Tapping Machine

TM003

TM003 Tapping Machine is a rugged, self-contained sound source for making footfall noise measurements to the latest international standards (ISO140, EN 20140, ASTM E492, GB J75-84, etc.).

Features

- ✧ Five 500g hammers with falling heights of 40mm
- ✧ 10 impacts per second
- ✧ Solid aluminum base for stable operation
- ✧ Reduced machine noise via belt drive
- ✧ Long lasting industrial drive motor
- ✧ No metal-to-metal moving parts resulting in less wear and smooth operation
- ✧ 24V DC power supply via a 220V/110V AC /DC adaptor.
- ✧ Remote control with an operating distance of 2 floors.

Principle of Operation

TM003 uses an industrial stepper motor turning five cams via a belt drive for quiet operation. The cams in turn lift the hammers which fall 40 mm to impact the solid and durable base plate at a rate of 5 impacts per second. The base is made from 3/16"(5mm) solid aluminum making the unit very stable during operation.

Maintenances

Special consideration was given to all the moving parts of the unit. No metal to metal contact is allowed. Teflon washers and spacers are used to guide the hammers, reducing friction, wear, noise, and maintenance.

SPECIFICATIONS

Tapping Machine TM003	
Standards	ISO140, BS5821, GBJ75, ASTM492, EN 20140
Hammers	Five in line, 100 mm between each hammer, single hammer weight 500±10g
Impact Frequency	Each hammer operates at 2Hz; tapping frequency for unit is 10±0.3Hz
Impact Forces	Equivalent free-fall height of hammers 40 mm
Motor	Stepper Motor
Dimensions	580 × 145 × 275 mm
Carrying Case	700 × 260 × 400 mm
Net Weight	10 kg (15 kg including the case)
Power supply	24V DC power supply via a 220V/110V AC /DC adaptor
Fuse	0.5A
Operating Temperature	-10℃ ~ 50℃
Operating Humidity	0 ~ 98% RH
STANDARD ITEMS INCLUDED	
TM003	1
Power Supply Adaptor	1
Remote Control	1
User's Manual	1
4mm L-type wrench	1
Testing Report	1
Carrying Case	1