

Powertec® 161C, 191C, 231C, 271C

The Professional's Choice

The Powertec® 161C, 191C, 231C and 271C are all designed to provide a range of machines with a variety of welding outputs suitable for operating from a single-phase mains supply. The Powertec® range begins with the 161C, which is ideal for the welding of thin sheet metal applications, repair and maintenance works. This machine has excellent arc and starting characteristics, allowing you to complete your welding project efficiently, quickly and professionally with minimal spatter levels.

It is a perfect tool for small workshop, car body repair or for the farm. The Powertec® 191C and 231C have the power required for light construction applications, yet still offer the flexibility to weld thin material like the Powertec® 161C. The Powertec® 271C truly is the multi-purpose model in this range, ideal for both welding thin material and also light to medium construction work.

Features

- Superior arc behaviour with premium starting performance and arc stability.
- Excellent control, with Burnback control, Spot welding function, 2/4 stroke feature (except PT161C) and additional voltage settings.
- Optional volt and ammeter (except PT161C).
- Easy to change polarity.
- Professional wire feeding system.
- Equipped with Euro connector and ground cable assembly.



Technical Specifications

Product	Item Number	Primary Voltage (50-60Hz)	Current Range (A)	Rated Output	Fuse Size (A) (slow)	Weight (kg)	Dimensions HxWxD (mm)	Protection/ Insulation Class
Powertec® 161C	K14040-2	230V/1Ph	30-150	150A/21.5V/20%	16	53	615 x 390 x 825	IP23 / H
Powertec® 191C	K14045-1		30-180	180A/23.0V/20%	20	70	765 x 427 x 850	
Powertec® 231C	K14046-1		30-220	220A/25.0V/20%	25	80		
Powertec® 271C	K14047-1		30-255	255A/26.8V/20%	32	83		

* "- 2" include A/V meter installed

Processes

- MIG
- Flux-cored



Recommended Consumables

- **Steel**
Ultramag®, Supramig®, Supramig Ultra®
- **Flux-cored**
Innershield® NR211-MP

Unit Includes

- 3 m input cable and 3 m ground cable

Key Options

- **K10429-15-xM** MIG gun LGS 150 G – 150A – 3/4/5 m
- **K10429-25-xM** MIG gun LGS 250 G – 200A – 3/4/5 m
- **K10429-36-xM** MIG gun LGS 360 G – 300A – 3/4/5 m
- **KP14016-x** Drive roll kit range (2R)
- **K10158-1** Readi-reel mounting stand (15 kg)
- **K14044-1** Meter V/A kit (except PT161C)
- **K14048-1** CO₂ heater connection kit (except PT161C)

INPUT



OUTPUT



Powertec® 255C, 305C

Powerful compact, excellent economics

The design of the Powertec® 255C and 305C was driven by the need to provide our customers with a range of machines offering a variety of welding outputs. The range begins with the 255C, which is an ideal machine for welding of thin sheet metal applications. With excellent arc and starting characteristics this machine allows welding projects to be completed efficiently, quickly and professionally with minimal spatter levels. The Powertec® 255C is a more powerful version, still capable of welding thin material but with the extra power required for light fabrication work. The Powertec® 305C truly is a multi-purpose model, ideal for both thin sheet applications and light to medium fabrication work. The Powertec® 305C will operate in either Short Arc welding or Full Spray modes with a 1.0 mm wire.

Features

- Products developed with a focus on applications.
- Excellent starting performance (stable and dynamic).
- Voltage selectors with multiple steps for precise adjustment.
- Excellent drive system with large diameter drive roll.
- Electronic feedback system on the wire drive will guarantee consistent wire feed speed.
- Equipped with large diameter wheels, push/pull bar and lifting eyes for full manoeuvrability.
- Optional Volt Ammeter kit and polarity change kit.



Technical Specifications

Product	Item Number	Primary Voltage (50-60Hz)	Current Range (A)	Rated Output	Fuse Size (A) (slow)	Weight (kg)	Dimensions HxWxD (mm)	Protection/ Insulation Class
Powertec® 255C	K14055-1	400V/3Ph	25-250	250A/26.5V/35%	16	94	810 x 467 x 930	IP23 / H
	K14055-2	230/400V/3Ph			32/16			
Powertec® 305C	K14056-1 & -3	400V/3Ph	30-300	300A/29V/35% 225A/25.2V/60%	25	95	810 x 467 x 930	IP23 / H
	K14056-2 & -4	230/400V/3Ph			40/25			

Processes

- MIG
- Flux-cored



Recommended Consumables

- **Steel**
Ultramag®, Supramig®, Supramig Ultra®
- **Flux-cored**
Innershield® NR211-MP
- **Aluminium**
SuperGlaze®

Unit Includes

- Undercarriage
- 5 m-input cable
- Work clamp and cable assembly (3 m)
- Gas hose (2 m)
- Drive roll kit

Key Options

- **K10429-25-xM** MIG gun LGS 250 G – 200A – 3/4/5 m
- **K10429-36-xM** MIG gun LGS 360 G – 300A – 3/4/5 m
- **KP14016-x** Drive roll kit range (2R)
- **KP14017-x** Drive roll kit range (4R)
- **K10158-1** Reel-mounting stand (15 kg)
- **K14077-1** Kit polarity change PT255C/305C
- **K14049-1** Meter kit
- **K14009-1** CO₂ heater connection kit

INPUT



OUTPUT



Powertec® 305C PRO, 355C PRO Powertec® 425C PRO

Premium arc, synergic style

The Powertec® PRO range of MIG welding machines is superior in all respects. All have excellent arc characteristics and very low spatter levels with argon mix or 100% CO₂ shielding gas. The extensive set of features on all Powertec® Pro's includes 2/4-step run-in, wire inch and gas purge. Two digital meters indicates clearly the welding voltage and amperage which when combined with the synergic control allows optimum and easy setting with controllability. Select the synergic control and voltage and the wire feed speed will then be adjusted automatically to suit. All machines come equipped with a rugged four-roll drive system with a powerful 90 watt motor. The machines also have a lower cylinder platform, allowing easy loading and unloading of the gas cylinder.

Features

- Products developed with a focus on applications.
- Superb Arc behaviour with Argon Mix and 100% CO₂.
- Excellent drive system (4 rolls) with large diameter drive roll and powerful motor.
- Electronic feedback system on the four-roll wire drive will guarantee consistent wire feed speed.
- Voltage selectors with multiple steps for precise adjustment.
- Synergic control to support easy control by the welder.
- Bright digital Volt and Ammeter.
- Completed with an extensive set of features.
- Large diameter wheels, push/pull bar and lifting eyes for full manoeuvrability.



Technical Specifications

Product	Item Number	Primary Voltage (50-60Hz)	Current Range (A)	Rated Output	Fuse Size (A) (slow)	Weight (kg)	Dimensions HxWxD (mm)	Protection Insulation Class
Powertec® 305C PRO	K14057-1	230/400V/3Ph	30-280	280A/28V/40% 230A/25.5V/60%	32/20A	145	890 x 565 x 1060	IP23 / H
Powertec® 355C PRO	K14058-1		30-350	350A/31.5V/40% 285A/28.2V/60%	40/25A	147	890 x 690 x 1060	
Powertec® 425C PRO	K14059-1A		30-420	420A/35V/40% 345A/31.3V/60%	50/32A	162		

Processes

- MIG
- Flux-cored



Recommended Consumables

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

Unit Includes

- Undercarriage
- 5 m-input cable
- Work clamp and cable assembly (3 m)
- Gas hose (2 m)
- Drive roll kit

Key Options

- **K10429-25-xM** MIG gun LGS 250 G – 200A – 3/4/5 m
- **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
- **KP14017-x** Drive roll kit range (4R)
- **K10158-1** Readi-reel mounting stand (15 kg)
- **K14071-1** DR system kit (grill)
- **K14009-1** CO₂ heater connection kit (except PT 305C)
- **K14037-1** Water cooler COOLARC® 25
- **K10420-1** Coolant Acorox (2x5l) (PT425C only)

INPUT



OUTPUT



Powertec® 305S, 365S, 425S, 505S

Powerful potential

With the full range of Powertec® power sources and the LF22M & 24M (Pro) wire feeders, Lincoln is able to offer you unrivalled choice of step voltage MIG machines. With multiple output levels available across the power source range; 2 or 4 roll feeders with or without meters and a variety of interchangeable features, the choice is huge: there are 12 different combinations which give the Powertec® range unparalleled flexibility. Design of the LF22M, 24M and 24M Pro feeders focused on ruggedness, physical dimensions and ease of use. The result is an incredibly rugged casing with the primary controls on the exterior and secondary controls secure within the protective casing close to the wire drive.

Features

- Products developed with a focus on applications.
- Superb Arc behaviour with Argon Mix and 100% CO₂.
- Voltage selectors with multiple steps for precise adjustment.
- Two choke tabs to support superb Arc behaviour
- Fan as needed (F.A.N.™).
- Synergic control to support easy control by the welder with LF24M Pro.
- Bright digital volt and ammeter with LF24M and LF24M Pro.
- Completed with an extensive set of features.
- Large diameter wheels, push/pull bar and lifting eyes.
- Easy to convert to water-cooled by simply adding the Coolarc 25 (except PT 305S).



Technical Specifications

Product	Item Number	Primary Voltage (50-60Hz)	Current Range (A)	Rated Output	Fuse Size (A) (slow)	Weight (kg)	Dimensions HxWxD (mm)	Protection/ Insulation Class
Powertec® 305S	K14060-1	230/400V/3Ph	30-300	300A/29V@35% 230A/25.5V@60%	32/20	94	770 x 467 x 930	IP23 / H
Powertec® 365S	K14061-1A K14061-2A	230/400V/3Ph 220/380/440/3Ph	30-350	350A/31.5V@40% 285A/28.2V@60%	40/25	141	875 x 700 x 1035	
Powertec® 425S	K14062-1A K14062-2A	230/400V/3Ph 220/380/440/3Ph	30-420	420A/35V@40% 345A/31.5V@60%	50/32	151		
Powertec® 505S	K14063-1A K14063-2A	230/400V/3Ph 220/380/440/3Ph	30-500	500A/39V@40% 400A/34.5V@60%	63/40	157		

Technical Specifications of Wire Feeders

Technical Specifications of Wire Feeders								
Product	Item Number	Cooling	Input Power	WFS Range (m/min)	Wire Size Range (mm)		Weight (kg)	Dimensions HxWxD (mm)
					Solid	Cored		
LF-22M	K14064-1	A	34-44V AC	1-20	0.8-1.6	1.0-1.6	15	440 x 275 x 636
LF-24M	K14065-1W	A/W					17	
LF-24M PRO	K14066-1W						17	

Processes

- MIG
- Flux-cored



Recommended Consumables

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

Unit Includes

- Undercarriage
- 5 m-input cable
- Work clamp and cable assembly (3 m)

Recommended Packages

- LF22M or LF24M or LF24M pro wire feeder
- Powertec® power source on undercarriage, Input cable, Work clamp and cable assembly + COOL ARC® 25 for water cooled version
- 5 m-Interconnection cable, MIG gun and gas regulator

Key Options

- K10347-PG(W)-xM Interconnection cables
- K10429-25-xM MIG gun LGS 250 G – 200A – 3/4/5 m
- 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
- K10158-1 Reel-mounting stand (15 kg)
- K14071-2 DR system kit (grill)
- K14009-1 CO₂ heater connection kit
- K14037-1 Water cooler COOL ARC® 25
- K10420-1 Coolant Acorox (2x5l)

INPUT



OUTPUT

