













KERN METALŲ KIETUMO MATAVIMO PRIETAISAI

Eil. Nr.	Vaizdas	Modelis	Jutiklis	Matavimo ribos [Max] [HL]	Padalos vertė [d] [HL]	K	Vieneto kaina € (be PVM)	V
1.1		HK-D.	Type D	170 - 960	1	1	1240,00	
1.2		HK-DB	Type D	170 - 960	1	1	1240,00	
	 <p>SAUTER HK</p>	<p>Measures all metal samples (> 3 kg, thickness > 8 mm)</p> <ul style="list-style-type: none"> •External impact sensor standard (Type D) •Mobility: In comparison with stationary table-top devices and testing devices with an internal sensor, using the SAUTER HK-D. offers the highest level of mobility and flexibility •All measurement directions possible (360°) thanks to an automatic compensation function •Standard block for calibration not included •USB interface, included • Delivered in a hard carrying case <ul style="list-style-type: none"> •Internal memory for up to 600 data groups, with up to 32 values per group forming the average value of the group •Mini statistics function: displays the measured result, the average value, the impact direction, date and time •Measurement value display: Rockwell (Type A, B, C), Vickers (HV), Shore (HS), Leeb (HL), Brinell (HB) •Automatic unit conversion: The measuring result is automatically converted into all specified hardness units •Function to set limits: Input of an upper/lower limit value. A visual and acoustic signal supports the measuring operation •Matrix display: Backlit multi-function display for all relevant functions at a glance. Robust metal housing 						
Priedai								
	Vaizdas	Modelis	Aprašymas		K	Vieneto kaina € (be PVM)	V	
1.3	SAUTER	AHMO D	• External impact sensor Type D		1	340,00		
1.4		AHMO D01	• Impact body Type D, Net weight approx. 5 g, hardness ≥ 1600 HV, tungsten carbide, Impact ball $\varnothing 3$ mm, in accordance with the standard ASTM A956-02		1	115,00		
1.5		AHMO D02	• Test block Type D/DC, accuracy ≥ 4 HL, $\varnothing 90$ mm (± 1 mm), Net weight approx. 2,7 kg, hardness range 790 ± 40 HL		1	190,00		




1.6		AHMO D03	<ul style="list-style-type: none"> • Test block Type D/DC, accuracy ≥ 4 HL, $\varnothing 90$ mm (± 1 mm), Net weight approx. 2,7 kg, hardness range 630 ± 40 HL 	1	190,00
1.7		AHMO D04	<ul style="list-style-type: none"> • Test block Type D/DC, accuracy ≥ 4 HL, $\varnothing 90$ mm (± 1 mm), Net weight approx. 2,7 kg, hardness range 530 ± 40 HL 	1	190,00
1.8		961-132	<ul style="list-style-type: none"> • ISO calibration certificate for Test block SAUTER AHMO D02, AHMO D03 and AHMO D04 	1	120,00
1.9		SCD-4.0	<ul style="list-style-type: none"> • Software Balance Connection 	1	150,00
1.10		AHMR 01	<ul style="list-style-type: none"> • Attachment rings for secure positioning 	1	320,00
1.11		AHMR C	<ul style="list-style-type: none"> • External impact sensor Type C, Low energy sensor: requires only 25 % impact energy compared to type D 	1	640,00
1.12	 kkkk	AHMR D+15	<ul style="list-style-type: none"> • External impact sensor Type D+15. Slim front section for holes, grooves or re-entrant surfaces 	1	640,00
1.13		AHMO DC	<ul style="list-style-type: none"> • External impact sensor Type DC. Short impact sensor for tests in holes or hollowed objects 	1	490,00
1.14		AHMR DL	<ul style="list-style-type: none"> • External impact sensor Type DL, for very narrow surfaces ($\varnothing 4,5$ mm) 	1	1590,00


1.15		AHMR G	<ul style="list-style-type: none"> External impact sensor Type G. High energy sensor: 900 % impact energy compared to type D 	1590,00
1.15		MPS-A09	<ul style="list-style-type: none"> Transport case 	115,00





Eil. Nr.	Vaizdas	Modelis	Jutiklis	Matavimo ribos [Max] [HL]	Padalos vertė [d] [HL]	Vieneto kaina € (be PVM)
2.1	 SAUTER HMM	HMM.	Type D	170-960	1	1330,00
		<p>Impact (rebound) sensor: The bounce module is accelerated by a spring against the item being tested. Depending on how hard the object is, the kinetic energy of the module will be absorbed. The speed reduction will be measured and converted to Leeb hardness values.</p> <ul style="list-style-type: none"> External impact sensor (Type D) included Automatic recognition of the impact (rebound) sensor connected to the HMM. Mobility: In comparison with stationary table-top devices and testing devices with an internal sensor, using the SAUTER HMM. offers the highest level of mobility and flexibility All measurement directions possible (360°) thanks to an automatic compensation function Wireless IR printer included for on-site printing of measurement protocols (battery operated) Standard block for calibration included Delivered in a hard carrying case Internal memory for up to 9 data groups, with up to 9 values per group forming the average value of the group Mini statistics function: displays the measured result, the average value, the impact direction, date and time Measurement value display: Rockwell (B & C), Vickers (HV), Brinell (HB), Shore (HSD), Leeb (HL), tensile strength (MPa) Automatic unit conversion: The measuring result is automatically converted into all specified hardness units 				


Priedai

	Vaizdas	Modelis	Aprašymas	Vieneto kaina € (be PVM)
2.2		AHMO D	<ul style="list-style-type: none"> External impact sensor Type D 	340,00

2.3		AHMO D01	<ul style="list-style-type: none"> • Impact body Type D, Net weight approx. 5 g, hardness ≥ 1600 HV, tungsten carbide, Impact ball $\varnothing 3$ mm, in accordance with the standard ASTM A956-02 	115,00
2.4		AHMR 01	<ul style="list-style-type: none"> • Attachment rings for secure positioning 	320,00
2.5		HMM-A02	<ul style="list-style-type: none"> • connection cable 	105,00
2.6		AHN-02	<ul style="list-style-type: none"> • Thermal printer, wireless infrared connection to SAUTER HN, HMM and HMO 	340,00
2.7		ATU-US11	<ul style="list-style-type: none"> • Paper roll (1 piece) for SAUTER AHN-02 	15,00

Eil. Nr.	Vaizdas	Modelis	Jutiklis	Matavimo ribos [Max] [HL]	Padalos vertė [d] [HL]	Vieneto kaina € (be PVM)
3.1	 <p>SAUTER HMO</p>	HMO.	Type D	170-960	1	1770,00
		<p>Innovative touchscreen</p> <ul style="list-style-type: none"> • Automatic recognition of the impact (rebound) sensor connected to the HMO. • Mobility: In comparison with stationary table-top devices and testing devices with an internal sensor, using the SAUTER HMO. offers the highest level of mobility and flexibility • All measurement directions possible (360°) thanks to an automatic compensation function • Data output to PC: USB output included • Wireless IR printer included for on-site printing of measurement protocols (battery operated) • Standard block and support ring for curved surfaces (Radius > 10 mm) • Support rings for bended testing samples available on request, on request • Delivered in a hard carrying case • Internal memory for up to 800 data groups, with up to 99 values per group forming the average value of the group • Mini statistics function: Displays the measure value, the average value, the difference between the maximum and minimum values, date and time • Measurement value display: Rockwell (B & C), Vickers (HV), Brinell (HB), Shore (HSD), Leeb (HL), tensile strength (MPa) • Automatic unit conversion: The measuring result is automatically converted into all specified hardness units • Precision: 1 % 800 HLD (± 6 HLD) • Measuring range tensile strength: 375 - 2639 MPa (steel) • Min. sample weight on a solid and stable support: <ul style="list-style-type: none"> • Sensor D + DC: 3 kg • Sensor G: 15 kg • Minimum sample thickness: <ul style="list-style-type: none"> • Sensor D + DC: 8 mm • Sensor G: 10 mm • Minimum sample radius (concave/convex): 50 mm (with support ring: 10 mm) 				
Priedai						

	Vaizdas	Modelis	Aprašymas	Vieneto Kaina € (be PVM)	V
3.2		AHMO D	• External impact sensor Type D	340,00	
3.3		AHMO D01	• Impact body Type D, Net weight approx. 5 g, hardness ≥ 1600 HV, tungsten carbide, Impact ball $\varnothing 3$ mm, in accordance with the standard ASTM A956-02	1 115,00	
3.4		AHMR 01	• Attachment rings for secure positioning	1 320,00	
3.5		AHN-02	• Thermal printer, wireless infrared connection to SAUTER HN, HMM and HMO	1 340,00	
3.6		ATU-US11	• Paper roll (1 piece) for SAUTER AHN-02	1 15,00	
3.7		HMO-A04	• connection cable for HMO, HMM, HMP and HMR	1 95,00	
3.8		<u>MPS-A09</u>	• Transport case	1 115,00	

Eil. Nr.	Vaizdas	Modelis	Jutiklis	Matavimo ribos [Max] [HL]	Padalos vertė [d] [HL]	Kiekis	Vieneto kaina € (be PVM)	Visa kaina € (be PVM)
4.1	 SAUTER HN	HN-D.	Type D	0-999	1	1	1290,00	
		<p>User-friendly operation: The compact version enables the product to be used in a significantly wider range of applications compared with traditional devices</p> <ul style="list-style-type: none"> •The measuring device has been designed for one-hand operation and this allows the user to work more quickly and flexibly •Modern LCD display: Optimised for industrial applications: increased luminosity and backlight can be switched on, so that the display can be read from any angle •All measurement directions possible (360°) thanks to an automatic compensation function •Internal impact sensor included (Type D) •Selectable measuring units: Rockwell (B & C), Vickers (HV), Brinell (HB), Shore (HSD), Leeb (HL) •Internal data memory for up to 500 measurements with date and time •USB-PC data output: Easy to install on any PC • Delivered in a hard carrying case 						

Priedai						
	Vaizdas	Modelis	Aprašymas	Kiekis	Vieneto kaina € (be PVM)	Visa kaina € (be PVM)
4.1		AHN-01	• PC software to download stored data, for statistical evaluation, and transfer to MS Excel	1	115,00	
4.2		AHMR 01	• Attachment rings for secure positioning	1	320,00	
4.3		AHMO D	• External impact sensor Type D	1	340,00	
4.4		AHMO D01	• Impact body Type D, Net weight approx. 5 g, hardness ≥ 1600 HV, tungsten carbide, Impact ball $\varnothing 3$ mm, in accordance with the standard ASTM A956-02	1	115,00	
4.5		AHMO D02	• Test block Type D/DC, accuracy ≥ 4 HL, $\varnothing 90$ mm (± 1 mm), Net weight approx. 2,7 kg, hardness range 790 ± 40 HL	1	190,00	
4.6		AHMO D03	• Test block Type D/DC, accuracy ≥ 4 HL, $\varnothing 90$ mm (± 1 mm), Net weight approx. 2,7 kg, hardness range 630 ± 40 HL	1	190,00	
4.7		AHMO D04	• Test block Type D/DC, accuracy ≥ 4 HL, $\varnothing 90$ mm (± 1 mm), Net weight approx. 2,7 kg, hardness range 530 ± 40 HL	1	190,00	
4.8		961-132	• ISO calibration certificate for Test block SAUTER AHMO D02, AHMO D03 and AHMO D04	1	120,00	
4.9		AHN-02	• Thermal printer, wireless infrared connection to SAUTER HN, HMM and HMO	1	340,00	
4.10		ATU-US11	• Paper roll (1 piece) for SAUTER AHN-02	1		