31100-10 3D dial gauge stand, high-strength micro-precise with mechanical and progressive clamping

Item description/product images

Description

Material:
Articulated arm aluminium.
Ball and ball seat steel.
Dial gauge holder steel.
Magnet steel.

Version:
Dial gauge holder ferritic nitrocarburised.
Articulated arm anodised.

Note:
3D high-strength, micro-precision dial gauge stands from norelem are for perfect measurements down to the µ range, maximum ease of use, perfect stability, maximum retaining forces, perfect reliability and absolute durability.

The dial gauge stand consist of a magnetic base which is a switchable permanent magnet with a ground, prismatic base and flat, precise rear side, an articulated joint with central mechanical clamping for one-handed operation and a fine or micro-adjustable dial gauge holder.

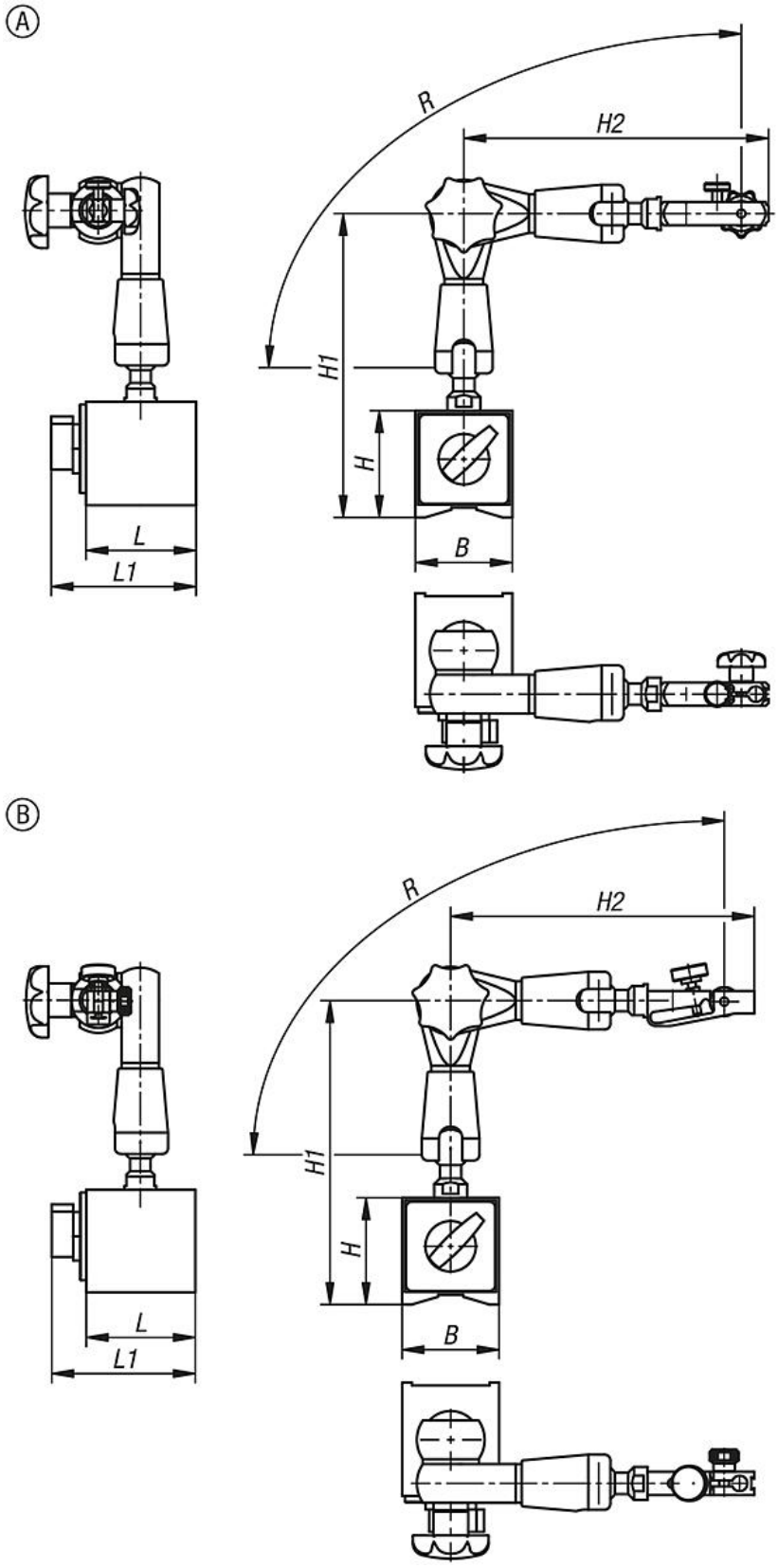
With the dial gauge stand, the joints are not clamped simultaneously, but one after the other from bottom to top. The tension is released in reverse order. This significantly increases ease of use during fine adjustment.
It also prevents damage to the joints. The joints are clamped purely mechanically, which guarantees a long service life and complete maintenance-free operation. Sudden pressure drops under differing temperature conditions can be ruled out. Clamping over longer periods is easily possible.

The articulated arms are generously dimensioned and therefore highly stable. The contours are ergonomically rounded for comfortable handling.

The ball joints contain large diameter balls which fit precisely into their mating parts. In addition to the enormous retaining force, the effect is also permanently smooth adjustment thanks to very even glide characteristics.

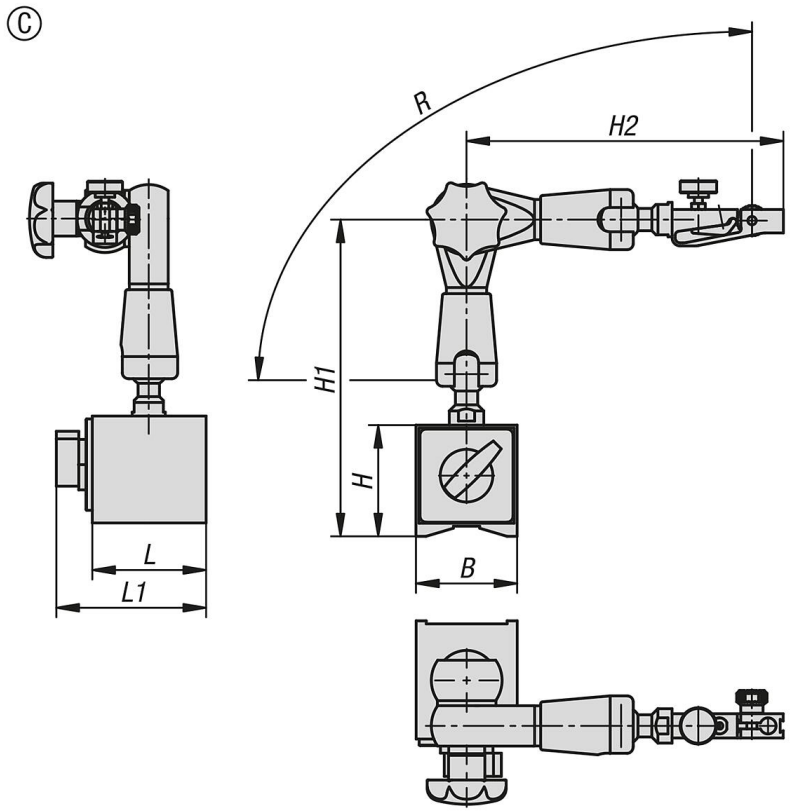
With the dial gauge holders, you can choose between fine adjustment, permanent backlash-free fine adjustment or µ-precise permanent backlash-free micro-fine adjustment of the dial gauges.
Measuring instrument holder:
Form A: Fine adjustment 1.4 mm/U.
Form B: Fine adjustment play-free 0.6 mm/U.
Form C: Micro-adjustment play-free 0.1 mm/U.

Drawings



31100-10 3D dial gauge stand, high-strength micro-precise with mechanical and progressive clamping

Drawings



Overview of items

Order No.	Form	Form definition	B	H	H1	H2	L	L1	Effective radius	F=retaining force (N)
31100-10-0225	A	fine adjustment standard	50	55	156,6	157,1	58,5	75,5	225	750
31100-10-0345	A	fine adjustment standard	50	55	235,2	236,7	73	90	345	1000
31100-10-1225	B	Play-free fine adjustment	50	55	156,6	157,1	58,5	75,5	225	750
31100-10-1345	B	Play-free fine adjustment	50	55	235,2	236,7	73	90	345	1000
31100-10-2225	C	Play-free micro-adjustment	50	55	156,6	157,1	58,5	75,5	225	750
31100-10-2345	C	Play-free micro-adjustment	50	55	235,2	236,7	73	90	345	1000