



The Transweld Challenger 400 is a step switch power source designed for MIG/MAG welding with the Transmatic 4C wire feed unit.

The units are robust industrial MIG welding packages designed for use in a wide range of general fabrication applications. The Transweld Challenger 400 power source and Transmatic 4C wire feed unit are both constructed using a sturdy galvanised case. The 4 wheel feed mechanism of the Transmatic 4C has grooved feed rollers and an idle pressure roller for positive and stable feeding.

The power units are fan cooled and equipped with thermal overload protection. The machines can be fitted with an instrument that displays current and voltage. It incorporates a hold function and can be calibrated.

- Ideal for welding applications within the general steel fabrication sector
- Available with or without digital meters
- Supplied complete with fitted undergear
- Fitted with IEC 3 phase mains plug
- Equipped with wire inch and gas purge
- Suitable for wire diameters 0.6mm to 1.6mm
- Electronically controlled feeding provides stable and consistent results
- Industry beating 40 voltage steps for accurate setting
- Transmatic 4C designed to meet the most rigid safety standard IEC/EN 60974-1

Technical Specification

Transweld Challenger 400	
Mains Voltage	400-415 V, 3-50/60Hz
Permissible load at	
100% duty cycle	280A/28V
60% duty cycle	365A/32V
30% duty cycle	400A/34V
Setting range (DC)	50A/16.5V – 400A/34V
Open circuit power	360W
Open circuit voltage	17-35V
Efficiency at maximum current	71%
Power factor at maximum current	0.98
Control voltage	42V, 50/60 Hz
Operating temperature	-10 to +40°C
Dimensions L x W x H	812 x 552 x 925mm
Weight	142kg
Enclosure class	IP23
Application class	S

Transmatic 4C	
Power supply	42V, 50/60Hz
Power requirement	336V A
Motor current I_{max}	3.5A
Wire feed speed	1.5-22.0m/min
Burnback time	0-0.7s
Gun connection	EURO
Max diameter wire bobbin	300mm
Wire dimension	
Fe	0.6-1.6
Ss	0.6-1.2
Al	1.0-1.6
Cored Wire	0.8-1.6
Weight	13.2kg
Dimensions L x W x H	569 x 259 x 355mm
Shielding gases	for MIG/MAG welding
Max pressure	5 bar
Max permissible load at	
100% duty cycle	280A
60% duty cycle	365A
Enclosure gas	
Basic version	IP2X
With sealed bobbin holder*	IP23
With MarathonPac™	IP23



Ordering Information

Description	Part No
Transweld Challenger 400	
Package (without meters)	0701416525
Comprises:-	
Transweld Challenger Power Source	0349308110
MXA 363B MIG torch 3m Lead	0701415032
Transmatic 4C wire feed unit with 5m interconnections (Includes 1.0-1.2H feed roll)	0459495884
Instruction manual	
Transweld Challenger 400	
Package (with meters)	0701416527
Comprises:-	
Transweld Challenger Power Source with meters	0349308120
MXA 363B MIG torch 3m Lead	0701415032
Transmatic 4C wire feed unit with 5m interconnections (Includes 1.0-1.2H feed roll)	0459495884
Instruction manual	
Optional Extras	
Description	Part No
Digital Meter Kit	0349302451
10m Interconnections	0459532882
Feed roll 0.6-.08mm Fe, SS	0369557001
Feed roll 0.8-1.0mm Fe, SS	0369557002
Feed roll 1.0-1.2mm Fe, SS	0369557003
Feed roll 1.0-1.2mm FCW	0369557004
Feed roll 1.0-1.2 Al	0369557006
Saffire 300 series 1ec Arc 35L regulator	0701282684

Typical areas of application

Agricultural engineers, structural steel, automotive, shipbuilding, offshore and general fabrication.

NOTE: The power source is supplied with:
5m Return cable with return clamp, Shelf for gas cylinder, Guide pin for wire feed unit, Instruction manual