

Horizontal precision spirit level
Item No. 4020/160 – 4024/500

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Product:

Horizontal precision spirit level according to DIN 877. Stable version made of high-quality special casting, structurally lacquered. Measuring surfaces flat and prismatic (150°) finely ground, with ground and divided longitudinal vial with lateral insight. The device is equipped with cross-vial and full heat protection. Suitable for aligning horizontal surfaces and shafts. The sensitivity of the longitudinal vial is indicated on the type label.

Technical information:

Length	mm	160	200	250	300	500
Width / Height	mm	42 / 42	42 / 42	42 / 42	42 / 42	44 / 42
Weight of the water scale	kg	0.98	1.26	1.70	2.12	3.92
Item No. 4020	0.30 mm/m	X	X	X	X	X
Item No. 4021	0.10 mm/m	X	X	X	X	X
Item No. 4022	0.04 mm/m	X	X	X	X	X
Item No. 4023	0.02 mm/m	X	X	X	X	X
Item No. 4024	0.01 mm/m	-	X	X	X	X

(X = available)

Possible shaft diameter: 115.9 mm (max), 19.3 mm (min)

Special designs optional:

- with flat sole
- with magnets
- with holes for screwing on

Accessories:

Custom, robust plastic case for storage (402x/xxx/KK)

Additional service optional:

Measuring protocol

Working/storage temperature:

For precision mechanical spirit levels, the working temperature is 20°C (+/-5 K) and the storage temperature is -40°C to +70°C.

Tolerances according to DIN 877 depending on the sensitivity at L > 100 mm (L ≤ 100 mm):

0.3 mm/m:	T _{zul} =	60(120) microns/m,	DoE = 0.4 (0.8) Scd
0.1 mm/m:	T _{zul} =	20(40) microns/m,	DoE = 0.4 (0.8) Scd
0.04 mm/m:	T _{zul} =	10(10) microns/m,	DoE = 0.5 (0.5) Scd
0.02 mm/m:	T _{zul} =	10(10) microns/m,	DoE = 1.0 (1.0) Scd
0.01 mm/m:	T _{zul} =	10(10) microns/m,	DoE = 2.0 (2.0) Scd

T_{zul} = permissible tolerance, DoE = difference value on envelope, Scd = scale divisions