

# Speedtec® 405SP – Pulse Speedtec® 505SP – Pulse

## High output, reliable industrial machine

The Speedtec® range is the solution for Industrial Multi-process applications. With modular and compact design this welding set is easy to move around site. Transport is trouble free thanks to the lower weight of this new design. With the latest high frequency inverter technology, the arc is precisely controlled, many times faster than conventional analogue power sources. The electrical characteristics of the welding power can be changed by software in real time updates. A wide range of synergic programs are available as standard allowing simple yet precise control of welding parameters for the best results every time. The Speedtec® machines utilise the very latest power source technology for efficiency and lower energy consumption. Their advanced Inverter technology will save both time as well as energy. Driven by Lincoln Electric's Green Initiative, we aim to reduce the costs to you as well as the environment. These welding sets are available as 400A rated at 80% or 500A rated at 50% duty cycle (at 40°C). With the PF-46 wire feed unit the welding set can support the MIG processes with synergic programs for Steel, Stainless Steel, Aluminium and Flux cored wires. Lift TIG and Stick functions are available as standard.

### Features

- Pulsed MIG process-great for low spatter, low heat input and out-of-position applications-makes virtually any operator a better welder!
- Premium welding behaviour on CV MIG & Stick welding.
- Variable inductance control.
- Synergic capability.
- Job control with limits secured by a password (PF-46).
- Continuous control of wire feed speed and voltage.
- Remote control on the gun (PF-46 & optional for PF-44).
- Pre-setting (PF-41 excl.) & Multi procedure (PF-46).



### Technical Specifications

Product	Item Number	Primary Voltage (50-60Hz)	Current Range (A)	Rated Output	Fuse Type rG or Circuit Breaker Type Z	Weight (kg)	Dimensions HxWxD (mm)	Protection Class
Speedtec® 405SP (Pulse)	K14117-2	400V/3Ph	20-400A	400A/34V/80%	32A	50	535 x 300 x 635	IP23
Speedtec® 505SP (Pulse)	K14116-2		20-500A	500A/39V/60%	32A			

### Technical Specifications of Wire Feeders

Product	Item Number	Drive Roll	Cooling	Input Power	Output Power	WFS Range (m/min)	Wire Size Range (mm)		Weight (kg)	Dimensions HxWxD (mm)	
							Solid	Cored			
PF-41	K14163-1	4	A/W	40V DC	500A@60%	1.0-22	0.8-1.6	1.0-1.6	17	460 x 300 x 640	
PF-42	K14107-1										18
PF-44	K14108-1										18.5
PF-46	K14109-1										18.5

**Processes**

- Pulsed MIG
- MIG
- Flux-Cored
- Stick
- Lift TIG
- Gouging

**Recommended Consumables**

- **Steel**  
Ultramag®, Supramig®, Supramig Ultra®
- **Flux-cored**  
Innershield® NR211-MP, Outershield® MC710-H
- **Stainless steel**  
LNM 304L, 316L, 309LSi
- **Aluminium**  
SuperGlaze®

**Basic Unit Includes**

- Primary cable 5m
- Ground cable with clamp 3m

**Recommended Wire Feeders**

PF-41, PF-42, PF-44, PF-46

**Recommended packages include**

- PF-4X wire feeder
- Speedtec® power source
- COOL ARC® 46 for water cooled version
- Cart
- 5 m-Interconnection cable, MIG gun and gas regulator

**Key Options**

- K10349-PG(W)-xM Interconnection cables
- K10429-36-xM MIG gun LGS 360 G – 300A – 3/4/5 m
- K10429-505-xM MIG gun LGS 505 W – 450A – 3/4/5 m
- K14096-1 Cart Speedtec
- K14141-1 Cart Dual
- K14105-1 Water cooler COOLARC® 46
- K10420-1 Coolant Acorox (2x5l)
- K14130-1 LACI (Lincoln Arlink Communication Interface)
- K14121-1 User Interface U2
- K14122-1 User Interface U4
- K14123-1 User Interface U6
- K14124-1 Pendant box (12-pins)
- K14125-1 Kit 12-pin socket (F)
- K14131-1 Arlink-T Flex
- K14132-1 Adapter 5-pin(M)/12-pin(F)
- K14135-1 Arlink-T-Power
- K14120-1 Kit 6-pin socket (F)



**INPUT** **OUTPUT**

3 PHASE 50/60 Hz CC CV DC

