

Specimen Marking (Dividing) Machines Series TA

for engraving gauge marks on tensile specimens to measure the elongation after fracture based on subdivision of the original gauge length.

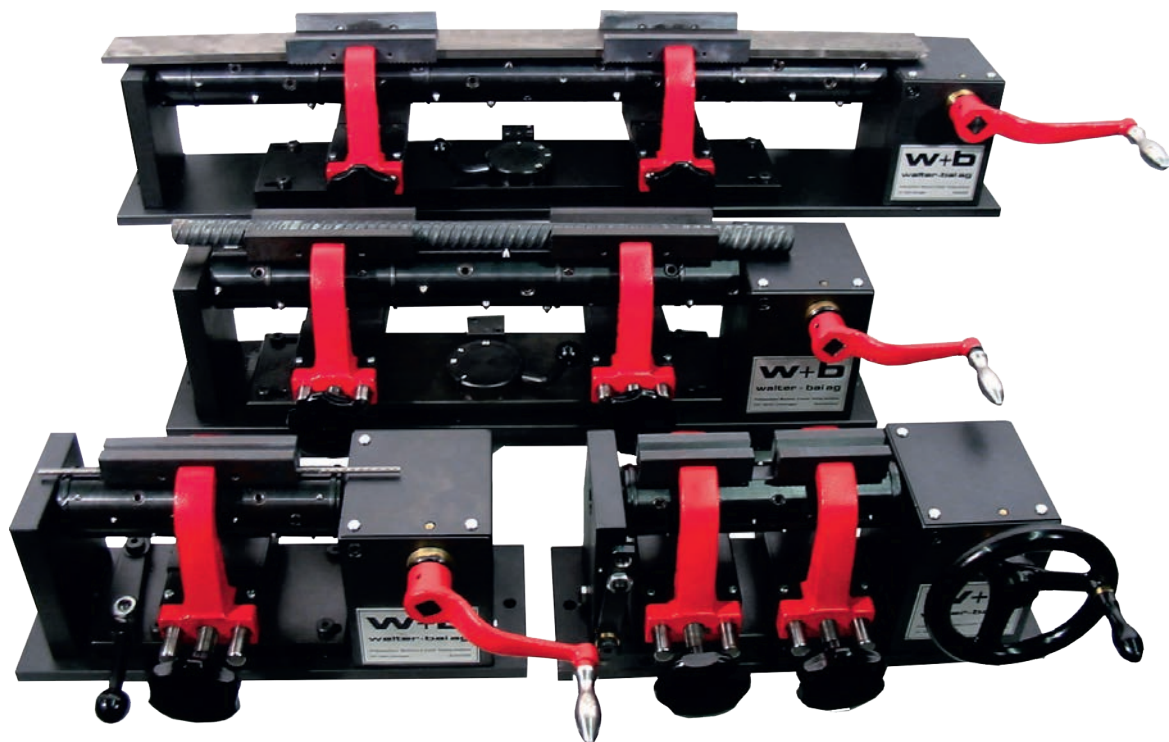
As the gauge marks are engraved and not punched there is no influence of the test results for majority of materials.

Round and flat bars as well as reinforcing steel bars can easily and quickly be marked. According to the selected model, divisions of 20 / 10 / 5 mm are possible (see Technical Data).

With a simple clamping system the specimens can be mounted on the machine. Most models having two clamping grips also suitable for marking of welded wire meshes. One only turn of the handle respective drum gives the largest division of the selected apparatus. For each smaller division, the specimen and clamping device will be displaced accordingly by a simple but accurate lever selection mechanism. Then, the operator has to turn again the handle.

The spring-loaded engraving needles enable an equable division and a long lifetime of the tracing needles itself. The Test Bar Dividing Machine is set and fixed on a table.

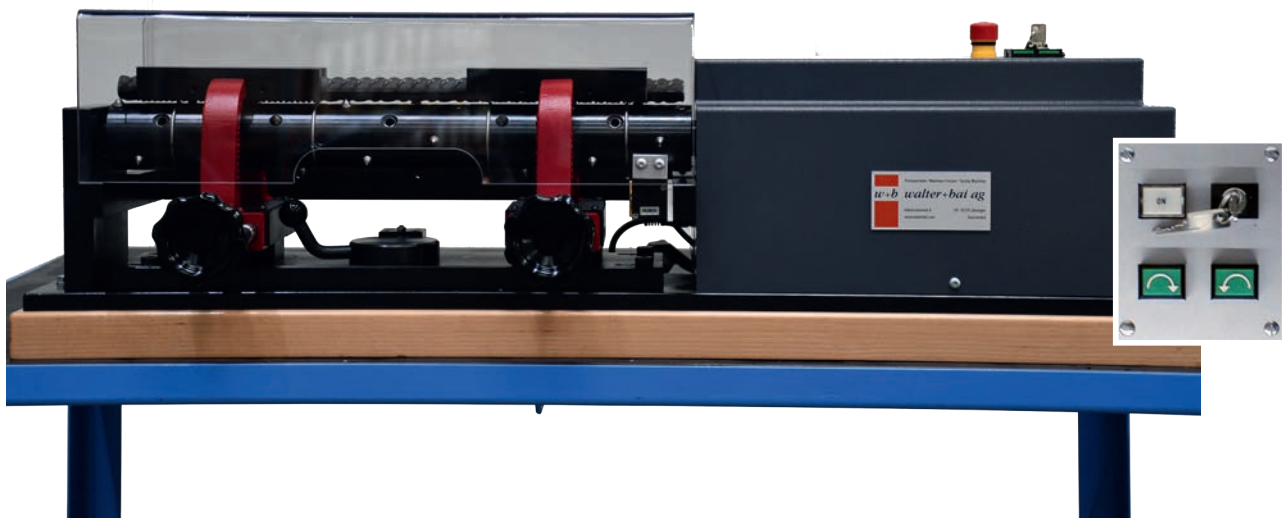
To determine the elongation after rupture, the specimen is set on a V-block (special equipment) so that the axis of the two broken pieces form a straight line. With a special slide gauge (special equipment) the elongation can now be measured.



Specimen Marking (Dividing) Machines Series TA - E

with Electromotor – Drive

Simply pushing the left green button, the drum makes one turn in clockwise direction. This gives the largest division on the sample. Then the operator pushes the right green button in order to turn the drum backwards again (counter clockwise). For each smaller division, move the bench vices with the sample by turning the simple but accurate lever selection mechanism. Required power supply 220 V / 2A.



Technical Data

Type	TA	200-1	200-10-1	200-10	200-10/5
Art. No.		TA2.0 23-0219-000	TA2.1 23-3105-000	TA2.2 23-3106-000	TA2.3 22-0252-000
Total Marking Length	mm	200	200	200	200
Spacing of Gauge Marks	mm	10 / 5	10	10	10 / 5
No. of Clamping Devices	No.	1	1	2	2
Dimensions L x D x H	mm	450 x 150 x 210	450 x 150 x 210	450 x 150 x 210	450 x 150 x 210
Net Weight	kg	36	36	36	36

Type	TA	300-10	300-10/5	400-10	400-10/5
Art. No.		TA3.0 23-3107-000	TA3.1 23-0213-000	TA4.0 23-30020-000	TA4.1 23-0316-000
Total Marking Length	mm	300	300	400	400
Spacing of Gauge Marks	mm	10	10 / 5	10	10 / 5
No. of Clamping Devices	No.	2	2	2	2
Dimensions L x D x H	mm	550 x 150 x 210	550 x 150 x 210	650 x 150 x 210	650 x 150 x 210
Net Weight	kg	47	47	52	52

Type	TA	500	500-2.5-10	500-E	500-2.5-E
Art. No.		TA5.0 23-0210-000	TA5.1 23-0214-000	TA5.2 23-3086-000	TA5.3 23-3004-000
Total Marking Length	mm	500	500	500	500
Spacing of Gauge Marks	mm	20 / 10 / 5	20 / 10 / 5 / 2.5	20 / 10 / 5	20 / 10 / 5 / 2.5
No. of Clamping Devices	No.	2	2	2	2
Dimensions L x D x H	mm	740 x 150 x 210	840 x 150 x 210	1005x 400x 255	1105x 400x 255
Net Weight	kg	58	60	102	104

Type	TA	800	800-2.5	800-E	800-2.5-E
Art. No.		TA8.0 23-0212-000	TA8.1 23-3004-000	TA8.2 23-2011-000	TA8.3 23-0216-000
Total Marking Length	mm	800	800	800	800
Spacing of Gauge Marks	mm	20 / 10 / 5	20 / 10 / 5 / 2.5	20 / 10 / 5	20 / 10 / 5 / 2.5
No. of Clamping Devices	No.	2	2	2	2
Dimensions L x D x H	mm	1040x 150 x 210	1140x 150 x 210	1305x 400x 255	1405x 400x 255
Net Weight	kg	75	77	119	121

Type	TA	1000	1000-2.5	1000-E	1000-2.5-E
Art. No.		TA10.0 23-2033-000	TA10.1 23-3109-000	TA10.2 23-3110-000	TA10.3 23-3111-000
Total Marking Length	mm	1000	1000	1000	1000
Spacing of Gauge Marks	mm	20 / 10 / 5	20 / 10 / 5 / 2.5	20 / 10 / 5	20 / 10 / 5 / 2.5
No. of Clamping Devices	No.	3	3	3	3
Dimensions L x D x H	mm	1240x 150x 210	1340x 150x 210	1505x 400x 255	1605x 400x 255
Net Weight	kg	91	93	135	137

Power Supply for Series TA – E: 230 V 500W
 Clamping Range for Flat & Round Bars 0 - 60 mm
 Accuracy of Graduation 0.1 mm

Options:

- Clamping Range as requested
- Spacing of mark in inches (1/4 / 1/2 / 1") instead of metric spacings

Other Versions

Version for Welded Meshes



Type TA 200 - 10 / 5 - S
 Type TA 300 - 10 / 5 - S
 with 2 clamping devices
 with divisions every 10 and 5 mm

Version for Threaded; Shoulder;- or Button-End Specimens




with plug-on clamp device for specific specimen sizes and shapes with divisions every 10 and 5 mm.

Accessories

Calibration Certificate for any Dividing Machine and Slide Gauges from w+b ISO / IEC accredited Calibration Laboratory

walter + bai ag
 Kalibrierlabor
 Substrationsstr. 4
 CH-8224 Löhningen
 Telefon +41 52 087 25 25
 Telefax +41 52 087 25 20



Calibration Certificate
 Verification according SCS

Certificate Number: **038514**

Customer: **006-Kalimeter** Customer No.: **00443**
Zerodivide schiene 20 Order-No.: **K31422**
 PC / City: **RU-42003 Saransk**

Test-Object: **Sample marking machine** Type: **TA-400-105**
 Manufacturer: **w+b** Year of const.: **2020**
 Serial No.: **977** Knowledge-No.: **---**

Test Procedure:
 On the marked sample the distance of the markings will measured by the standard measuring unit.

Test Description:
 The marks on the sample was measured over the middle of the markings, from 5-50 mm and 65-180 mm.

Test Results: **Workcalibration**

Error: **<±0.1 mm or ±0.5 % of the measured value**

Test Conditions:

Used Standard: **Log-No: 05-05-1 / Log-No: 05-07-1**
 Uncertainty: **0,25 mm (0,250 - spk)**
 Roomtemperature: **20,5 °C**
 Results with the value: **Page 2**
 Issue date: **17.12.2020**
 Place of verification: **CH-8224 Löhningen**
 Tester: **D. Koch**
 Date: **17.12.20, th.**

walter + bai ag
 CH-8224 Löhningen
 D. Koch
 Head of Calibration Laboratory

1/3

Digital Special Slide Gauge with RS-232 Interface

for exact measurement of the distance between marks



Digital Special Slide Gauges	SPS-D 200	SPS-D 300	SPS-D 500
Art-No.	SPS-D 1.0 43-9827-000	SPS-D 1.1 43-9828-000	SPS-D 1.2 43-9829-000
Measurement between (mm)	10 – 200	10 – 300	10 – 500

Special Slide Gauges

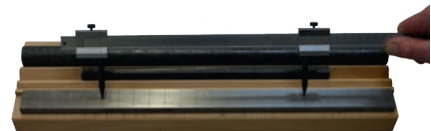
for exact measurement of the distance between marks



Special Slide Gauges	SPS 200	SPS 300	SPS 500
Art-No.	SPS 1.0 43-9826-000	SPS 1.1 43-9755-000	SPS 1.2 43-9760-000
Measurement between (mm)	20 – 200	20 – 340	20 – 540

VEE-Blocks

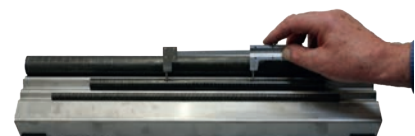
to place the two fragments made of hard wood in different lengths.



VEE-Blocks Stainless Steel	APB-300-H	APB-500-H	APB-800-H
Art-No.	APB-H 1.0 23-3113-000	APB-H 1.1 23-3112-000	APB-H 1.2 23-0290-000
Length (mm)	300	500	800

VEE-Blocks

to place the two fragments made of stainless steel sheets in different lengths.



VEE-Blocks Stainless Steel	APB-300-S	APB-500-S	APB-800-S
Art-No.	APB-S 1.0 23-3081-000	APB-S 1.1 23-3050-000	APB-S 1.2 23-3084-000
Length (mm)	300	500	800

Spare Marking Pins

(Standard, hardend Steel 65 HRc)



Spare Marking Pins for	TA 200	TA 300	TA 400	TA 500	TA 800	TA 1000
Art-No.	SPS-D 1.0 43-9827-000	SPS-D 1.1 43-9828-000	SPS-D 1.2 43-9829-000	N 1.3 23-0090-000	N 1.4 23-0090-000	N 1.5 23-0090-000
Quantity (pcs)	21	31	41	26	41	51

Carbon Tungsten Pins

Carbon Tungsten Pins for	TA 200	TA 300	TA 400	TA 500	TA 800	TA 1000
Art-No.	N 1.0-H 23-3051-000	N 1.1-H 23-3051-000	N 1.2-H 23-3051-000	N 1.3-H 23-0090a-000	N 1.4-H 23-0090a-000	N 1.5-H 23-0090a-000
Quantity (pcs)	21	31	41	26	41	51

Spare Parts

Distance Ring for	TA 200	TA 300	TA 400	TA 500	TA 800	TA 1000
Art-No.	23-0277-00	23-0277-00	23-0277-00	23-0277-00	23-0277-00	23-0277-00
Quantity (pcs)	2	2	2	2	2	2

Scew for	TA 200	TA 300	TA 400	TA 500	TA 800	TA 1000
Art-No.	60-0630-000	60-0630-000	60-0630-000	60-0891-000	60-0891-000	60-0891-000
Quantity (pcs)	21	31	41	26	41	51

Spring for	TA 200	TA 300	TA 400	TA 500	TA 800	TA 1000
Art-No.	43-1734-000	43-1734-000	43-1734-000	43-1664-000	43-1664-000	43-1664-000
Quantity (pcs)	21	31	41	26	41	51