



SILENT CHALLENGER 401



New Generation Diesel Engine Driven Silent Welding Set
Conforming to Latest CPCB II Norms



SALIENT FEATURES

- Conforming to latest CPCB norms for noise & exhaust emission level
- Versatile applications, including cross country, inplant pipe and tube welding
- Ideal for heavy fabrication & site applications
- Highly reliable even in hostile site conditions
- Big savings in fuel & longer runs before next refueling
- Specially proven with Cellulosic (6010, 7010G & 8010G types) and other special types of electrodes
- Excellent Pre and Post Sales Services
- Super Silent Operations
- Capable of Arc Cutting with up to 4 mm Arc Cutting Electrode

SPECIFICATIONS

Technical Specifications	Unit	Value
Machine Name		SC 401
CPCB compliance	Type	Meets CPCB - II compliance for Exhaust Emission and Noise within 75 dba at 1 mtr
Welding Generator		
Welding Generator	Type	Brushless type, high frequency generator, specially designd for welding applications, constant current (CC) characteristic with winding less, commutator less, magnet less, slipring less and rotating diode less rotor construction for maintenance free and reliable operation
Welding process	Type	SMAW (Shielded Metal Arc Welding)
Operators	No	Single
Welding current range	Amps	50 - 400
Max. hand welding current	Amps	400
Max. hand welding current @ 60% DC	Amps	400
Max. hand welding current @ 100% DC	Amps	310
Open circuit voltage (Max. / Min)	Volts	100/45
Diameter of coated electrode	mm	2.5-6.3
Insulation Class	Type	H

Cont.

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Cont.

Engine Make, Type		SIMPSON, SJ327T CPCB-II Compliant	
Cylinder	No.	3	
Rated engine Speed	RPM	1800	
Engine Cooling	Type	Water Cooled	
Engine Rating	BHP	38.5 BHP @ 1800 RPM	
Conforms to	Standard	IS 10002(BI)	
Starting	Type	Electric (Battery 12 V, 75 AH)	
Fuel Consumption @ 60% Duty Cycle	Ltrs./Hrs.	4.0 ltrs/hr @ 100% Duty Cycle	
Fuel tank Capacity	Ltrs.	70	
Meters/Gauges/Indications	Type/Detail	Lube oil pressure, Fuel level Indication, Battery charging current, Charging failure warning lamp, Engine speed, Hour Meter etc.	
OPTIONAL Engine Safety Protection	Type	Engine Auto Shut off in the event of low lube oil pressure	
Arc Cutting		Arc Cutting with upto 4 mm Cutting Electrode	
Auxiliary Power Source (Indicates rating with simultaneous welding load)			
Rating	KVA	10	3
Voltage	Volts	415	240
Phases	No	3	1
MCCB Rating	Amps	16	
Output Sockets	No	2	
General (Dimensions & Weight)			
Skid Mounted :			
Length/Width/Height	mm	2000 x 820 x 1460	
Weight (Net)	Kg	1100	
Two Wheel Mounted :			
Length/Width/Height	mm	2900 x 1455 x 1990	
Weight (Net)	Kg	1240	
Four Wheel Mounted :			
Length/Width/Height	mm	2900 x 1555 x 1990	
Weight (Net)	Kg	1340	

- **Warranty** : One year from the date of commissioning. 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.