



FontechTornado

Switch over to the latest inverter technology

FONTECH TORNADO 202i with VRD

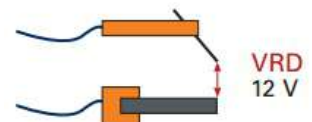


FEATURES

- Light weight and compact single phase welding rectifier
- IGBT inverter based energy saving and efficient power source
- Digital display and precise presetting of welding current
- Arc-force adjustment option on front panel for better arc striking
- Suitable for MMA and TIG welding with scratch start process

VRD - Voltage Reduction Device

VRD device reduces the open circuit voltage to values below 12 V by enabling the use of the machine in highly hazardous environments for the operator's maximum safety.



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FONTECH TORNADO 202i

DC Arc Welding Machine

FONTECH TORNADO 202i is a DC arc welding machine broadly used in various industries like chemical, automobile, shipbuilding, boiler manufacturing and defence. It is also ideal for field operations of oil pipeline, construction of power station, nuclear energy, aerospace, industrial installation and bridge construction, etc.

TECHNICAL SPECIFICATIONS

DESCRIPTION	UNIT	FONTECH TORNADO 202i	
Input voltage	V	230 V AC ($\pm 10\%$); 1 ph; 50Hz	
Rated input capacity	KVA	9.4	
Welding current at	60% duty cycle	A	200
	100% duty cycle	A	155
Open circuit voltage	V	70	
Output current range	A	20-200	
Efficiency	%	>85	
Insulation	Type	F	
Protection	Type	IP 21S	
Weight	Kg	8	
Dimensions (L x W x H)	mm	430 X 168 X 312	

Standard Scope of supply

- 200 Amps power source
- Quick connector 2 nos

OPTIONAL ACCESSORIES	PART NO.
Electrode holder	TOEH250-0
Earthing clamp	TOEC250-0
Gloves	COMMNGLOVES-0
Welding goggle	GOGGLEBLACK-0
Hand shield	COMMNSHILDGLS-0
Welding helmet	COMMNHELMET-0





FontechThunder

DC POWER SOURCE FOR MMA WELDING WITH IGBT BASED INVERTER TECHNOLOGY

FONTECH THUNDER-i 400 with VRD



FEATURES

- Step less control of all the welding parameters.
- Excellent welding characteristics in MMA with any kind of electrodes and in TIG with “lift” mode.
- Low energy consumption.
- High reliability when used with generator sets.
- Automatic compensation for input voltage fluctuations within + 10% /- 15%.
- Digital Ammeter and Voltmeter with welding current preset.
- Selection switch for activating VRD function.
- Option for remote control function.
- Reduced weight and size, easy-to-carry innovative and compact design.
- Adjustable HOT START to improve arc striking with the most difficult electrodes.
- Adjustable ARC FORCE to choose the best arc dynamic characteristics.
- Electrode Antistick function.

VRD - VOLTAGE REDUCTION DEVICE

VRD device reduces the open circuit voltage to values below 12 V enabling the use of the machine in highly hazardous environments ensuring operator’s maximum safety.



VRD 12V



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FONTTECH THUNDER-i 400

DC power source for MMA with IGBT based inverter technology, these DC power sources have excellent arc characteristics which can be used with any electrode for getting high quality welds. Suitable for fabrication, shipyards, steel construction, pipe welding and maintenance.

TECHNICAL SPECIFICATIONS

DESCRIPTION	UNIT	FONTTECH THUNDER-i 400
Input voltage	V	415 V AC(+10 %/-15 %)
Phase	Ph	3
Frequency	Hz	50
Rated input capacity	KVA	17
Rated input current	A	30
Open circuit voltage	V	72
Current range	A	30-400
Welding current at	60% duty cycle	400
	100% duty cycle	310
Power factor	cos ϕ	0.9
Efficiency	%	>85
Insulation	Class	H
Protection	Type	IP 23
Dimensions (L x W x H)	mm	525x261x525
Weight	Kg	26

Standard Scope of supply

- ! Power source
- ! Electrode holder
- ! Earthing clamp
- ! Fast plug

Ordering code: 81020000090-0

OPTIONAL ACCESSORIES	PART NO.
Remote control unit with 10 mtrs cable	68010000130-0
Gloves	COMMNGLOVES-0
Hand shield	COMMNSHILDGLS-0
Welding helmet	COMMNHELMET-0
Welding goggle	GOGGLEBLACK-0



FONTECH TORNADO 401 WITH VRD



INVERTER POWER SOURCE FOR MMAW

FONTECHTORNADO 401

FONTECHTORNADO 401 is manual arc-welding power source with IGBT inverter technology. Ideally suitable for continuous use for heavy fabrication. Excellent power saving and compact weight.

FEATURES

- MMA / Lift arc selection switch
- Digital display for voltage and current
- High quality and stable performance.
- High duty cycle.
- Stable arc and excellent welding seam.
- Adjustable arc force & hot start current.
- Suitable for all acid, basic, stainless, low hydrogen electrodes.
- Suitable for up to 5 mm electrodes.

TECHNICAL SPECIFICATIONS

DESCRIPTION	TORNADO 401
Input voltage	415 (\pm 10%) V
Phase	3
Frequency	50 Hz
Open circuit voltage	72 V
Output current range	30-400 A
Welding current	
at 60% duty cycle	400 A
at 100% duty cycle	310 A
Rated input power	18 KVA
Rated output voltage	36 V
Efficiency	>85 %
Insulation	F
Protection	IP 21S
Dimension (WxLxH)	525x262x450 mm
Weight	22 Kg

FONTECH TORNADO 401 WITH VRD



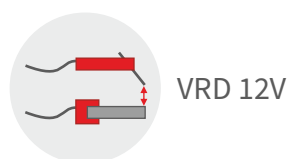
INVERTER POWER SOURCE FOR MMAW

STANDARD SCOPE OF SUPPLY

- Power source
- Electrode Holder with 3 Mtr Welding cable
- Earthing clamp with 3 Mtr Welding cable

VRD - VOLTAGE REDUCTION DEVICE

VRD device reduces the open circuit voltage to values below 12 V by enabling the use of the machine in highly hazardous environments for the operator's maximum safety.



OPTIONAL ACCESSORIES

ITEMS	PART NO.
Electrode holder	TOEH600-0
Earthing clamp	TOEC600-0
Gloves	COMMNGLOVES-0
Welding goggle	GOGGLEBLACK-0
Hand shield	COMMNSHILDGLS-0
Welding helmet	COMMHELMET-0



FONTECH TORNADO MIG400S



SEMI-AUTOMATIC GAS SHIELDED METAL-ARC WELDING MACHINE (CO₂/MAG/MIG)

FONTECH TORNADO MIG400S

FONTECH TORNADO MIG 400 S is a semi-automatic gas shielded metal-arc welding machine with IGBT inverter technology, which consist of power source and wire feeder. The machine has the characteristics of stable welding process, low spatter and good weld. The molten pool is easy to control, operation is simple and efficiency is high. Suitable for all position welding of common low carbon steel, stainless steel, aluminum and its alloys, etc.

FEATURES

- Advanced inverter technology with dynamic response.
- Energy efficient & high duty cycle power source.
- Light weight and compact design.
- Power source with CC / CV option.
- Hot-start & arc force adjustment on front panel.
- Adjustable crater current & voltage facility.
- Universal power source for MIG, MMA , TIG, scratch start process.

TECHNICAL SPECIFICATIONS

DESCRIPTION	TORNADO MIG400S
Input voltage	415 (± 10%) V AC
Phase	3
Frequency	50 Hz
Open circuit voltage	76 V
Output current range	50-400 A
Rated input capacity	17 KVA
Rated input current	28 A
Welding current	
at 60% duty cycle	400 A
at 100% duty cycle	310 A
Efficiency	>85 %
Insulation class	H
Protection class	IP 23
Weight	32 Kg
Dimensions (LxWxH)	634x295x521 mm

FONTECH TORNADO MIG400S



SEMI-AUTOMATIC GAS SHIELDED METAL-ARC WELDING MACHINE (CO₂/MAG/MIG)

FEATURES

- Precise feed control for arc accuracy and stability.
- Suitable option for flux cored & solid wires.
- Welding control mounted on front panel of wire feeder.
- Four wheel drive for consistency in wire feed with creep feeding.
- 2/4 stroke facility.
- Gas purge and wire inching.
- Encapsulated wire spool casing.
- Wire feeder with handle for easy portability.
- Torch mounting bracket on side panel of enclosed wire feeder.

OPTIONAL ACCESSORIES

ITEMS	PART NO.
Electrode holder 600	TOEH600-0
Gloves	COMMNGLOVES-0
Welding helmet	COMMNHMET-0
Co ₂ regulator (I)	COMMCO2REGL-0
Argon regulator (I)	ARGONREGULATOR-0
Co ₂ regulator (II)	CO2REGULATORFMDS-0
Argon regulator (II)	ARGONREGULATOR2-0
Gas hose	COMMNGASHO-0
Trolley	
MIG torch	
MB 36HD 3M-350A	TOMB36HDEVO-0
MIG torch-MB 36KD 3M	TOMB36KD-0
MIG torch	
MB-40 HD 3M	TOMB40-0

TORNADO

Switch over to the latest inverter technology

TORNADO SAW M-1250



Features

- Alternation of characteristic of constant voltage / current
- Wide range of output current
- Welding current and welding voltage as well as travel speed of welding tractor can all be present and displayed digitally
- Adjustable arcforce, welding current and welding voltage
- Remote/panel control selection
- MMA welding and air carbon arc gouging with suitable carbon electrode
- Protective functions: over-current, under-voltage and over-load
- Tractor traveling mode and direction control function
- Welding head site adjustment function.



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TORNADO SAW SERIES

Submerged Arc Welding Machine - M-1250

TORNADO SAW Series products are automatic submerged-arc welding machines with IGBT inverter technology, which consist of large capacity arc welding power source and welding tractor. They are suitable for any kinds of steel ($\varnothing \geq 5$ mm).

Technical Specifications	UNIT	M-1250
Rated Input Voltage	V	415 \pm 15%
Rated input capacity	KVA	65
Phase	No.	3
Frequency	Hz	50
Rated duty cycle	A/V	60% 1250 / 44
Input current (max)	A	100
Open circuit voltage	V	71
Voltage adjusting range	V	20~50
Current adjusting range	A/V	150/26 ~ 1250/44
Wire-feed rate range	m/min	0.5 ~ 2.5
Suitable welding wire dia	mm	3.0 ~ 5.0
Power factor	%	0.9
Efficiency	%	\geq 0.80
Insulation	Class	H
Protection Type		IP 23
Dimensions (W x L x H) (PS)	mm	810 x 345 x 1022
Dimensions (W x L x H) (tractor)	mm	1038 x 480 x 628
Net weight (PS)	Kgs	110
Net weight (tractor)	Kgs	50

STANDARD ACCESSORIES

Arc welding power source

Welding tractor

Inter connection cable package

Guide rail



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