

# LIGHT DUTY MIG COMPOSITES

Tradesmig 141/171/201 & 251



**The Tradesmig 141/171/201 and 251 are step controlled power sources in a compact design, intended for welding with solid steel, stainless steel or aluminium wire as well as tubular wire with or without shielding gas.**

With over 30 years of evolution and development since it first appeared on the market, the Murex Tradesmig name has become synonymous with build quality and unquestioned reliability in the repair and maintenance and light duty fabrication industry.

All Murex Tradesmigs are step-controlled MIG welding power sources with integral fully enclosed wire feed units. They are designed for welding steel, stainless steel, aluminium and they can also be used for MIG brazing. The Tradesmigs can use wires ranging from 0.6mm to 1.2mm in diameter depending on the machine selected.

The units are equipped with multi step voltage control switches and potentiometers for wire feed adjustment and easy setting of the welding parameters. All four machines are fan cooled and equipped with thermal overload protection.

## **Power Smoothing Device™**

The three larger Tradesmigs, the 171, 201 and 251 are also equipped with a Power Smoothing Device™. This gives excellent welding performance with CO<sub>2</sub> and mixed gases by providing a smooth welding current, often comparable with a more powerful 3ph machine.

- A range of compact, single phase, MIG composites for the light duty fabrication industry
- Easy polarity change allows the use of both conventional solid wire and self shielding cored wire
- Accurate control and setting of wire feed speed and welding parameters
- Power Smoothing Device™ available as standard on Tradesmig 171, 201 and 251 for enhanced performance
- Adjustable spot weld and burn back timer on the Tradesmig 171, 201 and 251
- All Tradesmig packages are supplied with a Murex MIG torch – the MXL for the Tradesmig 141 and an MXE torch for the 171, 201 and 251

## Technical Specification

	Tradesmig 141	Tradesmig 171	Tradesmig 201	Tradesmig 251
<b>Mains Voltage</b>	230-240V, 1~50/60Hz	230-240V, 1~50/60Hz	230-240V, 1~50/60Hz	230-240V, 1~50/60Hz
<b>Permissible load at:</b>				
100% duty cycle	42A/16.1V	76A/17.8V	90A/18.5V	110A/19.5V
60% duty cycle	54A/16.7V	98A/18.9V	115A/19.7V	140A/21V
30% duty cycle	-	-	-	200A/24V
25% duty cycle	-	155A/21.7V	-	-
20% duty cycle	100A/17V	170A/21V	200A/23V	250A/21V
<b>Setting Range (DC)</b>	35A/15.7V-83A/18.2V (130A/13.4V)	30A/15.5V-155A/21.7V (170A/21V)	30A/15.5V-185A/23.3V (200A/23V)	40A/16V-200A/24V (250A/21V)
<b>Open circuit voltage</b>	18.7-25.1V	22.4-44.5V	19.6-44.9V	19-41.5V
<b>Open circuit power</b>	75W	270W	120W	200W
<b>Power factor at max load</b>	0.91	0.91	0.89	0.92
<b>Control Voltage</b>	230-240V, 50/60Hz	42V, 50/60Hz	42V, 50/60Hz	42V, 50/60Hz
<b>Wire feed speed</b>	2.0-14m/min	1.0-17m/min	1.0-17m/min	1.9-19m/min
<b>Burnback time</b>	-	0.02-2.5s	0.02-2.5s	0-2.5s
<b>Spot welding</b>	-	0.2-2.5s	0.2-2.5s	0.2-2.5s
<b>Welding gun connection</b>	FIXED	EURO	EURO	EURO
<b>Wire dimension range</b>	0.6-0.8 (Fe) 1.0 (Al) 0.8 (cored) 0.8 (CuSi)	0.6-0.8 (Fe) 1.0 (Al) 0.8 (cored) 0.8-1.0 (CuSi)	0.6-1.0 (Fe) 1.0 (Al) 0.8-1.0 (cored) 0.8-1.0 (CuSi)	0.6-1.2 (Fe) 1.0-1.2 (Al) 0.8-1.2 (cored) 0.8-1.0 (CuSi)
<b>Max diameter/weight of wire bobin</b>	200mm/5kg	300mm/15kg	300mm/15kg	300mm/15kg
<b>Dimensions L x W x H</b>	650 x 300 x 550mm	860 x 420 x 730mm	860 x 420 x 730mm	860 x 420 x 730mm
<b>Weight</b>	25kg	62kg	70kg	92kg
<b>Operating temperature</b>	-10 to +40°C	-10 to +40°C	-10 to +40°C	-10 to +40°C
<b>Enclosure class</b>	IP23	IP23	IP23	IP23
<b>Application class</b>	S	S	S	S

\* The minimum current during AC welding depends on the alloy used for the aluminium plates and their surface cleanliness

### Ordering Information

Description	Part No
<b>Tradesmig 141 Package</b>	<b>0349311670</b>
<b>Comprises:-</b>	
Tradesmig 141 Power Source-MXL Torch Leads	
3m return cable with return clamp.	
Instruction Manual	
<b>Tradesmig 171 Package</b>	<b>0479100222</b>
<b>Comprises:-</b>	
Tradesmig 171 Power Source	0349311660
MXE 20-30 3m torch lead	0701415788
Saffire 300 series 1ec	0701282684
Arc 35L Regulator	
Instruction manual	

Tradesmig 201 Package	0479100223
<b>Comprises:-</b>	
Tradesmig 201 Power Source	0349311650
MXE 20-30 3m torch lead	0701415788
Saffire 300 series 1ec	0701282684
Arc 35L Regulator	
Instruction manual	
<b>Tradesmig 251 Package</b>	<b>0479100224</b>
<b>Comprises:-</b>	
Tradesmig 201 Power Source	0349311640
MXE 25-30 3m torch lead	0701415790
Saffire 300 series 1ec	0701282684
Arc 35L Regulator	
Instruction manual	

### Typical areas of application

Repair & maintenance, garages, body shops, agricultural engineers, sheet metalwork and general fabrication.

### Optional Extras

Description	Part No
3.5m Work Return Lead	0701409320
Feed roll 0.6-0.8mm Fe,SS,C	0367556001
Feed roll 0.8-1.0mm Fe,SS,C	0367556002
Feed roll 1.0-1.2mm Fe,SS,C	0367556003
Feed roll 1.0-1.2mm Al	0367556004

**NOTE: The Tradesmig 171/201 and 251 Power Sources are supplied with:**  
3m return cable with return clamp. Gas cylinder shelf (fitted with 2 screws). Instruction manual.