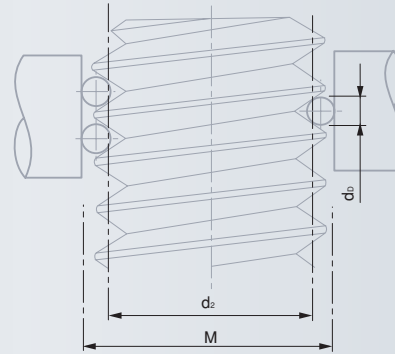
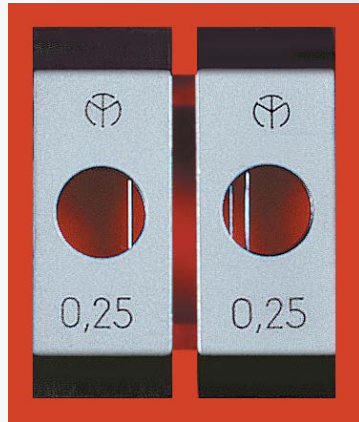


XB Wires for Screw Threads

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

d_0 mm



ISO metric threads

Pitch in mm



Whitworth threads

Number of threads per in



Unified inch-threads UN, UNC, UNF ...

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)

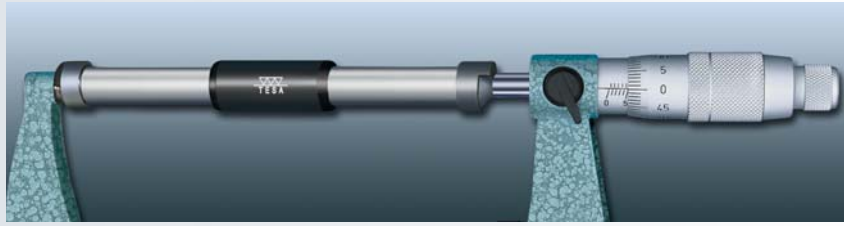


Lacquered cast iron base



Tilt can be locked. Uses a single bolt only

Setting Standards



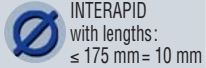
Hardened steel



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



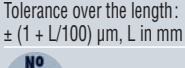
Cylindrical gauge block with insulating grip in synthetic rubber.
INTERAPID with dull-chrome shaft



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 μ m
100 and 125 mm: 2.5 μ m
150 and 175 mm: 3 μ m
 $\geq 200 \leq 275$ mm: 3.5 μ m
 $\geq 300 \leq 375$ mm: 4 μ m
 $\geq 400 \leq 475$ mm: 5 μ m
500 mm: 6 μ m



INTERAPID:
Tolerance over the length:
 $\pm (1 + L/100)$ μ m, L in mm



Identification number



INTERAPID:
Inspection report with actual measured length



Declaration of conformity

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.



072112020

mm

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 μ m
 $\geq 90 \leq 120$ mm = 2,0 μ m
 ≥ 130 mm = 2,5 μ m



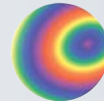
Mounted on a wood base. Supplied with dust cover



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 μ m



Flatness tolerances for optical parallels with lengths:
 $\leq 27,335$ mm = 0,15 μ m
 $\geq 52,00 > 77,335$ mm = 0,2 μ m



Parallelism tolerances for optical parallels with lengths:
 $\leq 27,335$ mm = 0,4 μ m
 $\geq 52,00 > 77,335$ mm = 0,5 μ m



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
- Steel sort: stable tungsten carbide, highly resistant to wear.
- Ceramic sort: extremely resistant zirconia

- Steel: $(11,5 \pm 1,0) \times 10^{-6} K^{-1}$.
- Tungsten carbide: $(4,28 \pm 0,1) \times 10^{-6} K^{-1}$.
- Ceramic: $(9,7 \pm 0,8) \times 10^{-6} K^{-1}$.

- Limit deviations t_c on page J-4
- Tolerances t_c on page J-4
- See page J-4
- Optical parallels on page J-11
- 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.



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 wear-resistant zirconia

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

See BS 4311 Part 1

Supplied individually or in sets

Wooden case

Identification number

UKAS calibration certificate



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	

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.