Lincoln Electric Europe

Invertec[®] 135S, 150S, 170S



BUILT FOR THE JOB

The Invertec[®] 135S, 150S and 170S from Lincoln Electric offers a range of machines built with the job in mind. These stick machines are suited to a variety of applications and working environments, ensuring that there will be a machine to meet your needs.

Across the range, these designs have focused on providing excellent welding and starting behaviour in a robust and reliable package. From this foundation, each unit is further equipped with a unique set of features and capabilities to guarantee there is a machine perfect for your application.

Welding machines need to be tough. At Lincoln Electric we know that modern equipment needs to be capable of handling harsh environmental conditions. That is why we have built this range in a robust metal case with large rubber corners and push control buttons for added protection. Rugged and robust on one hand, portable on another; the Invertec 135, 150 and 170S are lightweight and easy to handle in any situation.

Amps are not the only requirement! A good start and smooth arc requires more

than simply amps and voltage. The Invertec[®] range is equipped with POWER SURPLUS in addition to normal welding current. This advanced control monitors the arc, constantly adjusting output to ensure a stable arc and first-rate starting, even when the arc-lenght varies greatly.



Invertec[®] 135S compared with market average

The superior arc control achieved with POWER SURPLUS makes the difference between a Lincoln Electric excellent welding performance than any other ordinary welding machine on the market.

Anti-Stick included as standard! When an electrode is started by striking, the tip of the electrode may "stick" on the work peice at the full set current. The ANTI-STICK feature detects when electrode sticking occurs and automatically switches the current down to minimum to prevent the electrode from remaining attached to the work piece and overheating.

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ADVANTAGE

Three unique Units

Different outputs, performance and features fit any customer requirements.

Robust design

Unique rubber corners, metal housing and push control buttons to withstand tough environmental conditions.

✓ Premium arc

Advanced Lincoln technology and Lincoln know-how guarantees to make these machines weld to optimum performance every time.

✓ Power Surplus

Additional power for superior arc control.

Soft and Crisp mode

Selectable arc modes for different electrode types.

Auto Adaptive Arc Force

For a stable arc with low spatter levels as standard on the 150 and 170S.

Built in "Hot Start"

For excellent arc striking, standard on the 150 and 170S.

Long cables

Primary power extension cables up to 60M can be used with the 150 and 170S.

✓ Lift TIG

with excellent striking without tungsten contamination.

Generator ready

The 150 and 170S are ready to go for use with generators.

 Portable lightweight, small and robust.

✓ 2 Years Full Parts and

Labour Warranty



TECHNICAL SPECIFICATIONS

Product	Item Number	Primary Voltage	Fuse Size (slow)	Weight (kg)	Dimensions HxWxD (mm)	Protection/ Insulation Class	Compliance
135S	K12033-1/ K12033-1-P*			4.6	224 x 148 x 315	IP21 / F	
150S	K12034-1/ K12034-1-P*	230V/1/50-60Hz +/- 15%	16A	6.7	244 x 148 x 365	IP23 / F	EN 60974-1 / ROHS / CE
170S	K12035-1/ K12035-1-P*	10/0		7.0	244 x 140 X 303	1F23/F	
*P = Ready to weld Pack							

WELDING OUTPUT

Product	Current Range	Rated Output (40°C)	Rated Output (20°C)
135S	10 - 120A	120A @ 25%	120A@50%
150S	10 - 140A	140A @ 30%	140A@55%
170S	10 - 160A	160A @ 35%	160A@80%

ACCESSORIES

Item Number	Description	
KIT140A-16-3M	Cable kit 140A, 16mm ² , 3m	
K10513-17-4VS	TIG torch LT17 GV, 4m	
K10513-17-4VS	TIG torch LT17 GV, 8m	

AUTO-ADAPTIVE ARC FORCE

Standard Arc Force

With Standard Arc Force, the peak in welding current which prevents the electrode from sticking in the weld pool is pre-set. The fixed peak may react aggressively, causing spatter and an unstable Arc.



Auto-adaptative Arc Force Auto Adaptive Arc Force measures the

arc voltage continually to adapt the optimum value of Arc Force. This optimises the Arc stability without the risk of electrode sticking and minimises spatter.



	135S	150S	170S	
Applications				
Electrode Ø (mm)	1.5	1.5 - 3.2		
Rutile / basic	•	•	•	
Performance				
Hot start		•	•	
Auto-adaptative arc force		•	•	
Soft & crisp mode		•	•	
Advanced arc control	•	•	•	
Anti-stick	•	•	•	
Environment				
Long cables	●(30m)	●(60m)	●(60m)	
Generator use		•	•	
Features				
Lift TIG	●(Scratch)	●(Lift TIG)	•(Lift TIG)	
Digital meter			•	
Fan on demand		•	•	
Packaging				
	Machine + Cables	Machine only		
	Machine +	Machine + Cables + Brush + Hammer + Shield		

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