

RANGER 403 / RANGER 503 MIG / MAG WELDING OUTFITS

Most Reliable and Dependable Thyristor based welding power source, suitable for MIG/MAG Semiautomatic and Automatic welding applications.



- Light weight, Compact design of Power source, Wire feeder and Torch.
- Crater Voltage and Current control possible with ON/OFF switch.
- LED Indications for Mains ON and Trip signal.
- Fresh Tip Transfer Technique keeps the tip ready without globule formation for next welding cycle.
- Protection against over heating and very high secondary short circuit current.
- Flux core or solid wire selection switch and Gas check Toggle switch on front panel.
- Special construction of transformer - resulting faster response time and Excellent Arc dynamics.
- Analog voltage and current meters on front panel.
- Wheels for easy movement of machine on the shop floor.



WELDERS TO THE NATION SINCE 1951
ADOR WELDING LIMITED

(Formerly Known as Advani-Oerlikon Ltd.)
www.adorwelding.com



RANGER 403 & RANGER 503

The new world class thyristor based MIG / MAG welding outfits



DETAILS OF COMPLETE SYSTEM:

The complete system consists of power source, wire feeder, torch and interconnecting cables along with Co2 or Argon gas regulator cum flow meter and preheater. Remote control provided along with outfit enable user to set voltage and current while welding.

Various combination of complete system (outfits) are given in the Ordering Information.

SPECIFICATIONS

TECHNICAL SPECIFICATIONS : POWER SOURCE		UNIT	TCVR 403	TCVR 503
INPUT				
Input Supply Voltage		Volt	415 V +10 %, - 10 %	415 V +10 %, -10 %
Phase		No	3 Ø	3 Ø
Frequency		Hz	50	50
Max. Input KVA		KVA	21	27
@ 100% duty cycle				
@ 60% Duty cycle		KVA	24	32
Max Input Current		Amp	34	46
OUTPUT				
Output Characteristics		Type	CV (Constant Voltage)	CV (Constant Voltage)
Open Circuit Voltage		Volts	62V+/-3V	62V+/-3V
Welding Current Range		Amp	60-400	60-500
@ 60% duty cycle		Amp	400	500
@ 100% duty cycle		Amp	310	390
Welding Voltage Range		Volt	16-39	16-45
Remote Control			Provided on wire feeder	Provided on wire feeder
Preheater Supply		Volts	110V / 50Hz	110V / 50Hz
PROTECTIONS				
Thermal Over current		°C Amps	Thermostat on Heat sink Electronic	
GENERAL				
Suitable welding wire diameter		mm	MS / SS 0.8,1.0,1.2,1.6, AL 1.2,1.6, FCAW 1.2, 1.6	
Cooling		Type	Forced Air	
Insulation class		Class	H	
Protection		Class	IP 23	
Dimensions (approx.) (W X L x H)		mm	440 X 705 X 835	440 X 705 X 835
Weight		Kg	160	175
TECHNICAL SPECIFICATIONS : WIRE FEEDER		UNIT	FEEDLITE 20 (PN)	FEEDLITE 40 (PN)
Drive Unit		Type	2 Roll with Print circuit Motor	4 Roll with Print circuit Motor
Motor Voltage		Volt DC	18.3	18.3
Wire Speed		Merter/min	1.2-18	1.2-18
End Connection for Torch			Euro Type	Euro Type
Solenoid Valve Voltage		V	24	24
Wire Spool Capacity		Kg	15	15
Suitable for Wire Ø		mm	0.8, 1.0, 1.2, 1.6 mm	0.8, 1.0, 1.2, 1.6
Inch Switch			On Wire Feeder	On Wire Feeder
Dimensions (L x W x H)		mm	460 x 200 x 280	460 x 200 x 280
Weight		Kg	9	9
TECHNICAL SPECIFICATIONS : TORCH		UNIT	ADOR-TW 400 (E)	
Rating		A	320A @ 60% Duty cycle with CO2 gas 300A @ 60% Duty cycle with mixed gas	
End Connection to Torch		Type	Euro	
Suitable for Wire Ø		mm	0.8, 1.0, 1.2, 1.6	
Torch Length		meter	3	

ORDERING INFORMATION

MODEL / OUTFIT	POWER SOURCE	WIREFEEDER	TORCH	PRODUCT CODE
Ranger 403 - A	TCVR - 403	FEEDLITE - 20 (PN)	ADOR-TW 400 (E)	F10.37.101.0042
Ranger 403 - B	TCVR - 403	FEEDLITE - 40 (PN)	ADOR-TW 400 (E)	F10.37.101.0047
Ranger 403 - C	TCVR - 403	FEEDLITE - 20 (PN)	MTG - 400 (E)	F10.37.101.0073
Ranger 503 - A	TCVR - 503	FEEDLITE - 20 (PN)	ADOR-TW 400 (E)	F10.37.101.0044
Ranger 503 - B	TCVR - 503	FEEDLITE - 40 (PN)	ADOR-TW 400 (E)	F10.37.101.0048

- **Warranty:** One year from the date of purchase. ADOR WELDING LIMITED warrants that all new equipment sold from Plant/Area Offices / Authorised Distributors are free from defects in materials and workmanship and will perform in full accordance with applicable specifications.
- In view of continuous development, ADOR WELDING LIMITED reserves the right to modify/change the design and /or the specifications without any prior notice.
- Backed by dedicated customer care package.



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