT ALUMINIUM RULE RAGR... FLAT ALUMINIUM RULE WITH HANDLE



RAG S1...



RAGR S1...



RAG S2...



RAGR S2...



Made of silver anodised aluminium profile, cross section 60 x 4.4 mm with facet, weight 0.60 kg/m, with one-sided mm-graduation (S1) or with two-sided mm-graduation (S2). Model RAGR - with handle.

Length: 40 cm, 50 cm, 60 cm, 80 cm, 100 cm.

### Illustrative order:

Flat aluminium rule, length 50 cm with one-sided mm-graduation: RAG050S1

Flat aluminium rule with handle, length 60 cm, with two-sided mm-graduation: RAGR060S2

## RAE... ERGONOMIC ALUMINIUM RULE



Made of silver anodised aluminium profile, cross section 60 x 5 mm with facet, weight 0.60 kg/m, with one-sided mm-graduation (S1).

Length: 40 cm, 50 cm, 60 cm, 80 cm, 100 cm.

**Illustrative order:** Ergonomic aluminium rule, length 50 cm: RAE050S1



## RJB... STEEL RULE, POWDER COATED

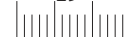


Made of hardened spring steel, 40 x 1.2 mm, yellow powder coated, with mm-graduation.

Other colours by agreement.

Length: 30 cm, 40 cm, 50 cm, 60 cm, 80 cm, 100 cm.

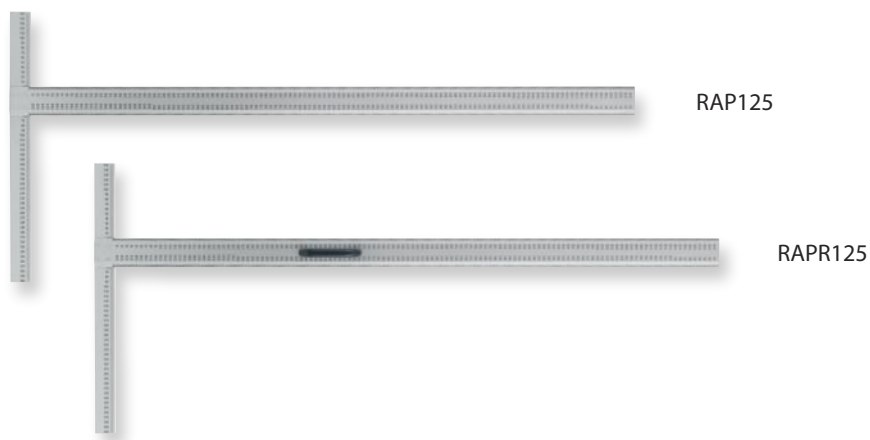
**Illustrative order:** Steel rule, yellow, length 30 cm: RJB030



# METAL RULES

RAP125  
RAPR125

## ALUMINIUM RULE WITH SUPPORT ALUMINIUM RULE WITH SUPPORT AND HANDLE



Made of silver anodised aluminium profile, cross section 60 x 4.4 mm with facet and support: silver anodised angle aluminium profile, 40 x 20 x 3 mm, with mm-graduations.

For carrying of rectangular lines in construction and in schools.

Dimension: 1250 x 560 mm.

For bigger orders, lengths are available on request.

RAN125  
RANR125

## ALUMINIUM RULE WITH FLEXIBLE SUPPORT ALUMINIUM RULE WITH FLEXIBLE SUPPORT AND HANDLE



Made of silver anodised aluminium profile, cross section 60 x 4.4 mm, with mm-graduation and support: silver anodised hollow aluminium profile, box section 100 x 18 mm; ends are closed with plastic plugs, with a flexible fastening handle and a measuring angular graduation.

For measuring and transferring of angles between 0° and 180°.

Dimension: 1250 x 400 mm.

For bigger orders, lengths are available on request.

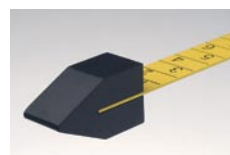
RJD060

## STEEL RULE FOR BOARDS

Made of hardened spring steel, 20 x 1.2 mm, with cm-graduation. Powder coated in yellow colour. Black quality plastic back is added.

Used for measuring of the width of boards.

Dimension: 60 cm.







## MEASURING TAPES, WOODEN RULES, TELESCOPIC MEASURING STAFFS

- › They are made of high-quality materials which assure high measuring accuracy and long life.
- › Our program offers a wide range of metal and plastic tapes, and wooden rules for all kind of applications.
- › They comply to the accuracy classes II and III.
- › Length: from 1 m up to 100 m.

# MEASURING TAPES, WOODEN RULES, TELESCOPIC MEASURING STAFFS

## MB... POCKET TAPE, YELLOW



Yellow plastic case ABS, with lock lever. Yellow tape with mm-graduation.

Accuracy: class II.

Tape width: 13 mm (2 m, 3 m) and 16 mm (5 m).

Length: 2 m, 3 m, 5 m.

**Illustrative order:** Pocket tape, yellow, length 3 m: MB3

## MK... POCKET TAPE, CHROMIUM PLATED



Plastic case ABS, chromium plated, with lock lever. Silver tape with mm-graduation.

Accuracy: class II. Tape width 13 mm.

Length: 2 m, 3 m.

**Illustrative order:** Pocket tape, chromium plated, length 3 m: MK3

## MZB... POCKET TAPE WITH BELT CLIP

Yellow plastic case ABS, with lock lever, belt clip and carrying strap. Yellow tape with mm-graduation. Accuracy: class II.

Tape width: 13 mm (2 m, 3 m), 18 mm (5 m) and 25 mm (8 m, 10 m).

Length: 2 m, 3 m, 5 m, 8 m, 10 m.

**Illustrative order:** Pocket tape with belt clip, length 10 m: MZB10



## MM... POCKET TAPE WITH BELT CLIP, MAGNETIC

Plastic case ABS, rubberized, with two dynamic and one lock levers, belt clip and carrying strap.

Yellow tape with mm-graduation.

Accuracy: class II.

Tape width: 16 mm (3 m), 19 mm (5 m) and 25 mm (8 m, 10 m).

Two strong magnets are mounted on the measuring hook, to facilitate work on ferromagnetic materials.

Length: 3 m, 5 m, 8 m, 10 m.

**Illustrative order:** Pocket tape with belt clip, magnetic, length 8 m: MM8





# MEASURING TAPES, WOODEN RULES, TELESCOPIC MEASURING STAFFS

## MVE... MEASURING TAPE ON FRAME- ERGOLINE

Tape on a professional, rubberized, bearing-supported frame. Crank arm can be changed from the right to left hand operation. Steel tape, yellow colour, width 13 mm, protected with polyamid resin. Graduation on measuring tape in mm or cm begins with a shift of approx. 10 cm from its beginning. Accuracy: class II.

Length: 20 m, 30 m and 50 m.

**Order instruction:** MVE + length in m + graduation.

Example:

- length 50 m, graduation in cm: MVE050CM
- length 30 m, graduation in mm: MVE030MM



20 m



30 m, 50 m

## MVB... MEASURING TAPE ON FRAME - BASIC

Tape on a bearing-supported frame. Steel tape, white colour (B), width 13 mm. Crank arm can be changed from the right to left hand operation. Graduation on measuring tape in mm begins with a shift of approx. 10 cm from its beginning. Length: 20 m, 30 m, 50 m and 100 m.

Accuracy: class II.

Possible delivery with yellow tape, protected with polyamid resin (R), up to 50 m length (as in case of MVE type).

**Order instruction:** MVB + tape + length in m.

Example:

- white tape, length 50 m: MVBB050
- yellow tape, length 30 m: MVB030



20 m, 30 m, 50 m



100 m

## MVN... MEASURING TAPE ON FRAME, NYLON COATED

Tape on a professional, rubberized, bearing-supported frame. Winding mechanism allows tape winding at trice speed. Steel tape, white colour, width 13 mm, nylon coated. Graduation on measuring tape in mm begins with a shift of approx. 15 cm from its beginning.

Accuracy: class II.

Length: 30 m and 50 m.

**Order instruction:** MVN + length in m.

Example: length 50 m: MVN050



# MEASURING TAPES, WOODEN RULES, TELESCOPIC MEASURING STAFFS

## MVK... MEASURING TAPE ON FRAME

Tape on a bearing-supported frame. Steel tape, yellow colour, width 13 mm. Graduation on measuring tape in mm begins with a shift of approx. 10 cm from its beginning.

Accuracy: class II.

Length: 30 m and 50 m.

**Order instruction:** MVK + length in m.

Example: length 50 m: MVK050



## MOR... MEASURING TAPE IN CASE - RADIUS

Tape in a case made of high impact resistant plastics. Bearing-supported mechanism for the left or right-hand application. Plastic measuring tape strengthened with glass fibre, yellow colour, width 13 mm. Graduation on measuring tape in cm begins with a shift of approx. 10 cm from its beginning.

Accuracy: class II.

Length: 20 m and 30 m.

**Order instruction:** MOR + length in m.

Example: length 30 m: MOR030



## MOF... MEASURING TAPE IN CASE, FIBERGLASS

Tape in a case made of high impact and shock resistant plastics. Plastic measuring tape strengthened with glass fibre, yellow colour, width 13 mm. Graduation on measuring tape in mm begins with a shift of approx. 10 cm from its beginning.

Accuracy: class III.

Length: 20 m, 30 m and 50 m.

**Order instruction:** MOF + length in m.

Example: length 30 m: MOF030



## MO5... MEASURING TAPE IN CASE - 555

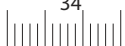
Tape in a case made of shock resistant plastics. Steel tape, white colour, width 10 mm. Graduation on measuring tape in mm begins with a shift of approx. 10 cm from its beginning.

Accuracy: class II.

Length: 10 m, 20 m and 30 m.

**Order instruction:** MO5 + length in m.

Example: length 20 m: MO5020



# MEASURING TAPES, WOODEN RULES, TELESCOPIC MEASURING STAFFS

## MOJ... STEEL MEASURING TAPE IN CASE

Tape in a rubberized case made of shock resistant plastics. Steel tape, yellow colour, width 10 mm, nylon coated. Graduation on measuring tape in mm begins with a shift of approx. 10 cm from its beginning.

Accuracy: class II.

Length: 10 m, 20 m and 30 m.

**Order instruction:** MOJ + length in m.

Example: length 10 m: MOJ10



## ML... WOODEN FOLDING RULE

Made of high-quality beech wood, with high breaking resistance.

Ecological colours and lacquers for strong protection against moisture, temperature influence and mechanical damage.

Riveted, brass-plated spring joints ensure permanent use and measuring accuracy.

Section thickness: 3 mm, section height: 16 mm.

Accuracy: class III.

Length: 1 m, 2 m.

Colours: white (code MLB), yellow (code MLR), white/yellow (code MLK), transparent lacquer (code MLN).

Other colours on agreement.

Different scales on first section: standard double scale (S) and advertising scale below (R)

For advertising - printing of customer logo on first section or sideways, one-sided or two-sided.

**Order instruction:**

ML + colour + length in m + scale-type.

Example:

- wooden folding rule, white, length 2 m, advertising scale below: MLB2R
- wooden folding rule, yellow, length 1 m, standard scale: MLR1S



MLB1S



MLB1.



MLB2S



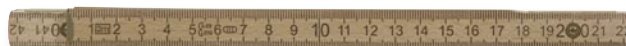
MLB2R



MLK2S



MLB2.



MLN2S



MLN2.



MLR2S



MLR2.

## MLB2M WOODEN FOLDING RULE

Same quality characteristics as above, standard double scale.

Riveted joint springs consisting of plastic.

Length: 2m. Colour: white.

Ideal for advertising printing of customer logo sideways, one-sided or two-sided.



MLB2M



MLB2M

# MEASURING TAPES, WOODEN RULES, TELESCOPIC MEASURING STAFFS

## MT... TELESCOPIC MEASURING STAFF

Made of six composed, quality aluminium profiles, with horizontal vial and vertical bull's-eye vial.

Reading of the measured length in mm in inspection glass, with travelling measuring tape, when pulling out any section.

Accuracy: class II.

**Order instruction:** MT + max. length in cm.

DATA \ STAFF	MT300	MT400	MT500
MAX. LENGTH (cm)	300	400	500
MIN. LENGTH (cm)	70	86,5	107
WEIGHT (kg)	1,3	1,5	2



## MTL... TELESCOPIC MEASURING STAFF - SPIRIT LEVEL

Two measuring instruments are integrated in a strong case of silver anodised aluminium: a spirit level and a telescopic measuring staff. With a vial for horizontal and vertical measuring of 0,5 mm/m accuracy in normal and inverted position. With bull's-eye vial for defining the total vertical position of the telescopic measuring instrument.

Reading of the measured length in mm in inspection glass, with a travelling measuring tape when pulling out the rods. Rods are made of glass fibre reinforced plastics. Measuring end cap allows outside and inside measurements.

Accuracy: class II.

Carrying case included.

**Order instruction:** MTL + max. length in cm.



DATA \ STAFF	MTL320	MTL410	MTL510
MAX. LENGTH (cm)	320	410	510
MIN. LENGTH (cm)	65	80	100



# MEASURING TAPES, WOODEN RULES, TELESCOPIC MEASURING STAFFS

## MS TAILOR'S TAPE

Tape made of fibre glass plastics, graduation on both sides, closed with a metal cap. Measuring scale in cm (the first 10 cm of the scale have mm-graduation), an added scale with 2:1 ratio (for defining of a ready-made number).  
Length: 150 cm.



## MKR TAILOR'S TAPE IN CASE

Handy casing made of quality plastics, with mechanism for automatic tape winding, activated by pressing a button. Measuring tape made of fibre glass plastics, with mm-graduation on both sides.  
Length: 150 cm.



## MLM WOODEN POLE METER

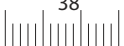
Produced of quality beech wood, dimensions 1.5 x 2.5 x 100 cm, with metal caps. Graduation in cm on both sides.





## LASER PROGRAM

- › High quality laser instruments for simple and single-hand application, time efficient.
- › For simple and quick measuring of distances, different levelling, transfer of heights and for simple horizontal and vertical levelling.
- › Laser technology complies with international safety standards.
- › Wide range of accessories for different applications and situations.
- › Laser technology is robust, allowing application under severe conditions; developed for practical applications.



# LASER PROGRAM

**BLL...**

## LASER LEVEL



Made of quality aluminium profile, grey powder coated. With a strong magnet in the milled surface, for holding on a metal surface or on the levelling platform (BVG) that allows rotation of the level by 360°.

Laser wave-length is 670 nm. The parallelism of the beam axis is 0.1 mm/m in relation to the measuring plane. The mounting tolerance of the horizontal vial is 0,25 mm/m.

Laser: class 2, output < 1 mW.

Loading: batteries, 2 x 1.5 V AAA (alkaline), included in delivery scope, 8 hours continuous light.

Laser ray range in rooms: 30 m.

Protected against dust and moisture.

Delivered in a strong, plastic and transparent tube.

Length: 35 cm (BLL035) and 80 cm (BLL080)

## ACCESSORIES FOR LASER LEVEL

**BVG**

### LEVELLING PLATFORM

Heavy-weight metal design. Rotating, bearing-supported. Bull's-eye vial integrated in the rotation disc. Quick calibration by means of 2 levelling screws.

The device can be used as a stand-alone unit on the floor or on a tripod (1/4, 3/8 and 5/8 inch thread). Uncontrolled rotation avoided with an integrated brake.



**BOP...**

### BEAM DEFLECTING PRISM

For deflection of a laser beam by 90° (model BOP1), with the possibility of 360° rotation. With adapter which is included in delivery scope it can be fixed on the laser level, and it can be easily removed with the integrated magnet. Model BOP2: deflection 50 % of laser power under angle 90°, and 50 % travel further in the direction of the basic ray without interruption.



BOP1

BOP2

# LASER PROGRAM

**BST...**

## **TRIPOD**

Made of light metal design. Connecting thread 5/8 inch. Height can be changed with a simple stretching mechanism. Model BST242 is additionally provided with a crank lift for legs' stretching.

Model BST160: min. height 105 cm, max. height 160 cm

Model BST242: min. height 112 cm, max. height 242 cm



BST242



BST160

**BOL**

## **LASER SPECTACLES**

Improve the visibility of laser rays in unfavourable light conditions.



# LASER PROGRAM

BLS

## LASER SET



Set in a carrying case (450 x 300 x 160 mm) includes a laser level with 35 cm length (BLL035), a levelling platform (BVG), a beam deflecting prism (BOP1) and laser spectacles (BOL). Technical characteristics are the same as for single components.

BLM

## AUTO LEVELLING DOTS & LINES LASER - AUTOMAGIC

Auto levelling 5 dot and lines laser is used for levelling and aligning inside. The laser dots and lines can be activated in combination. The laser unit can also provide inclined lines.

### Technical data:

Laser diode: red diode laser, 635 nm, power 2M (EN60825-1)

Levelling: automatically in zone  $+/- 3^\circ$

Levelling precision: line laser  $+/- 3,0 \text{ mm}/10 \text{ m}$ ; horizontal accuracy of dot laser  $+/- 3,0 \text{ mm}/10 \text{ m}$ ;

vertical accuracy of dot laser – up  $+/- 1,5 \text{ mm}/3 \text{ m}$ ; vertical accuracy

of dot laser – down  $+/- 1,5 \text{ mm}/2 \text{ m}$

Receive range: to 30 m with receiver

Fan angle:  $150^\circ$

Power voltage: 3 x 1,5 V battery type AA LR6

Dimension: 116x69x112 mm (LxWxH)

Weight: 500 g

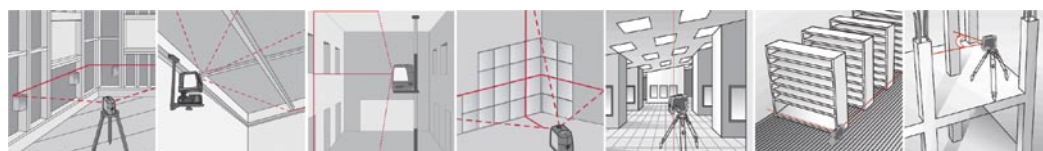
Included in set: Automagic, magnetic multifunction base with connecting thread  $1/4''$  and  $5/8''$  for the tripod, target plate, battery, soft bag.



BLM-SET

## AUTOLEVELLING LASER AUTOMAGIC + ELECTRONIC LASER DETECTOR

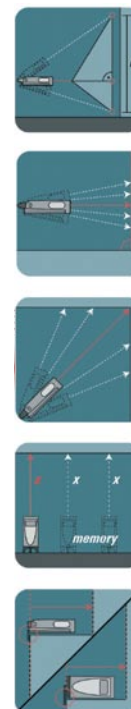
Additionally provided with the BLM laser is an electronic laser detector (charging 9V) which at usage outside acoustical signals reception of the laser beam.



# LASER PROGRAM

## BD LASER DISTANCE METRE – DISTO D5

- for accurate measurements, especially of larger distances on heavy approachable places, without additional assistance;
- measuring is done quickly, exactly in the laser point that we see;
- digital Point finder with 4 x zoom and high resolution colour display;
- features like trapezium function, Pythagorean functions, 45° tilt sensor, power range technology;
- it allows defining of three different starting measuring points (in front, behind, tripod);
- measuring accuracy: +/- 1 mm, range 200 m;
- all other models available.



## BU ULTRASONIC DISTANCE METRE WITH LASER

Professional instrument allows simple ultrasonic measuring of distance. Integrated accurate laser indicator of the area performing the measurement. Measured amounts and used functions are shown on a big LCD display. The calculating is done with special function buttons.

It allows defining of two different starting measuring points (in front, behind). Function for automatic switch off.

### Technical data:

Loading: battery, 9V (alkaline), included in delivery scope.

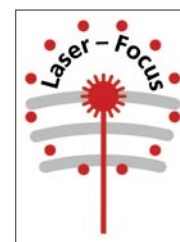
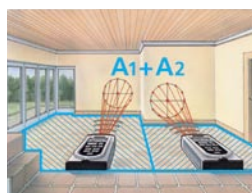
Laser: 635 – 650 nm, laser power < 5 mW.

Measuring range: from 0.6 m to 15 m.

Accuracy: 0.5 %.

Dimension: 130 x 60 x 40 mm.

Packed in blister.







## OTHER MEASURING TOOLS

- › Complement and round our measuring tool selection.
- › Made of high-quality materials.
- › High measuring precision.
- › Long life.
- › Different applications in industry, building, crafts and home works.

# OTHER MEASURING TOOLS

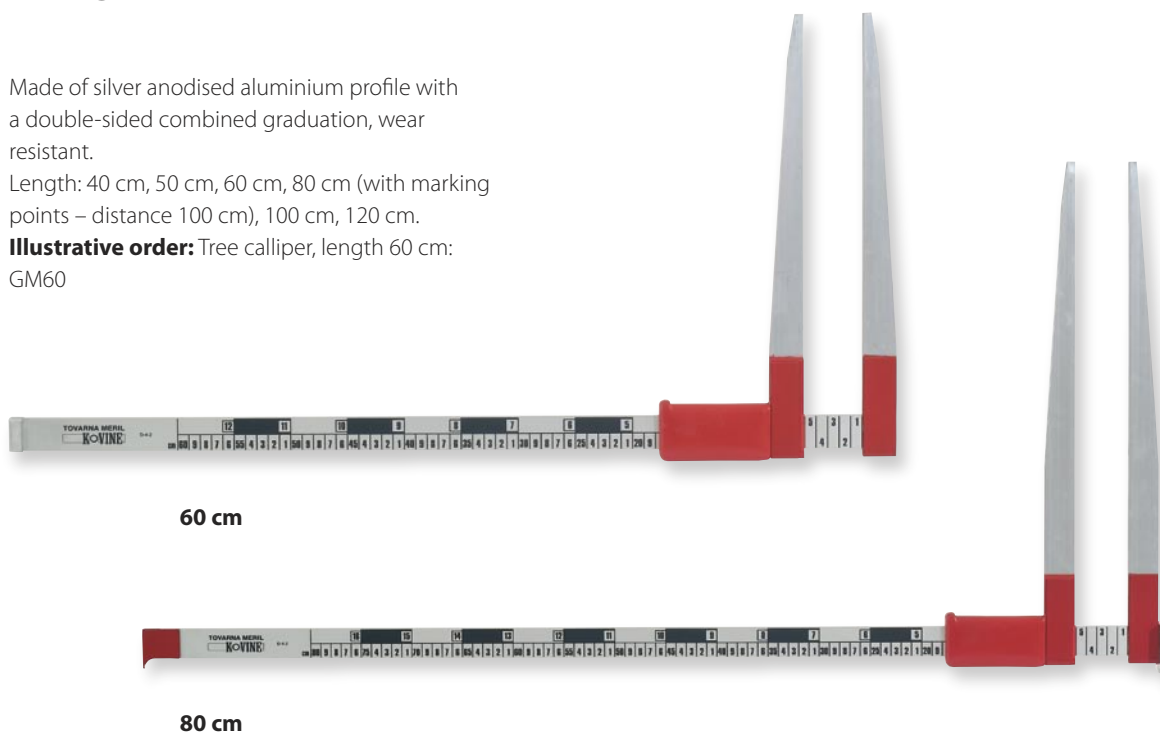
## GM... TREE CALLIPER

Made of silver anodised aluminium profile with a double-sided combined graduation, wear resistant.

Length: 40 cm, 50 cm, 60 cm, 80 cm (with marking points – distance 100 cm), 100 cm, 120 cm.

**Illustrative order:** Tree calliper, length 60 cm:

GM60



## HSB PLUMB, POWDER COATED

Made of quality alloy Zn Al 4, weight 130 g with 5 m long nylon string.

Yellow RAL 1021 powder coated or red RAL 2002 powder coated.



## HSC PLUMB, ZINC PLATED WITH PLATE

Made of quality steel, weight 170 g, with 4 m long string.

Length of plate side is the same as the diameter of the plumb.



# OTHER MEASURING TOOLS

## OPA VERNIER CALLIPER

Made of stainless steel, satin-chromed graduation.  
For outside and inside measurements, and depth measurements. Integrated locking screw.  
Measuring range: 150 mm.  
Minimal reading: 0.02 mm.  
Jaw length: 40 mm.



## OPD DIGITAL CALLIPER

Made of stainless steel, satin-chromed graduation.  
For outside and inside measurements, and depth measurements. With big LCD display, 11 mm, showing the measured value in mm or inches.  
Integrated data output, locking screw and thread table.  
According to DIN 862.  
Measuring range: 150 mm.  
Minimal reading: 0.01 mm.  
Jaw length: 40 mm.



## OPU DIAL CALLIPER

Made of stainless steel, satin-chromed graduation.  
For outside and inside measurements, and depth measurements. Integrated locking screw and thread table.  
According to DIN 862.  
Measuring range: 150 mm.  
Minimal reading: 0.02 mm.  
Jaw length: 40 mm.



## OMZ EXTERNAL MICROMETER

Made of quality casting. Measuring surface made of hardened alloy. Spindle 6.5 mm dia., with locking lever and ratchet.  
According to DIN 863.  
Measuring range: 0 – 25 mm.  
Minimal reading: 0.01 mm.



# OTHER MEASURING TOOLS

OMU

## DIAL GAUGE

Clock: 58 mm dia.  
Clamp: 8 mm dia.  
Integrated adjustable tolerance marks.  
Measuring range: 10 mm.  
Scale: 0 – 100.  
Minimal reading: 0.01 mm.

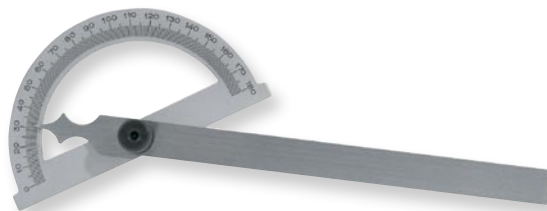


OK...

## PROTRACTOR

Satin-chromed graduation allows measuring of angles from 0° to 180°. Fixing with locking screw.

**Order instruction:** OK + scale diameter in mm.



PROTRACTOR	OK120	OK150	OK200
SCALE DIAMETER (mm)	120	150	200
LEG LENGTH (mm)	150	200	300

OML

## FEELER GAUGES

Made of quality spring steel. 20 blades, thickness of 0.05 to 1 mm in raster of 0.05 mm in a chromed steel case. Blade length: 10 cm.



# OTHER MEASURING TOOLS

## OMK1 MEASURING WHEEL, STANDARD

Sturdy, disc-tape steel wheel with a solid rubber tyre allows measuring forwards and backwards. Nickel-plated, folding handle for easier transport. Measuring counter in cm has a reset lever. Integrated parking handle and a brake for simple application.

Measuring range: 9,999.99 m.

Tolerance: under 0.05 %.

Wheel diameter: 318.3 mm = 1 m girth.

Weight: 3.9 kg.

Max. height: 109 cm.



## OMK2 MEASURING WHEEL, LIGHT

Made of high-quality plastics, very light. The wheel allows measuring forwards and backwards. Measuring counter in cm has a reset lever. Integrated parking handle and a brake for simple application. Nickel-plated, folding handle allows simple transport.

Measuring range: 99,999.99 m.

Wheel diameter: 318.3 mm = 1 m girth.

Weight: 2.2 kg.

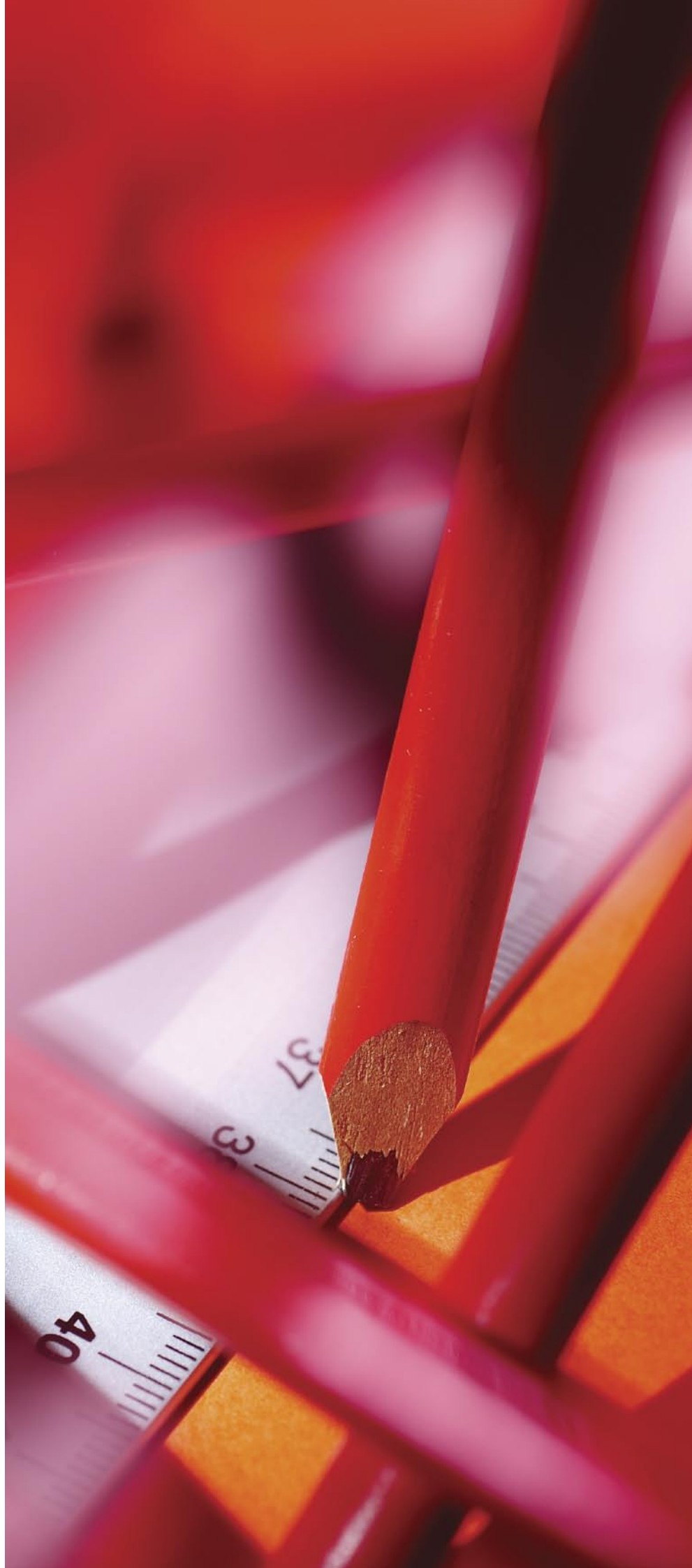
Max. height: 99 cm.





## MARKING ASSORTMENT

For drawing and marking on the field,  
by assembly, building construction,  
panelling and similar.



# MARKING ASSORTMENT

## RTS CARPENTER'S PENCIL – SET



Made of quality wood with graphite, hardness HB.  
Length: 18 cm.  
Three pieces packed in a plastic foil with a hanging cardboard.

## RVB... MASON'S LINE, WHITE



Quality line made of polypropylene, 1.5 mm dia., white colour.  
Resistant to moisture and water.  
Length: 25 m, 50 m and 100 m.

**Illustrative order:** Mason's line, white, length 100 m: RVB100

## RI SCRIBER



Made of quality steel, equipped with a pocket clip. With a point made of high-alloyed steel that assures long life of drawing on different hard grounds.

## RVF100 MASON'S LINE, FLUORESCENT



Quality line made of polypropylene, 1.5 mm dia., yellow fluorescent. Resistant to moisture and water.  
Length: 100 m.

**Illustrative order:** Mason's line fluorescent, length 100 m: RVF100

## RS... SPRING DIVIDER



Points made of hardened spring steel allow drawing of circumferences on different grounding. Shanks of quality steel are connected with a spring. Distance is regulated by a spindle and quick-locking nut.

Shanks length: 150 mm, 200 mm, 250 mm, 300 mm.

**Illustrative order:** Spring divider, length 150 mm: RS150

## ADVERTISING ITEMS

- › For advertising and gifts.
- › Practical value.
- › Printing of advertising and logo;  
one or more colours.



# ADVERTISING ITEMS

LAG....

ALU-SPIRIT LEVEL



All levels of LAG model, in different colours and different types of horizontal vials are convenient for advertising. Colours and executions on agreement, with 1, 2 or 3 plexiglass vials. Accuracy: 0.5 mm/m in normal position. Length: 15 cm (with 1 horizontal vial), 20 cm (with 1 or 2 vials), 30 cm, 40 cm, 50 cm, 60 cm, 80 cm, 100 cm, 120 cm (with 2 or 3 vials).

**Order instruction:** see page 7: Order survey for alu-spirit levels.

Max. size of the printing varies depending on the length of level, or on agreement.

HRL150

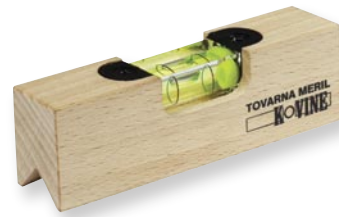
WOODEN ADVERTISING SPIRIT LEVEL



Made of high quality, correctly stored and dried beech wood, with one horizontal plexiglass vial. Measuring accuracy: 1 mm/mm. Length: 15 cm. Maximal print size: 130 x 12 mm.

HRL110

WOODEN ADVERTISING SPIRIT LEVEL



Made of high quality, correctly stored and dried beech wood, with one horizontal plexiglass vial. With prismatic measuring surface for a measuring of round tubes, frames, shelves.. Measuring accuracy: 1 mm/mm. Length: 11 cm. Maximal print size: 90 x 10 mm.

HRL250

PLASTIC SPIRIT LEVEL - TORPEDO



Made of high – quality plastic case, with two plexiglass vials. Measuring accuracy: 1 mm/m in normal position. Length: 25 cm, colours : red and yellow. Maximal print size: 50 x 25 mm

HRL180

ADVERTISING SPIRIT LEVEL



High-quality plastic case, with horizontal plexiglass vial. Accuracy: 1 mm/m in normal position. Colours: yellow, red, black Length: 180 mm Maximal print size: 60 x 20 mm



# ADVERTISING ITEMS

## ML... WOODEN FOLDING RULE



Made of high-quality beech wood.  
 Section thickness: 3 mm, section height: 16 mm.  
 Accuracy: class III.  
 Lengths: 1 m, 2 m.  
 Colours: white (code MLB), yellow (code MLR), white/yellow (code MLK), transparent lacquer (code MLN).  
 Other colours on agreement.  
 Different scales on first section: standard double scale (S) and advertising scale below (R).  
 For advertising - printing of customer logo sideways or on first section, one or two-sided.  
 Max. print size sideways, possible for all types of wooden rules: 110 x 20 mm.  
 Max. print size on the model with the scale below: 60 x 5 mm.  
**Order instruction:** ML + colour + length in m + scale-type.  
 Example:

- wooden folding rule, white, length 2 m, one-sided scale below: MLB2R
- wooden folding rule, yellow, length 1 m, standard scale: MLR1S
- model MLB2M: wooden folding rule, white, length 2 m, advertising

## MZB3 POCKET TAPE WITH BELT CLIP, 3M



Yellow plastic case ABS, with lock lever, belt clip and carrying strap. Yellow tape with mm-graduation. Accuracy: class II.  
 Tape width: 13 mm.  
 Length: 3 m.  
 Possible printing of labels on agreement.

## HKM ANGLE GAUGE



Quality plastic case, 100 x 100 x 14 mm.  
 For measuring of inclination in angle degrees.  
 With table for inclination estimation from angle degrees in cm/m on the back side.  
 Colours: black, white, blue.  
 Possible printing on agreement on the front side label.

## HOL KEY LOCKET – PLEXIGLASS VIAL HOM KEY LOCKET – TAPE MEASURE



Plexiglass vial, 15 x 15 x 40 mm with a chain and spring hook – HOL.  
 Max. print size: 35 x 12 mm  
 Tape measure, 1 m with a chain and spring hook – HOM.  
 Max. print size: 20 mm

## RT CARPENTER'S PENCIL



Made of quality wood with graphite, hardness HB.  
 Length: 18 cm.  
 Max. print size: 60 x 6 mm.



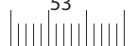
# HAND TOOLS

The production programme of hand tools supplements our sales programme.

## **Application:**

- › Sand levelling.
- › Levelling of bitumen, asphalt, concrete ground and different surfaces on buildings grounds.
- › Cleaning of dirt, water, snow and oil spills from the streets.
- › Getting the sand between concrete paving plates.
- › Cleaning of toilet and bathroom, garage and swimming pools.
- › Plate sealing.

Made of high-quality aluminium, steel and other wear resistant materials.



# HAND TOOLS

CRGN060  
CRGN080

FLAT LEVELLING TOOL, 60 cm, with handle accessory  
FLAT LEVELLING TOOL, 80 cm, with handle accessory



CRZN060  
CRZN080

COGGED LEVELLING TOOL, 60 cm, with handle accessory  
COGGED LEVELLING TOOL, 80 cm, with handle accessory



CRTN060  
CRTN080

TRAPEZOID LEVELLING TOOL, 60 cm, with handle accessory  
TRAPEZOID LEVELLING TOOL, 80 cm, with handle accessory



# HAND TOOLS

CRBN100

LEVELLING TOOL FOR CONCRETE, 100 cm,  
with flexible handle accessory



CRTBN98X30

LEVELLING TOOL FOR LIQUID CONCRETE, 98 x 30 cm,  
with flexible handle accessory



CRTVN070  
CRTVN100

LEVELLING TOOL, 70 cm, hollow profile with handle accessory  
LEVELLING TOOL, 100 cm, hollow profile with handle accessory



# HAND TOOLS

CRTSN070  
CRTSN100

LEVELLING TOOL- S, 70 cm, with handle accessory  
LEVELLING TOOL- S, 100 cm, with handle accessory



CGPEN045

RUBBER SPREADING TOOL, 45 cm, with simple handle accessory



CGPON060  
CGPON080

RUBBER SPREADING TOOL, 60 cm, with reinforced handle accessory  
RUBBER SPREADING TOOL, 80 cm, with reinforced handle accessory



# HAND TOOLS

DCRT.

WOODEN HANDLE FOR LEVELLING TOOL



Made of quality beech wood, 32 mm dia., straight (DCRT2).  
Levelling tools CRTVN and CRTSN have a conical handle (DCRT1).  
Length: 180 cm.



# PRODUCT DISPLAYS

All displays are available without products.

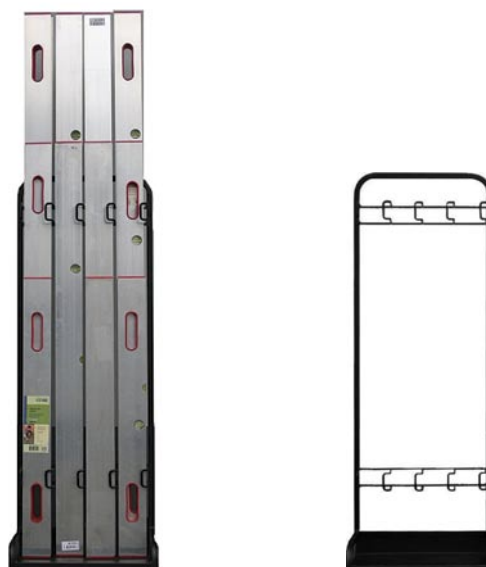
## DSI DISPLAY FOR COMBINATED PRODUCTS

For combination of different products.  
Dimension: 200 x 100 cm.



## DSZL DISPLAY FOR SREEDING LEVELS

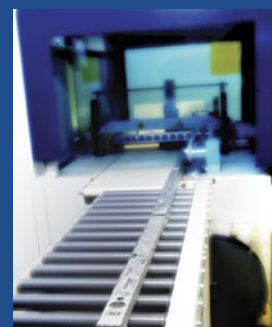
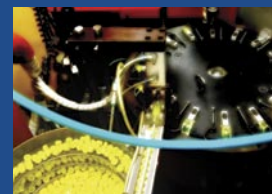
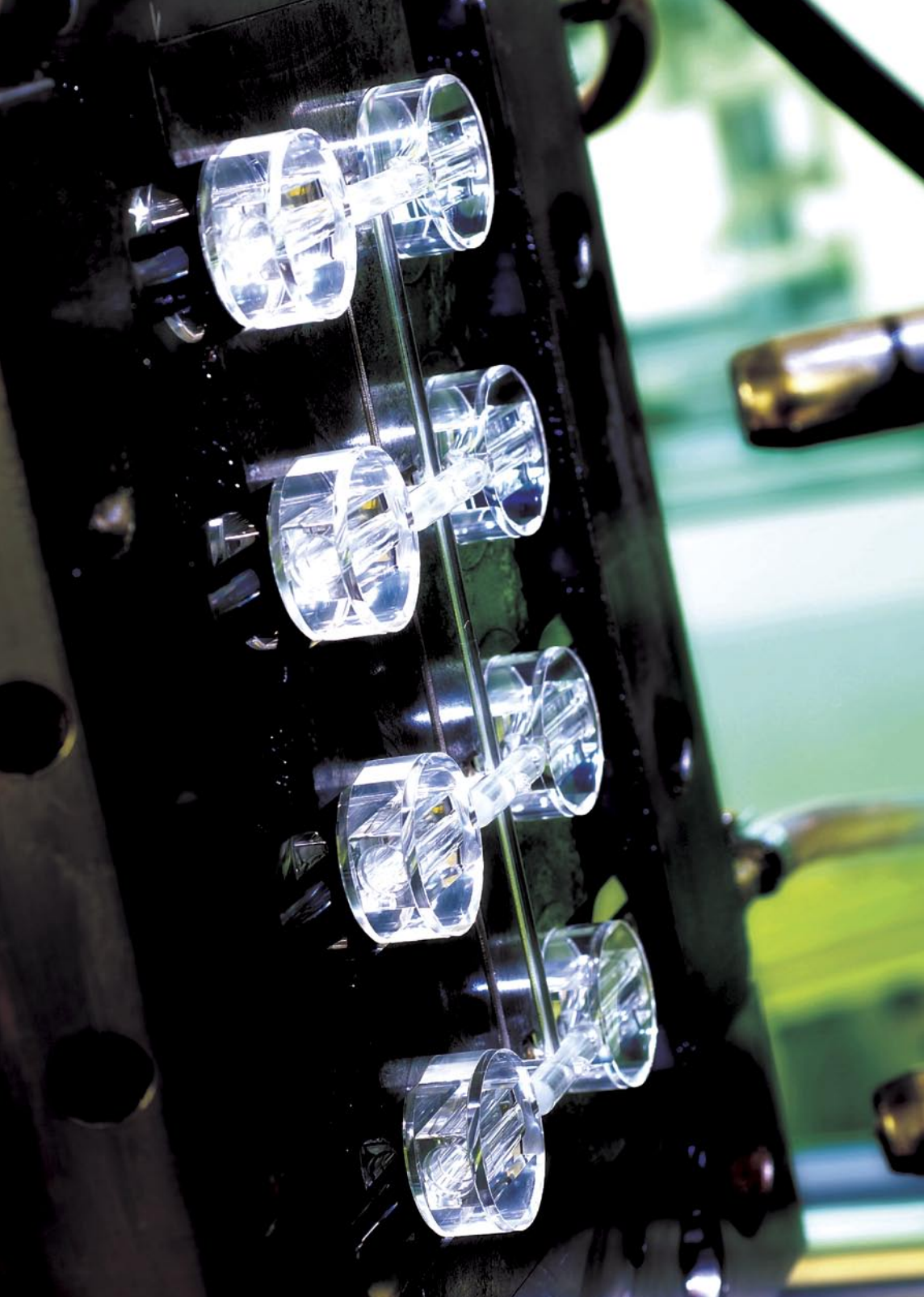
Capacity: 20 pcs of screeding levels.  
Dimension: 50 x 139 x 50 cm.



## DSZL DISPLAY FOR ALU - SPIRIT LEVELS

Capacity: 40 pcs of Alu – spirit levels  
(for models LAG, LAR, LAU, LAT, LAD).  
Dimension: 24 x 60 x 30 cm.





PRODUCTION IN THE HANDS OF EXPERIENCED PROFESSIONALS.  
WE MASTER OUR QUALITY WITH PROOVED HIGH TECHNOLOGY.

**Our advantages:**

- Own development, production and maintenance of tools, machines and devices.
- Serial production of plexiglass vials.
- Software optical control of production process.
- Quick response and adjustment to special customer needs.

ISO 9001

**BUREAU VERITAS**  
Certification

N° SL 14143Q





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