	deser.		IH-170					
Material	HLD	HRC	HRB H	RA	НВ	HV	HS	
Steel and cast steel	300-900	20-68	39-100 59	-86 8	1-654	81-955	32-	
100		*****	100000					
Cold work tool steel	300-840	20-67	*****	-		80-898	- 4	
Stainless steel	300-800	20-62	46-101	- ₂₀ 8	5-655	85-802	-	
Grey cast iron	360-650	<u> </u>	2113-	- 9	3-334		-	
Nodular cast iron	400-660	- 14	1 1-0	- 1	31-387	MILES O	-	
Cast aluminium alloys	200-570	- 🗥	24-34	- 2	7-164	allation.	1 2 2 2 <u>-</u>	
Brass	200-550	- (1)	13-95	- 4	0-173	100	William .	TLAN
Bronze	300-700	- 5,0	in the least	- 6	0-290	CANDON STATE	<u> </u>	
Copper	200-690	11 - 15		- 4	5-315	(MAJE)	0.0	

The ranges are stipulated by the application limits of the relevant static procedure

_		

Material	HLC	НВ	HRC	HV	HS	34 1	3 -73
Steel and cast steel	350-960	80-683	20-69	80-996	31-102	2.0	
Cold work tool steel	350-900	-	20-68	100-941		15 T	8.5

The ranges are stipulated by the application limits of the relevant static procedure

Material	HLDL	НВ	HRB	HRC	HV	HS
Steel and cast steel	560-950	81-646	37-100	21-68	80-950	30-96

The ranges are stipulated by the application limits of the relevant static procedure

Technical specifications	
Hardness parameter	HRC, HRB, HRA, HV, HB, HS,HLD or HLC or HLDL
Measuring range/ metallic materials	See table above
Accuracy	Within ±6HLD (TH-170)
	Within ±12 HLC (TH-172)
	Within ±12HLDL (TH-174)
Statistics	Average (max. 99)
Output	RS-232
Min. Surface roughness of workpiece	1.6µm (Ra) (TH-170/ 174),
	0.4 µm (Ra) (TH-172)
Impact device	D (standard) integrated (TH-170)
	C integrated (TH-172) or DL integrated (TH-174)
Needle front section of DL-device (TH-174)	Diameter = 4.2mm
	Length = 50mm
Workpiece max. hardness value	900HLD (TH-170)
	960HLC (TH-172)
	950HLDL (TH-174)
Workpiece radius (convex/ concave)	Rmin = 50mm (with support ring Rmin= 10mm)
Workpiece minimum weight	2kg-5kg on solid support (TH-170/174)
	0.5kg-1.5kg on solid support (TH-172)
	(0.05kg-2kg with couplant paste) (TH-170/174)
	(0.02kg-0.5kg with couplant paste) (TH-172)
Workpiece min. thickness coupled	5mm (TH-170/ 134), 1mm (TH-172)
Workpiece min. case hardened depth	0.8mm (TH-170/ 134), 0.2mm (TH-172)
Indentation depth	See page: Impact devices data
Power	Rechargeable battery NiMH 3.6V, 70mAh
Charger	9V, 200mA (1.8VA)
Charging time	8 hours
Operating temperature	0°C to 40°C
Overall dimensions	155mm x 24mm x 55mm (TH-170/ 172)
	210mm x 24mm x 55mm (TH-174)
Dimensions DL impact device (TH-174)	LxD 50mm x 4mm diameter
Weight	180gr (TH-170/ 172) or 200gr (TH-174)



MINI-PRINTER TA-220
Reliable and fast mini-printer with quality EPSON print head and clear LCD display, RS-232 interface. Optional data cable TA-510 to IMPACT series available. Prints all numerical IMPACT hardness test data direct real-time or per batch after testing.



TEST BLOCK D

For performance tests of IMPACT series a test block D is available (HLD hardness value). Tolerance allowed is ±6 units HLD. Values too low: impact device dirty. Value too high: spherical test tip flattened, or test block impacted all over. Optional: similar test block D but UKAS certified according to any hardness scale such as HRC or HV for traceable reference.

COUPLANT

Light parts can be coupled to a solid base plate using a thin layer of coupling paste. Both contact surfaces must be perfectly flat.



SUPPORT RINGS

On curved surfaces having a radius of under 30mm, effective positioning on the component is facilitated by the use of support rings. This ring can be screwed on front of the impact device.

We offer a set of 7 rings: convex model 10mm-15mm / 14.5mm-30mm / 25mm-50mm, concave model 11mm-13mm / 12.5mm-17mm / 16.5mm-30mm, universal model.



