


System controller FCU-100


Siemens OP 77 (option)




Continuous or adjustable single central jigs


Pneumatic security mandrel latch

Clamping benches FCP 600/1100/1600/ 2100/2600/3100

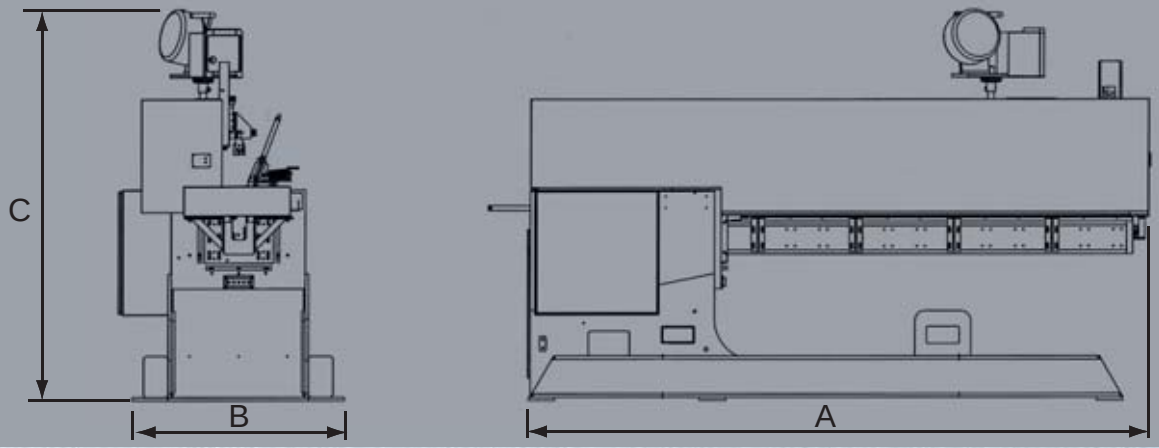
Pneumatic clamping benches type 2

Standard equipment

System controller FCU-100
Compact heavy-duty carriage with steel-alu linear guides
Enclosed driving system
Drive via flanged DC-motor with tacho and incremental encoder
Speed range 5 - 445 cm/min (way-measuring system)
Parallelism of carriage to clamp system +/-0,15 mm
Pneumatic torch motion, (stroke distance 150 mm)
Manual support 70 x 70 mm (height and side)
Torch holder (according to torch-type)
Self adjusting precision clamping system
All copper-parts made of special abrasion resistant alloys
3 foot switches for clamping
Stepless operation of front clamp row (for easy setting the plate edge with 0-gap)
Pneumatic central nitrided jigs (one continuous piece up to FCP 1600) from FCP 2100 there are longitudinal adjustable single jigs
Self-adjusting clamping jaws on continuous backing-bar
Backing gas track with groove structuring according to the thickness of the welded material
Pneumatic security mandrel latch (initiator controlled)
Dual energy chain, separated for torch and other lines
Swiveling protective-glass, security level R9 (up to FCP 1600)
Gas-cylinder holder (3 pcs.-50l) mounted on machine-body

System mechanical adjusted, function proofed assembled (drive, pneumatic, sensors, power source, etc.)

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PERFECT WELDING



Recommended areas of use
Longitudinal welds of boilers, tanks, pipes, sheet panels, filters, ...
TIG, Plasma, MIG-MAG

- Plant-, boiler-, machine-, steel, pipe construction
- Automotive- and sub contractor industry
- Chemical industry
- Aerospace/ Aeronautics
- Shipbuilding/Offshore
- Construction of rail vehicles, construction machinery
- Special vehicle construction
- Industrial plants and pipe construction

Recommended materials
Steel, special steels, titanium, inconel, aluminium,...

Options and accessories
Siemens OP 77B system controller
Power source-sets TIG, Plasma
I-kit Rob 3000, CANopen (FCU-100), Profi-bus (OP 77B)
Reinforced clamping system for type 2 (wall thickness 1,0 bis 10,0 mm)
Uptake plate (slide) for wire feed unit on carriage (from FCP 1100)
Water re-cooler
Carrier gas drag acc. to the torch type

Customized versions:
Special mandrel with diameter steps, stainless steel backing bar/ clamp fingers, stainless steel mandrel, shielding-gas track according to the materials type, additional backing bar, rectangular mandrel for mounting an idler unit, double-wirefeeder head, special weld length, height adjustment, idler unit for workpieces, Laserpointer for easy centering, bring-in carriage

Technical data	FCP 600/2	FCP 1100/2	FCP 1600/2	FCP 2100/2	FCP 2600/2	FCP 3100/2
Mains voltage/frequency	230/400 V/50 Hz	230/400 V/50 Hz	230/400 V/50 Hz	230/400 V/50 Hz	230/400 V/50 Hz	230/400 V/50 Hz
Power consumption	0,5 kVA	0,5 kVA	0,5 kVA	0,8 kVA	0,8 kVA	0,8 kVA
Max. welding length	600 mm	1100 mm	1600 mm	2100 mm	2600 mm	3100 mm
Min./max. wall thickness	0,3 - 3,0 mm	0,3 - 3,0 mm	0,3 - 3,0 mm	0,5 - 3,0 mm	0,5 - 3,0 mm	0,5 - 3,0 mm
Min./max. diameter	50-800 mm	80-800 mm	120-800 mm	190-800 mm	200-800 mm	220-800 mm
Min./max. wall thickness (Type 2S)	1,0-10,0 mm	1,0-10,0 mm	1,0-10,0 mm	1,0-10,0 mm	1,0-10,0 mm	1,0-10,0 mm
Dimensions:						
• A	2130 mm	2630 mm	3130 mm	4100 mm	4600 mm	5100 mm
• B	1300 mm	1300 mm	1150 mm	1500 mm	1500 mm	1500 mm
• C	1870mm	1870 mm	1870 mm	2400 mm	2400 mm	2400 mm
Required compressed air	6-10 bar	6-10 bar	6-10 bar	6-10 bar	6-10 bar	6-10 bar
Net weight	770 kg	840 kg	1390 kg	3050 kg	3400 kg	3750 kg

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