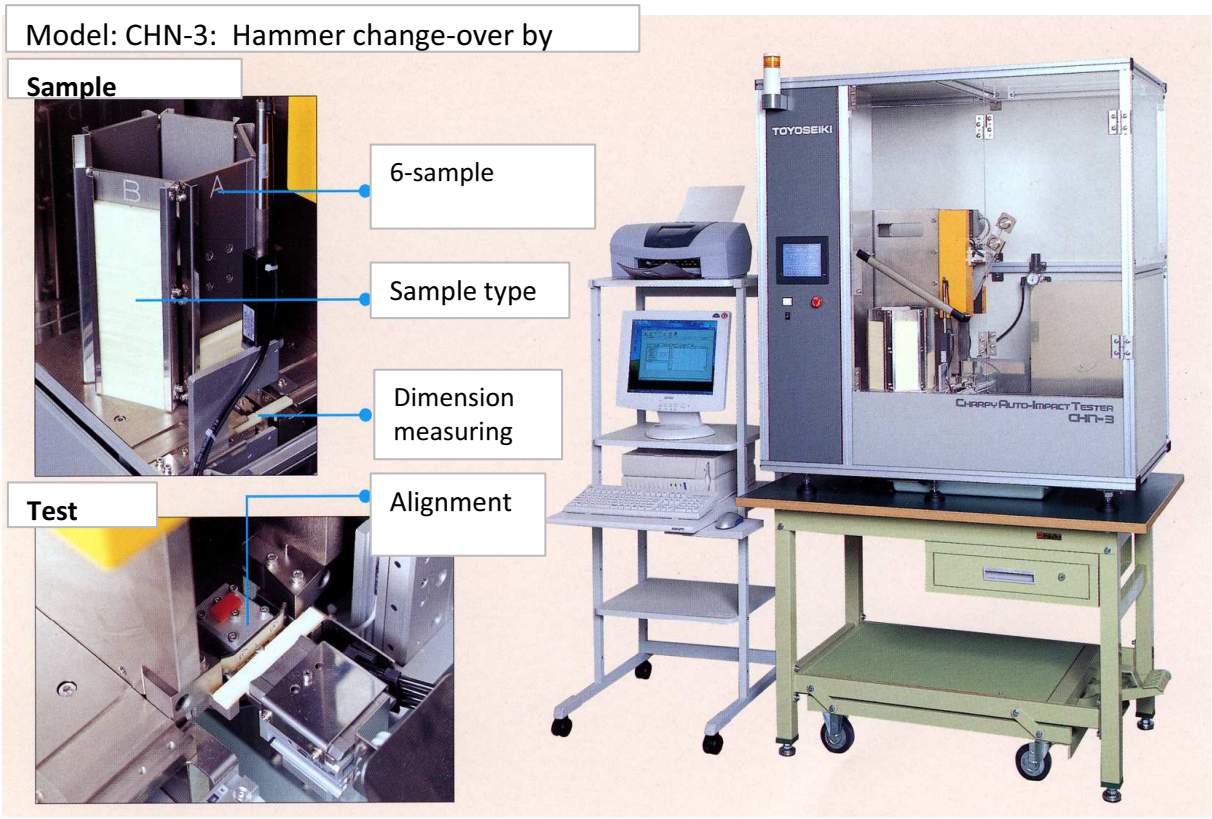
No.625

TOYOSEIKI since 1934

Charpy Auto-Impact Tester CHN-3

Introduction

This system is to complete pendulum impact test from sample dimension measurement to test result data processing for 1 kind of hammer capacity



Features

1 Test time per sample is shortened (10 sec) by using step-saving mechanism from sample feeding to impact test. This enables a batch of test with large-quantity sample shorter. (Max 300 pcs of test finishes in an hour approximately)
2 Revolving sample casette enhances operability (Sample identification, Interrrupt test)
3 Lot control mode setting synchronizes sample registration number and actual quantity of sample mounted in cassete
4 Operability of test monitoring and maintenance by using touch type screen
5 Independent test completion in case of communication disruption between machine and PC
6 Data file is in common format for reusability with other application software
7 Good maintainability with step-saving mechanism

CHN-3 Specifications

1	Sample dimensions	W10 X T4 X L80 mm　　Tolerance for Length 80 +/- 0.5 mm
2	Notch type	Single. Sample type NO.1. A notch(Notch tip radius = 0.25 mm). Remaining width 8mm
3	Span between sample ho	62 mm
4	Impact direction	Edge-wise
5	Hammer point shape	Tip angle 30°, Tip radiuse 2 mm
6	Hammer capacity	(a)0.5J, 1.0J (common type) ----- Impact speed 2.9m/s (+/- 10%) (b)2.0J, 4.0J (common type) ----- Impact speed 2.9m/s (+/- 11%）　Choice of one (c)7.5J, 15.0J (common type) ----- Impact speed 3.8m/s (+\- 12%)　　for standard supply
7	Hammer mounting	1 set at a time
8	Hammber changeover	By hand
9	Angle detection	Non-contact type optical scale with minimum reading 0.1°
10	Dimension measuring	Notchi depth and thickness by optical linear scale with minimum reading 0.01 mm
11	Sample mounting	Mounting in casette. Max 300 (50 casette X 6 pcs)　6-sample revolving casette
12	Test time	Approximately 10 seconds per 1 piece of test sample
13	Pneumatic source	0.4MPa or more required
14	Power source	AC100V 50/60Hz　　3A
15	Dimensions	Main unit: W1200×D750×H2000 mm Data processing system: W600×D700×H1600 mm
16	Weight	Main unit: 300 kg (Including table 80kg) Data processing unit: 45 kg
17	Referenced standard	ISO 179 / JIS K 7111