

SILENT CHALLENGER 400 K3

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



UNIQUE DESIGN!!!
DESIGNED AND BUILT
WITH AIR COOLED ENGINE
FOR EXTRA RELIABILITY
AND FUEL SAVINGS!

- Virtually maintenance free Engine driven, **Brushless welding set with windingless rotor** and **Air cooled Diesel Engine**, requiring very **minimal maintenance**
- Fully integrated cooling system for both engine and welding generator - needs only one cooling medium, no need of water, antifreeze or inhibitors, require just air from the atmosphere
- **Light weight and most compact Engine driven CPCB compliant welding set available in domestic market**
- Most recommended for versatile site welding applications including cross country pipeline, city gas pipeline and inplant pipeline welding etc
- Ideal for heavy fabrication, rebuilding and maintenance welding applications at site-works efficiently in all climatic conditions
- Robust mechanical design makes it highly reliable even in hostile site conditions
- Big savings in fuel consumption and longer runs before next refueling - lesser operating cost
- Specially proven with cellulosic 6010, 7010G and 8010G and other special electrodes
- Fewer spare parts required - no brushes, rotor windings, water hoses, water pumps, radiators etc
- Super silent operation



WELDERS TO THE NATION SINCE 1951
ADOR WELDING LIMITED

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



SILENT CHALLENGER 400K3

Built for extra Reliability and Fuel Savings



TECHNICAL SPECIFICATIONS

MODEL	UNIT	SC 400K3	
CPCB compliance		Meets CPCB 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	Nos.	Single	
Welding current range	Amps	40 - 400	
Max. hand welding current	Amps	400	
Max. hand welding current @ 60% duty cycle	Amps	400	
Max. hand welding current @ 100 % duty cycle	Amps	310	
Open circuit voltage (Max. / Min)	Volts	100 / 45	
Diameter of coated electrode	mm	2.5 - 6.3	
Insulation Class	Type	H	
ENGINE			
Make		Kirloskar Oil Engines	
Type		HA 394 (equivalent to Deutz 912 series)	
Cylinder	Nos	3	
Rated engine speed	RPM	1500	
Engine cooling	Type	Air cooled	
Engine rating	BHP	31.5 @ 1500 rpm ICXN	
Conforms to	Standard	ISO 3046	
Starting	Type	Electric (Battery 12 V, 75 AH)	
Fuel consumption @ 60% duty cycle	Ltr/hr	1) 130 Amp - 2.4 ltrs/hr 2) 160 Amp - 2.5 ltrs/hr 3) 250 Amp - 3.1 ltrs/hr	
Fuel tank capacity	Ltrs	55	
Meters/Gauges/Indications	Type / details	Lube oil pressure, Fuel level indication, Battery charging current, Chaging failure warning lamp, Engine Speed, Hour meter, etc	
Engine safety protections	Type	Engine auto shut off in the event of low lube oil pressure (or) belt failure (or) high cylinder head temperature	
AUXILIARY POWER SOURCE (indicates rating with simultaneous welding load)			
Rating	KVA	8	3
Voltage	Volts	415	240
Phases	Nos	3	1
MCCB rating	Amps	16	
Output Sockets	Nos	2	
GENERAL (Dimensions & Weight)			
LxWxH (Skid mounted)	mm	2000x820x1150	
Weight(net)	Kg	980	
LxWxH (2 wheel mounted)	mm	2950x1455x1700	
Weight(net)	Kg	1120	
LxWxH (4 wheel mounted)	mm	3400x1455x1700	
Weight (net)	Kg	1220	
ORDERING INFORMATION		PRODUCT CODE	
Standard Power Source-Skid mounted set		F10.33.103.0049	
Standard Power Source-2Wheel mounted set		F10.33.103.0050	
Standard Power Source-4Wheel mounted set		F10.33.103.0051	
Optional Accessories			
1000hr Mandatory Engine maintenance kit		S10.64.101.0006	
Welding accessories - WAC 400		S10.64.001.0014	
Amp/Volt meter attachment -DPAV 400		S10.64.001.0021	
Spark arrestor		S10.64.101.0021	

- **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.



WELDERS TO THE NATION SINCE 1951
ADOR WELDING LIMITED

(Formerly Known as Advani Oerlikon Ltd.)

www.adorwelding.com

5/A, Corpora, L. B. S. Marg, Bhandup (West), Mumbai - 400 078. INDIA

Tel: +91 22 6623 9300/35, 2596 2564/2596 8326. Fax: +91 22 2596 6562/6062 Email: cmo@adorians.com

