

SP 170-I/SP 170-I BIG BOY



The SP 170-I is a complete semi-automatic constant voltage DC arc welding machine. Built to EN60974-1 specifications, it combines both a constant voltage power source and a constant speed wire feeder. It is recommended for both Innershield gasless flux cored arc welding and MIG/MAG applications on virtually any light gauge material, including stainless steel and aluminium. It is ideal for those operators having a 220/240 volt supply who want the ease, quality and arc performance that a combined power source/feeder can deliver. The SP170-I is compact, portable and reliable and is ideal for light industrial applications. In particular, site and maintenance work, truck, trailer and farm equipment repair. The SP170-I comes in two forms. In the standard version it is designed to feed wire from 0.7 and 5Kg spools, whilst in the 'Big Boy' form it will accommodate 5Kg & 15Kg spools. Both are supplied in ready-to-weld packages.

The SP170-I package includes:

- Gun and cable assembly with liner for 0.6-0.8mm solid and 0.9-1.2mm flux-cored wires.
- Two contact tips for both 0.6-0.8mm solid wire and 0.9mm cored wires.
- Gas nozzle.
- 2.5m gas hose with hose clamps.
- 3m primary cable.
- 3m work cable and clamp.
- Gas solenoid valve.
- Reversible wire drive roll for 0.6-0.8mm solid and 0.9mm flux-cored wire.

ADVANTAGE LINCOLN

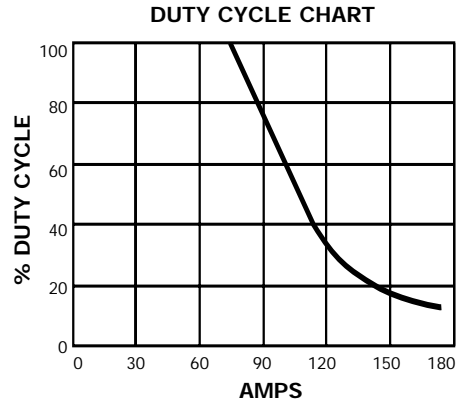
- Designed for 0.6-0.8mm solid MIG wire and 0.9mm flux-cored wire.
- For welding 0.6-8mm mild steel plate.
- Suitable for welding with 0.6-0.8mm stainless steel and 1mm aluminium wire.

- Operates from 240 volt supply.
- Large filter capacitor and choke provide optimal DC characteristics for smooth welding performance.
- Built-in "burnback" function insures proper wire stickout after each weld with no sticking in the weld puddle.
- "Quick Release" idle roll pressure arm easily adjusts wire tension for positive wire feeding.
- Reversible dual groove drive roll will feed 0.6-0.8mm diameter solid wire and 0.9mm diameter flux-cored wire.
- For portability and flexibility the standard version is designed to feed wire from both 0.7 and 5Kg spools. For economy the 'Big Boy' will accommodate 5Kg & 15Kg spools.
- Large, easy-to-set knobs provide voltage control and full range continuous wire feed speed control.
- Convenient chart mounted inside wire feed section door for setting welding procedures.
- 3 year warranty on parts and labour.

TECHNICAL SPECIFICATIONS

SP 170-I/SP 170-I BIG BOY				
OUTPUT				
Duty cycle (10 minute period)	%	20	60	100
Welding current	A	140	100	75
Arc voltage	V	21	19	18
Welding current range	A	30-170		
Open circuit voltage: max.	V	32		
INPUT				
Supply voltage single phase 50Hz	V	240		
Supply current at 140 A output	A	22		
Line fuse, slow blow	A	16		
MISCELLANEOUS				
Insulation class	acc. to IEC 974-1/EN60974-1			H
Protection class	acc. to IEC 529			IP 23
Wire feed speed range	m/min	1.3-10.2		
Wire diameter sizes	mm	0.6-0.8 solid & 0.9-1.2 cored		
Weight	kg	25.5		
Dimensions: HxWxD:	SP170-I	mm	305x248x419	
	SP170-I Big Boy	mm	406x320x500	

PERFORMANCE PLUS



THE TOTAL SOLUTION

For mild steel gasless Innershield arc welding applications:

As shipped, the SP 170-I is ready to weld with 0.9mm Innershield™ NR211-MP welding wire.

A spool of wire should be ordered separately.

For mild steel MIG/MAG welding applications:

As shipped, the SP 170-I is ready to weld with 0.6 and 0.8mm MIG wire.

A spool of wire, gas regulator and shielding gas to be ordered separately.

ORDERING INFORMATION

SP170-I Order No. K1602-1
For 0.45 kg and 5.0kg Spools

SP170-I Big Boy Order No. K1603-1
For 5.0 and 15kg Spools

REPLACEMENT PARTS

TORCH LINERS

0.6-0.8mm Steel	S18704-4
0.9-1.2mm Steel	S18704-5
0.8-1.2mm Aluminium	S18704-17

CONTACT TIPS

0.6mm	S18704-1
0.8mm	S18704-2
0.9mm	S18704-3
1.2mm	S18704-13

GAS NOZZLE

S18704-7

GASLESS NOZZLE

S18704-14

DRIVE ROLLS

0.6-0.9mm	M15758
0.9-1.2mm	M16049

INNERSHIELD™ NR211-MP

0.9mm	0.45 kg Spool	ED027641
0.9mm	4.45 kg Spool	ED016354
1.2mm	4.45 kg Spool	ED016363

LINCOLN MIG WIRE

0.6mm	5 kg Spool	16506
0.8mm	5 kg Spool	16S0805PR
0.6mm	15 kg Spool	16S0615PR
0.8mm	15 kg Spool	16S0815PR

MIG TORCH

Complete for 0.6-0.8mm MIG wire and 0.9mm Innershield™ wire L10738

Trolley TLN-05

Accommodates SP 170-I and gas cylinder. Has 250mm solid rubber wheels. Order No. TLN-05

Shielding Gas Regulator

For Argon and Argon/CO₂ mixtures. Order No. H1006

LINCOLN[®]
ELECTRIC

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NOTE: We are constantly improving our products. Lincoln Electric UK therefore reserves the right to make changes in specifications without notice.