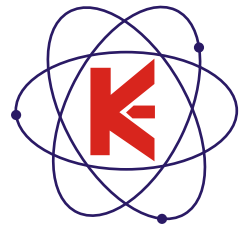


# K-ELECTRONICS

## MAGNATEST BAR TESTING



*Advanced High-Amperage Unit for Metal BAR magnetic particle inspection*



The KE Model UNMT for BAR is a next-generation high-amperage magnetic power unit designed for bar manufacturing industries. With robust construction, digital precision, and enhanced operator safety, it delivers reliable and efficient Magnetic Particle Inspection Solutions for metallic bars of varying sizes.

### KEY FEATURES

- **Durable & Compact Design** – Engineered to perform in demanding bar manufacturing environments.
- **Digital Monitoring System** – Ensures precise readings and consistent performance.
- **User-Friendly Interface** – Easy operation and low-maintenance design.
- **Wide Compatibility** – Supports MT Series with current range from 6000A to 10,000A.
- **Standards Compliance** – Conforms to international NDT testing standards.

### CUSTOMIZATION OPTIONS

The UNMT model can be tailored with the latest features to meet industry-specific requirements:

- PLC & HMI Display Integration.
- Wi-Fi / Ethernet Connectivity for remote monitoring.
- Smart Device Access – Operate or monitor from smartphones or tablets.
- Secure User Login with password protection (laptop connectivity).
- Full-Function Remote Control Operation.



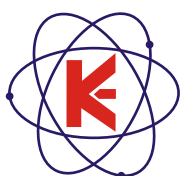
## OPTIONAL HANDLING SYSTEM

A customized handling system can be provided based on Bar diameter and length:

- **Manual Handling** – For small or medium-sized operations.
- **Automatic Handling** – For large-scale, high-speed production environments.

## SPECIFICATION

	UNIT	MAGNATEST MT-6000	MAGNATEST MT-8000	MAGNATEST MT-10000
Input Supply	Volts	415VAC	415VAC	415VAC
Frequency	Hz	50	50	50
Phase	Ph	2 Ph, E	3 Ph, N & E	3 Ph, N & E
Class of Insulation	Class	F	F	F
Duty Cycle	%	50	50	50
Output Current	Amps	6000Amps + - 10%	8000Amps + - 10%	10000Amps + - 10%
PLC & HMI		KE Digital Controller	KE Digital Controller	KE Digital Controller
Shot Time	Sec	Digitally Adjustable 0.5 Sec to 5 Sec + - 0.1Sec	Digitally Adjustable 0.5 Sec to 10 Sec + - 0.1Sec	Digitally Adjustable 0.5 Sec to 5 Sec + - 0.1Sec
Magnetizing Current	Amps	AC & HWDC	AC & HWDC	AC & HWDC
Current control system		Thyristorised Step-less Solid state current control using a smart digital controller	Thyristorised Step-less Solid state current control using a smart digital controller	Thyristorised Step-less Solid state current control using a smart digital controller
Display		4 digit Digital LED Display	4 digit Digital LED Display	4 digit Digital LED Display
Safety Features		Over Heating Protection	Over Heating Protection	Over Heating Protection
Standards		ASTM E709, ASTM E1444/E1444M	ASTM E709, ASTM E1444/E1444M	ASTM E709, ASTM E1444/E1444M



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