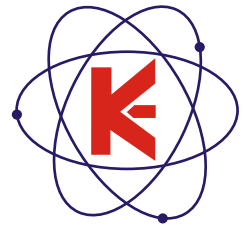


K-ELECTRONICS

MAGNATEST MT Series



Advanced Magnetic Power Units for Reliable Magnetic Particle Testing (MPT)



The MAGNATEST MT Series is a state-of-the-art magnetic power unit designed for high-current amperage systems, delivering fast, accurate, and reliable Magnetic Particle Testing (MPT) of metallic components. With advanced signal processing and rugged construction, it ensures superior inspection quality across a wide range of industries, including automotive, aerospace, oil & gas, pipe manufacturing, bar production, energy, and other critical manufacturing sectors.

SPECIAL FEATURES

- **High-Speed Testing** – Optimized for continuous production lines with rapid inspection cycles.
- **Multi-Amperage Operation** – Ensures accurate detection of both surface and subsurface defects.
- **User-Friendly Interface** – Intuitive controls with optional touchscreen operation for simplified setup and monitoring.
- **Modular Design** – Flexible configurations tailored to specific testing requirements.
- **Durable & Reliable** – Heavy-duty construction guarantees consistent performance in demanding environments.

APPLICATIONS & USES

- Compatible with multidirectional cross-coils for pipe-end testing.
- Suitable for prod testing in castings.
- Can be deployed as a mobile power unit for pipe testing.
- Applicable for bar testing in production environments.
- MT-6000 model supports an optional mini bench for sample/component testing.
- Functions as a demagnetizing unit for components, bars, and pipes using cable/coil.

INDUSTRY RELEVANCE

The MT Series offers versatile solutions for a wide range of inspection needs in the metal industry, supporting high-volume production as well as specialized applications.

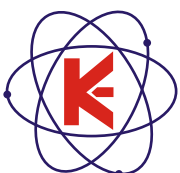
SPECIFICATION

	UNIT	MT-6000	MT-8000	MT-10000	MT-12K2	MT-16K2	MT-20K2
Input Supply	Volts	415VAC	415VAC	415VAC	415VAC	415VAC	415VAC
Frequency	Hz	50	50	50	50	50	50
Phase	Ph	2 Ph, E	3 Ph, N & E	3 Ph, N & E	3 Ph, N & E	3 Ph, N & E	3 Ph, N & E
Class of Insulation	Class	F	F	F	F	F	F
Duty Cycle	%	50	50	50	50	50	50
Output Current	Amps	6000Amps + - 10%	8000Amps + - 10%	10000Amps + - 10%	12000Amps + - 10%	16000Amps + - 10%	20000Amps + - 10%
PLC & HMI		KE Digital Controller	KE Digital Controller	KE Digital Controller	PLC + 7"HMI	PLC + 7"HMI	PLC + 7"HMI
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	Digitally Adjustable 0.5 Sec to 7 Sec + - 0.1Sec	Digitally Adjustable 0.5 Sec to 7 Sec + - 0.1Sec	Digitally Adjustable 0.5 Sec to 7 Sec + - 0.1Sec
Magnetizing Current	Amps	AC & HWDC	AC & HWDC	AC & HWDC	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	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	7" Display	7" Display	7" Display
Safety Features		Over Heating Protection	Over Heating Protection	Over Heating Protection	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	ASTM E709, ASTM E1444/E1444M , ISO 9934, ISO 10893 - 5	ASTM E709, ASTM E1444/E1444M , ISO 9934, ISO 10893 - 5	ASTM E709, ASTM E1444/E1444M , ISO 9934, ISO 10893 - 5



OPTIONAL ACCESSORIES

KEA0001	Pair of prods with two 2.5 m long 120 sq mm cable with remote switch, PCL 2.5
KEA0002	Pair of prods with two 5 m long 120 sq mm cable with remote switch PCL 5
KEA0003	Cable for wrap magnetizing, 5 m long 120 sq mm with remote switch WCL 5
KEA0004	Cable for wrap magnetizing, 10 m long 120 sq mm with remote switch WCL 10
KEA0005	Pair of prods with two 2.5 m long 240 sq mm cable with remote switch, PCL 2.5
KEA0006	Pair of prods with two 5 m long 240 sq mm cable with remote switch PCL 5
KEA0007	Cable for wrap magnetizing, 5 m long 240 sq mm with remote switch WCL 5
KEA0008	Cable for wrap magnetizing, 10 m long 240 sq mm with remote switch WCL 10
KEA0009	X m 120 sq mm Cable for MPI magnetizing/demagnetizing. (Put the value of X)
KEA0010	X m 240 sq mm Cable for MPI magnetizing/demagnetizing. (Put the value of X)
KEA0011	Transport trolley for MPI units, TL
KEA0012	Pair of prods without cable Px2



K-ELECTRONICS LLP

EEC House, C-7, Dalia Industrial Estate, Off New Link Road, Andheri (W), Mumbai 400 053. India
 Web: www.k-electronics.in | Email: sales@k-electronics.in | Contact: +91 22 6150 3800