



SILENT CHALLENGER 501



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
- Big savings in fuel and longer runs before next refueling
- Arc Cutting and Gouging capability. Maximum size of Gouging Electrode is 6 mm
- Specially proven with Cellulosic (6010, 7010G & 8010G types) and other special types of electrodes
- Excellent Pre and Post Sales Services
- Ideal for heavy fabrication & site applications
- Highly reliable even in hostile site conditions
- Super Silent Operations

SPECIFICATIONS

| Technical Specifications | Unit | Value |
|-------------------------------------|-------|--|
| Machine Name | | SC 501 |
| 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 opertaion |
| Welding process | Type | SMAW (Shielded Metal Arc Welding) |
| Operators | No | Single |
| Welding current range | Amps | 50 - 500 |
| Max. hand welding current | Amps | 500 |
| Max. hand welding current @ 60% DC | Amps | 500 |
| Max. hand welding current @ 100% DC | Amps | 400 |
| 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 @ 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 of in the event of low lube oil pressure or High Cylinder Head Temperature | |
| Gouging and Arc Cutting | | Capable of Gouging with upto 6 mm Gouging Electrode | |
| Auxiliary Power Source (Indicates rating with simultaneous welding load) | | | |
| Rating | KVA | 10 | 3 |
| Voltage | Volts | 415 | 240 |
| Phases | Nos | 3 | 1 |
| MCCB Rating | Amps | 16 | |
| Output Sockets | Nos | 2 | |
| General (Dimensions & Weight) | | | |
| Skid Mounted : | | | |
| Length/Width/Height | mm | 1995 X 820 X 1520 | |
| 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 | 3435 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.