

**Tensile testing machines and grips  
for the textileindustry, manufacturers,  
packaging and the  
quality control.**



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## Universal Testing Machine

TM-Serie 5kN , 10kN und 20kN



<b>mechanical design</b>	two-column testing machine with ball-screws, DC-servomotor, stiffness (system loadframe-load cell capacity-adapter) 10/25kN/mm one testing room (up to nominal load): test area width (clearance): 420 mm crosshead travel (without grips): 1100 mm
<b>standard functions</b>	<b>operation mode: stand alone or PC-control</b> programmable control at selected load, stroke or strain values over-load protection, automatic calibration sample-break-detector, return-function, precise crosshead control by manual control panel with display (force, stroke)

	<b>H 5 TM EDC 222</b>	<b>H 10 TM EDC 222</b>	<b>H 20 TM EDC 222</b>
<b>capacity</b>	5 kN	10kN	20kN
<b>testing speed</b>	0,01 – 1000 mm/min	0,01 – 500 mm/min	0,01 – 250 mm/min
<b>return speed</b>	$v_{max}$		
<b>force measurement range</b>	in range of 0,8 - 100 % of load cell capacity class 1 according EN 10002-2, ASTM E4, DIN EN ISO 7500 class 1)		
<b>force resolution</b>	+/- 60.000 digits at integration time 20ms (standard) / +/- 400.000 digits at 250 ms		
<b>stroke measurement</b>	incremental input with sensor monitoring, storing of stroke position		
<b>stroke resolution</b>	< 1µm		
<b>software-interface</b>	USB 2.0 - Interface or LAN		
<b>data transfer rate</b>	50Hz (standard)		
<b>optional card</b>	2 analog or digital in- and output for load, strain or additional measuring devices are possible, +/-10V input for external devices, in- and output-card for controlling of external devices, card for safety-devices		
<b>power consumption</b>	115/230 VAC; 0,5/0,7 kVA, 50/60 Hz, 5- 40°C, 20- 80 % humidity		
<b>dimensions w x d x h</b>	(685x550x1420) mm	(685x550x1420) mm	(685x550x1420) mm
<b>weight</b>	100 kg	100 kg	130 kg
<b>noise emission</b>	max. 65 dB		

<b>options:</b>	- load cell , grips, extensometer - PC (current standard), operating system Windows® 2000 / XP - Software
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<b>main connection (adapter)</b>	<b>standard</b>	R20/8
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**Universal testing machine**

**TMC-Series 5kN - 50kN**



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<b>Construction</b>	2 free from play ball screws, drive with AC servo motor 1 workspace up to nominal load breadth of workspace: 420 mm (optional broadening: on request) total testing travel without testing tools: 1100 mm (optional elongation: on request) optional: changeover to standing model, required auxiliary module: stand
<b>Standard functions</b>	programmable control at selected load, stroke or strain values over-load protection, automatic calibration sample-break-detector, return-function, manual positioning via hess software

		<b>TMC – Series</b>			
<b>Nominal load (tension/compression)</b>		5kN	10kN	20kN	50kN
<b>Test speed until nominal load</b>	<b>300W</b>	0,01 - 2000 mm/min	0,01 - 1200 mm/min	0,01 - 600 mm/min	0,01 - 200 mm/min
	<b>900W</b>	/	0,01 - 2000 mm/min	0,01 - 2000 mm/min	/
<b>Return speed</b>	<b>300W</b>	2000 mm/min	1200 mm/min	600 mm/min	200 mm/min
	<b>900W</b>	/	2000 mm/min	2000 mm/min	/
<b>Load measuring range</b>		class 1 of 0,4 – 100% of the nominal load (optionally class 0,5) (+/- 1 % of the displayed value according to DIN 51221 class 1, EN 10002-2, ASTM E4 , ISO 7500 class 1)			
<b>Load resolution</b>		+/-180.000 digits bei 20ms Integrationszeit			
<b>Crosshead travel measurement</b>		incremental rectangle input with encoder supervision, saving of crosshead position			
<b>Travel resolution</b>		0,01µm			
<b>Software interface</b>		USB 2.0 oder LAN			
<b>Data transfer rate</b>		50Hz (standard) / optionally 400Hz with special software add-on module			
<b>Optional card</b>		2 free plug-in positions for upgrading cards for analogue/digital in-/outputs for force, travel, and extension gauges, as well as +/-10V input for external gauges, plug-in position for safety door option available			
<b>Electrical interface</b>	<b>300W</b>	230 VAC, 0,7 kVA, 50/60 Hz, 5- 40°C, 20- 80 % humidity			
	<b>900W</b>	230 VAC, 1,5 kVA, 50/60 Hz, 5- 40°C, 20- 80 % humidity			
<b>Dimensions BxDxH</b>		685 mm x 550mm x 1420 mm			
<b>Weight</b>		100kg	100kg	130kg	150kg

<b>Options:</b>	<ul style="list-style-type: none"> <li>- control and indicator panel (with load/stroke - display) for manual positioning and stand-alone-mode without PC (10-030-897), base frame (10-030-800)</li> <li>- load cells 50N to 50 kN</li> <li>- mechanical, hydraulic or pneumatic clamping tools for tension testing</li> <li>- pressure plate, bending fixture, special test control units, external measurement devices, clip on and longstroke extensometer</li> <li>- PC (current standard), operating system Windows® 2000 / XP</li> <li>- <b>Hess</b> software</li> </ul>
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<b>Main testing tool interface standard</b>	5kN / 10kN / 20kN - R20/8 / 50kN - R36/18
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**Universal testing machine**

**TMC-Series 50kN - 250kN**



<b>Construction</b>	2 free from play ball screws, drive with AC servo motor 1 workspace up to nominal load broadness of workspace: 510 mm (optional broadening: on request) total testing travel without testing tools: 1100 mm (optional elongation: on request) optional: changeover to standing model, required auxiliary module: stand
<b>Standard functions</b>	programmable control at selected load, stroke or strain values over-load protection, automatic calibration sample-break-detector, return-function, manual positioning via hess software

		<b>TMC – Series</b>		
<b>Nominal load (tension/compression)</b>		50 KN	100 KN	250 KN
<b>Test speed until nominal load</b>	900W	0,01 – 800 mm/min	0,01 – 400 mm/min	0,01 – 175 mm/min
<b>Return speed</b>	900W	800 mm/min	400 mm/min	175 mm/min
<b>Load measuring range</b>	class 1 of 0,4 – 100% of the nominal load (optionally class 0,5) (+/- 1 % of the displayed value according to DIN 51221 class 1, EN 10002-2, ASTM E4 , ISO 7500 class 1)			
<b>Load resolution</b>	+/-180.000 digits bei 20ms Integrationszeit			
<b>Crosshead travel measurement</b>	incremental rectangle input with encoder supervision, saving of crosshead position			
<b>Travel resolution</b>	0,01µm			
<b>Software interface</b>	USB 2.0 oder LAN			
<b>Data transfer rate</b>	50Hz (standard) / optionally 400Hz with special software add-on module			
<b>Optional card</b>	2 free plug-in positions for upgrading cards for analogue/digital in-/outputs for force, travel, and extension gauges, as well as +/-10V input for external gauges, plug-in position for safety door option available			
<b>Electrical interface</b>	230 VAC, 1,5 kVA, 50/60 Hz, 5- 40°C, 20- 80 % humidity			
<b>Dimensions BxDxH</b>	880 mm x 670 mm x 1580 mm		880 mm x 670 mm x 2250 mm	
<b>Weight</b>	320 Kg	400 Kg	570 Kg	

<b>Options:</b>	<ul style="list-style-type: none"> <li>- control and indicator panel (with load/stroke - display) for manual positioning and stand-alone-mode without PC (10-030-897), base frame (10-031-800)</li> <li>- load cells 100N to 250 kN</li> <li>- mechanical, hydraulic or pneumatic clamping tools for tension testing</li> <li>- pressure plate, bending fixture, special test control units, external measurement devices, clip on and longstroke extensometer</li> <li>- PC (current standard), operating system Windows® XP / 10</li> <li>- <b>Hess</b> software</li> </ul>
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<b>Main testing tool interface standard</b>	50kN - R36/18 / 100 KN – 250 KN – R60/30
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<b>Construction</b>	1 free from play ball screws, drive with AC servo motor 1 workspace up to nominal load throatdepth: 65 mm (optional throatdepth: on request) total testing travel without testing tools: 500,1100 mm (optional elongation: on request)
<b>Standard functions</b>	programmable control at selected load, stroke or strain values over-load protection, automatic calibration sample-break-detector, return-function, <b>manual positioning by keypad</b>


		<b>H3000-5000 TM – Serie</b>			
<b>Nominal load (tension/compression)</b>		3kN - 500mm	5kN - 500mm	3kN - 1200mm	5kN - 1200mm
<b>Test speed until nominal load</b>	<b>40W</b>	0,01 - 500 mm/min	/	0,01 - 500 mm/min	/
	<b>80W</b>	/	0,01 - 500 mm/min	/	0,01 - 500 mm/min
<b>Return speed</b>	<b>40W</b>	700 mm/min	/	700 mm/min	/
	<b>80W</b>	/	700 mm/min	/	700 mm/min
<b>Load measuring range</b>	class 1 of 0,4 – 100% of the nominal load (optionally class 0,5) (+/- 1 % of the displayed value according to DIN 51221 class 1, EN 10002-2, ASTM E4 , ISO 7500 class 1)				
<b>Load resolution</b>	+/-60.000 digits at 20ms averagetime				
<b>Crosshead travel measurement</b>	incremental rectangle input with encoder supervision				
<b>Travel resolution</b>	1µm				
<b>Software-Interface</b>	RS 232				
<b>Data transfer rate</b>	50Hz (Standard)				
<b>Optional card</b>	notavailable				
<b>Electrical interface</b>	<b>40W</b>	230 VAC, 0,7 kVA, 50/60 Hz, 5- 40°C, 20- 80 % humidity			
	<b>80W</b>	230 VAC, 1,5 kVA, 50/60 Hz, 5- 40°C, 20- 80 % humidity			
<b>Dimensions BxTxH</b>	685 mm x 550mm x 1420 mm				
<b>Weight</b>	50kg	50kg	80kg	80kg	


<b>Optionen:</b>	<ul style="list-style-type: none"> <li>- load cells 5 N to 5 kN</li> <li>- mechanical, hydraulic or pneumatic clamping tools for tension testing</li> <li>- pressure plate, bending fixture, special test control units, external measurement devices,</li> <li>- PC (current standard), operating system Windows □2000 / XP</li> <li>- <b>Hess</b> software</li> </ul>
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<b>Main testing tool interface standard</b>	THS 464 - 158 - M12
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## Ribbon Grips


	TH77	Ribbon grip, 50 kN Width of strip: max. 110 mm for testing of strips, seat-belts etc.
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	TH172-P	Pneumatic ribbon grip, 7 kN Max. sample width: 60 mm, sample thickness: 0-4 mm 1 pair without jaws
		<b>Jaws for TH172-P, 1 Set = 2 jaws</b>
	TH172-P-B	Blank (smooth) jaws without coating, 40x60 mm (H x W), 1 set
	TH172-P-BG	Rubber-coated jaws, 40x60 mm (H x W), 1 set
	TH172-P-BP	Pyramid (serrated) jaws, 1.2x45°, 40x60 mm (H x W), 1 set
TH172-P-BD	Diamond-coated jaws, 40x60 mm (H x W), 1 set	


	TH172-20	Mechanical ribbon grip incl diamond coated jaws for flat hard steel strips etc. Width: 20 mm, 1 pair
	TH172-40	Mechanical ribbon grip incl diamond coated jaws for flat hard steel strips etc. Width: 40 mm, 1 pair
	TH172-60	Mechanical ribbon grip incl diamond coated jaws for flat hard steel strips etc. Width: 60 mm, 1 pair


	TH222-30-80	Ribbon grip, 20 kN Diameter of the roll 30 mm Ø, width of the roll: 80 mm, 1 pair
	TH222-40-80	Ribbon grip, 50 kN Diameter of the roll 40 mm Ø, width of the roll: 80 mm, 1 pair
	TH222-60-80	Ribbon grip, 100 kN Diameter of the roll 60 mm Ø, width of the roll: 80 mm, 1 pair
	TH222-60-100	Ribbon grip, 100 kN Diameter of the roll 60 mm Ø, width of the roll: 100 mm, 1 pair
	TH222-60-120	Ribbon grip, 100 kN Diameter of the roll 60 mm Ø, width of the roll: 120 mm, 1 pair
	TH222-80-120	Ribbon grip, 150 kN Diameter of the roll 80 mm Ø, width of the roll: 120 mm, 1 pair
	TH222-100-120	Ribbon grip, 250 kN Diameter of the roll 100 mm Ø, width of the roll: 120 mm, 1 pair


	TH252-40-25	Ribbon grip, one open side, 20kN Diameter of the roll 40 mm Ø Adapter 5/8" for samples with width till 25 mm and thickness till 2.5 mm 1 pair
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	<b>THS375-5+BB</b>	Rope grip, 5kN 1 pair incl. blank (smooth) jaws
	<b>THS375-5+BP</b>	Rope grip, 5kN 1 pair incl. pyramid jaws


## Rope Grips


	<b>TH76-1</b>	Grip for wires etc., with rubber jaws Clamping force: 1 kN 1 pair with rubber jaw
	<b>TH76-1+BD</b>	Grip for wires etc., with diamond coated jaws clamping force: 1 kN 1 pair with diamond coated jaw


	<b>TH76-1+Ko</b>	Pneumatic version of TH76-1 including rubber coated jaws Tensile force: 1 kN 1 pair with rubber jaw
	<b>TH76-1-D100</b>	Roller diameter 100 mm
	<b>TH76-1+ko+BD</b>	Pneumatic version of TH76-1 including diamond coated jaw Tensile force: 1 kN 1 pair with diamond coated jaw
	<b>TH76-1+150</b>	TH76-1 with big roller 150 mm Ø


	<b>TH76-5</b>	Capstan rope grip with pyramid jaws (1x45°) Tensile force: 5 kN 1 pair with pyramid jaws
	<b>TH76-5+BD</b>	Capstan rope grip with diamond coated jaws Tensile force: 5 kN 1 pair with diamond jaws


	<b>TH76-5+Ko</b>	Pneumatic version of rope grip TH76-5 with pyramid jaws Tensile force: 5 kN 1 pair with pyramid jaws
	<b>TH76-5+Ko+BD</b>	Pneumatic version of rope grip TH76-5 with diamond jaws Tensile force: 5 kN 1 pair with diamond jaws


	<b>TH76-20</b>	Wire rope grip with pyramid jaws (1x45°) 20 kN bollard 94mm diameter 1 pair with pyramid jaws
	<b>TH76-20+Ko</b>	like TH76-20 with pneumatic rod


	<b>THS255-SK</b>	Rope grip with pyramid jaws For ropes until 4 mm Ø, 10 kN 1 pair
	<b>THS255-SK+BD</b>	Rope grip with diamond coated jaws For ropes until 4 mm Ø, 10 kN 1 pair


	<b>TH170-50</b>	Capstan rope grip manually-operated with pyramid jaws Tensile force: 50 kN For ropes 0-20 mm Ø 1 pair of grips with pyramid jaws
	<b>TH170-100</b>	Capstan rope grip manually-operated with pyramid jaws Tensile force: 100 kN 1 pair of grips with jaws

	<b>TH170-100+Ko</b>	Hydraulic capstan rope grip Tensile force: 100 kN 1 pair of grips with jaws
	<b>TH170-250+Ko</b>	Hydraulic capstan rope grip Tensile force: 250 kN 1 pair of grips with jaws

	<b>THS185-20</b>	Pneumatic rope grip Tensile force: 20 kN 1 pair
	<b>THS185-50</b>	Pneumatic rope grip Tensile force: 50 kN 1 pair

	<b>THS13k</b>	Small, light-weight pneumatic rope grip Tensile force: 200 N 1 pair of grips without jaws inkl. adapter TH205-PK23
		<b>Jaws for THS13k, 1 set = 2 jaws</b>
	<b>THS13k-B</b>	Blank jaws for THS13k, 1 set
	<b>THS13k-BP</b>	Pyramid (serrated) jaws for THS13k, 1 set
	<b>THS13k-BG</b>	Rubber-faced jaws for THS13k, 1 set
<b>THS13k-BD</b>	Diamond-coated jaws for THS13k, 1 set	


	<b>THS13m</b>	Pneumatic rope grip Tensile force: 2 kN 1 pair of grips without jaws
		<b>Jaws for THS13m, 1 set = 2 jaws</b>
	<b>THS13m-B</b>	Blank jaws for THS13m, 1 set
	<b>THS13m-BP</b>	Pyramid (serrated) jaws for THS13m, 1 set
	<b>THS13m-BG</b>	Rubber-faced jaws for THS13m, 1 set
<b>THS13m-BD</b>	Diamond-coated jaws for THS13m, 1 set	

	<b>THS13g</b>	Pneumatic rope grip Tensile force: 5 kN 1 pair of grips without jaws
		<b>Jaws for THS13g, 1 set = 2 jaws</b>
	<b>THS13g-B</b>	Blank jaws for THS13g, 1 set
	<b>THS13g-BP</b>	Pyramid (serrated) jaws for THS13g, 1 set
	<b>THS13g-BG</b>	Rubber-faced jaws for THS13g, 1 set
<b>THS13g-BD</b>	Diamond-coated jaws for THS13g, 1 set	


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## Hook


	<b>TH231-xx</b>	Hook grip with coupling Af159 or Af20, 1 piece Further couplings on request xx = hook with Ø 2.5 mm (250 N) - Itemnumber TH231-2.5 xx = hook with Ø 3 mm (350 N) - Itemnumber TH231-3 xx = hook with Ø 4 mm (600 N) - Itemnumber TH231-4 xx = hook with Ø 5 mm (1 kN) - Itemnumber TH231-5 xx = hook with Ø 6 mm (1.4 kN) - Itemnumber TH231-6 xx = hook with Ø 8 mm (2.5 kN) - Itemnumber TH231-8
	<b>TH231-10</b>	Hook grip with coupling Af159 or Af20, 1 piece Hook with Ø 10 mm (4 kN)
	<b>TH231-12</b>	Hook grip with coupling Af159 or Af20, 1 piece Hook with Ø 12 mm (6 kN)
	<b>TH231-16</b>	Hook grip with coupling Af159 or Af20, 1 piece Hook with Ø 16 mm (12 kN)


## Vise Grips


	<b>TH240k</b>	Vise grip U-form, 2.5 kN Opening: 0-10 mm 1 pair (without jaws)
	<b>TH240k-A4</b>	Stainless steel U-form vise grip, 5 kN, made of A4 (AISI316) Opening: 0-10 mm 1 pair (without jaws) - for jaws see below - A4 jaws


	<b>TH240g</b>	Vise grip U-form Tensile force: 5 kN Opening: up to 30 mm (depending on jaws) 1 pair (without jaws)
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	<b>TH56k</b>	Vise grip Tensile force 1 kN 1 pair of grips (without jaws)
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	<b>TH56g</b>	Vise grip Tensile force: 5 kN 1 pair (without jaws)
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	<b>TH154-10</b>	Vise grip, aluminum Tensile force: 10 kN, temperature range 0°C - +180°C Opening: up to 34 mm (depending on the type of jaws) 1 pair (without jaws)
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	<b>TH154-20</b>	Vise grip, steel Tensile force: 20 kN, temperature range 0°C - +350°C Opening: up to 34 mm (depending on the type of jaws) 1 pair (without jaws)
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	<b>THS355-200</b>	Vise grip with 3 screws, 50 kN Body: aluminum Width: 200 mm 1 pair of vise grips
	<b>THS355-BW200</b>	Wave jaws for textiles, 200 mm, 1 set


	<b>THS668-80</b>	Vise grip, 100 kN Clamping force: to keep 200 kN with attraction force 1500 Nm using pneumatic screwdriver 1 pair of vise grips
	<b>THS668-80-BP</b>	Pyramid jaws, 100 x 80 mm (h x w), 1 set
	<b>THS688-210</b>	Heavy vise grip with 8 M36 screws (pneumatic screwdriver recommended) 1 pair of vise grips
	<b>THS688-210-BP</b>	Pyramid jaws, 70x210 mm (h x w), 1 set

## Pneumatic Grips

	<b>TH240k+Ko</b>	Vise-action U-form pneumatic grip with 1 rod Ø 50 mm, 1.2 kN Opening: up to 10 mm (depending on jaws) 1 pair (without jaws)
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	<b>TH240k+2Ko</b>	Pneumatic U-form grip with 2 pneumatic rods Ø 50 mm, 1.2 kN Opening: up to 10 mm (depending on jaws) Price includes 1 pair (without jaws)
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	<b>TH240g+Ko</b>	Vise action grip U-form with 1 pneumatic rod Ø 70 mm Clamping force: 2.6 kN Opening: up to 30 mm (depending on jaws) 1 pair (without jaws)
	<b>TH240g+2Ko</b>	Vise action grip U-form with 2 pneumatic rods Ø 70 mm Clamping force: 2.6 kN Opening: up to 30 mm (depending on jaws) 1 pair (without jaws)


	<b>TH56k+Ko</b>	Vise-action grip with 1 pneumatic rod Ø 50 mm Clamping force: 1.2 kN 1 pair (without jaws)
	<b>TH56k+2Ko</b>	Pneumatic grip with 2 pneumatic rods Ø 50 mm Clamping force: 1.2 kN 1 pair (without jaws)


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	<b>TH56g+Ko</b>	Pneumatic grip with 1 rod Ø 70 mm Clamping force: 2.6 kN 1 pair (without jaws)
	<b>TH56g+2Ko</b>	Pneumatic grip with 2 pneumatic rods Ø 70 mm Clamping force: 2.6 kN 1 pair (without jaws)


	<b>TH149</b>	Pneumatic grip Clamping force: 2.4 kN / 7 bar Dual-action grip, with leverage 1 pair of grips without jaws
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	<b>THS22-60</b>	Pneumatic grip, symmetrical Stroke 50 mm, for samples 0 - 60 mm Clamping force: 3.5 kN / 7 bar 1 pair
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	<b>TH83</b>	Pneumatic grip with leverage Clamping force: 7 kN / 7 bar (max.16 bar) Body: aluminum Weight: ~3.3 kg each piece (without jaws) Variably applicable for metals, plastics, wood, metal foil, textiles, braids etc. 1 pair without jaws
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	<b>TH232</b>	Pneumatic grip Clamping force: 16 kN / 7bar Body: aluminum Weight: ~4.5 kg each piece (without jaws) Variably applicable for metals, plastics, wood samples, metal foil, textiles, braids etc. 1 pair without jaws
	<b>TH232+2Ko</b>	Pneumatic grip with 2 rods Clamping force: 16 kN / 7bar Body: aluminum Variably applicable for metals, plastics, wood samples, metal foil, textiles, braids etc. 1 pair without jaws

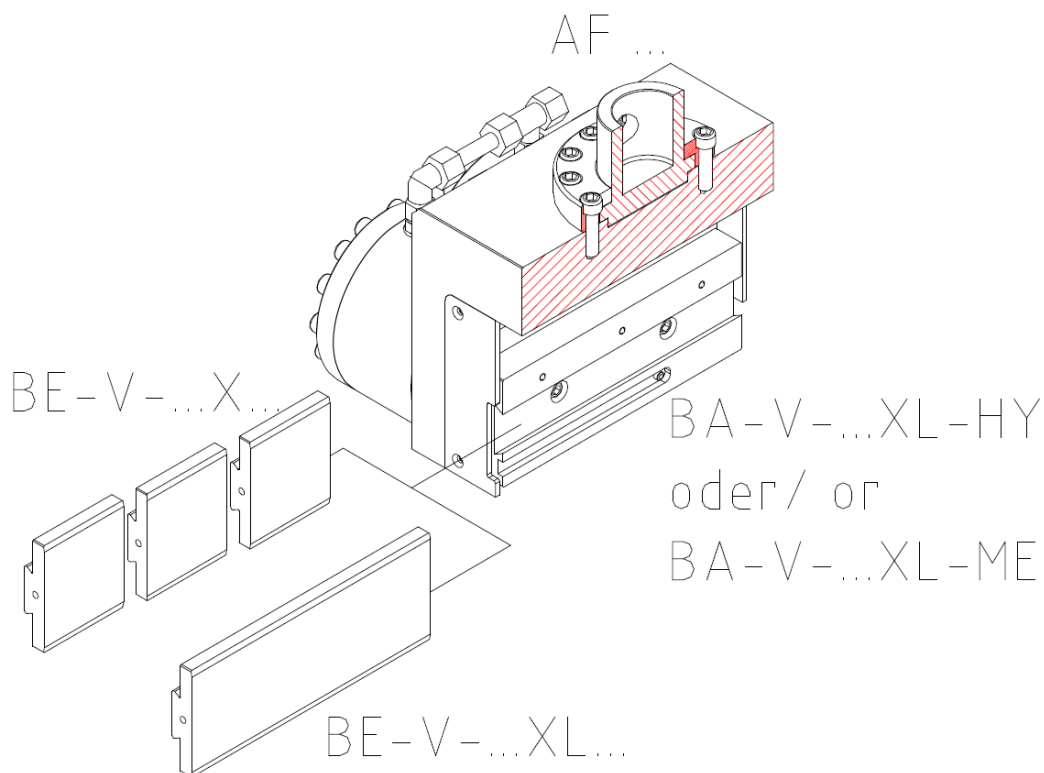
	<b>TH126</b>	Pneumatic grip Clamping force: 30 kN / 7 bar 1 pair of grips without jaws
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	<b>THS65</b>	Pneumatic grip, dissymmetrical construction Clamping force: 11 kN / 7 bar Rods: 156 mm Ø 1 pair
	<b>THS65-BW</b>	Wave jaws 60x100 mm (h x w) Opening width: 0-30 mm, 1 set

	<b>THS370-220</b>	Pneumatic grip with 3 rods à 2,6 kN (7,8 kN keeping load /7bar) Aluminium Coupling Af15.9mm 1 pair (without jaws)
	<b>THS370-220-BW</b>	Wave jaws 60 x 220mm (h x w), 1 set

### Hydraulically clamping tools / Module system / sample width $\geq 200$ mm

Clamping of wide strips of single-layer textiles (geotextiles and related products – non-woven fabrics, webbing, knitted fabrics, composite materials, geo-lattices) wide metal strips, wide metal lattices.

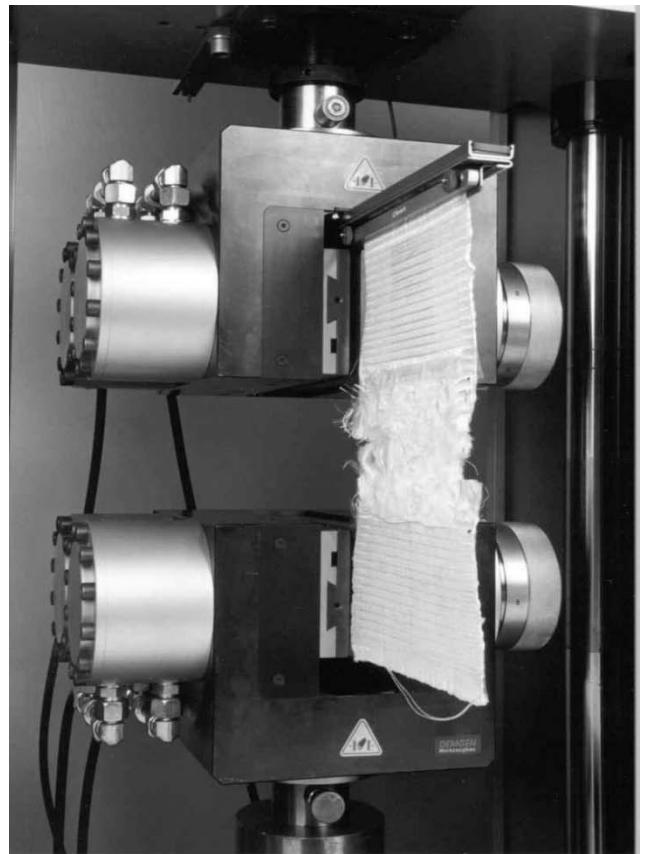
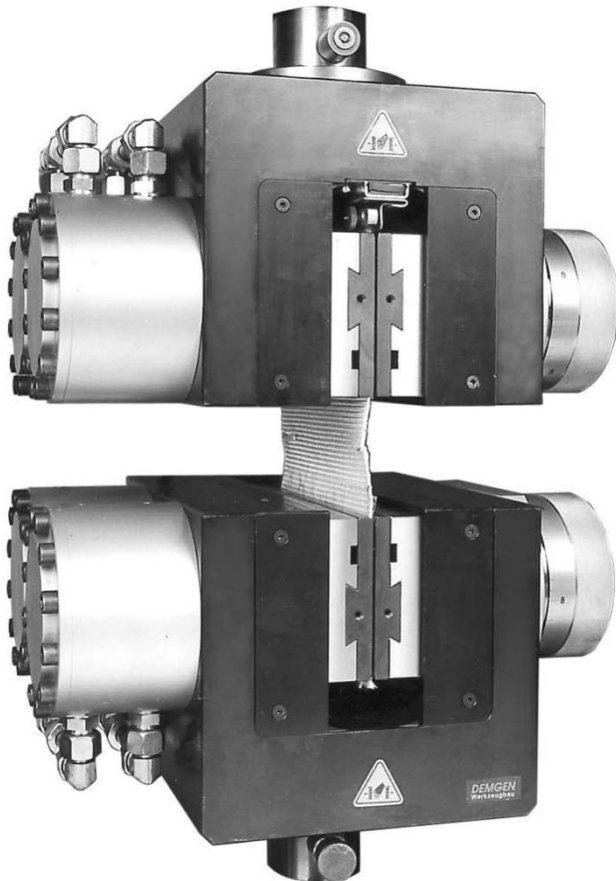


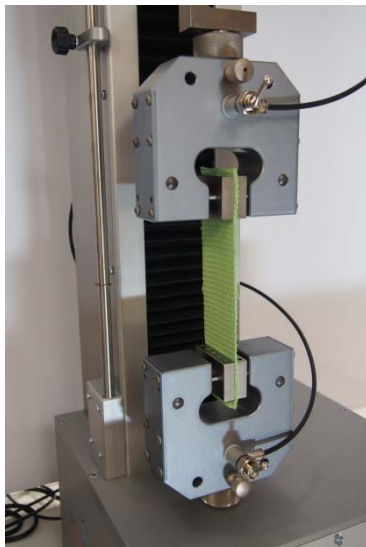
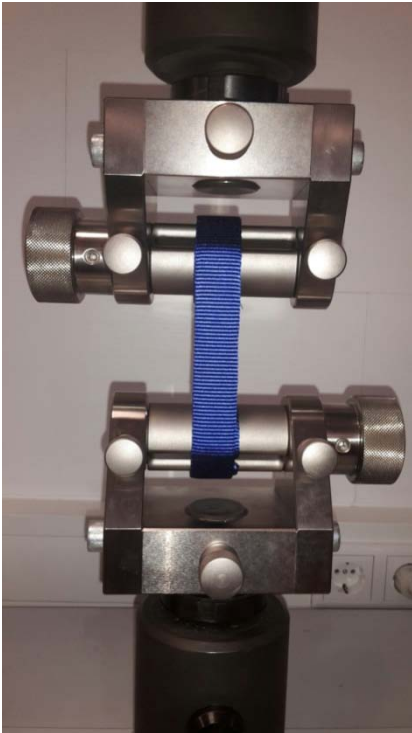
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Examples of use





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Gildestrasse 5

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## Program general map

Abrasion Tester  
Ageing Oven  
Bending Test Machine  
Cell Oven  
Compression Set Instrument  
Compression Stress Relaxometer  
CNC Profile Cutter  
Extensometer  
Density Gradient Apparatus  
Density Determination  
Notch Cutting Machine  
Elmendorf Pendulum  
Film Thickness Gauge  
Hardness Tester  
HDT / Vicat Instrument  
Low Temperature Brittle Point Tester  
Laboratory Platen Presses  
Micro Hardnesstester  
Melt Flow Indexer  
Moisture Meter  
Opacimeter  
Peel-Tester  
Pendulum Impact Tester  
Sample Cutter  
Injection Moulding Apparatus  
Friction Peel Tester  
Rheometer  
Rebound Pendulum  
Shore Hardness Tester  
Software to customers requirement  
Special Equipment  
Grips  
Cutting dies according to all standards  
Environmental Chamber for  
Universal Testing Machine  
Hazemeter  
TR-Tester  
Universal Testing Machine for  
Compression, Tensile and Bending  
Ovens

Feel free to contact us.

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