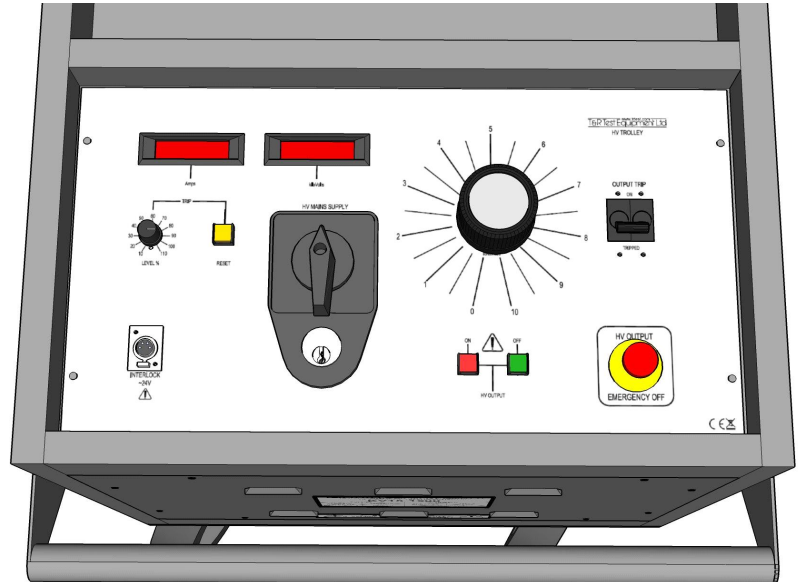
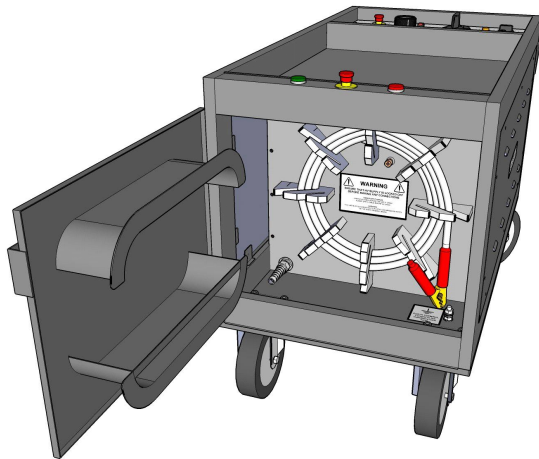
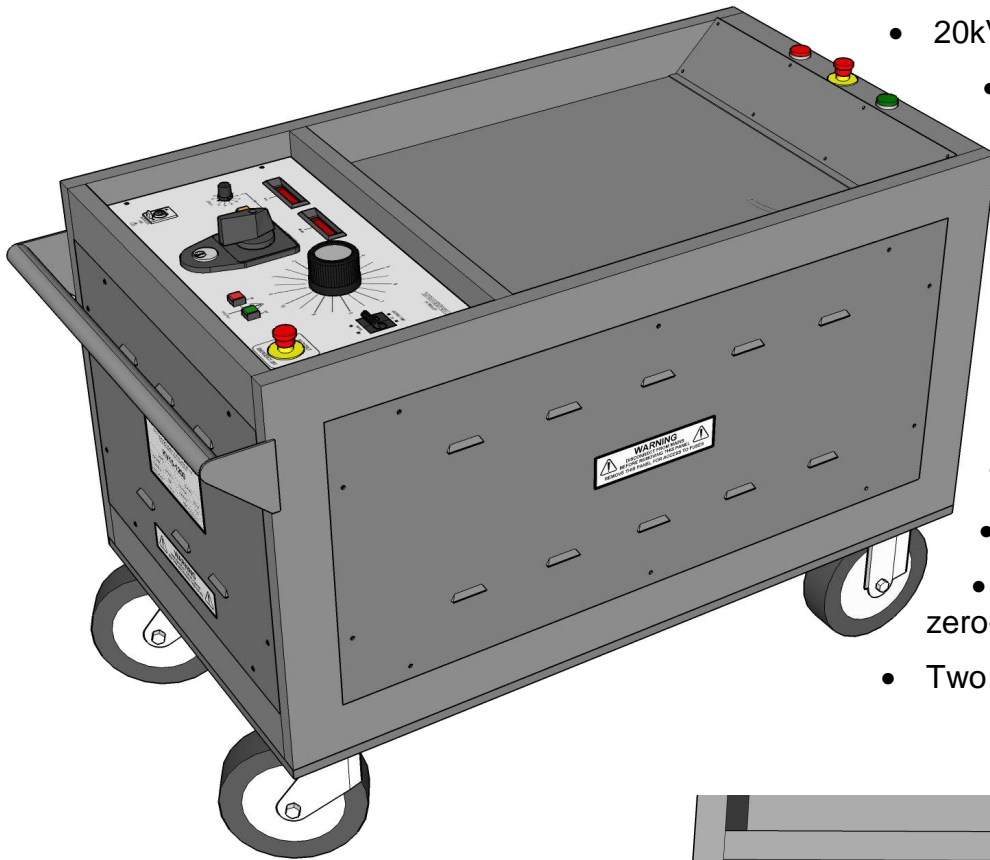


HV TROLLEY

High Voltage AC Test System

Features

- 20kVA output capability
- 0-3kV to 0-15kV options available
- Accurate digital metering
- Customisable to customer's requirements
- Key operated supply switch
- Dual overload protection
- Variable electronic trip 10-110% of rated output
- Voltage and current metering
- External 24V interlock and zero-volt interlock
- Two emergency stop switches



The HV trolley series of units are high power ac flash test sets with a 20kVA output capability. The maximum output voltage can be customised to be any voltage up to 15kV. The unit is housed in a rugged steel and aluminium enclosure with a cover to protect the control panel. It is mounted on 200mm wheels with solid rubber tyres and brakes to allow easy movement within a production environment.

Stowage is provided in the trolley for high voltage output lead, mains supply lead, earth leads and earthing stick. The HV output lead is 5m long and the mains lead is 15m long.

The HV trolley is provided with accurate digital voltage and current metering and a variable electronic trip. An external interlock input is also fitted to the unit.



T&R Test Equipment Ltd

HV Trolley Specification

Output

The output of the KV series units is by a 5m long screen high voltage cable terminated in a large clip. A 5m long silicone covered earth lead is provided to make the earth connection to the test object.

Ratings

Unit	Output voltage	Continuous rating	5 min on/ 15 minutes off
KV3-7000	0-3kV	3.5A	7.0A
KV5-4000	0-5V	2.0A	4.0A
KV8-2500	0-8kV	1.25A	2.5A
KV10-2000	0-10kV	1.0A	2.0A
KV12-1600	0-12kV	0.8A	1.6A
KV15-1200	0-15kV	0.6A	1.2A

Other voltages up to 15kV are available—please contact us to discuss your requirements.

Metering

The output voltage and current are metered using a true rms metering circuit. The output voltage measurement is taken from a divider on the output and will give accurate results regardless of load type.

Unit	kV meter full scale	kV meter resolution	kV meter accuracy
KV3-7000	3.000kV	1V	0.8%±6d
KV5-4000	5.000kV	1V	0.8%±6d
KV8-2500	8.000kV	1V	0.8%±6d
KV10-2000	10.00kV	0.01kV	0.8%±6d
KV12-1600	12.00kV	0.01kV	0.8%±6d
KV15-1200	15.00kV	0.01kV	0.8%±6d

Unit	mA meter full scale	mA meter resolution	mA meter accuracy
KV3-7000	7.000A	1mA	0.8%±6d
KV5-4000	4.000A	1mA	0.8%±6d
KV8-2500	2.500A	1mA	0.8%±6d
KV10-2000	2.000A	1mA	0.8%±6d
KV12-1600	1.600A	1mA	0.8%±6d
KV15-1200	1.200A	1mA	0.8%±6d

Control

The output voltage is set by a continuously variable output control with a zero volt interlock - the output may only be switched on with the control in the zero position. The output

voltage is switched on and off by illuminated push button switches. Extra on/off indicators are provided on the top of the unit.

The mains supply switch for the unit is a key operated switch. The key is trapped in the switch in the 'on' position.

Supply Requirements

400V ±10% 50/60Hz 2ph 22kVA max

The unit is fitted with a 15m supply lead. Other supply voltages are available on request.

Protection and Safety

The output of the units are protected by variable electronic trips monitoring the output current, and a fixed over-current trip on the primary of the output transformer. The variable trip is adjustable in 10% steps between 10% and 110% of the rated output current. The input and control supplies are protected by fuses.

Two emergency stop switches are fitted to the unit.

The HV trolley series are designed to meet the requirements of BS EN61010. The unit must be installed in a high voltage test area complying with the requirements of BS EN50191.

An earth terminal is provided on the unit which must be connected to a low impedance local earth.

Interlock Circuits

Two interlock circuits are provided on the HV trolley test systems. A zero voltage interlock is fitted which prevents the HV output being energised unless the output voltage control is in the zero position. An external interlock circuit is also provided, allowing the fitting of external emergency off buttons and test cage door interlocks.

Temperature Range

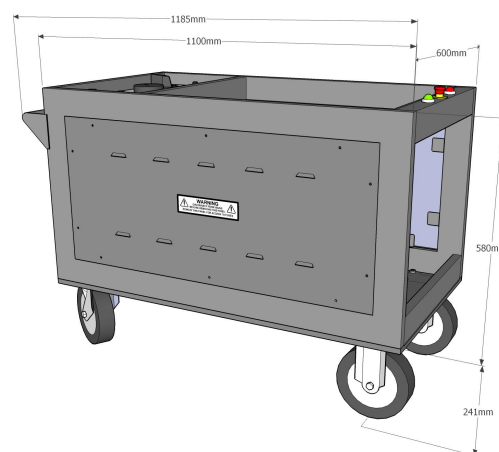
Storage -20°C to 60°C Operating 0°C to 45°C

Dimensions

1100 long x 600 wide x 820mm high inc wheels

Weight

240kg



Standard Accessories

1 x 5m earth lead terminated in croc clip.

1 x 5m earth lead for connection to local earth (M10 ring crimp).

1 x ES30 earth stick. Spare fuse set, operating manual.

Note: Due to the company's continuous research programme, the information above may change at any time without prior notification. Please check that you have the most recent data on the product.

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