



System-controller FPA 2020 AC/DC

Orbital welding power source with integrated microprocessor-controller

Standard equipment

FPA 2020 Orbital system-controller
 Integrated inverter power source 200 A, single phase
 Generator compatible
 Integrated water cooling
 Small, compact and transportable
 Mountable on carriage
 Mains cable 2,5 m with plug
 Integrated gas pressure and water flow control
 Touch-screen operation with graphical process-visualisation (colour)
 Simple programming via intuitive menu
 Language selection (DE/GB/FR/IT/ES/PB/RU)
 USB-Stick 512 MB (load/save/backup)
 Installed printer for easy data-documentation
 Synergic-Mode (Material, pipe outside diameter, wall thickness, gas,...)
 Auto-diagnostic-system (Error-code)
 Addressing rotation axis, torch and wire feeder
 Optimum control of weld process via remote control unit

Display during weld cycle:

- Welding current (A)
- Arc voltage (V)
- Torch position (degree)
- Welding speed (cm/min)
- Wire feed speed (cm/min)

Programming welding parameter:

- Internal memory (200 programs)
- 3 special tack programs with up to 20 tack points
- 10 sectors/program free definable

Remote control FPA 2020-RC with following functions:

- Program selection
- Start/stop with slope, immediate weld stop
- Emergency-stop
- Manual positioning of axes
- Manual wire inching (forward/reverse)
- Parameter adjusting during welding (on the fly)
- Test button for shielding gas and on/off purging gas

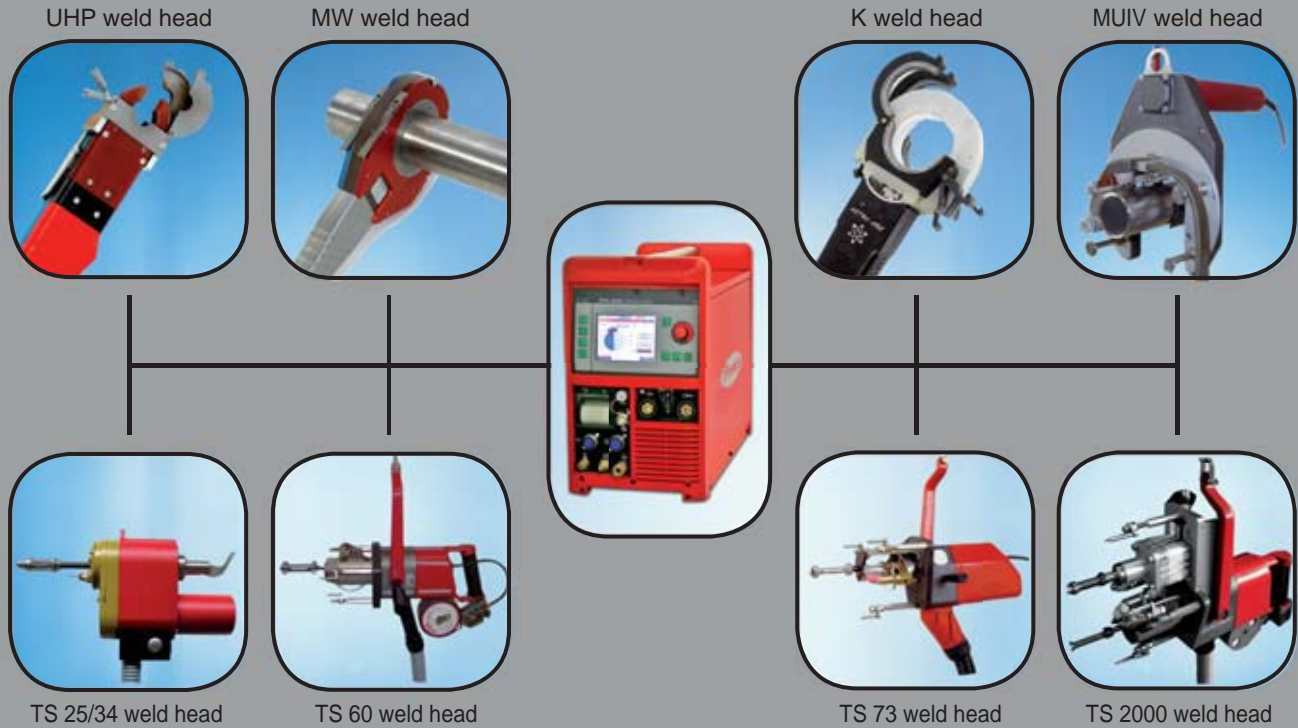


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Configuration example:



Accessories

Earth cable, gas hose
 Carriage with console and tool box PickUp
 Gas pressure regulator
 Closed and open weld heads with or without filler wire
 Adaptor cable for MW weld heads
 Hosepack extension
 Manual TIG torch
 USB-stick
 Printer paper

Recommended areas of use

Fronius Process Automation - FPA System-controller are universal and functional with orbital weld heads useable for tube-tube/ tube-flange/ tube-tubesheet welding.

- Microelectronics
- Pharmacy/Biochemical industry
- Food industry
- Climate technology
- Aeronautics/Aerospace
- Heat exchangers

Technical data

Microprocessor-control	Addressing welding parameter
	Addressing torch rotation axis
	Addressing wire feeder unit
	Addressing USB-stick
	Addressing printer
Operating voltage	10-18 V
Open-circuit voltage	88 V
Mains fuse	16 A
Mains cable	2,5 m
Mains voltage/1 phase	230 V/50-60 Hz
Cos phi	0,99
Welding current stepless AC/DC	3-200 A

Duty cycle AC	200 A (10 min/40°C) 30% d.c.
	150 A (10min/40°C) 60% d.c.
	110 A (10min/40°C) 100% d.c.
Duty cycle DC	200 A (10min/40°C) 35% d.c.
	160 A (10min/40°C) 60% d.c.
	130 A (10min/40°C) 100% d.c.
Cooling power	570 W
Throughput	min. 0,2 l/min
Coolant volume	ca. 1,5 l
Protection class	IP 23
Dimensions l x w x h	625 x 290 x 480 mm
Net weight without remote control	35 kg



PERFECT WELDING

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