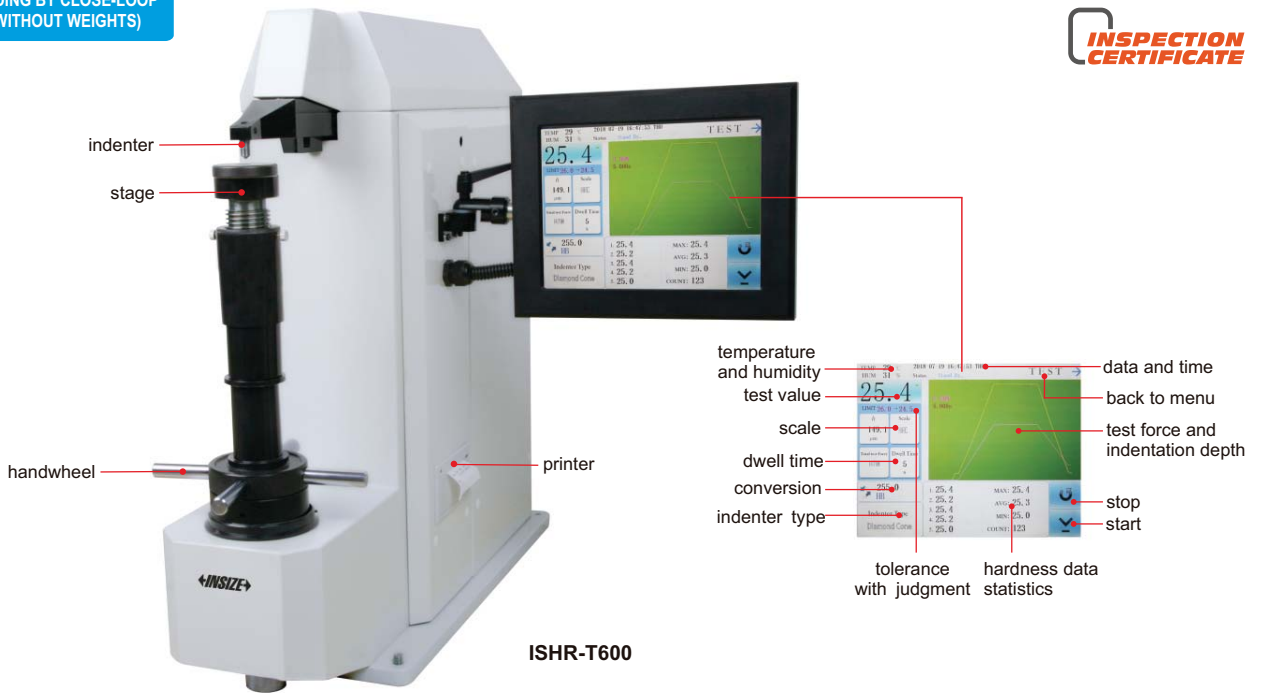


**AUTOMATIC TESTING,  
CONTINUOUS TESTING IS AVAILABLE**

**FORCE LOADING BY CLOSE-LOOP  
SYSTEM (WITHOUT WEIGHTS)**

# DIGITAL ROCKWELL AND SUPERFICIAL ROCKWELL HARDNESS TESTERS (DOLPHIN-NOSE MODEL)



- Automatic testing, the preliminary and total test force are loaded by high speed close-loop system automatically
- Dolphin-nose indenter for easy reach of the internal wall of pipes and grooves, the minimum internal diameter is 1.575" DIA
- Can transmit test data to computer
- LCD touch screen
- Tolerance with judgement
- Memory of 120 test values for browsing and output
- Provide the maximum, minimum and average value of measurements
- The test process curve shows the material property
- Test force is selected automatically according to hardness scale



2.36" DIA flat anvil (included)



5.91" DIA flat anvil (included)

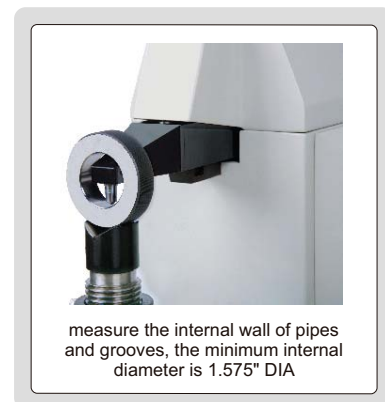
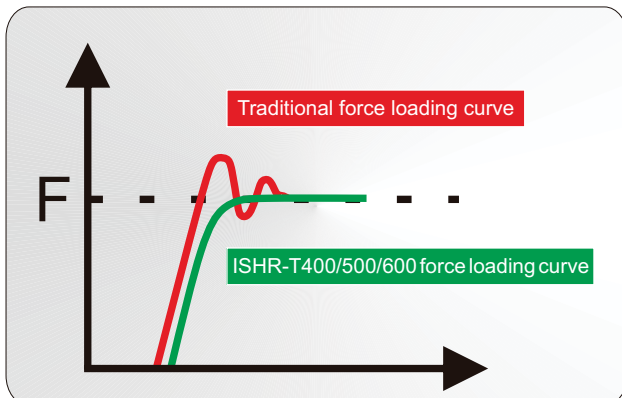


V-type anvil (included) for cylinders with diameter .16~2.36" DIA



small V-type anvil (optional) for cylinders with diameter .08~.16" DIA

The preliminary and total test force are loaded by high speed close-loop system automatically, faster and more stable than traditional motor loading. Loading process is smooth, no overshoot. Loading speed and accuracy are improved greatly



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**SPECIFICATION**

Part No.		ISHR-T400	ISHR-T500	ISHR-T600
Type		Rockwell	Superficial Rockwell	Rockwell and Superficial Rockwell
Hardness scale	with standard indenters	HRA, HRB, HRC, HRD, HRF, HRG	HR15N, HR30N, HR45N, HR15T, HR30T, HR45T	HRA, HRB, HRC, HRD, HRF, HRG, HR15N, HR30N, HR45N, HR15T, HR30T, HR45T
	with optional indenters	HRE, HRH, HRK, HRL, HRM, HRP, HRR, HRS, HRV	HR15W, HR30W, HR45W, HR15X, HR30X, HR45X, HR15Y, HR30Y, HR45Y	HRE, HRH, HRK, HRL, HRM, HRP, HRR, HRS, HRV, HR15W, HR30W, HR45W, HR15X, HR30X, HR45X, HR15Y, HR30Y, HR45Y
Preliminary test force		Rockwell: 98N (10kg)	Superficial Rockwell: 29.4N (3kg)	Rockwell: 98N (10kg) Superficial Rockwell: 29.4N (3kg)
Total test force		588N (60kg), 980N (100kg), 1471N (150kg)	147.1N (15kg), 294.2N (30kg), 441.3N (45kg)	147.1N (15kg), 294.2N (30kg), 441.3N (45kg), 588N(60kg), 980N(100kg), 1471N(150kg)
Conversion scale		HR, HB, HK, HV		
Stage elevation		manual		
Load control		high speed close-loop system automatic loading (load/dwell/unload)		
Load dwell time		0~99 second		
Resolution		0.1HR		
Data output		printer, RS232		
Max. workpiece height		10.24"		
Max. workpiece depth		5.91" (from the center of indenter to the main body)		
Power supply		110/220V, 50/60Hz		
Dimension		27.56×10.24×27.56"		
Weight		187.4lb		

**STANDARD DELIVERY**

Part No.	ISHR-T400	ISHR-T500	ISHR-T600
Main unit	1 pc	1 pc	1 pc
2.36" DIA flat anvil	1 pc	1 pc	1 pc
5.91" DIA flat anvil	1 pc	1 pc	1 pc
V-type anvil	1 pc	1 pc	1 pc
1/16" DIA carbide ball indenter	1 pc	1 pc	1 pc
Diamond indenter	1 pc	1 pc	1 pc
Hardness test block HRB88~95	1 pc	—	1 pc
Hardness test block HRC20~30	1 pc	—	1 pc
Hardness test block HRC40~50	1 pc	—	1 pc
Hardness test block HRC60~65	1 pc	—	1 pc
Hardness test block 78~88HR15N	—	1 pc	1 pc
Hardness test block 55~73HR30N	—	1 pc	1 pc
Hardness test block 57~69HR30T	—	1 pc	1 pc

**OPTIONAL ACCESSORY**

Hardness test block HRB88~95	ISH-BHRB
Hardness test block HRC20~30	ISH-BHRC1
Hardness test block HRC40~50	ISH-BHRC2
Hardness test block HRC60~65	ISH-BHRC3
Hardness test block 78~88HR15N	ISH-BHR15N1
Hardness test block 55~73HR30N	ISH-BHR30N1
Hardness test block 57~69HR30T	ISH-BHR30T1
Small V-type anvil	ISH-SMALL ANVIL
Connection cable and software	ISHR-T-SOFTWARE