

# INDUSTRIAL AC/DC TIG EQUIPMENT

## Transtig AC/DC 203iS & 353iS



**The Murex industrial Transtig AC/DC machines provide the best in TIG or MMA welding in either AC or DC process modes. Based on high frequency switching inverter technology, in combination with a software driven micro-processor based controller, they provide the ultimate in precision adjustment and control of welding parameters, and superb AC or DC performance.**

With a host of benefits like AC TIG without the need for continuous HF for arc maintenance, balanced electricity supply line draw, high efficiency and power factor, full pulsing facilities, digital metering of both welding current and voltage etc these machines offer unrivalled excellence.

The Transtig AC/DC 203iS and 353iS are designed, manufactured and fully tested to meet with the requirements of BSEN60974-1 "Safety Requirements for Arc Welding Power Sources" and also comply with BSEN50199 covering Electromagnetic Compatibility.

### Transtig Trolley Unit

The Transtig Trolley provides a convenient and safe way of transporting the Transtig AC/DC 203iS or 353iS power sources. The trolley has provision to carry the power source, water cooler and full size argon cylinder. The 203iS & 353iS power source sits at a convenient height and angle allowing clear visibility of, and access to, the operator controls. A convenient handle and large rubber wheels make moving the equipment around the shop easy.

### Trancool 351 Water Cooling Unit

This high efficiency torch water cooler has been designed for use with the Transtig AC/DC 203iS or 353iS TIG welding equipment and trolley unit, although it can also be used as a free standing unit with other similar welding plant. It operates from 230V single-phase electricity supplies (6.3A fuse). The all metal enclosure contains a moulded coolant reservoir tank, a reliable and powerful pump/motor assembly, a cooling fan and radiator, and water flow detection circuitry.

- State of the art 200A or 350A rated TIG/MMA equipment
- Unsurpassed welding characteristics and performance AC or DC
- Preset digital setting of all welding parameters, current, slopes and pulsing detail etc
- High visibility LED display of welding voltage, current, times, frequencies etc
- Powerful non-contact or lift-arc TIG arc initiation
- Both balance and frequency control for AC TIG
- Run all types of MMA electrodes (AC or DC running types) including cellulose
- Full remote control facilities with variable start point current
- Optional Trancool 351 TIG torch water cooler with audible low flow alarm
- Optional Transtig Trolley unit to carry power source, water cooler and gas cylinder
- Comply fully with all new safety directives – Low Voltage, EMC etc

## Technical Specification

	Transtig AC/DC 203iS	Transtig AC/DC 353iS
<b>Mains Supply</b>	400-440V 3Ph 50/60Hz	400-440V 3Ph 50/60Hz
<b>Fusing</b>	3x16A slow	3x32A slow
<b>kVA</b>	6 (5.4kW)	14 (13kW)
<b>PF</b>	0.9	0.9
<b>Current Range</b>	4-200A	4-350A
<b>TIG Rating</b>	200A 40% duty 160A 60% 135A 100%	350A 40% duty 300A 60% 250A 100%
<b>MMA Rating</b>	190A 35% duty 150A 60%	320A 35% duty 250A 60%
<b>OCV (max)</b>	65V	65V
<b>AC Frequency</b>	20 – 200Hz	20 – 200Hz
<b>AC Balance</b>	10 – 90%	10 – 90%
<b>Pulse Mode Frequency</b>	0.4 – 300Hz DC 0.4 – 2Hz AC	0.4 – 300Hz DC 0.4 – 2Hz AC
<b>Pulse Duty (mark:space ratio)</b>	30 to 65% (in 5% steps)	30 to 65% (in 5% steps)
<b>Background Current</b>	10 - 90% of main current	10 - 90% of main current
<b>Slope Down Time</b>	0.1 - 10 Seconds	0.1 - 10 Seconds
<b>Start/Crater Current (4T)</b>	10 - 90% of main current	10 - 90% of main current
<b>Post Purge Time</b>	0.5 - 30 Seconds	0.5 - 30 Seconds
<b>Remote Start Point Current</b>	4-100A	4-100A
<b>Dimensions (Power Source)</b>		
<b>Dimensions L x W x D</b>	510 x 240 x 500mm	520 x 290 x 540mm
<b>Weight (Net)</b>	30kg	40kg
<b>Standards</b>	EN60974-1 & EN50199	EN60974-1 & EN50199

Trancool 351 Cooling Unit	
<b>Electricity Supply</b>	230V 1-Phase 50Hz
<b>Fuse</b>	6.3A Slow
<b>Capacity</b>	5 Litres (excluding torch)
<b>Coolant</b>	Distilled or de-ionised water with 25% Glycol antifreeze
<b>Working Temperature</b>	47°C (300A/22V)
<b>Coolant Flow Rate</b>	1-2 Litres/minute
<b>Dimensions L x W x H</b>	510 x 290 x 250mm
<b>Weight</b>	17.5kg

## Ordering Information

Description	Part No
<b>Transtig AC/DC 203iS</b>	
<b>Air Cooled Package</b>	<b>0701416272</b>
<b>Comprises:-</b>	
Transtig AC/DC 203iS Power Source	0701416273
TG203 TIG Torch with 3.8m lead	0701415500
Torch Accessory Kit	0701410207
Work Return Lead 3.5m	0701409320
Vantage Flowmeter 14L/Min	0701300021
Saffire 300 Series 1ec Ar2	
TIG Regulator	0701282689
Gas Hose Assembly	0700606503
Instruction Manual	
<b>Transtig AC/DC 203iS</b>	
<b>Water Cooled Package</b>	<b>0701416272</b>
<b>Comprises:-</b>	
Transtig AC/DC 203iS Power Source	0701416273
Transcool 351 Water Cooling Unit	0701416542
TW253 TIG Torch with 3.8m lead	0701415500
Trolley	0701415510
Torch Accessory Kit	0701408023
Work Return Lead 3.5m	0701409320
Vantage Flowmeter 14L/Min	0701300021
Saffire 300 Series 1ec Ar2	
TIG Regulator	0701282689
Gas Hose Assembly	0700606503
Instruction Manual	
<b>Transtig AC/DC 353iS</b>	
<b>Water Cooled package</b>	<b>0701416274</b>
<b>Comprises:-</b>	
Transtig AC/DC 353iS Power Source	0701416275
Transcool 351 Water Cooling Unit	0701416542
TW451 TIG Torch with 4m lead	0701415026
Trolley	0701415510
Torch Accessory Kit	0700607583
Work Return Lead 5m	0701403214
Vantage Flowmeter 14L/Min	0701300021
Saffire 300 Series 1ec Ar2	
TIG Regulator	0701282689
Gas Hose Assembly	0700606503
BSP/Dins adaptor kit	0701414762
Instruction Manual	

## Optional Extras

Description	Part No
FC-5B Foot Control Unit	0000033646
5m Welding Lead & Electrode Holder	0701403213
TG203 TIG Torch with 7.6m lead	0701415023
TW253 TIG Torch with 7.6m lead	0701415501
TW452 TIG Torch with 8m lead	0701415027
2 Pin Torch Switch Plug	0701407817
BSP/Dins Adaptor Kit for TW451/452	0701414762

## Typical areas of application

Repair and maintenance, Pipe and tube manufacturing, General fabrication and civil construction, Automotive, Process Industry, Shipbuilding and offshore, Transport and mobile machinery.