

MAGNUM PRO TRUE SPIN 360

360 DEGREE RANGE OF MOTION



KEY FEATURES

The Magnum® PRO True Spin™ 360 air-cooled robotic torch **can rotate independently from the cable 360 degrees around the robot's J6 axis**, allowing for shorter programming time, and improving cable longevity by reducing cable strain.

- **Maximizing Arc-On Time** – Ability to program robot with full torch rotation shortens programming time. Additionally the torch's ability to rotate independently from the cable reduces cable strain and extends cable length, minimizing the frequency of cable repairs and replacements.
- **100% Duty Cycle** – The Magnum PRO True Spin 360 Torch has a 100% duty cycle at 350A so the torch stays cooler and is more durable, extending expendable life.

Processes »

MIG, Pulsed MIG, FCAW

Applications »

Heavy Fabrication, Agriculture, Automotive/Transportation

Product Number »

K5550-10 – K5550-X Soild Mount
K5500-XM – K5550-XM Clutch Mount

WHAT'S INCLUDED »

Cable Assembly [See Chart]
Power Module [K5572-1]
Rotary Power Connection [K5571-1]
Interface Module [See Chart]
Breakaway Disk [See Chart]
Contact Tip [KP2745-045]
Gas Nozzle [KP2743-1-62R]
Diffuser [KP2747-1]
Cable Liner [KP45-3545-15]
Gun Tube [KP5579-45]

CABLE ASSEMBLIES

Robot Arm	Cable	Cable Length in. (mm)
FANUC 100iC	KP5577-1	30.7 (781)
FANUC 100iC/6L	KP5577-2	39.4 (1001)
FANUC 100iC/8L	KP5577-3	48.1 (1221)
FANUC 120iC	KP5577-4	38.4 (976)
FANUC 120iC/10L	KP5577-5	46.5 (1181)
FANUC 100iD	KP5577-6	31.4 (798)
FANUC 100iD/10L	KP5577-7	39.3 (998)
FANUC 100iD/12L	KP5577-8	56.6 (1438)
FANUC 100iD/8L	KP5577-10	47.2 (1198)
FANUC 120iD	KP5577-17	39.5 (1003)
ABB IRB 1520iD	KP5577-11	36.7 (931)
ABB IRB 1600iD	KP5577-12	36.7 (931)
ABB IRB 1660iD	KP5577-13	44.3 (1124)
ABB IRB 2600iD-8/2.0	KP5577-14	47.9 (1218)
ABB IRB 2600iD-15/1.85	KP5577-15	39.4 (1001)



INTERFACE MODULES

Solid Mount	Clutch (E-Stop)	Clutch (Mechanical)	Product Description
KP5573-1	KP5574-2	KP5574-1	Fanuc iC
KP5573-2	KP5574-2	KP5574-1	Fanuc iD
KP5573-3	KP5574-2	KP5574-1	ABB



POWER HOUSING

Product Number	Product Description
K5572-1	Power Module
K5571-1	Rotary Power Connector



GOOSNECKS

Product Number	Product Description
KP5579-22	22 Degrees
KP5579-22-XL	22 Degrees, Extended Length
KP5579-45	45 Degrees
KP5579-45-XL	45 Degrees, Extended Length



MAGNUM PRO EXPENDABLES

Lincoln Electric's long-lasting Magnum PRO expendables are designed with welding arc performance in mind. Using Magnum PRO expendables results in more time welding and less time wasted.

Copper Plus Technology

With a larger diameter to disperse heat and keep tips cooler



Anti-Seize Threads

To prevent the contact tips from melting, fusing, and seizing in the diffuser

Easy to Clean

Nickel plating keeps spatter from sticking to the nozzle



Easy to Unscrew

With coarse threads that prevent seizing

MAGNUM® PRO TRUE SPIN™ 360 READY -PAK

Robot Arm	Torch	Ready-Pak Product Number	What's Included										
			Cable	Contact Tips Standard Duty	Gas Diffuser	Gas Nozzle	Cable Liner	Gun Tube 45 Deg	Power Module	Power Pin	Interface Module	Breakaway	Jump Liner

FANUC Robotic Arms

FANUC 120iD/12L	Solid Mount	K5550-8	KP5577-8	KP2745-045	KP2747-1	KP2743-1-62R	KP45-3545-15	KP5579-45	K5572-1	K5578-1	KP5573-2	KP5575-2	KP5580-45	K5571-1
	Mechanical / Electrical Clutch	K5550-8E									KP5574-2	KP5576-2		
	Mechanical Clutch	K5550-8M									KP5574-1	KP5576-2		
FANUC 100iD	Solid Mount	K5550-6	KP5577-6								KP5573-2	KP5575-2		
	Mechanical / Electrical Clutch	K5550-6E									KP5574-2	KP5576-2		
	Mechanical Clutch	K5550-6M									KP5574-1	KP5576-2		
FANUC 100iD/10L	Solid Mount	K5550-7	KP5577-7								KP5573-2	KP5575-2		
	Mechanical / Electrical Clutch	K5550-7E									KP5574-2	KP5576-2		
	Mechanical Clutch	K5550-7M									KP5574-1	KP5576-2		
FANUC 120iD	Solid Mount	K5550-17	KP5577-17								KP5573-2	KP5575-2		
	Mechanical / Electrical Clutch	K5550-17E									KP5574-2	KP5576-2		
	Mechanical Clutch	K5550-17M									KP5574-1	KP5576-2		
FANUC 100iD/8L	Solid Mount	K5550-10	KP5577-10								KP5573-2	KP5575-2		
	Mechanical / Electrical Clutch	K5550-10E									KP5574-2	KP5576-2		
	Mechanical Clutch	K5550-10M									KP5574-1	KP5576-2		
FANUC M710iC/12L	Solid Mount	K5550-9	KP5577-9								KP5573-1	KP5575-1		
	Mechanical / Electrical Clutch	K5550-9E									KP5574-2	KP5576-1		
	Mechanical Clutch	K5550-9M									KP5574-1	KP5576-1		
FANUC 100iC/6L	Solid Mount	K5550-2	KP5577-2								KP5573-1	KP5575-1		
	Mechanical / Electrical Clutch	K5550-2E									KP5574-2	KP5576-1		
	Mechanical Clutch	K5550-2M									KP5574-1	KP5576-1		
FANUC 120iC/10L	Solid Mount	K5550-5	KP5577-5								KP5573-1	KP5575-1		
	Mechanical / Electrical Clutch	K5550-5E									KP5574-2	KP5576-1		
	Mechanical Clutch	K5550-5M									KP5574-1	KP5576-1		
FANUC 100iC	Solid Mount	K5550-1	KP5577-1								KP5573-1	KP5575-1		
	Mechanical / Electrical Clutch	K5550-1E									KP5574-2	KP5576-1		
	Mechanical Clutch	K5550-1M									KP5574-1	KP5576-1		
FANUC 100iC/8L	Solid Mount	K5550-3	KP5577-3								KP5573-1	KP5575-1		
	Mechanical / Electrical Clutch	K5550-3E									KP5574-2	KP5576-1		
	Mechanical Clutch	K5550-3M									KP5574-1	KP5576-1		
FANUC 120iC	Solid Mount	K5550-4	KP5577-4								KP5573-1	KP5575-1		
	Mechanical / Electrical Clutch	K5550-4E									KP5574-2	KP5576-1		
	Mechanical Clutch	K5550-4M									KP5574-1	KP5576-1		

ABB Robotic arm

ABB IRB 1520iD	Solid Mount	K5550-11	KP5577-11	KP2745-045	KP2747-1	KP2743-1-62R	KP45-3545-15	KP5579-45	K5572-1	K5578-1	KP5573-3	KP5575-3	KP5580-45	K5571-1
	Mechanical / Electrical Clutch	K5550-11E									KP5574-2	KP5576-4		
	Mechanical Clutch	K5550-11M										KP5576-4		
ABB IRB 1660iD	Solid Mount	K5550-13	KP5577-13								KP5573-3	KP5575-3		
	Mechanical / Electrical Clutch	K5550-13E									KP5574-2	KP5576-3		
	Mechanical Clutch	K5550-13M									KP5574-1	KP5576-3		
ABB IRB 2600iD-15/1.85	Solid Mount	K5550-15	KP5577-15								KP5573-3	KP5575-3		
	Mechanical / Electrical Clutch	K5550-15E									KP5574-2	KP5576-3		
	Mechanical Clutch	K5550-15M									KP5574-1	KP5576-3		
ABB IRB 2600iD-8/2.0	Solid Mount	K5550-14	KP5577-14								KP5573-3	KP5575-3		
	Mechanical / Electrical Clutch	K5550-14E									KP5574-2	KP5576-3		
	Mechanical Clutch	K5550-14M									KP5574-1	KP5576-3		
ABB IRB 1600iD	Solid Mount	K5550-12	KP5577-12								KP5573-3	KP5575-3		
	Mechanical / Electrical Clutch	K5550-12E									KP5574-2	KP5576-3		
	Mechanical Clutch	K5550-12M									KP5574-1	KP5576-3		

All Magnum PRO Copper Plus® Contact Tips come equipped with Anti-Seize™ threads that prevent the contact tip from melting, fusing, and seizing in the diffuser. The Extended Life™ contact tips are designed with a chrome zirconium copper alloy, which minimizes annealing and wear. Due to their long life, they are the preferred tip for automated welding.



CONTACT TIPS

Wire Diameter in. (mm)	Standard		Tapered		Extended Life	
	Qty. 10	Qty. 100	Qty. 10	Qty. 100	Qty. 10	Qty. 100
0.035 (0.9)	KP2745-035	KP2745-035-B100	KP2745-035T	KP2745-035T-B100	KP2745-035R	KP2745-035R-B100
0.040 (1.0)	KP2745-040	KP2745-040-B100	KP2745-040T	KP2745-040T-B100	KP2745-040R	KP2745-040R-B100
0.045 (1.2)	KP2745-045	KP2745-045-B100	KP2745-045T	KP2745-045T-B100	KP2745-045R	KP2745-045R-B100
0.052 (1.3)	KP2745-052	KP2745-052-B100	KP2745-052T	KP2745-052T-B100	KP2745-052R	KP2745-052R-B100
1/16 (1.6)	KP2745-116	KP2745-116-B100	KP2745-116T	KP2745-116T-B100	KP2745-116R	KP2745-116R-B100
0.068-0.072 (1.7-1.8)	KP2745-072	KP2745-072-B100	-	-	KP2745-072R	KP2745-072R-B100
5/64 (2.0)	KP2745-564	KP2745-564-B100	-	-	KP2745-564R	KP2745-564R-B100

Note: Also compatible with Hyperfill expendables. For Hyperfill part numbers, please see Lincoln Electric publication E12.403

DIFFUSERS

Quantity	Product Number
1	KP2747-1
25	KP2747-1-B25



NOZZLES

Nozzle Type		Quantity	5/8 in. ID	1/2 in. ID	3/4 in. ID
Threaded	1/8 in. Recess	1	KP2743-1-62R	KP2743-1-50R	KP2743-1-75R
		25	KP2743-1-62R-B25	KP2743-1-50R-B25	KP2743-1-75R-B25
	Flush	1	KP2743-1-62F	KP2743-1-50F	KP2743-1-75F
		25	KP2743-1-62F-B25	KP2743-1-50F-B25	KP2743-1-75F-B25
	1/8 in. Stickout	1	KP2743-1-62S	KP2743-1-50S	KP2743-1-75S
		25	KP2743-1-62S-B25	KP2743-1-50S-B25	KP2743-1-75S-B25
Slip-On	1/8 in. Recess	1	KP2743-2-62R	KP2743-2-50R	KP2743-2-75R
		25	KP2743-2-62R-B25	KP2743-2-50R-B25	KP2743-2-75R-B25
	Flush	1	KP2743-2-62F	KP2743-2-50F	KP2743-2-75F
		25	KP2743-2-62F-B25	KP2743-2-50F-B25	KP2743-2-75F-B25
	1/8 in. Stickout	1	KP2743-2-62S	KP2743-2-50S	KP2743-2-75S
		25	KP2743-2-62S-B25	KP2743-2-50S-B25	KP2743-2-75S-B25

LINERS

Wire Diameter, in. [mm]	Product Number	Length, ft [m]
0.035-0.045 [0.9-1.2]	KP45-3545-15	15 [4.5]
	KP45-3545-25	25 [7.6]
0.052-1/16 [1.3-1.6]	KP45-116-15	15 [4.5]
	KP45-116-25	25 [7.6]
1/16-5/64 [1.6-2.0]	KP45-564-15	15 [4.5]
	KP45-564-25	25 [7.6]

DRIVE ROLL AND WIRE GUIDE KITS

Description	Wire Size in. (mm)	Product Number
Solid Steel Wire, Smooth V Groove 	0.023-0.030 (0.6-0.8) 0.035 (0.9) 0.040 (1.0) 0.040-0.045 (1.0-1.2) 0.052 (1.4) 1/16 (1.6)	KP1505-030S KP1505-035S KP1505-040S KP1505-045S KP1505-052S KP1505-1/16S*
Solid Steel Wire, Smooth V Groove - Heavy Duty Heavy duty tool-steel drive rolls designed for maximum life. Recommended for automated and high WFS applications.	0.035 (0.9) 0.040 (1.0) 0.045 (1.2) 0.052 (1.4)	KP1505-035R KP1505-040R KP1505-045R KP1505-052R*
Cored Steel Wire, Knurled V Groove	0.030-0.035 (0.8-0.9) 0.040-0.045 (1.0-1.2) 0.052 (1.4) 1/16 (1.6)	KP1505-035C KP1505-045C KP1505-052C* KP1505-1/16C*
Cored or Solid Steel Wire, Knurled V Groove	0.068-.072 (1.8) 5/64 (2.0)	KP1505-068* KP1505-5/64*
Aluminum Wire, Smooth U Groove 	0.035 (0.9) 0.040 (1.0) 3/64 (1.2) 1/16 (1.6)	KP1507-035A KP1507-040A KP1507-3/64A KP1507-1/16A*

*NOTE: Wire size requires selection of 4R220 model.

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