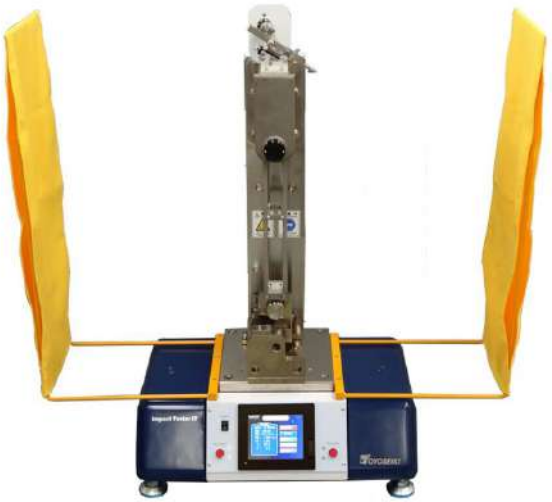
Toyo Seiki Seisaku-sho, Ltd. 5-15-4, Takinogawa, Kita-ku, Tokyo 114-8557, Japan

No.556 Impact Tester
Model IT

*Pendulum Impact Tester up to 15J**



With optional charpy hammer & curtain for litter control

With optional charpy hammer & safety cover

■FEATURES

- No error due to friction loss because of no pointer.
- No personal error because impact value can be read directly.
- Easy to read 5 inch color touch screen displays test results including average value, maximum value, minimum value and deviation.
- Data can be transmitted to spread sheet software via RS232C output. (Option)

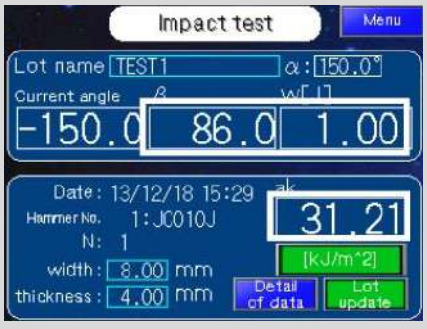
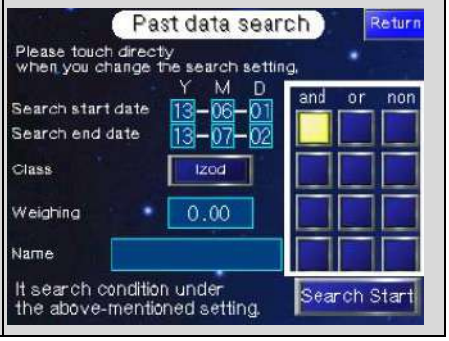
Up to 22J hammer available for Izod conforms to ISO180/JIS K 7110

■SPECIFICATIONS

Model	IT
Max. hammer capacity	15J *(Up to 22J for Izod conforms to ISO180/JIS K 7110)*
Interface	RS-232C (1port)
Touch screen	5 inch color touch screen
Test results	■ Lifting angle (β) ■ Absorbed energy (W) ■ Absorbed energy per unit sectional area (ak)
Units	■ kJ/m^2 ■ kJ/m ■ kgf･cm/cm ■ ft･lb/in
Languages	English, Japanese
Power requirement	Single-phase, AC100 to 240V, 50Hz or 60Hz, 0.2kVA
Dimensions	W600 x D360 x H1000mm
Weight	Approx. 80kg
Related standards	■ Charpy: ISO 179 (JIS K 7111), ASTM D 6110 ■ Izod: ISO 180 (JIS K 7110), ASTM D 256 ■ Tensile-impact: ISO 8256 (JIS K 7160), ASTM D 1822

Touch screen display

Main menu	Setup	Pendulum selection
		

Impact test	Detailed test data	Past data search
		

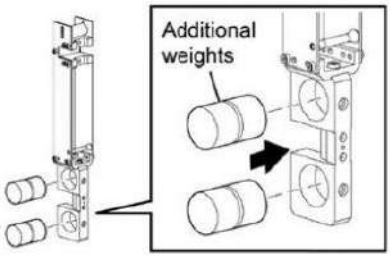
Charpy, Hammers

ISO 179 (JIS K 7111)

	Capacity	Model	Impact velocity
1	**0.5J / 1J***	**JCH05J**	2.9m/sec.
2	**2J / 4J***	**JCH2J**	
3	**5J**	**JCH5J**	
4	7.5J / 15J*	JCH75J	3.8m/sec.

*Using additional weights

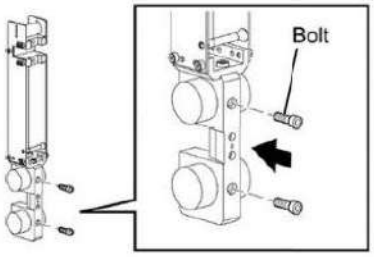
Bold face: Short length hammer



ASTM D 6110

	Capacity	Model	Impact velocity
1	1J / 2J*	ACH1J	3.46m/sec.
2	3J / 6J*	ACH3J	
3	8J / 15J*	ACH8J	

*Using additional weights



Charpy, Fixtures

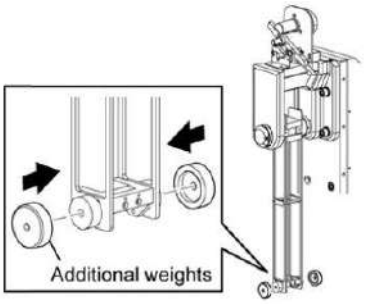
	Name	Model	
1	Charpy fixture For ISO 179 (JIS K 7111) ■ Specimen length (l): 80mm ■ Specimen width (b): 10mm ■ Specimen thickness (h): 4mm ■ Span: 62mm	JCHBAS	
2	Charpy fixture with centering unit For ISO 179 (JIS K 7111) ■ Specimen length (l): 80mm ■ Specimen width (b): 10mm ■ Specimen thickness (h): 4mm ■ Span: 62mm	JCBAST	 
3	Charpy fixture For ASTM D 6110 ■ Specimen length (l): 127mm ■ Specimen width (b): 12.7mm ■ Specimen thickness (h): Please specify ■ Span: 101.6mm	ACHBAS	

Izod, Hammers

ISO 180 (JIS K 7110)

	Capacity	Model	Impact velocity
1	0.5J / 1J*	JIZ05J	3.5m/sec.
2	1J	JIZ1J	
3	2.75J / 5.5J*	JIZ27J	
4	11J / 22J	JIZ11J	

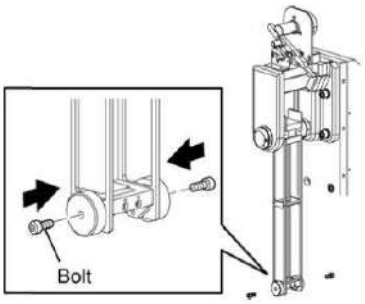
*Using additional weights



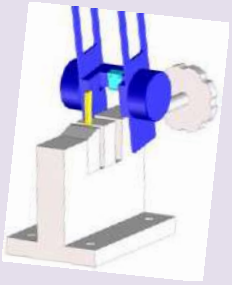
ASTM D 256

	Capacity	Model	Impact velocity
1	1J / 2J*	AIZ1J	3.46m/sec.
2	3J / 6J*	AIZ3J	
3	8J / 15J*	AIZ8J	

*Using additional weights



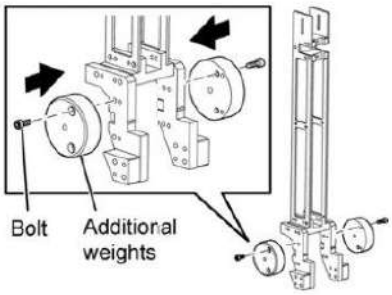
Izod, Fixture

	Name	Model	
1	Izod fixture For ISO 180 (JIS K 7110) & ASTM D 256 **ISO 180** ■ Specimen length (l): 80mm ■ Specimen width (b): 10mm ■ Specimen thickness (h): 4mm **ASTM D 256** ■ Specimen length (l): 63.5mm ■ Specimen width (b): 12.7mm ■ Specimen thickness (h): Please specify	IZBASE	

Tensile-Impact, Hammers

ISO 8256 (JIS K 7160)

	Capacity	Model	Impact velocity	Remarks
1	**2J / 4J***	**JTA2J**	2.9m/sec.	In-base (Method A)
2	7.5J / 15J*	JTA75J	3.8m/sec.	In-base (Method A)
3	**2J / 4J***	**JTB2J**	2.9m/sec.	In-head (Method B)
4	7.5J / 15J*	JTB75J	3.8m/sec.	In-head (Method B)



*Using additional weights

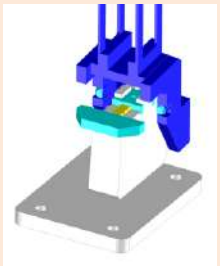
Bold face: Short length hammer

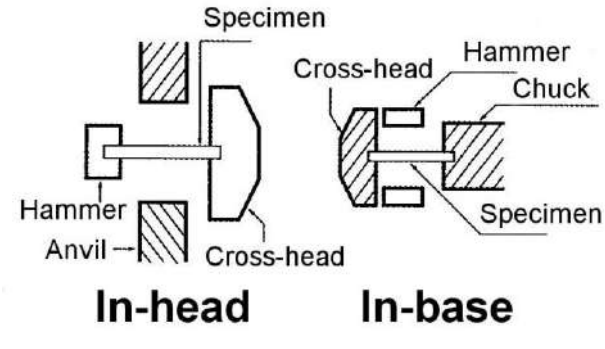
ASTM D 1822

	Capacity	Model	Impact velocity	Remarks
1	1J / 2J*	ATB1J	3.46m/sec.	In-head
2	3J / 6J*	ATB3J		
3	8J / 15J*	ATB8J		

*Using additional weights

Tensile-Impact, Fixtures

	Name	Model	
1	Tensile-Impact fixture For ISO 8256 (JIS K 7160) Method A (In-base)	JTABAS	
2	Tensile-Impact fixture For ISO 8256 (JIS K 7160) Method B (In-head)	JTBBAS	
3	Tensile-Impact fixture For ASTM D1822 (In-head)	ATBASE	



Tensile-Impact, Cross-heads

ISO 8256 (JIS K 7160)

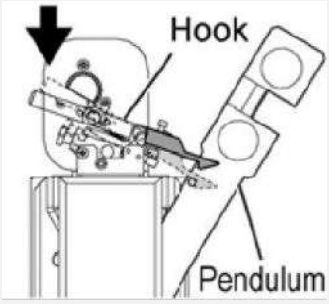
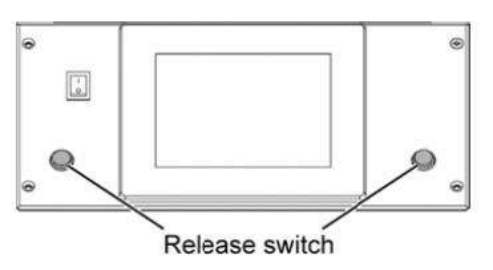
	Name	Model
1	In-base (Method A), 15g	JTA015
2	In-base (Method A), 30g	JTA030
3	In-base (Method A), 60g	JTA060
4	In-head (Method B), 15g	JTB015
5	In-head (Method B), 30g	JTB030
6	In-head (Method B), 120g	JTB120

ASTM D 1832

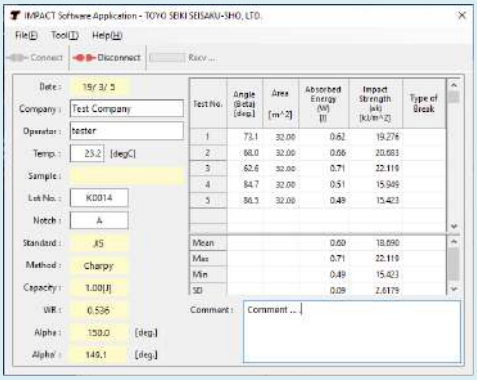
	Name	Model
1	In-head, for 1J / 2J	ATB1
2	In-head, for 3J / 6J	ATB3
3	In-head, for 8J / 15J	ATB8

■OPTIONS (Other than hammers & fixtures)

Name	Model	Photo
Hammer release devise	H-REL	 Rotary solenoid for pendulum release

Standard feature	Hammer release device (Option)
	 
Press down the hook by hand to release the pendulum.	Press both the release buttons on the front panel. The hook will be released by solenoid, and then the pendulum will be released.

Name	Model	Photo
Safety cover	ITSC	
Safety cover (Fully covered type with inter-lock)	ITSC-H	
Curtain for litter control	WAKU	
Anchor weight (Necessary for hammer of 15J or greater)	ANCHOR	
Mini thermal printer Paper width: 80mm	P	

Data export software Note: Spread sheet software is required. (Spread sheet software is not included)		
Hammer brake	ITBK	
Power cord, Type B	AC-U	For USA etc.
Power cord, Type F (CEE7/4)	AC-C	For Germany etc.
Power cord, Type F	AC-K	For Korea
Power cord, Type G (BS1363)	AC-B	For UK etc.
Power cord, Type I	AC-G	For China

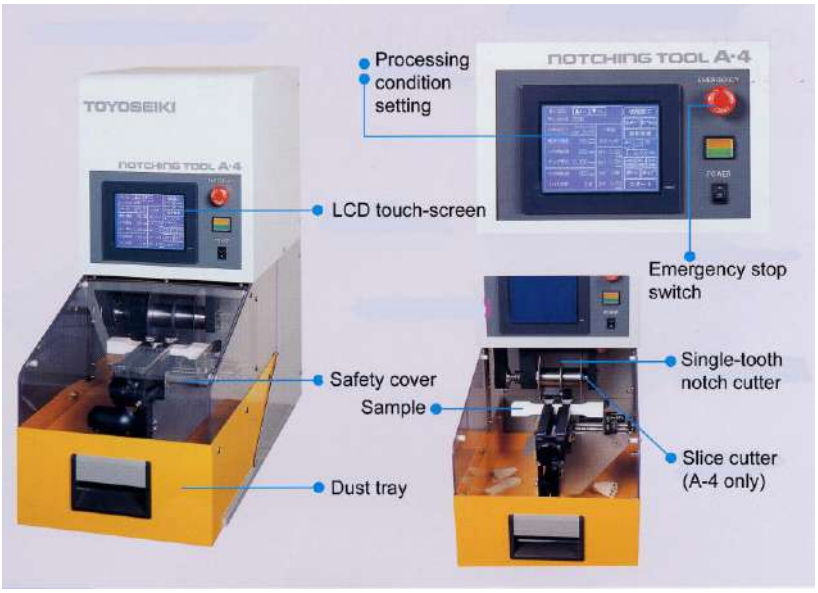
No.628 Notching Tool
Model A-4 / A-4E

Advanced milling type notcher for Izod/Charpy specimens

A-4……. Notching + Specimen's ends slicing
A-4E….. Notching only

■APPLICATION

The Notching Tool, A-4 series are miniature, computerized, numerically controlled milling machine for preparing a variety of notched specimen bars. All operations except mounting and dismounting of the sample are automatic. It automatically positions, cutter according to sample and notch dimensions.
The instrument employs a precision servo motor control system with a touch screen control display. Safety interfaces protect the operator from accidents. The cutter speed and table travel speed can be optimized for the sample material. (*Fixed cutter speed for A-4E*)
The instrument can store up to 99 (*16 for A-4E*) user-defined cutting programs.
Bars can also be automatically cut from the ISO multipurpose specimen (*A-4 only*).



■SPECIFICATIONS

Model	A-4	A-4E
Notching system	Single-tooth, Milling type (conforms to ISO 2818) Automatic operation except sample mounting & dismounting	
Processing items	■ Notching ■ Specimen's ends slicing	■ Notching
Specimen clamp	■ Length: 63.5 to 200mm ■ Height: 3 to 15mm ■ Thickness: Max. clamp clearance 100mm (=4mm x 25 specimens)	
Machining conditions	99 programs	16 programs
Notch height setting motor (Z axis)	Stepper motor with precision ball screw	
Notch height setting	3 to 14.99mm, 0.01mm steps	
Table feed motor (X axis)	Stepper motor with precision ball screw	
Table feed rate	50 to 1200mm/min.	
Cutter motor (Rotational speed)	AC servo motor (200 to 900rpm)	Synchronous motor (50Hz:300rpm, 60Hz:360rpm)
Standard V notch cutter	■ Diameter: Ø75mm ■ Angle: 45° ■ Tip-radius: 0.25mm ■ Material: SKH (High speed tool steel) ■ Single-tooth type (1 piece included as a standard)	
Standard slice cutter	■ Diameter: Ø100mm ■ Thickness: 1mm ■ Material: SKH (High speed tool steel) (1 set included as standard)	----------
Specimen's ends slicing length	Standard: 80mm (ISO179, 180, 8256) Option: 63.5mm (ASTM D256)	----------
Safeguards	■ Safety cover with interlock ■ Emergency stop switch	
Power requirement	Single-phase, AC100V, 50Hz or 60Hz, 0.8kVA	Single-phase, AC100V, 50Hz or 60Hz, 0.3kVA
Compressed air requirement	Max. 0.8MPa (For optional cooling device)	
Dimensions	W300 x D700 x H700mm	
Weight	Approx. 65kg	

Specifications are subject to change without notice.

TOYO SEIKI SEISAKU-SHO, LTD.
5-15-4, Takinogawa, Kita-ku, Tokyo 114-8557, Japan
Tel:+81-3-3916-8183 Fax:+81-3-3916-8173
www.toyoseiki.co.jp

20210622 MN