

Precision spirit level with especially broad prism
 Item No.. 4520/160 – 4524/250

Manufacturer:
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Product:
 Horizontal spirit level with especially broad prism sole according to DIN 877. Stable version made of high-quality special casting, structurally lacquered. For aligning horizontal shafts with large diameters up to 950 mm depending on the model. The measuring surfaces are finely ground. The device is equipped with ground and split longitudinal vial, transverse vial and full heat protection. The sensitivity of the longitudinal vial is indicated on the type label.

Technical information:

Length	mm	160	200	250
Width / Height	mm	140 / 74	160 / 75	200 / 78
Angle of the measuring base	degrees	13	13	12
min. / max. diameter	mm	54 / 600	54 / 690	58 / 950
Weight of the water scale	kg	3.12	4.04	6.92
Item No. 4520	0.30 mm/m	X	X	X
Item No. 4521	0.10 mm/m	X	X	X
Item No. 4522	0.04 mm/m	X	X	X
Item No. 4523	0.02 mm/m	X	X	X
Item No. 4524	0.01 mm/m		X	X

(X = available)

Special designs optional:
 With milling of the measuring surface for weight saving

Accessories:
 Custom, robust plastic case for storage (452x/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 _{tol} =	60(120) microns/m,	DoE = 0.4 (0.8) Scd
0.1 mm/m:	T _{tol} =	20(40) microns/m,	DoE = 0.4 (0.8) Scd
0.04 mm/m:	T _{tol} =	10(10) microns/m,	DoE = 0.5 (0.5) Scd
0.02 mm/m:	T _{tol} =	10(10) microns/m,	DoE = 1.0 (1.0) Scd

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