

STRONGHOLD SPOT WELDING MACHINE



Stronghold welding machines set the standard for multi-purpose resistance welding equipment, having adjustable reach for spot welding. They are easily adapted for projection welding and are available as a seam welding version.

Standard Features for spot welding include:-

- ADAPTABILITY Infinitely adjustable reach from 500-800mm.
- HIGH QUALITY WELDING Choice of 8 or 16 program microprocessor weld control.
- PRODUCTIVITY Welding speeds up to 250 spots per minute.
- RELIABILITY 50% duty cycle encapsulated transformer.
- VERSATILITY Simple adaption to projection welding.

Optional extras

- Retract/high lift and or 160mm air cylinder.
- 100KVA, 150KVA single phase AC or 100KVA.
- 3-phase DC Medium Frequency Transformer.
- Low Force Approach System.
- Closed circuit water cooled system.
- Integration of automatic nut and bolt feed machines.

Stronghold spot welding machines are available as inverter controlled medium frequency machines and offer the following added benefits:-

- · Improved weld quality.
- Reduced Power consumption costs.
- Lower peak currents providing increased electrode life.
- 3-phase even load distribution.
- Ideal for welding coated materials and aluminium.
- Weld times reduced through increased rate of heat input to work piece.
- Reduced weld splash owing to lower peak currents.
- · Can be retrofitted to existing machines.

Federal Resistance Welding Limited

Castle Mill Works,
Birmingham New Road, Dudley,
DY1 4DA, England.



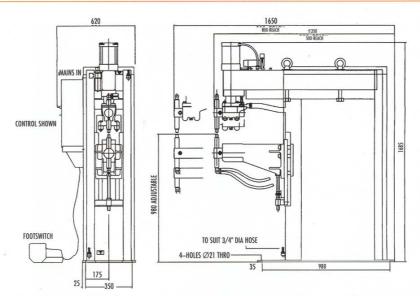
www.britishfederal.co.uk

Tel : +44 (0) 1384 455550
Fax : +44 (0) 1384 455411
Email : sales@britishfederal.co.uk



STRONGHOLD SPOT WELDING MACHINE

Stronghold Spot Welder with adjustable reach



Drawing shows machine in standard mode

All measurements shown in mm unless otherwise indicated

Technical Specifications			75 Stronghold	100 Stronghold	150 Stronghold
ontinuous power @ 100% duty cycle	Sp	kVA	53	71	106
Max short circuit power	S«	kVA	290	360	460
lax welding power	Smax	kVA	230	290	360
ominal power @ 50% duty cycle	S50	kVA	75	100	150
ominal supply voltage	Uln	٧	380 / 440	380 / 440	380 / 440
ontinuous primary current at 100% DC	l _{1p}	A	130	170	250
upply frequency		Hz	50	50	50
upply phases			2	2	2
upply capacity		kVA	170	210	300
RC fuse size to BS88		Α	160	200	315
eed cable c.s.a up to 30m. long		mm²	50	70	95
lax. short circuit primary current	lıα	Α	690	860	1,200
lax short circuit secondary current	2cc	A	32,000	35,000	42,000
lax welding current	2max	A	25,000	28,000	33,000
uty cycle for max welding	Xmax	%	5.4	6.1	7.1
ontinuous secondary current at 100% DC	_{2p}	A	6,000	7,200	8,900
umber of taps			3	3	3
econdary open circuit volts	U20	٧	8.8 / 8 / 7	9.9 / 8.8 / 8	11.9 / 10.4 / 8.6
/eld cylinder		mm	125	125	160
/eld force min/max with a 1.5/5.5 bar supply		kN	1.8 / 6.7	1.8 / 6.7	3.0 / 11.0
/eld force min/max with an 20/80 psi supply		1bf	400 / 1,500	400 / 1,500	650 / 2,500
/eld cylinder stroke max.		mm	76	76	76
ir pressure normal		bar	5.5	5.5	5.5
ir pressure max operating		bar	7	7	7
ir connection/hose size		BSP/in	1/2" / 1/2"	1/2" / 1/2"	1/2" / 1/2
ooling water min operating pressure		bar	3	3	
Cooling water consumption		Lit./min	20	20	20
ooling water max inlet temp.		°C/°F	30 / 86	30 / 86	30 / 86
ooling water connection/hose size		BSP/in	1/2" / 3/4"	1/2" / 3/4"	1/2" / 3/4
Shipping specifications	machine size	mm	590W x 1,350D x 1,685H	590W x 1,350D x 1,685H	590W x 1,350D x 1,685H
	machine weight.	kg	595	595	655

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