



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

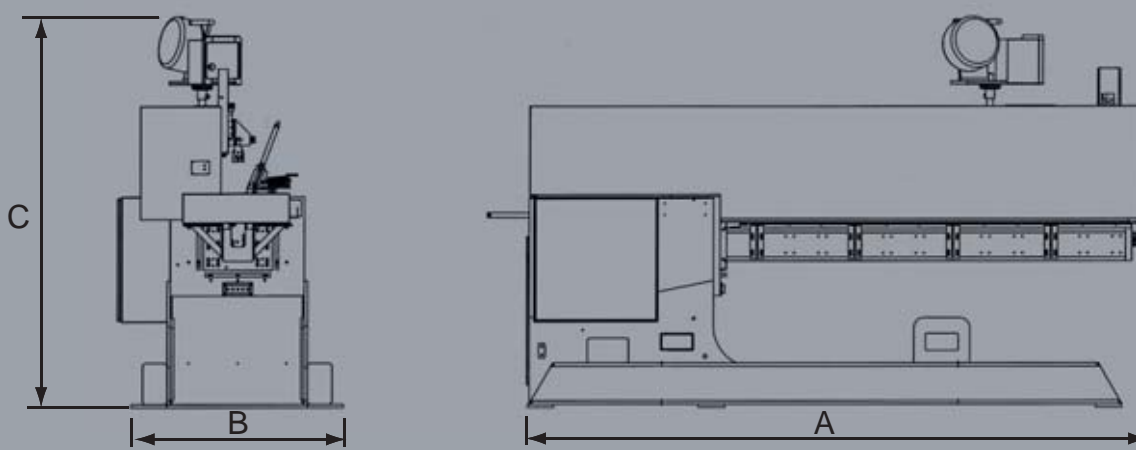
Standard equipment

- 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.)





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



PERFECT WELDING

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