

RÉGUAS PARALELAS



Parallels

Materia: Alloyed tool steel
58 +/-2 HRC
Tolerance: A = 0,01 mm
B = 0,005 mm

In wooden case

Größe/ Size	L mm	A mm	B mm	Menge/ Quantity	Paare/ Pairs	Art.-Nr./ Order no
100 x 4	100	4	10/14/18/22/26 30/34/38/42	je 2/ 2 each	9	13-MLRD-100/4
120 x 8	120	8	12/17/22/25 28/32/36/38	je 2/ 2 each	8	13-MLRD-120/8
160 x 4	160	4	10/14/18/22/26 30/34/38/42	je 2/ 2 each	9	13-MLRD-160/4
160 x 8	160	8	14/16/18/20/22/24/26 28/30/32/35/40/45/50	je 2/ 2 each	8	13-MLRD-160/8
200 x 8	200	8	17/22/28/32 32/36/38/42	je 2/ 2 each	8	13-MLRD-200/8



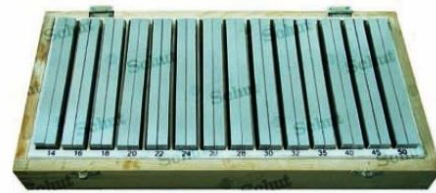
Steel parallel blocks

Parallels to position and layout workpieces in e.g. clamping jaws for drilling, grinding, milling and measuring. The workpieces and assemblies can easily be set up to the desired working height.

- Parallelism of the two measuring faces: ±0.005 mm.
- Size deviation (height): ±0.01 mm.
- Hardness: 55 HRC.
- Ground in matched pairs.
- Produced of a high-grade steel alloy.
- Delivery in a case with a manufacturer's certificate.



(Only available in sets.)



906.996

In wooden case

Größe/ Size	L mm	A mm	B mm	Menge/ Quantity	Paare/ Pairs	Art.-Nr./ Order no
12 x 10	120	10	14/16/18/20/ 22/ 24/ 28/ 28 30/ 32/ 35/ 40	je 2/ 2 each	12	13-PUS-120/10
14 x 10	150	10	14/16/18/20/22/24/ 26/28/30/32/ 35/40/45/50	je 2/ 2 each	14	13-PUS-150/10



In wooden tray

Größe/ Size	L mm	B x A mm	Menge/ Quantity	Paare/ Pairs	Art.-Nr./ Order no
100 x A	100	5x2/10x2/15x2/20x2/26x2/11x3/16x3/21x3/ 7x4/12x4/17x4/22x4/8x5/13x5/18x5/23x5/ 9x8/14x8/19x8/24x8	je 2/ 2 each	20	13-PUS-100HL
125 x A	125	11x8/16x8/21x8/26x8/31x8/36x8/13x10/ 18x10/23x10/28x10/33x10/38x10/15x12/ 20x12/25x12/30x12/35x12/40x12/17x14/ 22x14/27x14/32x14/37x14/42x14	je 2/ 2 each	24	13-PUS-125HL
150 x A	150	11x8/16x8/21x8/26x8/31x8/36x8/13x10/ 18x10/23x10/28x10/33x10/38x10/15x12/20x12/25x12/30x12/35x12/40x12/ 17x14/22x14/27x14/32x14/37x14/42x14	je 2/ 2 each	24	13-PUS-150HL



RÉGUAS DE CERAMICA

Ceramic parallels in pairs

Parallels to position and layout workpieces in for example clamping jaws for drilling, grinding, milling and measuring.

- Made of alumina ceramics.



Item No.	Dimensions l x w x h/mm	Flatness measur- ing faces/mm	Parallelism mea- suring faces/mm	Squareness mm	Height difference/mm	Price
Class A:						
908.732	250 x 40 x 25	0.004	0.004	0.020	0.004	
908.733	400 x 63 x 40	0.008	0.008	0.030	0.008	
Class AAA:						
908.737	250 x 40 x 25	0.002	0.002	0.010	0.002	

Ceramic straight edges

- Made of alumina ceramics.



Item No.	Dimensions l x w x h/mm	Flatness measuring faces/mm	Parallelism mea- suring faces/mm	Squareness mm	Price
Class AAA:					
908.789	400 x 60 x 25	0.0016	0.0024	0.008	

RÉGUAS DE GRANITO

Granite parallels in pairs

Flatness, parallelism and straightness of measuring surfaces according DIN 874.



Item No.	Dimensions mm	Weight kg	Price
Class 0, 2-sided:			
402.104	160 x 25 x 16	0.4	
402.105	250 x 40 x 25	1.5	
402.106	400 x 63 x 40	6	
402.107	630 x 100 x 63	24	
Class 0, 4-sided:			
402.100	160 x 25 x 16	0.4	
402.101	250 x 40 x 25	1.5	
402.102	400 x 63 x 40	6	
402.103	630 x 100 x 63	24	

Item No.	Dimensions mm	Weight kg	Price
Class 00, 2-sided:			
402.112	160 x 25 x 16	0.4	
402.113	250 x 40 x 25	1.5	
402.114	400 x 63 x 40	6	
402.115	630 x 100 x 63	24	
Class 00, 4-sided:			
402.108	160 x 25 x 16	0.4	
402.109	250 x 40 x 25	1.5	
402.110	400 x 63 x 40	6	
402.111	630 x 100 x 63	24	

Granite straight edges

Flatness, parallelism and straightness of measuring surfaces according DIN 874.

- From length 1000 mm equipped with two bores.



Item No.	Dimensions mm	Weight kg	Price
Class 0:			
402.135	400 x 60 x 25	1.8	
402.136	630 x 100 x 35	6.6	
402.137	1000 x 160 x 50	24	
402.138	1600 x 250 x 80	96	
402.139	2000 x 300 x 100	180	

Item No.	Dimensions mm	Weight kg	Price
Class 00:			
402.140	400 x 60 x 25	1.8	
402.141	630 x 100 x 35	6.6	
402.142	1000 x 160 x 50	24	
402.143	1600 x 250 x 80	96	
402.144	2000 x 300 x 100	180	

Cast iron straight edges with handles

Especially suitable for measuring small surfaces.

- Tension free.
- Flatness and parallelism according DIN 876.
- DIN 876/1: hand scraped, DIN 876/0: fine scraped.
- Both measuring faces are flat and parallel matched in pairs.



Dimensions l x w/mm	Weight approx./kg	DIN 876/1		DIN 876/0	
		Item No.	Price	Item No.	Price
500 x 35	5	403.705		403.700	
750 x 50	15	403.706		403.701	
1000 x 56	25	403.707		403.702	
1500 x 70	65	403.708		403.703	
2000 x 80	90	403.709		403.704	

Aluminum straight edges

I-shaped straight edges with wide measuring faces. Lightweight construction and material especially promote handling of longer straight edges.

- Highly wear resistant.
- Highly corrosion resistant.
- Surface hardness: 500-550 HV.
- High insulation: $4 \cdot 10^{15} \Omega \text{ mm}^2/\text{m}$.
- With protective coating, thickness: 50 μm .
- Accuracy according DIN 874/1.
- Larger sizes and class 0 available on request.



Item No.	Dimensions mm	Weight kg	Tolerance μm	Price
406.650	500 x 100 x 40	1.65	12	
406.651	1000 x 100 x 40	3.31	21	
406.652	1500 x 100 x 40	4.97	29	
406.653	2000 x 100 x 40	6.62	37	
406.654	2500 x 100 x 40	8.28	46	
406.655	3000 x 100 x 40	9.93	54	

Bridge-type straight edges

Made of special close-grained cast iron.

- Tension relieved.
- Flatness according DIN 876: class 1: hand scraped, class 0: fine scraped.



Item No.	l x w mm	Weight kg	Flatness μm	Price
DIN 876/1:				
403.658	500 x 40	6	15	
403.659	750 x 45	9	18	
403.680	1000 x 50	17	20	
403.690	1500 x 60	45	25	
403.692	2000 x 70	65	30	
403.698	3000 x 90	210	40	
DIN 876/0:				
403.657	500 x 40	6	6	
403.660	750 x 45	9	7	
403.679	1000 x 50	17	8	
403.691	1500 x 60	45	10	
403.696	2000 x 70	65	12	
403.697	3000 x 90	210	16	

Triangular straight edges

On two sides scraped, triangular straight edge with screwed-in handles. The edge between the scraped sides (45° or 60°) has been accurately processed. The third side has been ground, and recessed for weight reduction at the larger types (from 500 mm).

- Tension relieved.
- Flatness of both scraped sides according DIN 876: class 1: hand scraped, class 0: fine scraped.



Item No.	l x w/mm	Weight/kg	Price
Triangular straight edge 45°, DIN 876/1:			
403.525	250 x 50	2	
403.550	500 x 75	7	
403.575	750 x 90	15	
403.600	1000 x 120	27	
403.602	1500 x 120	48	
Triangular straight edge 45°, DIN 876/0:			
403.524	250 x 50	2	
403.549	500 x 75	7	
403.574	750 x 90	15	
403.599	1000 x 120	27	
403.601	1500 x 120	48	
Triangular straight edge 60°, DIN 876/1:			
403.425	250 x 45	3	
403.450	500 x 60	6	
403.475	750 x 80	16	
403.500	1000 x 100	28	
403.502	1500 x 110	50	
Triangular straight edge 60°, DIN 876/0:			
403.424	250 x 45	3	
403.449	500 x 60	6	
403.474	750 x 80	16	
403.499	1000 x 100	28	
403.501	1500 x 110	50	