

# BMI®

## Measuring Instruments

# 2013



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# Our Intentions

As a private enterprise that has been owned by our family for more than 50 years, we feel particularly committed to our customers' interests.

One of our major intentions is to live up to the reputation and tradition of the quality label "made in Germany".

We manufacture high-quality measurement tools for the most diversified applications. These products meet the highest demands of trade and industry. On top of that, BMI succeeds in combining tradition and innovation.

This is also highlighted by our way into laser levelling. Since 1993, BMI has been one of the leading manufacturers in this technology.

A further indication of the continuous innovation are more than 40 active patents.

Some of our patented milestones in the development and production of practical measuring instruments are

- 1986** The introduction of unique spirit levels whose vials have been unalterably fixed by means of ultrasonic welding
- 1986** The minimization of a tape breakage hazard through the FLEXTOP tip for measuring tapes
- 1992** Measuring tape frames with ball bearings of the ERGOLINE series for left and right handers
- 1997** Hightech manufacture of EUROSTAR with unbreakable, laser-marked vials.
- 1999** The levelling laser BMI Magic and its universal usage
- 2001** Introduction of the enclosed series, RADIUS for measuring tapes
- 2003** Presenting the robust, waterproof construction laser NAUTILUS IPX7
- 2005** topoMAT – sold more than 10.000 times – becomes rainproof according to the IP55 standard
- 2007** Quicky – both tape and folding rule in one
- 2010** POLYWOOD – the first spirit level with attributes "non-sparking tool" and "fully insulated up to 1000 volts according to EN60900:2004"

It has been, and remains our first priority to equip you with up-to-date premium quality measuring instruments



Hans Keller

Manager and Sole Proprietor



Measuring Tapes, Frame- and Case-Type 6



Pocket Tapes 24



Spirit Levels 27



LASER-Technology 37



Rules 45



Squares 48





**These BMI advantages are your benefit:**



**Frame designed according to ergonomic requirements**



**Can be modified from right-hand to left-hand operation within seconds**



**Ball bearings resistant to wear for most convenient handling**



**Aluminium profiles resistant to bending**



**Wear-resistant tape outlet of high tech plastic**



# Measuring Tapes, Frame- and Case-Type

**BMI**

Measuring tapes by BMI, that means patented features which ease the work of professionals and "do it yourselfers" alike, protect the tool itself and thus save time and money. All the three frame series are ergonomically designed, can be modified from right-hand to left-hand operation in no time, and are even equipped with slide or ball bearings.

The FLEXTOP tip which is optionally available without extra charge prevents breakage at the tape end. Our broad range of tape designs with regard to lengths, materials and graduation lay-out provide the user with the perfect solution for every measuring task. The RADIUS case series also includes many of these features, of course.

Measuring tapes by BMI are certainly the right choice

## ADVANTAGES

- Tapes comply to the EC accuracy classes I, II or III. Many of them are EC type-approved and are thus suitable for calibration
- Frames designed according to ergonomic requirements
- Can be modified from right-hand to left-hand operation within a second
- Ball bearings resistant to wear for most convenient handling of the ERGOLINE frame
- Low-wear slide bearings for BASIC and STANDARD frames
- The FLEXTOP tip prevents breakage at the tape commencement (see page 12)
- Park position for the tape commencement ring and crank arm



**Nothing  
can scratch  
me!**

- Measuring tapes with this symbol have a transparent coating as wearing protection, 10 times stronger than any other non-abrasive coatings! You will obtain many of these advantages from BMI only, as they have been patented!



**Park position for tape  
commencement ring**



**Park position for  
crank arm**



**The FLEXTOP tip  
prevents breakage  
at the tape  
commencement**



**RADIUS case with  
easy grip soft-touch  
surface**

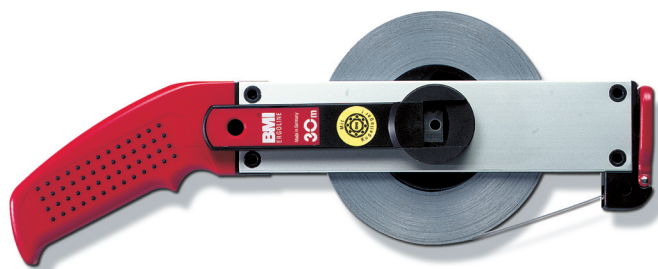
# ERGOLINE

## ERGOLINE frame series

Ergonomically shaped frame with easy-to-grip, soft rubber protrusions.

Park position for crank arm and tape commencement ring.

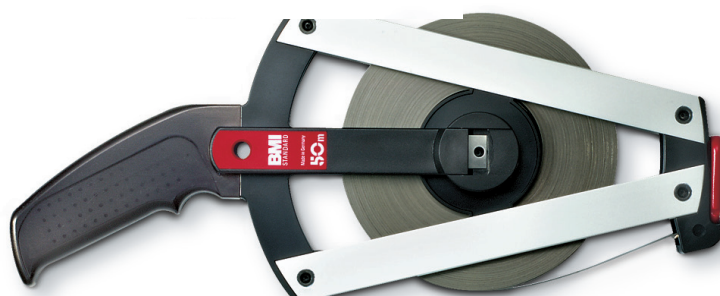
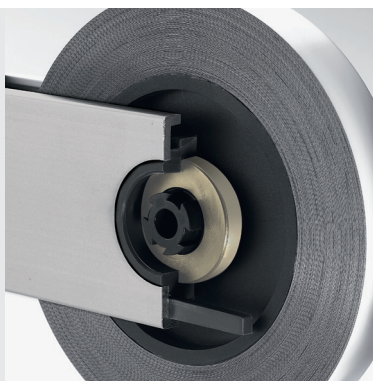
Ball bearings for highest winding convenience.



# STANDARD

## STANDARD frame series

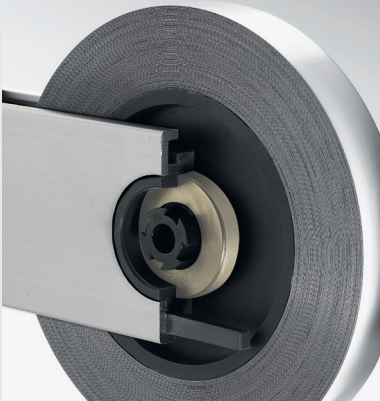
Like ERGOLINE, but with plastic slide rings instead of ball bearings, without soft rubber protrusions.





# BASIC

BASIC frame series  
Ultrasonic welded high-impact plastic frame. Important features as in ERGOLINE, but with slide rings instead of ball bearings.



BMI



We deliver long-length tapes with STANDARD V-frame



# RADIUS

RADIUS case series  
Ergonomically shaped case with with large crank arm and park position for commencement ring. Slide bearing shells for highest winding comfort. With easy grip soft-touch surface



# 555 case series

555 case series

Handy case tape made of shock-resistant plastics.

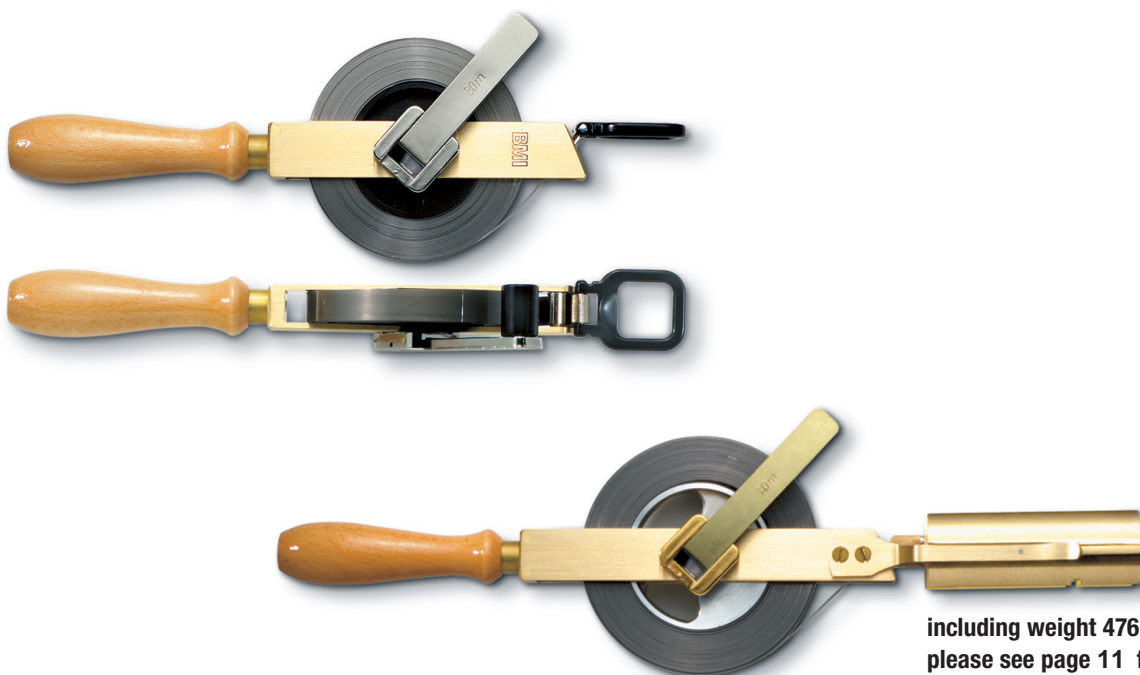
Carrying strap. **Tape width 10 mm**



## Brass frames

Dipping tapes, suitable for calibration (large fig.).

Brass frames for stainless steel tapes small fig.)



including weight 476,  
please see page 11 for description,  
suitable for calibration

# Graduation lay-out

Graduations available.  
Custom made graduations on request



1: (cm)



2: (cm/cm)



3: (cm/inch)



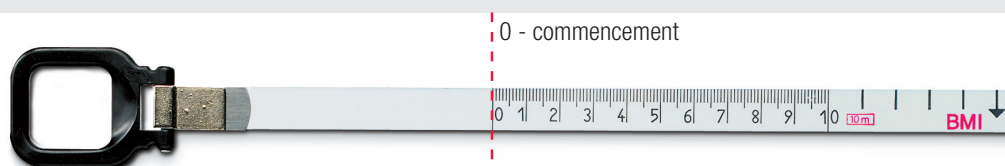
4: (mm)



5: (mm/inch)

## Measurement Commencements

**A:**  
Measurement commencement  
approx. 10 cm after end fitting



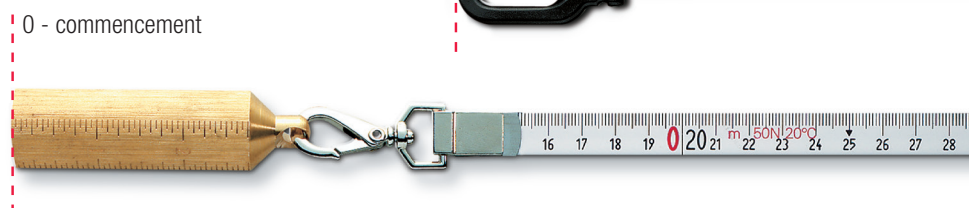
**B:**  
Measurement commencement  
at front fitting edge



**C:**  
Measuring commencement  
at front ring edge



**L:**  
Measurement commencement  
at the bottom edge of the weight





# Tape Commencements

For all steel measuring tapes  
13 mm, pull ring made of  
break-proof plastic, 2 notches  
for weights.

**This commencement will be  
delivered when no special  
commencement is mentioned**



**F:**  
FLEXTOP tip made of trans-  
parent, highly-flexible plastic;  
reliably prevents breakage at the  
tape commencements.

For all steel measuring tapes  
13 mm, pull ring made of  
break-proof plastic, 2 notches  
for weights.



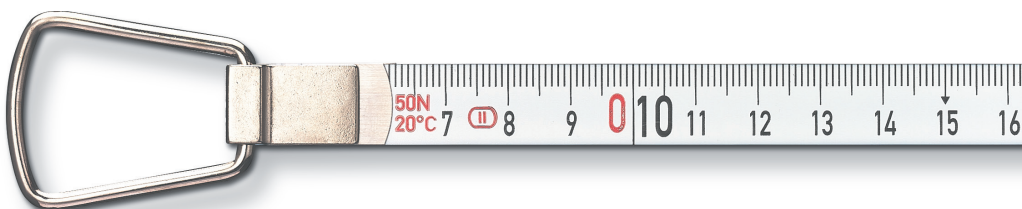
**BHF:**  
Hooking with FLEXTOP tip,  
measurement commencement B



**CHF:**  
Hooking with FLEXTOP tip,  
measurement commencement C



**M:**  
Metal commencement with  
metal ring



# Weights



## Weight 11

Brass, cylindrical, no graduation, length 170 mm, diameter 24 mm, weight 17 oz / 500 g

(can be removed from the tape)

### Order No.

L3 340 00 11



## Weight 16

Stainless steel cylindrical, engraved mm scale on one and inch scale on the other side, length 113 mm, diameter 24 mm, weight 14 oz / 400 g

(cannot be removed from the tape) FIXED

### Order No.

L3 340 02 16



## Weight 14

Brass cylindrical, engraved mm scale on one and inch scale on the other side, length 80 mm, diameter 24 mm, weight 10 oz / 300 g

(cannot be removed from the tape) FIXED

### Order No.

L3 340 02 14



## Weight 10

Brass cylindrical, engraved mm scale on one and inch scale on the other side, length 89 mm, diameter 24 mm, weight 10 oz / 300 g

(can be removed from the tape)

### Order No.

L3 340 02 10



## Weight 30

Brass cylindrical, torpedo-shaped ends, mm scale engraved on one side, length 153 mm, diameter 30 mm, weight 24 oz / 700 g

(cannot be removed from the tape) FIXED

**suitable for calibration**

### Order No.

L3 340 02 30

Highlighted items are stock



## Weight 31 according to IPM Standard

Brass cylindrical, torpedo-shaped ends, mm scale engraved on one side, length 156 mm, diameter 30 mm, weight 24 oz / 700 g

(can be removed from the tape)

### Order No.

L3 340 02 31



## Weight 476

Brass cylindrical, length 100 mm, diameter 45 mm, weight 23 oz / 660 g

(cannot be removed from the tape) FIXED

**suitable for calibration**

see order overview page 20



## Weight 15

Brass cylindrical, engraved mm scale on one and inch scale on the other side, weight 16oz

### Order No.

L3 340 0215

(cannot be removed from the tape) FIXED

### Order No.

L3 340 0215K

(can be removed from the tape)

# Interesting facts about measuring tapes

## Accuracy:

BMI measuring tapes have been manufactured according to the highest quality standards in Germany. Within the scope of product liability we guarantee for the observation of tolerances according to EC accuracy classes.

Our standard is

- for stainless steel tapes: class II (class I option for an extra charge)
- for polyamid-coated measuring tapes in cm-graduation, BMI-ISOLAN: class I
- for glass fibre reinforced measuring tapes: class II or III

Tolerances according to EC accuracy classes:

- I:  $\pm 1,1$  mm in 10 m
- II:  $\pm 2,3$  mm in 10 m
- III:  $\pm 4,6$  mm in 10 m

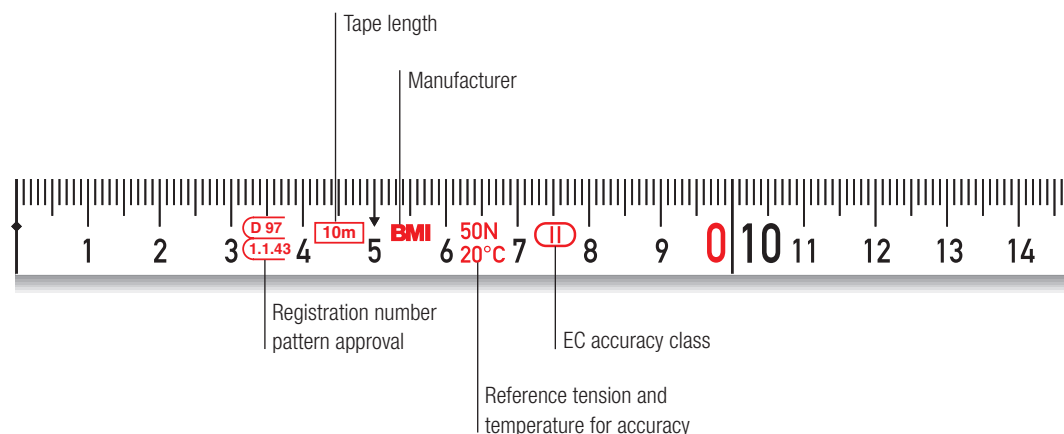
**High-quality measuring tapes can be recognized from the different imprints at the tape end. There you will find the manufacturer's label, the number of the EC type approval, the EC class accuracy, the reference temperature and the tension for which the manufacturer guarantees the observation of measurement tolerances according to the EC class accuracy.**

## Certificate of Conformity:

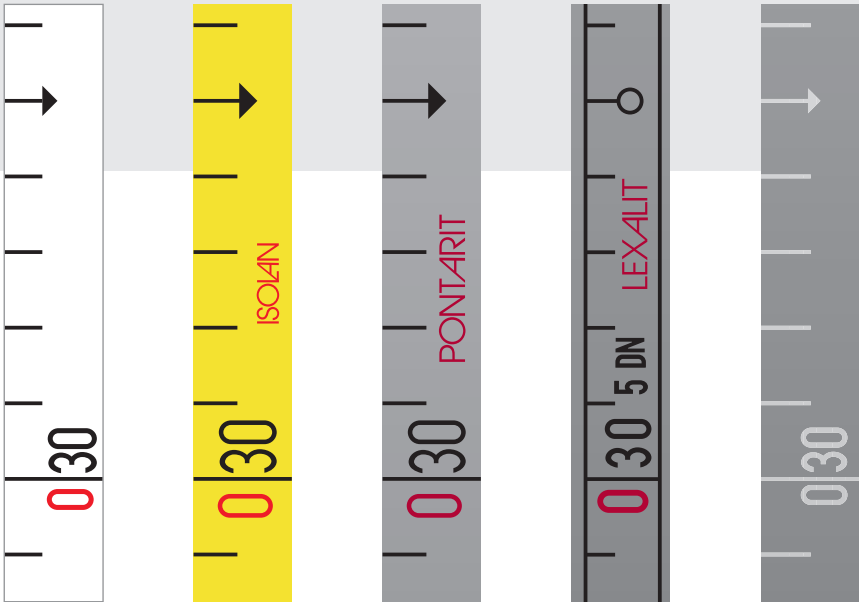
For all measuring tapes with a metric graduation we will issue a certificate of conformity, if required. Compliance of the tape widths with the respective EC type approval and the observation of measuring tolerances according to EC accuracy classes are certified herein (Surcharge).

## Calibration:

All measuring tapes with a metric graduation are EEC pattern approved and can be calibrated for an extra charge. This calibration is valid in all EU member states. Some dipping tapes, however, are exempted.



# Recommended usage



Tape quality:	Steel, white enamelled, printed graduation	Steel, yellow enamelled, printed graduation, with polyamide coating, "ISOLAN"	Refined steel, printed graduation, "PONTARIT"	Refined steel, deep etched graduation, "LEXALIT"	Refined steel, high etched graduation,
<b>Characteristics:</b>					
stainless	+	++	+++	+++	+++
acid-proof		+			+++
proved for oil					+++
non-conductive (insulated)					
unbreakable/flexible	+	++	++	++	++
resistant to wear	++	+++	+	+	++
readability	+++	+++	++	++	+
<b>Recommended use</b>					
	universal, normal use	universal , toughest demands	also in wet environment	also in wet environment	also in chemical aggressive environment
<b>Equipment options:</b>					
Graduation	cm, cm/cm, mm, mm/inch	cm, cm/cm, mm, mm/inch	cm, cm/cm, mm, mm/inch	cm	cm, cm/cm, mm, mm/inch
Lengths	10 to 100 m	10 to 100 m	10 to 100 m	10 to 50 m	10 to 100 m
Measurement commence.	A, B, C, L	A, B, C, L	A, B, C, L	A, B, C	A, B, C, L
Tape commencements	all	all	all	all	all
<b>Accuracy:</b>					
EC class	II, (I possible)	II, (I possible)	II, (I possible)	II	II, (I possible)
Suitability for calibration	all variants on A and B, CH, L30	all variants on A and B, CH, L30	all variants on A and B, CH, L30	all variants on A and B, CH, L30	all variants on A and B, CH, L30, L476

Order survey tape quality

# White enamelled 13 mm



This is how your order no. could look like:

301 01 5 010 A F

white enamelled measuring tape, printed graduation

## ERGOLINE

Size 1/2



Type	Frame size	Graduation number	Length meter	Measurement commencement	Tape commencement
301	01	X	010	X	X
301	01	X	015	X	X
301	01	X	020	X	X
301	02	X	025	X	X
301	02	X	030	X	X
301	02	X	050	X	X

Size 3/4



Type	Frame size	Graduation number	Length meter	Measurement commencement	Tape commencement
301	03	X	050	X	X
301	04	X	100	X	X

## STANDARD

Size 1/2



Type	Frame size	Graduation number	Length meter	Measurement commencement	Tape commencement
501	01	X	010	X	X
501	01	X	015	X	X
501	01	X	020	X	X
501	02	X	025	X	X
501	02	X	030	X	X
501	02	X	050	X	X

Size 3/4



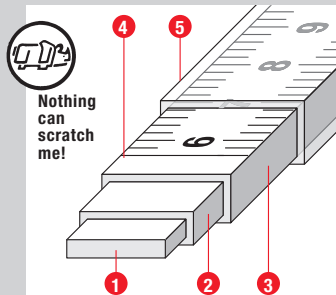
Type	Frame size	Graduation number	Length meter	Measurement commencement	Tape commencement
501	03	X	050	X	X
501	04	X	100	X	X

Please choose numbers and capital letters of desired tape features and transfer them to your order no.

Graduations	
1 (cm)	
4 (mm)	
5 (mm/inch)	
25% surcharge	

Measurement commencements	
A	
B	
C	
L	
Please order weight separately, see p.13 for model variants	

Tape commencements (optional)	
F (FLEXTOP)	
HF (hooking flexible, surcharge)	
for measurement commencement B	
for measurement commencement C	
M (metal ring)	



## Tape structures

- 1 Concaved, tempered spring blade steel of high stability
- 2 Anticorrosive phosphate coating
- 3 Synthetic resin, stoved
- 4 Printed graduation with red meter figures
- 5 Clear varnish to protect against wear, stoved

0/60  
quality

# White enamelled 13 mm

**BMI**

Highlighted items are stock

Type	Frame size	Graduation number	Length meter	Measurement commencement	Tape commencement
501	31	X	010	X	X
501	31	X	015	X	X
501	31	5	020	C	HF
501	31	X	025	X	X
501	31	X	030	X	X
501	32	X	050	X	X

Type	Frame size	Graduation number	Length meter	Measurement commencement	Tape commencement
501	34	X	100	X	X

Type	Frame size	Graduation number	Length meter	Measurement commencement	Tape commencement
501	21	X	010	X	X
501	21	X	015	X	X
501	21	5	020	C	HF
501	22	X	025	X	X
501	22	X	030	X	X
501	23	X	050	X	X

Type	Frame size	Graduation number	Length meter	Measurement commencement	Tape commencement
501	00	X	001	X	X
501	00	X	002	X	X
501	00	X	005	X	X
501	00	X	010	X	X
501	00	X	015	X	X
501	00	X	020	X	X
501	00	X	025	X	X
501	00	X	030	X	X
501	00	X	050	X	X
501	00	X	100	X	X

## BASIC

Size 1/2



Size 3/4



equal to  
Standard 3/4

## RADIUS case



## Replacement tapes

## Graduations

1	(cm)	0/60
4	(mm)	56 57 58 59 60 61 62 63 64
5	(mm/inch)	56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 150 151 152 153 154 155 156 157 158 159 160 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180 181 182 183 184 185 186 187 188 189 190 191 192 193 194 195 196 197 198 199 200 201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 219 220 221 222 223 224 225 226 227 228 229 230 231 232 233 234 235 236 237 238 239 240 241 242 243 244 245 246 247 248 249 250 251 252 253 254 255 256 257 258 259 260 261 262 263 264 265 266 267 268 269 270 271 272 273 274 275 276 277 278 279 280 281 282 283 284 285 286 287 288 289 290 291 292 293 294 295 296 297 298 299 300 301 302 303 304 305 306 307 308 309 310 311 312 313 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1851 1852 1853 1854 1855 1856 1857 1858 1859 1860 1861 1862 1863 1864 1865 1866 1867 1868 1869 1870 1871 1872 1873 1874 1875 1876 1877 1878 1879 1880 1881 1882 1883 1884 1885 1886 1887 1888 1889 1890 1891 1892 1893 1894 1895 1896 1897 1898 1899 1900 1901 1902 1903 1904 1905 1906 1907 1908 1909 1910 1911 1912 1913 1914 1915 1916 1917 1918 1919 1920 1921 1922 1923 1924 1925 1926 1927 1928 1929 1930 1931 1932 1933 1934 1935 1936 1937 1938 1939 1940 1941 1942 1943 1944 1945 1946 1947 1948 1949 1950 1951 1952 1953 1954 1955 1956 1957 1958 1959 1960 1961 1962 1963 1964 1965 1966 1967 1968 1969 1970 1971 1972 1973 1974 1975 1976 1977 1978 1979 1980 1981 1982 1983 1984 1985 1986 1987 1988 1989 1990 1991 1992 1993 1994 1995 1996 1997 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029 2030 2031 2032 2033 2034 2035 2036 2037 2038 2039 2040 2041 2042 2043 2044 2045 2046 2047 2048 2049 2050 2051 2052 2053 2054 2055 2056 2057 2058 2059 2060 2061 2062 2063 2064 2065 2066 2067 2068 2069 2070 2071 2072 2073 2074 2075 2076 2077 2078 2079 2080 2081 2082 2083 2084 2085 2086 2087 2088 2089 2090 2091 2092 2093 2094 2095 2096 2097 2098 2099 2100 2101 2102 2103 2104 2105 2106 2107 2108 2109 2110 2111 2112 2113 2114 2115 2116 2117 2118 2119 2120 2121 2122 2123 2124 2125 2126 2127 2128 2129 2130 2131 2132 2133 2134 2135 2136 2137 2138 2139 2140 2141 2142 2143 2144 2145 2146 2147 2148 2149 2150 2151 2152 2153 2154 2155 2156 2157 2158 2159 2160 2161 2162 2163 2164 2165 2166 2167 2168 2169 2170 2171 2172 2173 2174 2175 2176 2177 2178 2179 2180 2181 2182 2183 2184 2185 2186 2187 2188 2189 2190 2191 2192 2193 2194 2195 2196 2197 2198 2199 2200 2201 2202 2203 2204 2205 2206 2207 2208 2209 2210 2211 2212 2213 2214 2215 2216 2217 2218 2219 2220 2221 2222 2223 2224 2225 2226 2227 2228 2229 2230 2231 2232 2233 2234 2235 2236 2237 2238 2239 2240 2241 2242 2243 2244 2245 2246 2247 2248 2249 2250 2251 2252 2253 2254 2255 2256 2257 2258 2259 2260 2261 2262 2263 2264 2265 2266 2267 2268 22

Order survey tape quality

# ISOLAN 13 mm

ISOLAN tape, polyamide coating,  
printed graduation

This is how your order no. could look like:

305 01 1 010 A F

## ERGOLINE

Size 1/2



Size 3/4



Type	Frame size	Graduation number	Length meter	Measurement commencement	Tape commencement
305	01	X	010	X	X
305	01	X	015	X	X
305	01	X	020	X	X
305	02	X	025	X	X
305	02	X	030	X	X

Type	Frame size	Graduation number	Length meter	Measurement commencement	Tape commencement
305	03	X	030	X	X
305	03	X	050	X	X
305	04	X	100	X	X

## STANDARD

Size 1/2



Size 3/4



Type	Frame size	Graduation number	Length meter	Measurement commencement	Tape commencement
505	01	X	010	X	X
505	01	X	015	X	X
505	01	X	020	X	X
505	02	X	025	X	X
505	02	X	030	X	X

Type	Frame size	Graduation number	Length meter	Measurement commencement	Tape commencement
505	03	X	030	X	X
505	03	X	050	X	X
505	04	X	100	X	X

Please choose numbers and capital letters of desired tape features and transfer them to your order no.

### Graduations

1 (cm)	
4 (mm)	
5 (mm/inch)	

25% surcharge

### Measurement commencements

A	
B	
C	
L	

Please order weight separately, see p.13 for model variants

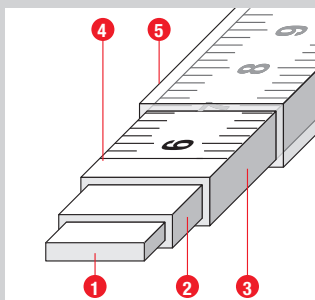
### Tape commencements (optional)

F (FLEXTOP)	
HF (hooking flexible, surcharge)	
M (metal ring)	

for measurement commencement B

for measurement commencement C





## Tape structures

- 1 Tempered spring blade made of carbon steel C 75
- 2 Anticorrosive phosphate layer
- 3 Yellow synthetic resin, stoved
- 4 Printed graduation with red metre digits
- 5 Polyamide coating against wear\*

\* resistant to alkalis, saline solutions, grease, oils and diluted acids

# ISOLAN 13 mm

**BMI**

Highlighted items are stock

Type	Frame size	Graduation number	Length meter	Measurement commencement	Tape commencement
505	31	X	010	X	X
505	31	X	015	X	X
505	31	5	020	L	X
505	32	X	025	X	X
505	32	5	030	C	H

Type	Frame size	Graduation number	Length meter	Measurement commencement	Tape commencement
505	34	X	050	X	X

Type	Frame size	Graduation number	Length meter	Measurement commencement	Tape commencement
505	21	X	010	X	X
505	21	X	015	X	X
505	22	X	020	X	X
505	22	X	025	X	X
505	23	X	030	X	X
505	23	X	050	X	X

Type	Frame size	Graduation number	Length meter	Measurement commencement	Tape commencement
505	00	X	001	X	X
505	00	X	002	X	X
505	00	X	005	X	X
505	00	X	010	X	X
505	00	X	015	X	X
505	00	X	020	X	X
505	00	X	025	X	X
505	00	X	030	X	X
505	00	X	050	X	X
505	00	X	100	X	X

## BASIC

Size 1/2



Size 3/4



equal to Standard 3/4

## RADIUS case



## Replacement tapes

## Graduations

1	(cm)	
4	(mm)	
5	(mm/inch)	

25% surcharge

## Measurement commencements

A	
B	
C	
L	

Please order weight separately, see p.13 for model variants

## Tape commencements (optional)

F	(FLEXTOP)	
HF	(hooking flexible, surcharge)	
M	(metal ring)	

Please choose numbers and capital letters of desired tape features and transfer them to your order no.



Order survey tape quality

# PONTARIT

## 13 mm



This is how your order no. could look like:

315 01 1 010 A F

PONTARIT stainless steel tape, printed graduation

### ERGOLINE

Size 1/2



Type	Frame size	Graduation number	Length meter	Measurement commencement	Tape commencement
315	01	X	010	X	X
315	01	X	015	X	X
315	01	X	020	X	X
315	02	X	025	X	X
315	02	X	030	X	X
315	02	X	050	X	X

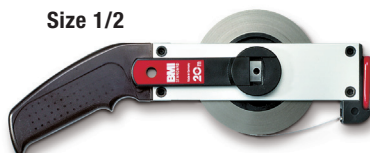
Size 3/4



Type	Frame size	Graduation number	Length meter	Measurement commencement	Tape commencement
315	03	X	050	X	X
315	04	X	100	X	X

### STANDARD

Size 1/2



Type	Frame size	Graduation number	Length meter	Measurement commencement	Tape commencement
515	01	X	010	X	X
515	01	X	015	X	X
515	01	X	020	X	X
515	02	X	025	X	X
515	02	X	030	X	X
515	02	X	050	X	X

Size 3/4



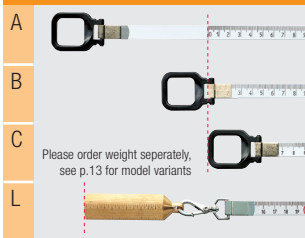
Type	Frame size	Graduation number	Length meter	Measurement commencement	Tape commencement
515	03	X	050	X	X
515	04	X	100	X	X

Please choose numbers and capital letters of desired tape features and transfer them to your order no.

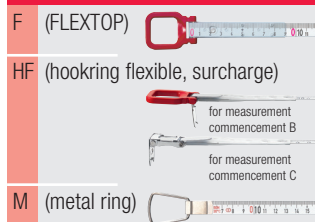
#### Graduations

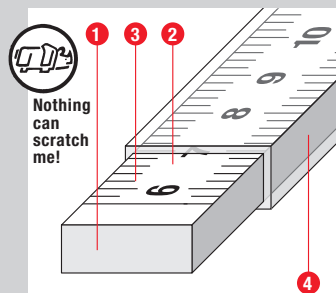


#### Measurement commencements



#### Tape commencements (optional)





## Tape structures

- 1 Strain-hardened spring blade made of stainless chrome nickel steel
- 2 Matt-pickled surface
- 3 Printed graduation with red metre digits
- 4 Clear varnish against wear, stoved

# PONTARIT 13 mm

**BMI**

Type	Frame size	Graduation number	Length meter	Measurement commencement	Tape commencement
515	31	X	010	X	X
515	31	X	015	X	X
515	31	X	020	X	X
515	31	X	025	X	X
515	31	X	030	X	X
515	32	X	050	X	X

Type	Frame size	Graduation number	Length meter	Measurement commencement	Tape commencement
515	34	X	100	X	X

Highlighted items are stock

Type	Frame size	Graduation number	Length meter	Measurement commencement	Tape commencement
515	21	X	010	X	X
515	21	X	015	X	X
515	21	X	020	X	X
515	22	X	025	X	X
515	22	X	030	X	X
515	23	X	050	X	X

Type	Frame size	Graduation number	Length meter	Measurement commencement	Tape commencement
515	00	X	010	X	X
515	00	X	015	X	X
515	00	X	020	X	X
515	00	X	025	X	X
515	00	X	030	X	X
515	00	X	050	X	X
515	00	X	100	X	X

## BASIC

Size 1/2



Size 3/4



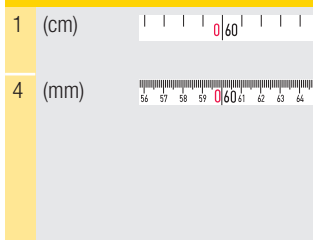
equal to  
Standard 3/4

## RADIUS case

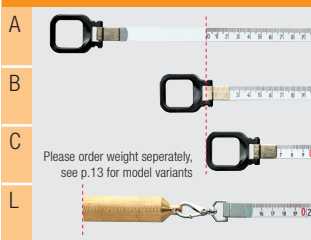


## Replacement tapes

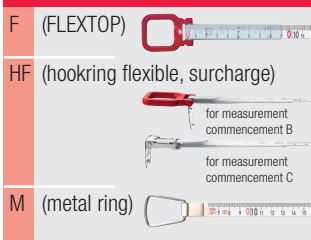
## Graduations



## Measurement commencements



## Tape commencements (optional)



Please choose numbers and capital letters of desired tape features and transfer them to your order no.

# Order survey tape quality

## High etched

### 13 mm



This is how your order no. could look like:

309 01 1 010 A F

#### ERGOLINE

Size 1/2



Size 3/4



#### STANDARD

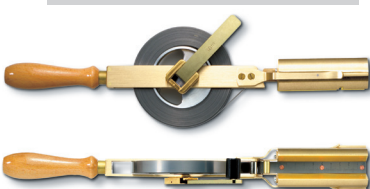
Size 1/2



Size 3/4



#### Brass frame series



including weight 476  
Please see p.11 for description,  
suitable for calibration

Type	Frame size	Graduation number	Length meter	Measurement commencement	Tape commencement
309	01	X	010	X	X
309	01	X	015	X	X
309	01	X	020	X	X
309	02	X	025	X	X
309	02	X	030	X	X
309	02	X	050	X	X

Type	Frame size	Graduation number	Length meter	Measurement commencement	Tape commencement
309	03	X	050	X	X
309	04	X	100	X	X

Type	Frame size	Graduation number	Length meter	Measurement commencement	Tape commencement
509	01	X	010	X	X
509	01	X	015	X	X
509	01	X	020	X	X
509	02	X	025	X	X
509	02	X	030	X	X
509	02	X	050	X	X

Type	Frame size	Graduation number	Length meter	Measurement commencement	Tape commencement
509	03	X	050	X	X
509	04	X	100	X	X

Type	Frame size	Graduation number	Length meter	Measurement commencement	Tape commencement
309	12	4	010	L	476
309	12	4	015	L	476
309	12	4	020	L	476
309	12	4	025	L	476
309	12	4	030	L	476
309	12	4	050	L	476

Please choose numbers and capital letters of desired tape features and transfer them to your order no.

#### Graduations

1 (cm)	
4 (mm)	
5 (mm/inch)	

25% surcharge

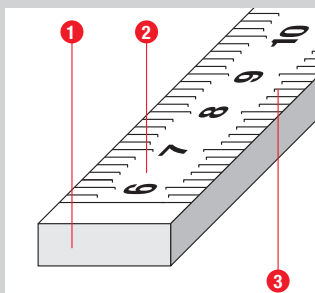
#### Measurement commencements

A	
B	
C	
L	

Please order weight separately, see p.13 for model variants

#### Tape commencements (optional)

F (FLEXTOP)	
HF (hooking flexible, surcharge)	
M (metal ring)	



## Tape structures

- 1 Strain-hardened spring blade made of stainless chrome steel
- 2 Lowered, etched surface
- 3 Raised, polished graduation

# High etched 13 mm

**BMI**

Highlighted items are stock

Type	Frame size	Graduation number	Length meter	Measurement commencement	Tape commencement
509	31	X	010	X	X
509	31	X	015	X	X
509	31	5	020	L	
509	31	X	025	X	X
509	31	X	030	X	X
509	32	X	050	X	X

Type	Frame size	Graduation number	Length meter	Measurement commencement	Tape commencement
509	34	X	100	X	X

Type	Frame size	Graduation number	Length meter	Measurement commencement	Tape commencement
509	21	X	010	X	X
509	21	X	015	X	X
509	21	X	020	X	X
509	22	X	025	X	X
509	22	X	030	X	X
509	23	X	050	X	X

Type	Frame size	Graduation number	Length meter	Measurement commencement	Tape commencement
509	00	X	010	X	X
509	00	X	015	X	X
509	00	5	020	L	
509	00	X	025	X	X
509	00	X	030	X	X
509	00	X	050	X	X
509	00	X	100	X	X

## BASIC

Size 1/2



Size 3/4



equal to  
Standard 3/4

## RADIUS case



## Replacement tapes

## Graduations

1	(cm)	
4	(mm)	
5	(mm/inch)	

25% surcharge

## Measurement commencements

A	
B	
C	
L	

Please order weight separately,  
see p.13 for model variants

## Tape commencements (optional)

F	(FLEXTOP)	
HF	(hooking flexible, surcharge)	
M	(metal ring)	

Please choose numbers and capital letters of desired tape features and transfer them to your order no.

Order survey tape quality

# Deep etched 13 mm



This is how your order no. could look like:

317 01 5 010 A F

LEXALIT stainless steel tape, etched graduation

## ERGOLINE

Size 1/2



Size 3/4



Type	Frame size	Graduation number	Length meter	Measurement commencement	Tape commencement
317	01	1	010	X	X
317	01	1	015	X	X
317	01	1	020	X	X
317	02	1	025	X	X
317	02	1	030	X	X
317	02	1	050	X	X

Type	Frame size	Graduation number	Length meter	Measurement commencement	Tape commencement
317	03	1	050	X	X

Please choose numbers and capital letters of desired tape features and transfer them to your order no.

Graduations	Measurement commencements	Tape commencements (optional)
1 (cm) 0.60	A B C	F (FLEXTOP) HF (hookring flexible) surcharge M (metal ring)

Order survey tape quality

# High etched 13 mm



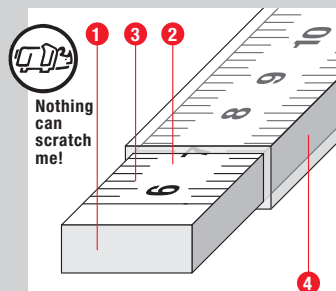
Tank dipping tapes according to IPM specification  
High etched measuring tape

according to IPM specification



Type	Frame size	Graduation number	Length meter	Measurement commencement	Tape commencement
312	11	4	010	L	31
312	11	4	020	L	31
312	11	4	030	L	31
312	11	4	050	L	31

including weight 31, please see p.11 for description, mm graduation  
Refer to our General Terms of Payment and Delivery



### Tape structures

- 1 Tempered spring blade made of stainless chrome steel
- 2 Polished surface
- 3 Deep-etched, black graduation
- 4 Clear varnish against wear, stoved



Type	Frame size	Graduation number	Length meter	Measurement commencement	Tape commencement
517	21	1	010	X	X
517	21	1	015	X	X
517	21	1	020	X	X
517	22	1	025	X	X
517	22	1	030	X	X
517	23	1	050	X	X

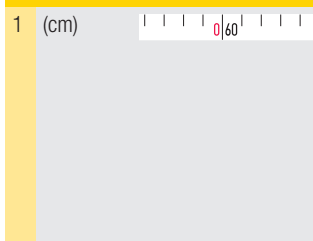
Type	Frame size	Graduation number	Length meter	Measurement commencement	Tape commencement
517	00	1	005	X	X
517	00	1	010	X	X
517	00	1	015	X	X
517	00	1	020	X	X
517	00	1	025	X	X
517	00	1	030	X	X
517	00	1	050	X	X

### RADIUS case

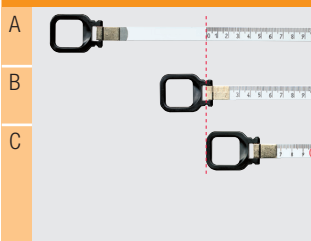


### Replacement tapes

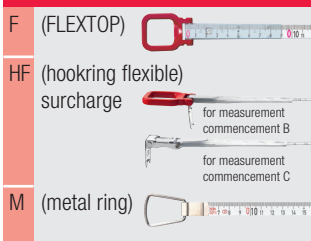
#### Graduations



#### Measurement commencements



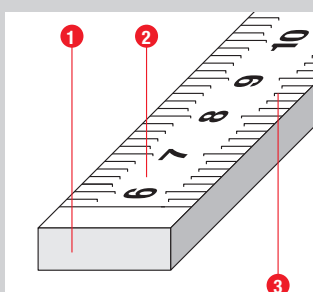
#### Tape commencements (optional)



Please choose numbers and capital letters of desired tape features and transfer them to your order no.

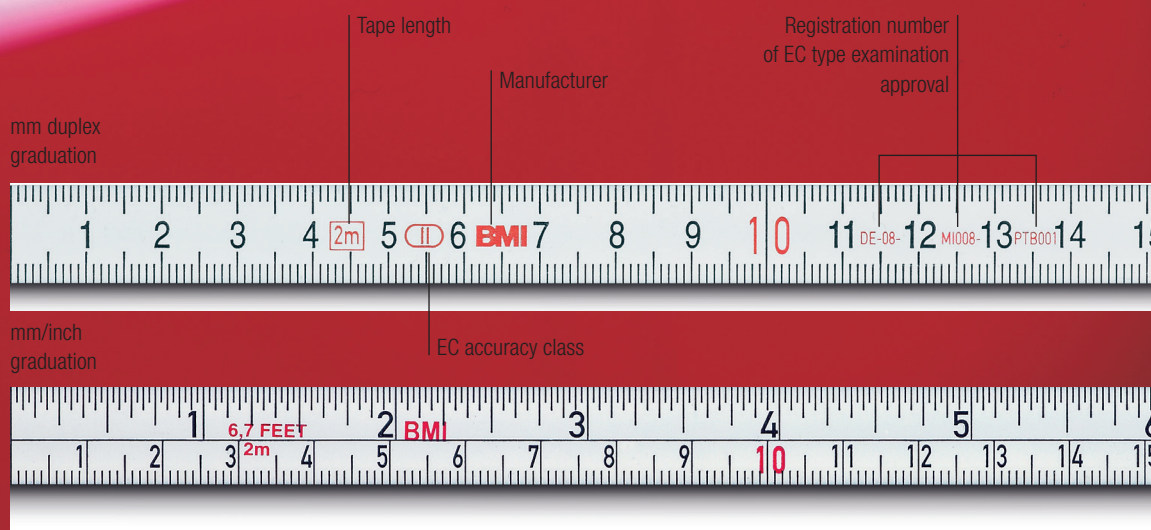
### Tape structures

- 1 Strain-hardened spring blade made of stainless chrome steel
- 2 Lowered, etched surface
- 3 Raised, polished graduation





**You will recognize  
high-quality  
measuring tapes by  
these imprints:**



Pocket tapes manufactured by BMI are versatile with regard to their use as their users' demands are diverse. Longitudinal, internal measuring, radii, mm/mm graduation mm/inch graduation, individual case designs and much more. There is almost no limit to your imagination. Owing to the fact that these pocket tapes are manufactured in our own works there are many design options, even for small quantities. Our main focus is of course on precise measuring, perfect handling and long working life.

#### Tape structure

- 1** Concaved, tempered spring blade steel of high stability
- 2** Anticorrosive phosphate coating
- 3** Synthetic resin, stoved
- 4** Printed graduation with red meter figures
- 5** Clear varnish to protect against wear, stoved



**Nothing  
can  
scratch  
me!**

## ADVANTAGES

Durability in rough work environment through rust protection of the tapes (phosphate ground coating)

BMI pocket tapes have a transparent coating as wearing protection, 10 times stronger than any other non-abrasive coatings!

Long working life of the return lock spring owing to a special spring band steel

Sophisticated interior: inserted winding coils or distance washers ensure perfectly smooth running

Robust high-impact ABS or polyamide case

Tapes with mm-graduation EEC pattern approved, suitable for calibration

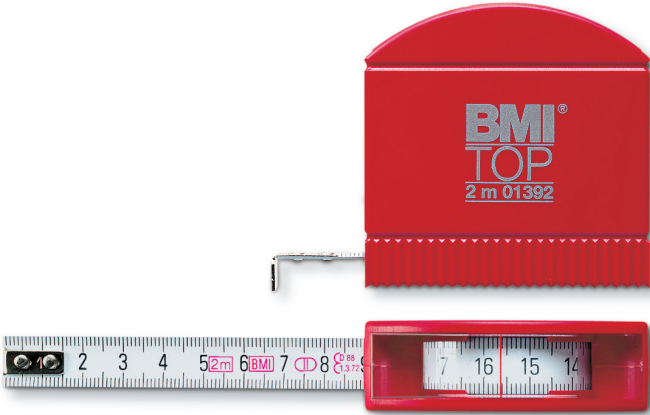
Accuracy acc. to EEC class II  
 2 m ± 0,7 mm  
 3 m ± 0,9 mm  
 5 m ± 1,3 mm  
 8 m ± 1,9 mm

# Pocket Tapes

## 407 TOP / 406 TOP-M

Internal measuring tape (see page 30) without lock. Top sight window with magnifying effect. The gradu-ation in the window is not displayed upside down (no reading errors possible). Polyamide case. Free-running blade in push-pull execution. Lengths 3 m with mm- or mm/inch-graduations. Blade width 13 mm. Case dimensions: 65 x 65 x 21 mm

406 TOP-M:  
with steel base

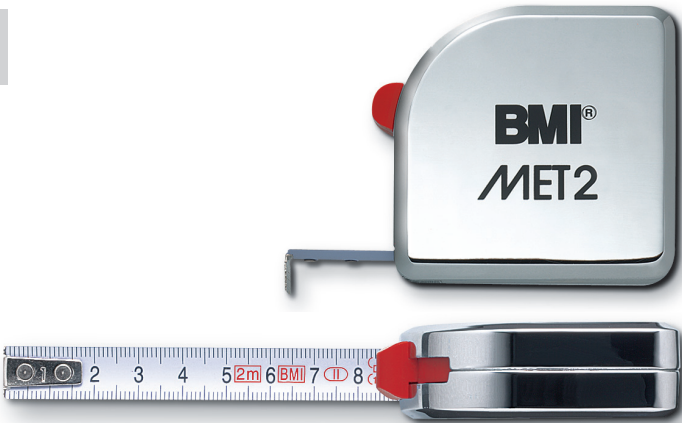


Highlighted items are stock

Length		2 m/79"		3 m/122"		2 m/79"	3 m	3 m/122"
Graduation		mm/inch		mm/inch		mm/inch	mm/inch	mm/inch
Width		13 mm		13 mm		13 mm	13 mm	13 mm
Model no.		407 251		407 351		406 251	406 341	406 351

## 490 MET

The pocket tape with heat-resistant zinc die-cast case with chrome finish. Automatic, lock-operated blade return. Lengths 2 + 3 m with mm- or mm/inch-graduations. Blade width 13 mm. Case dimensions: 60 x 58 x 19 mm



Highlighted items are stock

Length		2 m/79"		3 m/120"
Graduation		mm/inch		mm/inch
Width		13 mm		13 mm
Model no.		490 251		490 351



Both tape and ruler in one!

# The new **BMI**meter with tape stop

The BMI-Quicky, sold by hundreds of thousands, has been further developed and is now called **BMI**meter.

## The main changes:

- **BMI**meter has a tape stop!
- **BMI**meter is available in 2 m and 3 m!

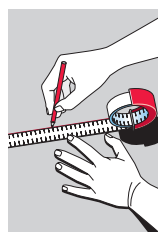
This measuring tool fascinates and his benefits are unbeatable.

## Fascination:

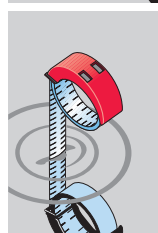
Due to a special treatment of the refined steel the tape unrolls on its own!

## Benefits:

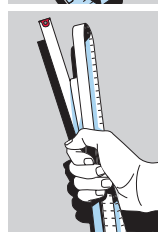
- stainless refined steel tape, white-enamelled
- totally waterproof
- unbreakable, durable
- accurate according to EC class II (+/- 0,9mm/2m - a wooden ruler is 2,2mm/2m)
- compact, light and handy
- perfect for use as a ruler
- tape lies flatly on a table, allowing precise markings and easy transfer of measurements
- world first!
- **Made in Germany!**



can be perfectly used as a ruler



waterproof, stainless



unbreakable



tape stop for easiest use and complete control

Tape lenght	2 m	2 m/79"	3 m	3 m/118"
Graduation	mm	mm/inch	mm	mm/inch
Tape width	16 mm	16 mm	16 mm	16 mm
Model no.	429 24 1020	429 25 1020	429 34 1020	429 35 1020

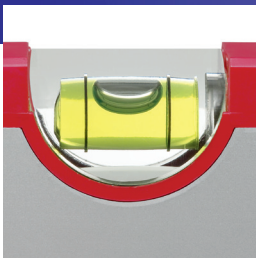
incl. blister packaging



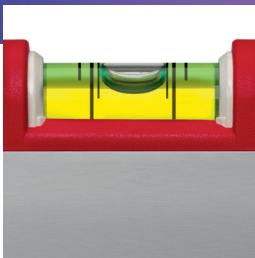
...rolls out on its own!



These BMI advantages are your benefit:



Vial with magnifying effect.  
No more double-bubble trouble!



2% slope/fall lines and precision reading markings



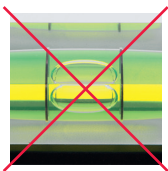
Top-end vial



Shock-absorbing rubber end-caps



Unique, sturdy 4-chamber profile

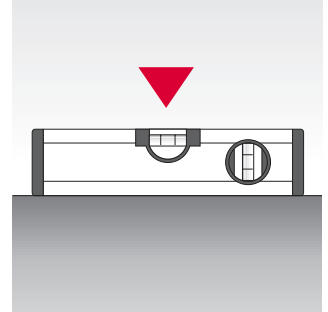


# Spirit Levels

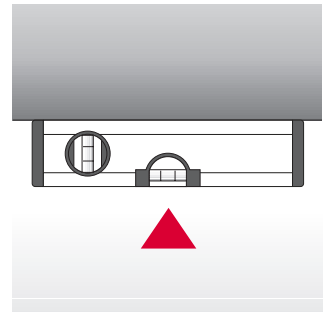
**BMI**

Applications for  
spirit levels

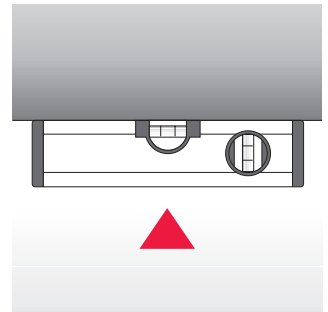
Horizontal **normal position**



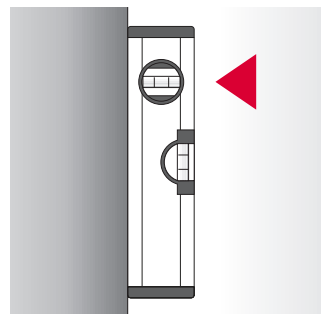
Horizontal **inverted position**  
(over-head measuring)



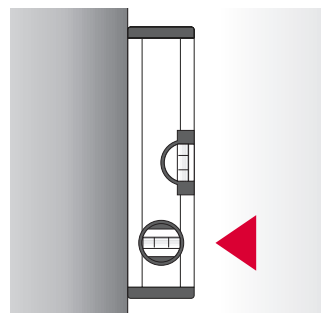
Horizontal **over-head measuring**  
(only for BMI-EUROSTAR  
and BMI-ROBUST)



Vertical **normal position**



Vertical **inverted position**



## ADVANTAGES

- Selected high quality materials.
- Worldwide patented manufacturing processes.
- High measuring accuracy up to 0,5 mm/m in normal and inverted position.
- Up to 30 years BMI guarantee for the durability of the vials.

This means safety for your work.



# Aluminium Profiles

## Types of Vials

## Mounting of the Vial

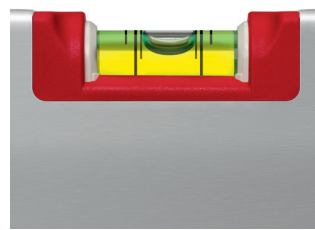
Thickness of wall +/- 10%  
due to technical reasons



Box section  
22 x 50 mm, wall  
strength 1,5 mm,  
is used for the  
**690 type series**  
up to a length of  
150 cm.



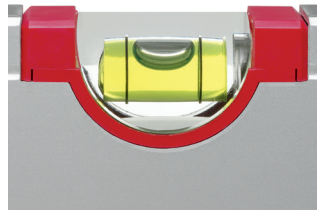
Thick-walled, sturdy vial, made of  
plexiglass, used in the horizontal  
vials of the 662, 665, 666 and  
689 type series.



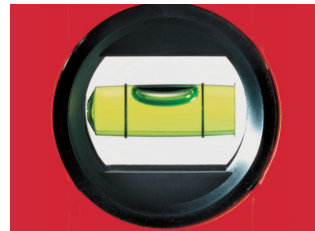
Break- and shock-proof tube vial  
with magnifying effect of the  
690 type series, extremely good  
viewing, 2% slope markings.



Box section  
22 x 50 mm, wall  
strength 1,6 mm,  
is used for the **691  
type series** up to  
a length of 120 cm.  
The lengths 150,  
180 and 200 cm  
have a wall strength  
of 2,2 mm.



Thick-walled, sturdy vial, made of  
plexiglass, with magnifying effect,  
extremely good viewing, used as  
vertical and horizontal vial in the  
692 type series and as horizontal  
vial in the 691, 695, 698 and 699  
series.



Thick-walled, sturdy block vial,  
made of plexiglass, used as  
vertical vial in the 662, 665, 666,  
691, 698 and 699 series.



For all spirit levels (except the  
690 type) made of aluminium  
profile up to a length of 120 cm  
the vials are electronically  
adjusted and fixed in the body by  
means of ultrasonic welding.



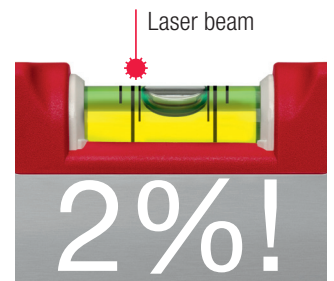
Box section  
22 x 50 mm, wall  
strength 1,8 mm, is  
used for the **692 and  
699 type series** up  
to a length of 120 cm.  
The lengths 150,  
180, 200 and 240 cm  
have a wall strength  
of 2,3 mm

### Angle of Inclination

The picture shows a rotating vial  
of the 691 W and 691 WM and  
the SUPERTORPEDO type for  
an easy transfer of inclinations  
and angles.



Strong 4-chamber  
aluminium profile  
box section  
60 x 26 mm,  
wall strength 2 mm,  
extremely flexible  
and torsion-proof,  
used in the **698  
type series**.



The 690 EUROSTAR is at first  
completely mounted. At this stage,  
the vials don't have any marking  
rings. In the final stage, a com-  
puter measures the position of the  
vial and controls a laser which  
applies marking rings to the vial  
on either side of the bubble in  
precisely equal distances.

**This process has been  
patented for BMI nationally  
and internationally.**



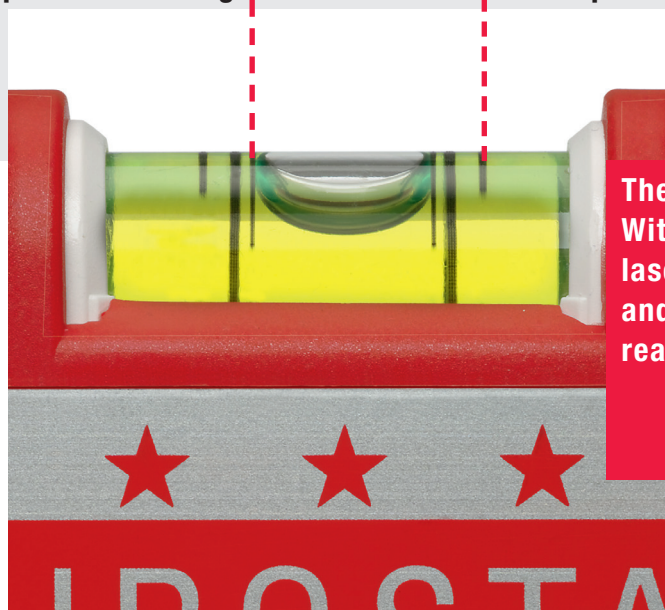
Extremely sturdy  
4-chamber alu-  
minium profile, box  
section 75 x 26 mm,  
wall strength  
2.0 mm, used in the  
**695 type series**  
(even more torsion  
resistant than the  
698).

	Eurostar 690	Ultrasonic	Trapezoid 689	Robust 698	PolyWood 660	Masons Friend 698			
measuring accuracy in normal position mm/m	0,5	0,5	1,0	0,5	0,5	0,5			
measuring accuracy in inverted position mm/m	–	0,5		0,5	0,75	0,5			
milled measuring surface	–	–	–	2 milled measuring surface ✓	–	2 milled measuring surface ✓			
horizontal vial with magnifying effect / no “double- bubble trouble”	✓	✓	✓	✓	✓	✓			
number of vials	2	2	2	3	2	2			
profile weight per meter	550 g/m	640 g/m	–	1060 g/m	750 g/m	1060 g/m			
handhole	–	–	–	✓	–	–			
also available as magnetic version	✓	✓ length 20 cm only		✓	–	–			
non-conductive	–	–	–	–	✓	–			
special features and benefits	2% slope/fall and precision reading	with top-end vial		sturdy 4-chamber profile	non-sparking tool, fully insulated up to 1000 volts according to En60900:2004	–			
recommendations for use	builders, heating installers, plumbers, landscapers	general handicraft, dry wall construction	construction	builders, prefab construction, carpentry	Electricians, miners	Masonry work			
Made in Germany	✓	✓	✓	✓	✓	✓			

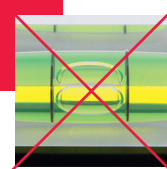
# EUROSTAR

precision reading

2% slope/fall line



The original!  
With patented  
laser-marked vials  
and reflection-free  
readability!



No more  
double-bubble trouble!

690 E



690 EM

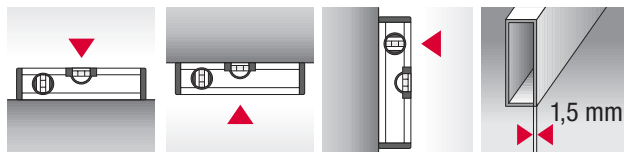


690 ES



- 2% slope markings on horizontal vial.
- additional precision reading markings on all vials.
- Laser-marked vials provide measuring accuracy of 0,5 mm/m for a lifetime..
- Tube vial offers easy readability.
- Strong walls for longer life..

Also available as  
690 P (powder-coated),  
price equal to 690 E

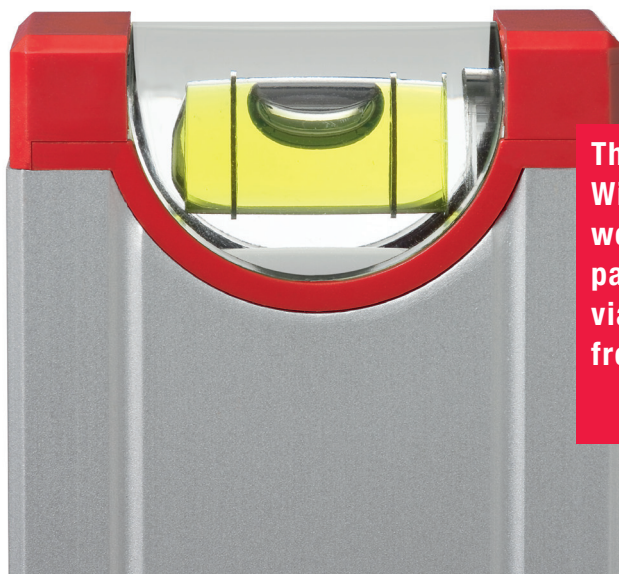


Highlighted items are stock

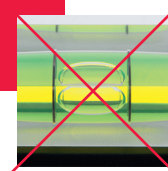
Length in Feet	1'	1.3'	1.7'	2'	3'	3.3'	4'	5'	6'	6.6'
Order no.	L1 690 030E	L1690 040E	L1690 050E	L1690 060E	L1690 090E	L1690 100E	L1690 120E	L1690 150E	L1690 180E	L1690 200E
Order no.		690 040 ES		690 060 ES	690 080 ES	690 100 ES	690 120 ES			
Order no.		L1690 040EM	L1690 050E	L1690 060EM	L1690 090EM	L1690 100EM	L1690 120EM		L1690 180EM	

# ULTRASONIC TORPEDO

**BMI**



**The original!**  
With ultrasonic-  
welded vials (BMI  
patent), Top-end  
vial, and reflection-  
free readability!



**No more  
double-bubble trouble!**

692



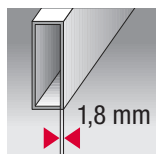
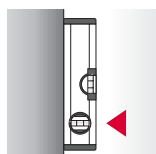
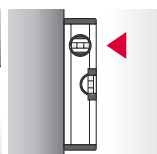
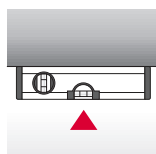
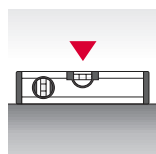
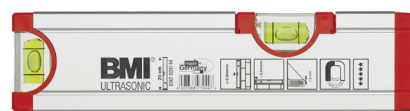
- The original BMI domed round horizontal vial with magnifying effect provides unsurpassed readability, also for inverted measurement.
- Highest accuracy for life (0,5 mm/m) due to ultrasonic-welded vials.
- Highly accurate inverted measurement (0,5 mm/m).
- By means of head vial extremely good viewing of vertical measurements.
- Strong walls and shock-absorbing rubber end-cap preserve high measuring accuracy.



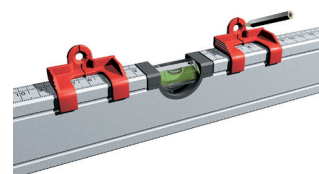
with rotatable angle vial and magnet  
**Order no.** 692 025 TWM



available in 20 cm length  
with magnet  
**Order no.** 692020 M



692 SC  
with two marking  
devices  
(60 up to 120 cm)



Highlighted items are stock

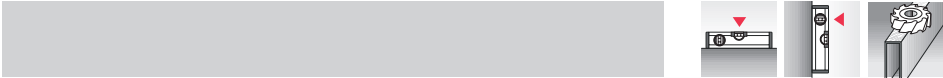
Inches	8"	10"	
	L1692 020		
	L1692 020M	L1692 025M	
	L1689 030TM		



Spirit Levels

TRAPEZOID

TORPEDO



Heavy-weight, trapezoid-shaped aluminium die-cast level with milled measuring surface. Red powder-coated level body. Very high torsion-resistance. Measuring accuracy in normal position 1,0 mm/m.

Magnetic

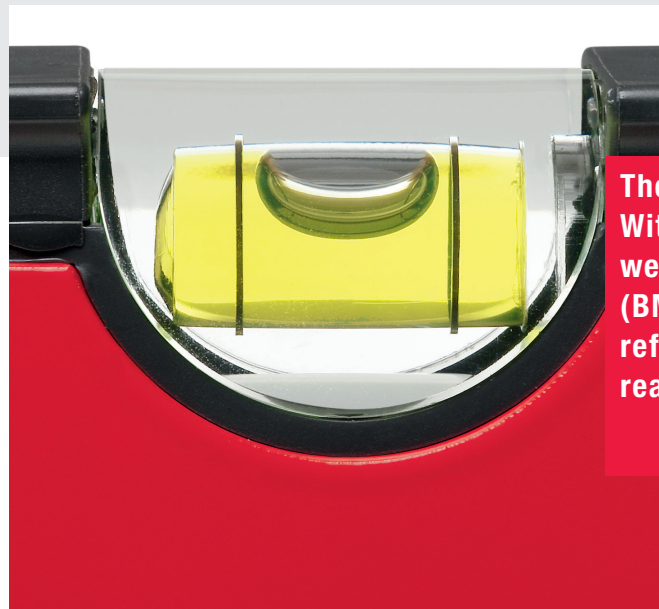
Stock item

Length in	Inches	12"	
Order no.		L1689 030TM	



# ROBUST

**BMI**



**The original!**  
With ultrasonic-  
welded vials  
(BMI patent) and  
reflection-free  
readability!



**No more  
double-bubble trouble!**

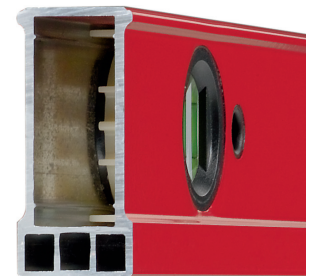
**698 / 698M**



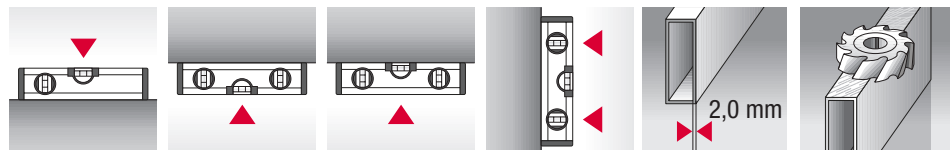
**698 D / 698 DM**



- Unique, extremely torsion-resistant 4-chamber profile (60 x 26 mm cross-cut).
- The original BMI domed round vial with magnifying effect provides unsurpassed readability, also for inverted measurement.
- Highest accuracy for life (0,5 mm/m) due to ultrasonic-welded vials.
- Especially thick shock-absorbing rubber end-caps preserve high measuring accuracy – for life.
- Two milled measuring surfaces (up to 120 cm)
- Highest accuracy also for inverted measurement (0,5 mm/m).



**available in lengths  
of up to 240 cm**



Highlighted items are stock

Length in Feet	1.3'	1.7'	2'	?	3'	3.3'	4'	5'	6'	6.6'	8'
Order no.	L1698 040	L1698 050	L1698 060	L1698 080	L1698 090	L1698 100	L1698 120	L1698 150	L1698 180	L1698 200	L1698 200
Order no.			L1698 060M								
Order no.			L1698 060D	L1698 080D	L1698 090D	L1698 100D	L1698 120D	L1698 150D	L1698 180D	L1698 200D	L1698 240D
Order no.							L1698 120DM		L1698 180DM		L1698 240DM

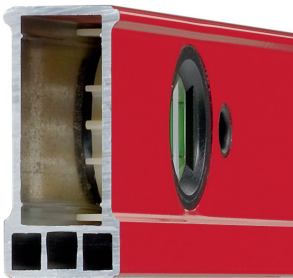
spirit level

# MASONS FRIEND



Highlighted items are stock

Length in Feet	3.3'	4'
Order no.	L1698100E	L1698120E



- Black anodized
- Unique, extremely torsion-resistant 4-chamber profile (60 x 26 mm cross-cut).
- The original BMI domed round vial with magnifying effect provides unsurpassed readability, also for inverted measurement.
- Highest accuracy for life (0,5 mm/m) due to ultrasonic-welded vials.
- Especially thick shock-absorbing rubber end-caps preserve high measuring accuracy – for life.
- Two milled measuring surfaces
- Two stainless steel strips, marked with graduation
- Highest accuracy also for inverted measurement

# Special Spirit Levels

## 660 POLYWOOD



- Round horizontal vial with magnifying effect.
- reflection-free readability of horizontal vial, also in inverted position!
- measuring accuracy 0,5 mm/m in normal position, 0,75 mm/m when inverted.
- Strong walls and shock-absorbing rubber end-cap preserve high measuring accuracy.

Highlighted items are stock

Length in Feet	1.3'	2'	4'
Order no.	L1660 040	L1660 060	L1660 120

POLYWOOD - the first spirit level with attributes “non-sparking tool” and “fully insulated up to 1000 volts according to EN60900:2004”



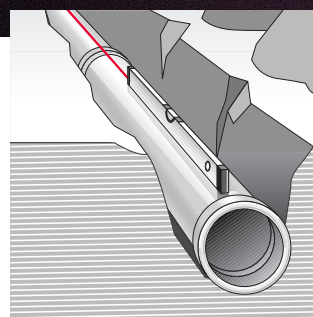




**This is how BMI LASER technology facilitates your work:**

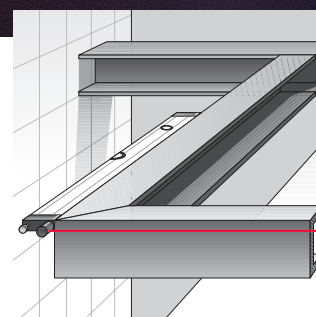
BMI laser systems are suitable for a wide range of measuring, alignment and levelling tasks.

**Some basic applications are exemplified here:**



**The laser beam replaces the levelling line for**

- Projecting slopes and gradients
- Setting alignments
- Checking the smoothness of walls and other surfaces



**Determine right angles without other tools and auxiliary constructions when**

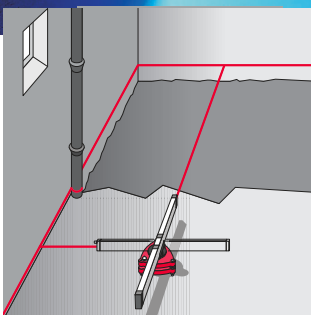
- Installing partitions
- Installing floors and platforms
- Checking angles of fabrications and steelwork



In 1993, BMI was the first to present laser levelling systems for trade and industry. The program has been continuously advanced and today, the user is offered ingenious, practical devices. From laser levels with useful accessories and levelling sets up to fully automatic rotating laser systems, BMI provides the perfect product for your application. The advantage – then and now – has always been the tremendous time efficiency of these single-hand operated levelling systems.

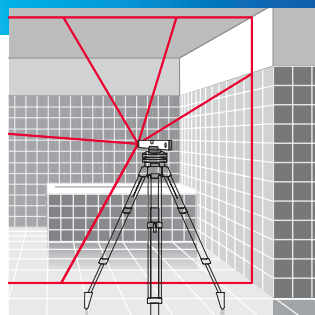
## ADVANTAGES

- BMI LASER technology complies with international safety standards; all devices conform to laser class 2; power output < 1 mW.
- BMI LASER technology is robust, suited to the workshop and has been developed for practical application.
- BMI LASER technology offers service at first hand.



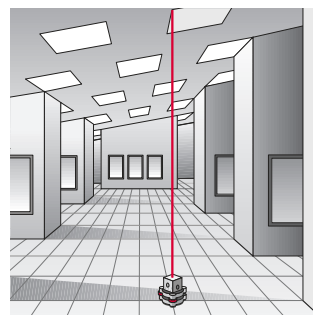
### Save time-consuming measurements in the horizontal plane when

- Installing ceilings
- Marking the correct height of electrical outlets and switches
- Marking the upper line of tiled areas



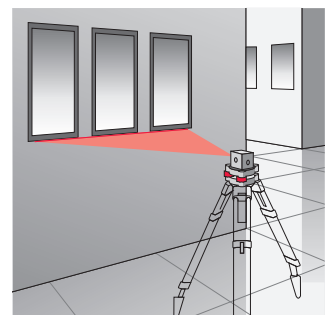
### Save time-consuming measurements in the vertical plane when

- Installing partitions
- Installing display windows
- Establishing tiling columns



### Replace the traditional plumb line to determine vertical references from the floor to the ceiling when

- Installing ceiling lighting
- Mounting conductor rails
- Installing fittings for ceiling panels



### The line laser replaces the snap line when

- Mounting advertising billboards
- Ensuring the correct horizontal alignment of tiles
- Hanging up posters and pictures

Crossline and 5-beam laser, all in one!

# autoMAGIC

- Self-leveling 5-beam laser
- Plumb beam, up and down
- No beam-shaking when bumped
- 5 laser beams at a time
- Laser glasses
- Multifunctional adapter with magnets and tripod connection threads 1/4" and 5/8"
- Comes as set in hard plastic case
- Incl. batteries

Basic device:

**Order no.:** L2654 KLP 5SP

Complete set (incl. receiver):

**Order no.:**  
L2654 KLP 5SP - Set

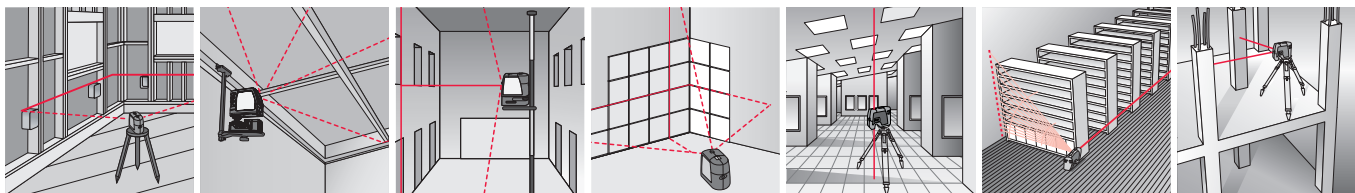
Receiver:

**Order no.:**  
L2654 KLP 5SP -Z01

**BMI**



and it can help you do all the following ...



Markings for floors, electrical...

...and drop ceilings

Plumb line (carpentry)

Cross line to align tiles etc.

Plumb line up and down

90° angle

Dot relays

- **Self-leveling mechanism** – eliminates set up time and guarantees accuracy by using a magnetically subdued pendulum.
- **Automatic out-of-level sensing** – by blinking laser beam.
- **Locked line angle** – take unit out of self-leveling mode and lock line in place allowing you to set unit at any angle.

## Technical Data autoMAGIC

Type of laser	red diode laser, wavelength 635 nm
Output	laser class 2
Leveling	fully automatic (motor function)
Accuracy	± 3 mm/10 m
Range	50 m Ø with receiver
Power supply	3 x 1,5 V batteries size Typ AA LR6
Tripod connection size	1/4"
Dimensions	115 x 115 x 75 mm
Casing	dustproof, dirt-proof and waterproof

## Technical Data Adapter

Tripod connection size	1/4", 5/8"
Fastening	magnets, straps, tripod
Dimensions	105 x 53 x 60 mm
Set Weight	0,9 kg

## Which construction laser for which application?

# Make your choice!

	Features	topoMAT	Nautilus
	Protection against water	✓ <b>Rainproof</b> according to IP 55	✓ <b>Waterproof</b> according to IP 67
	Indoor-application	✓ Range with receiver Ø 300 m	✓ Range with receiver Ø 300 m
	Outdoor-application	✓ Range with receiver Ø 300 m	✓ Range with receiver Ø 300 m
	Power supply	3 batteries 1,5V mono LR20	Line powered and accumulator (Ni-MH)
	<b>Electronic Safety Program</b>	✓ Shock-monitored by <b>ESP</b>	✓ Shock-monitored by <b>ESP</b>
	Accuracy	± 2,6 mm / 30 m	± 2,6 mm / 30 m
	All-taken-care-of- package	3-year-warranty First inspection included Help in case of defects	3-year-warranty First inspection included Help in case of defects
	Vertical levelling	✓	
	Continuous inclination	✓	
	Right angle 90°	✓	
	Plumb line	✓	
	Horizontal levelling	✓	✓
	Remote control	✓	
	Visible line	✓	



## Construction Laser (waterproof/horizontal)

# NAUTILUS IPX7

- Does not know what "bad weather" means
- Use it under severe conditions on the construction site
- Set it up, switch it on and begin (single-button-control)
- Robust, accurate and safe by means of ESP (Electronic Safety Program)
- Line-powered or accumulator

Order no.: L2648 03 AH SET

**BMI**



### Electronic Safety Program:

automatic laser stop  
in case of shocks or changes  
in position



### With rechargeable battery

(Ni-MH; without memory effect)



### Waterproof IP67 compliant



### The complete set with the practical carrying bag:

- NAUTILUS IPX7.
- Receiver with staff clamp
- Charging set
- Operating instruction
- Accumulator set (Ni-MH) and batteries for the receiver

Robust aluminium casing

Shock protection with a  
circulating plastic shock absorber



**Waterproof  
IP67 compliant**

**Photodiode hand receiver to  
ensure optimum functioning of  
the laser within a working  
range up to a distance of 250 m**

- Acoustic and optical receiving signal
- LCD display at the front side for easy and practical handling

#### Technical Data Rotationslaser

Type of laser	red diode laser, wave length 635 nm
Output	< 1 mw; laser class 2
Self-levelling range	approx. $\pm 4^\circ$ corresponds to $\pm 6\%$
Levelling accuracy	$\pm 2,6$ mm/30 m
Levelling time	< 30 sec.
Operating range	$-10^\circ$ C to $50^\circ$ C
Range	500 m $\varnothing$ with receiver
Speed	600 rotations/min.
Power supply	line-powered or accumulator (Ni-MH) 4 x 1,2 V Baby, size A, LR14
Service life	50 hrs

Protective system	waterproof IP 67 compliant
Tripod connection size	5/8 inch (tripod)
Dimensions	ca. 170 x 170 x 220 mm
Weight	2,5 kg

#### Technical Data Receiver

Range	250 m
Protective system	waterproof IP 67 compliant
Power supply	2 x 1.5 Volt Mignon AA LR6
Service life	according to usage



# CONSTRUCTION LASER self-leveling (rainproof/horizontal/vertical/remote control)

## topoMAT IPX5

Set-Order no.: L2648 02N SET incl.inclinometer

- Needs no more than one person to take care of leveling jobs!
- Efficient, automatic and safe in all situations.
- A universal leveling system for various jobs.



### Precision and safety:

- As a result of the automatic self-levelling function with an accuracy of  $\pm 2,6 \text{ mm}/30 \text{ m}$
- Automatic laserstop function in case of impact or other changes of position.



**Electronic Safety Program**



**Photodiode hand receiver to ensure optimum functioning of the laser within a working range up to a distance of 250 m**

- Acoustic and optical receiving signal
- LCD display at the front side for easy and practical handling

### Laser operating modes:

- Rotation – with 600, 300 and 100 rotations per minute – to choose the optimum task-suited rotation speed!
- Line-mode – with settings of 15, 30, or 45 degrees – to create visible laser lines or different lengths especially inside buildings!
- Dot-line mode – to the right or left – optional for the slow or fast retracing of laser dots or laser lines – function can be enabled directly at the laser or via remote control!
- Permanent angle through the firmly connected beam splitting prism.



**Rainproof IP55 compliant**



**Waterproof IP67 compliant**

### Automatic self-levelling:

Requires only rough setting with the help of the built-in bulls-eye vial

**Far-reaching infra-red remote control for every laser operating moden**



The electronic inclination measure allows fast measuring of inclinations between 0 and 90 degrees. The angle measure is detachable and can be used solo.

**The topoMAT is also available without the inclinometer.**

**Set-Order no.:** L1648 02N SET incl.inclinometer

**Set-Order no. topoMAT IPX5:** L1648 02B SET **without** inclinometer

**Order no. inclinometer:** L1648 10 Z

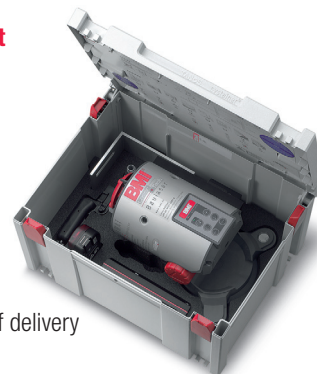
### No time-consuming modification:

Fast **variable** changing from horizontal to vertical operation with lockable 90° tilting joint

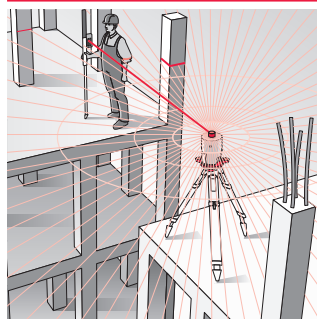


### Complete laser set comes in robust storage and transport case:

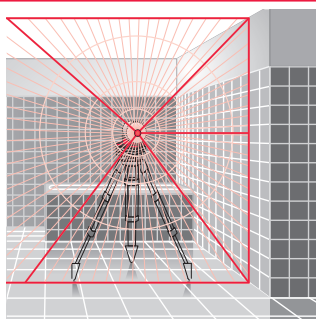
- Rotating laser topoMAT IPX5
- Electronic inclinometer
- Remote control
- Hand receiver
- Wall bracket
- Clamp for telescopic levelling staff
- Diagrammed operating manual
- Batteries are included in the scope of delivery



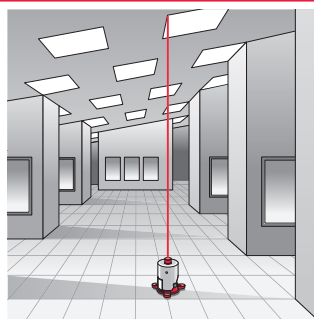
### Operating range



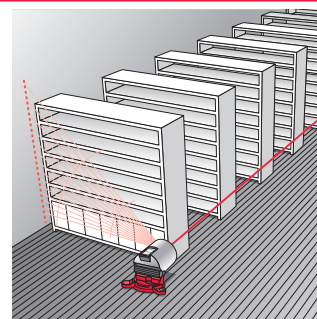
Horizontal plane



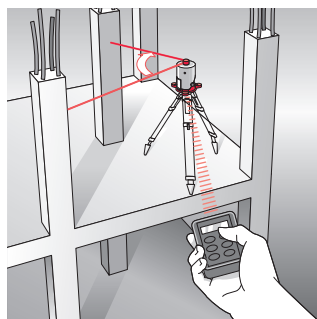
Vertical plane



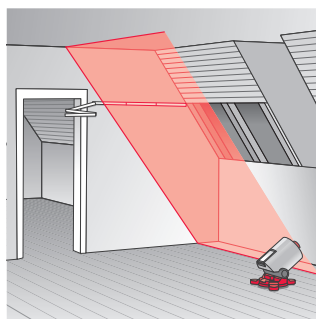
Plumb line



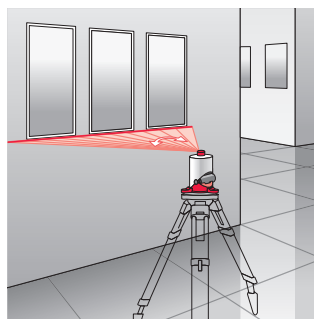
90° angle



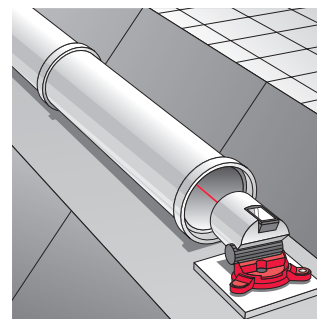
Spot projection



Inclinations



Line projection



Working along the beam

### Technical Data topoMAT ipx5

Type of laser	Red diode laser, wavelength 635 nm
Output	< 1mW, Laser class 2
Self-levelling range	approx. $\pm 4^\circ$ corresponds to approx. $\pm 6\%$
Levelling accuracy	$\pm 2,6 \text{ mm}/30 \text{ m}$
Levelling time	typically < 30 sec.
Laser range	500 m diameter with detector
Speed	600/300/100 rotations per min
Lines	Scanning function with $15^\circ$ , $30^\circ$ and $45^\circ$ spreading
Remote control. dot/line	slow and fast left/right
Power supply	3 x 1,5 Volt Mono LR 20
Operating period	approx. 70 hours
Operating period	IP55, rainproof
Tripod connection size	5/8 inch (surveyor's tripod)
Weight	2,3 kg
Dimensions	approx. 200 x 200 x 250 mm

### Technical Data Remote Control

Range	up to 50 m depending on position in direction of receiver lens
Power supply	9 V block 6 LR61
Operating period	depending on the degree of utilization

### Technical Data Receiver

Range	approx. 250 m
Degree of protection	IP67, waterproof
Power supply	2 x 1,5 Volt Mignon AA LR6
Operating period	depending on the degree of utilization

# Accessories

## Crank-Operated Tripod

- Especially recommended for the rotating laser topoMAT and NAUTILUS
- Sturdy light metal design
- Ground spikes
- Circular bubble
- Connecting thread 5/8 inch
- min. length 112 cm, max. length 242 cm
- Crank lift 350mm
- Weight 5760 g

Order no.: L2711 312

Laser can be set up on this tripod at a minimum height of less than 1m.



## Photo Tripod

- Robust photo tripod recommended for Torpedo 3 and autoCROSS 2.
- Tripod connection size 1/4".
- 3-D tip made of metal.
- Vials.
- Operating height of 310 to 1440 mm.
- Weight 1020 g.

Order no.: L2711 212-01







# Rules

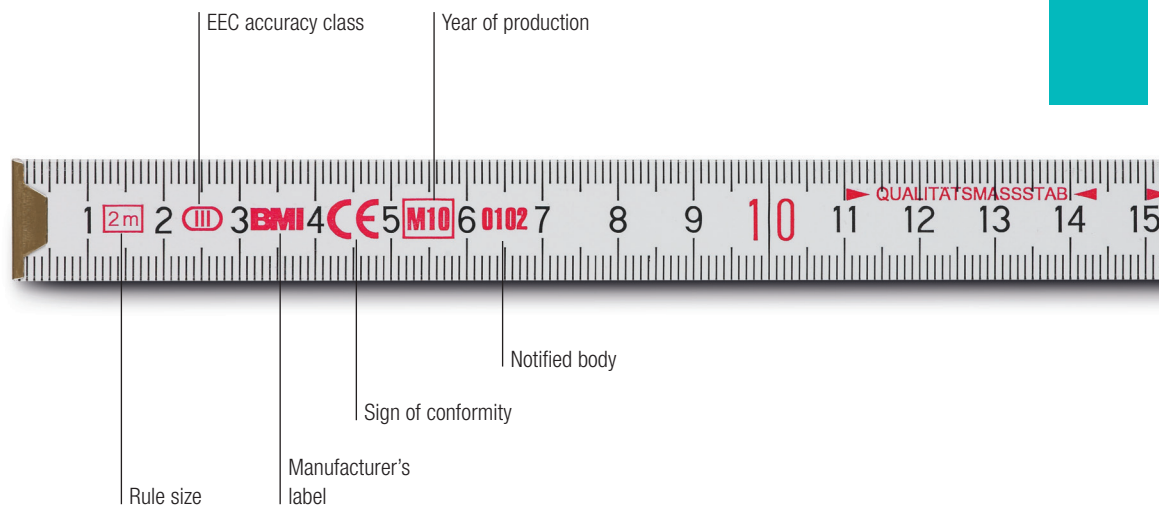
Rules and folding rules made of wood, plastic or metal still are the measuring instruments in trade and industry for longitudinal measuring. For different applications with regard to precision, or to certain impacts, like humidity and heat, BMI always offers the right measure for you.

## ADVANTAGES

### Aluminium folding rules

- Good stand
- High accuracy (EC II)
- Excellent readability
- Resistant to many environmental impacts and heat

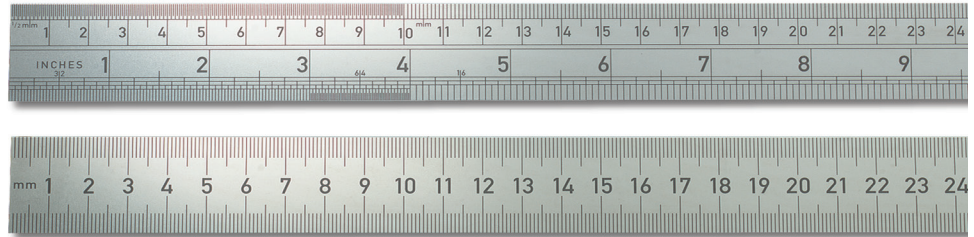
You can spot quality rules from these imprints:





## 966

Rigid steel measuring rules made of **stainless**, hard-rolled spring band steel. For graduations available see matrix. Ultra-modern manufacturing processes ensure sharp graduation contours. The graduation is largely anti-abrasive, and withstands chemicals, grease and oil. Its matt finish allows good reading. Rounded edges. EC accuracy class for metric graduation.



With additional graduation on the rear on request.

Highlighted items are stock

Order no.	Length in mm		section in mm*	Graduation top edge	Graduation bottom edge
<b>L3966206 R</b>	150	6	18 x 0,5	1/2, 1/1 mm	1/16, 1/32, 1/64"
<b>L3966212 R</b>	300	12	28 x 1,0	1/2, 1/1 mm	1/16, 1/32, 1/64"
<b>L3966220 R</b>	500	20	30 x 1,0	1/2, 1/1 mm	1/16, 1/32, 1/64"
<b>L3 966224 R</b>	600	24	30 x 1,0	1/2, 1/1 mm	1/16, 1/32, 1/64"
<b>L3966240 R</b>	1000	39	30 x 1,0	1/2, 1/1 mm	1/16, 1/32, 1/64"
<b>L3 966138 R</b>	300	12	28 x 1,0	1/1 mm	1/1 mm
<b>L3 966153 R</b>	500	20	30 x 1,0	1/1 mm	1/1 mm
<b>L3966163 R</b>	600	24	30 x 1,0	1/1 mm	1/1 mm
<b>L39661130 R</b>	1000	39	30 x 1,0	1/1 mm	1/1 mm
<b>L39661130 H</b>	1000	39	30 x 1,0	1/2 mm	1/1 mm
<b>L39661530 H</b>	1500	59	30 x 1,0	1/2 mm	1/1 mm
<b>L39662030 H</b>	2000	78	30 x 1,0	1/2 mm	1/1 mm
<b>L39663030 H</b>	3000*	00	30 x 1,0	1/2 mm	1/1 mm
<b>L39665030 H</b>	5000*	00	x0 x 1,0	1/2 mm	1/1 mm

## ADVANTAGES

### Aluminium folding rules

- Good stand
- High accuracy (EC II)
- Excellent readability
- Resistant to many environmental impacts and heat

### Flexible and rigid rules

- Rustless
- High accuracy (EC II)
- Signed, anti-abrasive graduation

Rules and folding rules still are

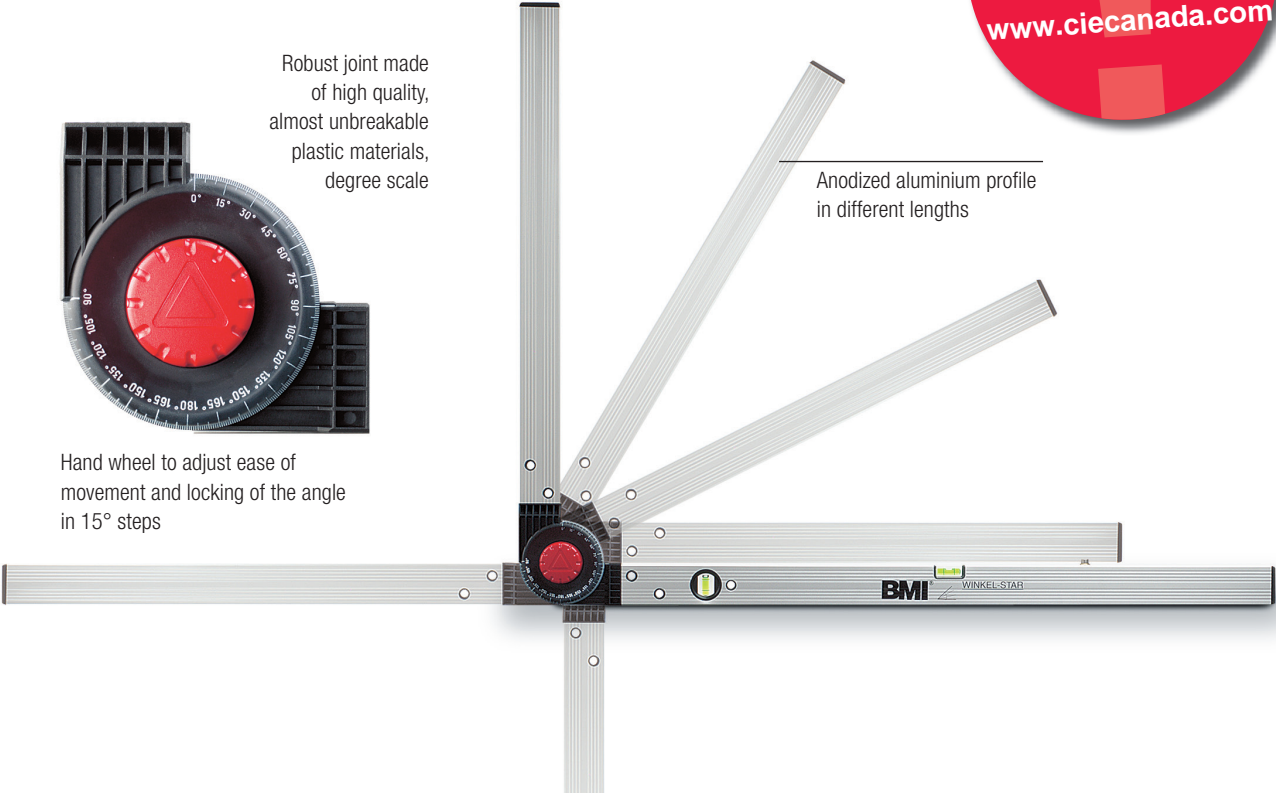
the measuring instruments in trade and industry for longitudinal measuring. For different applications with regard to precision, or to certain impacts, like humidity and heat, BMI always offers the right measure for you.

\* Tolerance of widths  $\pm 0,5$  mm

Squares

Multiple Angle Square  
WINKELSTAR

BMI

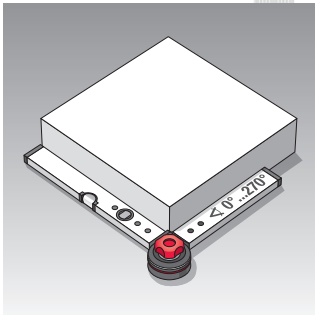


Robust joint made of high quality, almost unbreakable plastic materials, degree scale

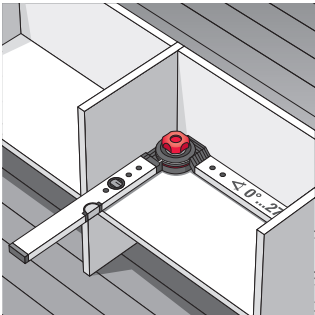
Anodized aluminium profile in different lengths

Hand wheel to adjust ease of movement and locking of the angle in 15° steps

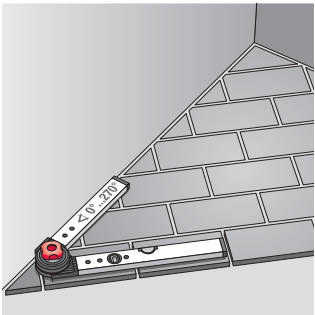
Robust foldable angle level for variable transfer or taking of angles of 0° to 270°. The angles can be fixed in 15° steps. With the built-in vials it can also be used as a spirit level. Easy transport. Available in different sizes.



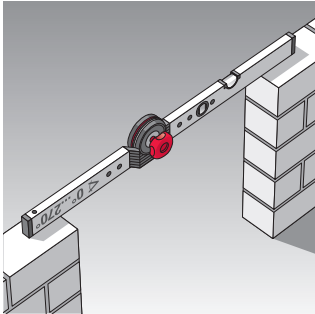
Outer 90° angle



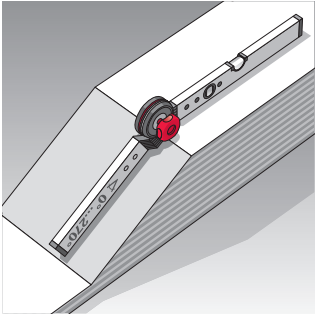
Inner 90° angle



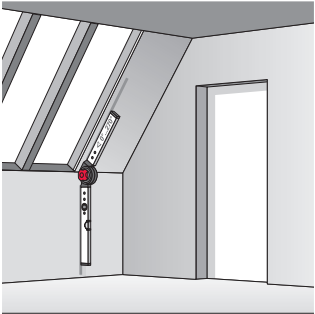
45° angle



Works as a level



Gradient/slope works



Works as a bevel

Order no.	Price	Short leg	Long leg
L1715 060 080		24"	31"
L1715 060 120		24"	48"
L1715 100 150		40"	60"
L1715 100 200		40"	79"

Highlighted item is stock



# BMI®

# Measuring Instruments

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2013