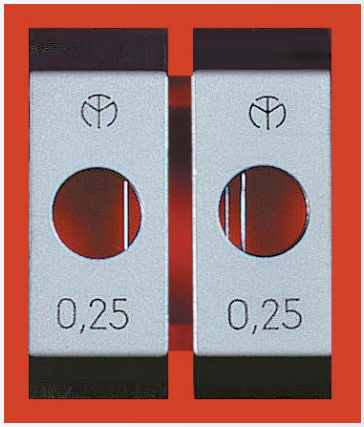
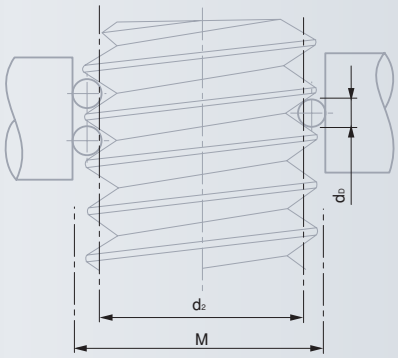
XB Wires for Screw Threads

For measuring pitch diameter of threads using the three-wire method. Actual flank diameter d_2 can either be determined arithmetically or with the aid of the relevant tables based on the measured actual size M – Suitable for all standard micrometers with a measuring insert having a 6,5 mm diameter.





- Steel wires, hardened
- Wires are mounted on holders: 2-wire holder rests on anvil while the single wire holder is used on spindle side
- Single pairs are supplied in a plastic box, full set in a wooden case
- Declaration of conformity

No	Wires diameter	ISO metric threads	Whitworth threads	Unified inch-threads UN, UNC, UNF …
	d_D mm	Pitch in mm	*Number of threads per in*	*Number of threads per in*
00240701	0,17	0,25/0,3	–	–
00240702	0,22	0,35	–	*72*
00240703	0,25	0,4	*60*	*64*
00240704	0,29	0,45/0,5	–	*56*
00240705	0,335	0,6	*48/40*	*48/44*
00240706	0,455	0,7 ÷ 0,8	–	*32*
00240707	0,53	0,9	*32/28*	*28*
00240708	0,62	1,0	*26/24*	*24*
00240709	0,725	1,25	*22 ÷ 19*	*20*
00240710	0,895	1,5	*18/16*	*18/16*
00240711	1,10	1,75	*14*	*14/13*
00240712	1,35	2,0	*12/11*	*12/11*
00240713	1,65	2,5	*10/9*	*10/9*
00240714	2,05	3,0/3,5	*8/7*	*8/7*
00240715	2,55	4,0/4,5	*6*	*6*
00240716	3,20	5,0/5,5	*5/4.5*	*5/4.5*
Set of 16 pairs				
00240700	0,17 ÷ 3,20			

Micrometer Stands

For micrometers up to 300 mm as well as many other hand-held tools.

No	
TESA	
00160201	
ETALON	
072110123	

- Clamp aperture: 16 mm (TESA) or 20 mm (ETALON)
- Lacquered cast iron base
- Tilt can be locked. Uses a single bolt only

✓

Hardened steel

INTERAPID have one flat face and one rounded face, lapped.
ETALON Basic: ≤ 275 mm = two parallel faces, lapped;
≥ 300 mm = 1 flat and 1 rounded faces, lapped

Cylindrical gauge block with insulating grip in synthetic rubber.
INTERAPID with dull-chrome shaft

INTERAPID with lengths:
≤ 175 mm = 10 mm
≥ 200 mm = 13 mm
ETALON Basic with lengths:
≤ 75 mm = 7 mm
≥ 100 mm = 8 mm

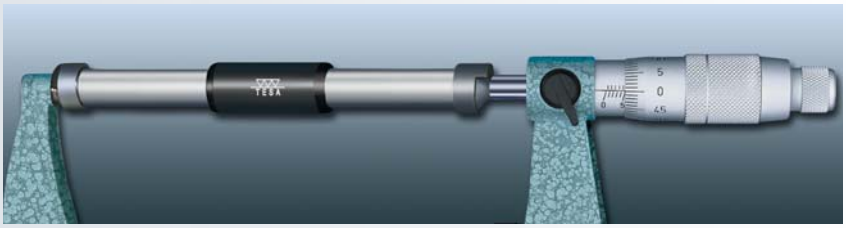
Max. perm. error (ETALON Basic)
≤ 75 mm: 2 µm
100 and 125 mm: 2,5 µm
150 and 175 mm: 3 µm
≥ 200 ≤ 275 mm: 3,5 µm
≥ 300 ≤ 375 mm: 4 µm
≥ 400 ≤ 475 mm: 5 µm
500 mm: 6 µm
INTERAPID:
Tolerance over the length:
± (1 + L/100) µm, L in mm

Identification number

INTERAPID: Inspection report with actual measured length

Declaration of conformity

Setting Standards



		mm		mm		in		in	
INTERAPID	*ETALON Basic*		*INTERAPID*		*INTERAPID*		*INTERAPID*		
02140001	**02119020**	25	**02140026**	650	***02150001***	*1*	***02150026***	*26*
02140002	**02119021**	50	**02140027**	675	***02150002***	*2*	***02150027***	*27*
02140003	**02119022**	75	**02140028**	700	***02150003***	*3*	***02150028***	*28*
02140004	**02119023**	100	**02140029**	725	***02150004***	*4*	***02150029***	*29*
02140005	**02119024**	125	**02140030**	750	***02150005***	*5*	***02150030***	*30*
02140006	**02119025**	150	**02140031**	775	***02150006***	*6*	***02150031***	*31*
02140007	**02119026**	175	**02140032**	800	***02150007***	*7*	***02150032***	*32*
02140008	**02119027**	200	**02140033**	825	***02150008***	*8*	***02150033***	*33*
02140009	**02119028**	225	**02140034**	850	***02150009***	*9*	***02150034***	*34*
02140010	**02119029**	250	**02140035**	875	***02150010***	*10*	***02150035***	*35*
02140011	**02119030**	275	**02140036**	900	***02150011***	*11*	***02150036***	*36*
02140012	**02119031**	300	**02140037**	925	***02150012***	*12*	***02150037***	*37*
02140013	**02119032**	325	**02140038**	950	***02150013***	*13*	***02150038***	*38*
02140014	**02119033**	350	**02140039**	975	***02150014***	*14*	***02150039***	*39*
02140015	**02119034**	375	**02140040**	1000	***02150015***	*15*	***02150040***	*40*
02140016	**02119035**	400	**02140041**	1025	***02150016***	*16*	***02150041***	*41*
02140017	**02119036**	425	**02140043**	1075	***02150017***	*17*	***02150043***	*43*
02140018	**02119037**	450	**02140045**	1125	***02150018***	*18*	***02150045***	*45*
02140019	**02119038**	475	**02140047**	1175	***02150019***	*19*	***02150047***	*47*
02140020	**02119039**	500	**02140049**	1225	***02150020***	*20*	***02150049***	*49*
02140021		525	**02140051**	1275	***02150021***	*21*	***02150051***	*51*
02140022		550	**02140053**	1325	***02150022***	*22*	***02150053***	*53*
02140023		575	**02140055**	1375	***02150023***	*23*	***02150055***	*55*
02140024		600	**02140057**	1425	***02150024***	*24*	***02150057***	*57*
02140025		625	**02140059**	1475	***02150025***	*25*	***02150059***	*59*

Guide Collars

Make the positioning of INTERAPID setting standards fast and easy.

	mm	mm
02140103	100 ÷ 175	8
02140108	200 ÷ 1475	8

ETALON
Cylindrical Step Gauges

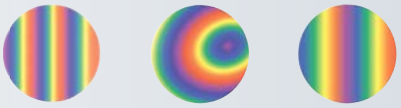
For display setting and calibration.

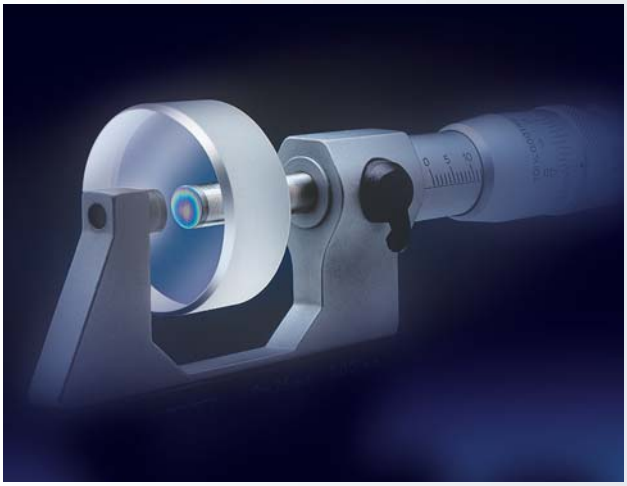
№	Ø mm
072112020	5 ÷ 100
072112021	5 ÷ 150

- Alloyed steel, hardened
- Diameters in step of 5 mm (≤ 50 mm) or 10 mm (> 50 mm)
- Max. perm. errors for nominal diameters:
  ≤ 80 mm = 1,5 µm
  ≥ 90 ≤ 120 mm = 2,0 µm
  ≥ 130 mm = 2,5 µm
- Mounted on a wood base. Supplied with dust cover
- Declaration of conformity

Optical Flats with Two Parallel Faces

Used for examining the flatness and parallelism of the measuring faces on external micrometers as well as other similar measuring instruments. The difference in length of the optical flats within a set corresponds to a quarter or a third of the spindle pitch of 0,5 mm.





№	mm
02510001	12,00
02510002	12,125
02510003	12,25
02510004	12,375
02510000	12,00 ÷ 12,375
02510101	27,00
02510102	27,165
02510103	27,335
02510100	27,00 ÷ 27,335
02510201	52,00
02510202	52,165
02510203	52,335
02510200	52,00 ÷ 52,335
02510301	77,00
02510302	77,165
02510303	77,335
02510300	77,00 ÷ 77,335

- 31 mm
- Length tolerance with reference to the nominal dimension: ± 100 µm
- Flatness tolerances for optical parallels with lengths:
  ≤ 27,335 mm = 0,15 µm
  ≥ 52,00 > 77,335 mm = 0,2 µm
- Parallelism tolerances for optical parallels with lengths:
  ≤ 27,335 mm = 0,4 µm
  ≥ 52,00 > 77,335 mm = 0,5 µm
- Each set is supplied in a wooden case
- Declaration of conformity

TESA Mikechex Gauge Blocks Sets, Metric

Use to set and calibrate the indication of external micrometers.

Steel gauge blocks

Tungsten carbide and ceramic gauge blocks

ISO 3650. Mikechex M10: DIN 863 T1
Mikechex M8, M10 and M11: BS 870

Special alloyed steel, stable and wear resistant.
Stable tungsten carbide, highly resistant to wear.
Ceramic made from stabilised zirconia, extremely resistant to both wear and scratches

Steel: $(11,5 \pm 1,0) \times 10^{-6} K^{-1}$.
Tungsten carbide: $(4,23 \pm 0,1) \times 10^{-6} K^{-1}$.
Ceramic: $(9,7 \pm 0,8) \times 10^{-6} K^{-1}$.

Limit deviations t_e on page J-5

Tolerances t_v on page J-5

See page J-2

Optical parallels on page J-12

Supplied in pairs or individually

Wooden case

Identification number

Steel gauge blocks of any grade: SCS certificate

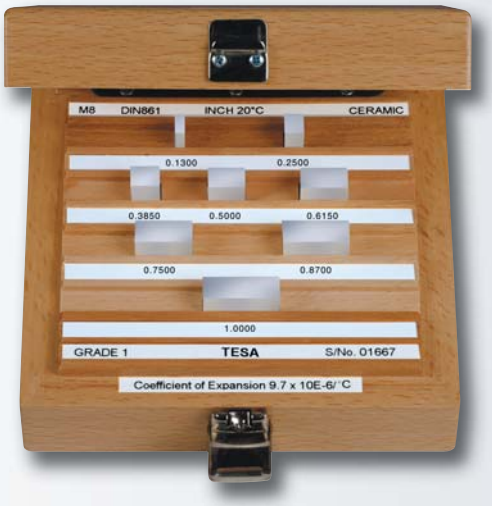
Carbide and ceramic gauge blocks of any grade: UKAS certificate

Steel	Carbide	Ceramic		Set compositions mm							
8 Piece Set – Mikechex M8											
0651516038	**0651526036**	**0651536037**	K	3,1	6,5	9,7	12,5	15,8	19,0	21,9	25,0
0651515038	**0651525038**	**0651535038**	0								
0651511038	**0651521038**	**0651531038**	1								
0651512039	**0651522038**	**0651532038**	2								
8 Piece Set – Mikechex M8 with optical flat											
	0651525042		0	3,1	6,5	9,7	12,5	15,8	19,0	21,9	25,0
	0651521042		1	Optical flat Ø 50 mm*							
	0651522042		2								
10 Piece Set – Mikechex M10											
0651516037	**0651526035**	**0651536036**	K	2,5	5,1	7,7	10,3	12,9	15,0	17,6	20,2
0651515037	**0651525037**	**0651535037**	0	22,8	25,0						
0651511037	**0651521037**	**0651531037**	1								
0651512038	**0651522037**	**0651532037**	2								
10 Piece Set – Mikechex M10 with optical flat											
	0651525041		0	2,5	5,1	7,7	10,3	12,9	15,0	17,6	20,2
	0651521041		1	22,8	25,0						
	0651522041		2	Optical flat Ø 50 mm*							
11 Piece Set – Mikechex M11											
0651515036	**0651525036**	**0651535036**	0	3,1	6,5	9,7	12,5	15,8	19,0	21,9	25,0
0651511036	**0651521036**	**0651531036**	1	50	75	100					
0651512037	**0651522036**	**0651532036**	2								
	0651525040		0	3,1	6,5	9,7	12,5	15,8	19,0	21,9	25,0
	0651521040		1	50	75	100					
	0651522040		2	Optical flat Ø 50 mm*							

* Max. flatness error: 0,125 µm

TESA Mikechex Gauge Block Sets, Inch

Use to set and calibrate the indication of external micrometers.



Carbide	Ceramic		Set compositions					
			in					
8 Piece Sets – Mikechex E8								
0652526023	***0652536014***	K	*0.130*	*0.250*	*0.385*	*0.500*	*0.615*	*0.750*
0652525023	***0652535014***	0	*0.870*	*1.000*				
0652521023	***0652531015***	1						
0652522023	***0652532015***	2						
10 Piece Sets – Mikechex E10								
0652526022	***0652536013***	K	*0.105*	*0.210*	*0.315*	*0.420*	*0.500*	*0.605*
0652525022	***0652535013***	0	*0.710*	*0.815*	*0.920*	*1.000*		
0652521022	***0652531014***	1						
0652522022	***0652532014***	2						
11 Piece Sets – Mikechex E11								
0652521021	***0652531013***	1	*0.130*	*0.250*	*0.385*	*0.500*	*0.615*	*0.750*
0652522021	***0652532013***	2	*0.870*	*1.000*	*2.000*	*3.000*	*4.000*	

✓
BS 4311 Part 1
BS 870 for all set compositions

Steel sort: tungsten carbide providing stability as well as high resistance to wear.
Ceramic sort: extremely resistant zirconia

Tungsten carbide: (4,23 ± 0,1) x 10-6 K-1
Ceramic: (9,7 ± 0,8) x 10^{-6} K^{-1}

See BS 4311 Part 1

Supplied individually or in sets

Wooden case

Identification number

UKAS calibration certificate

Heat Insulating Grips for Micrometers

Protect the frame from hand warmth.

	mm
00140401	up to 200
00140402	200 ÷ 500
00160101	500 ÷ 700
00160102	700 ÷ 1000
00160103	1000 ÷ 1500

✓
Models 00140401 or 00140402 in anodised aluminum.
No. 00160101 to 00160103 in moulded plastic. Black colour for all models.