

H. Vario plug gauge SCA

"SCA" "self centring and aligning" means, that the measuring instrument centres and aligns itself automatically inside the bore. Therefore, a special centring plate has been developed. The SCA is a pro-user combination of the world-famous SUBITO® with the indicating plug gauge of the series OD (for the measurement of larger series). Its application area is the measurement of cylindrical bores from Ø 20 - 170 mm and their form deviations, for single-series or large-scale series, in the production and the control. The construction principle of the SCA is based on the reliable segment deviation of the SUBITO®, so that the resulting advantages are also valid for the SCA.

The advantages of the SCA are as follows:

- extensive and flexible range of application, due to the interchangeable measuring pins
- easy handling, therefore fast and reliable measurement without search of reversal point by oscillating
- long service life, because of the standard fitting with tungsten carbide of the contact and measuring pins. Furthermore, all internal wearing parts of the SCA are hardened or fitted with tungsten carbide, the same as for the SUBITO®.
- high "Gauge R & R capability", so that the SCA can also be operated by inexperienced users, i. e. the measuring result is nearly independent of the user of the measuring instrument.
- high measuring accuracy (repeatability $\leq 1 \mu\text{m}$)

Accessories

- setting device ESU with special setting jaws for the SCA
- retraction for centring plate to ease the insertion into the bore

technical data SCA

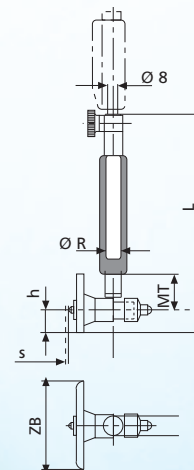
range of application	20 - 170 mm
repeatability	$f_w \leq 1 \mu\text{m}$
max. deviation	$f_e \leq 2 \mu\text{m}$
hysteresis	$f_u \leq 2,5 \mu\text{m}$

SELECTION CRITERIA FOR SUBITO® SCA

Range of application D	mm	mm	mm	mm	mm
from	20	35	50	80	120
to	35	55	80	120	170
travel s	1,3	1,3	1,4	1,4	1,6
measuring depth MT	21	23	24	24	30
total length L	119	129	147	147	167
tube Ø R	8	10	12	12	18
centring plate width ZB	16	28	45	60	85
front distance h	9	10	15	15	18
no. of measuring pins	8	6	7	9	5
no. of increment washers	2	2	3	3	4
extension	-	-	-	(1)/50	-



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SUBITO® SCA