

# Isotest

## Mobile Crack Detection Units

Isotest mobile power packs are designed for constant or impulse current magnetisation and are suitable for magnetising parts either with AC or full-wave DC.

They are ideal for use in harsh conditions where the highest reliability is essential, for example, the automotive and aeronautical industries, foundries, forging shops, steel production and processing.

A wide variety of high-current cables, coils and contacting options gives you maximum mobility and flexibility on-site. Additional power packs are also available on request.

### FEATURES

- Constant current control and optional current flow detection system for maximum testing safety
- Multi-stage, low-frequency demagnetisation system

The Isotest range consists of:

- 30 E for test currents up to 3,000 A DC and AC
- 60 E for test currents up to 6,000 A DC
- 100 E for test currents up to 10,000 A DC

With models 60 E and 100 E, switching from AC to DC is done using a motorised pole reversing switch. 30 E features a new, electronic, high-current change-over switch which enables quick and easy switching between DC and AC by the simple push of a button.



Isotest 60 E / 100 E



Isotest 30 E

# Isotest

## PRODUCT FEATURES AND PART NUMBERS

		Isotest 30 E	Isotest 60 E	Isotest 100 E
Part number		065310	065610	065910
Effective AC*	A	3000	4200	5600
Peak AC*	A	4240	6000	8000
Absolute duty cycle at 100% operating current		max. 30 s on/ 70 s off Relative 30% at .../2	max. 30 s at 120 s break	max. 30 s at 120 s break
Open circuit voltage max.	V AC	8.5	15	22
Effective full-wave DC* (5% ripple)	A	3000	6000	10,000
Absolute duty cycle at 100% operating current		max. 30 s on/ 70 s off; relative 30% at .../2	max. 30 s at 120 s break	max. 30 s at 120 s break
Open circuit voltage max.	V DC	8	20	30
Control voltage	V DC	24	24	24
Mains connection	V	AC 400 (CEE plug 5-pole/63A)	3 x 400	3 x 400
Frequency	Hz	50	50	50
Power consumption	kVA	28	105	295
Short circuit current (approx.)	A	35,000	12,400	22,400
Recommended quantity and length of high current cable**	m	2 x 4.5	8 x 4.5	8 x 4.5
High current cable cross section	mm <sup>2</sup>	2 x 150	150	150
Test current adjustment		infinite	infinite	infinite
Constant current control		yes	yes	yes
Current indication		digital	digital	digital
Width x depth x height	mm	770 x 1000 x 1400	1760 x 910 x 1725	1760 x 910 x 1725
Weight without current cables	kg	312	790	1000

\*maximum test current cable equivalent circuit 9 m

\*\* not included in delivery scope