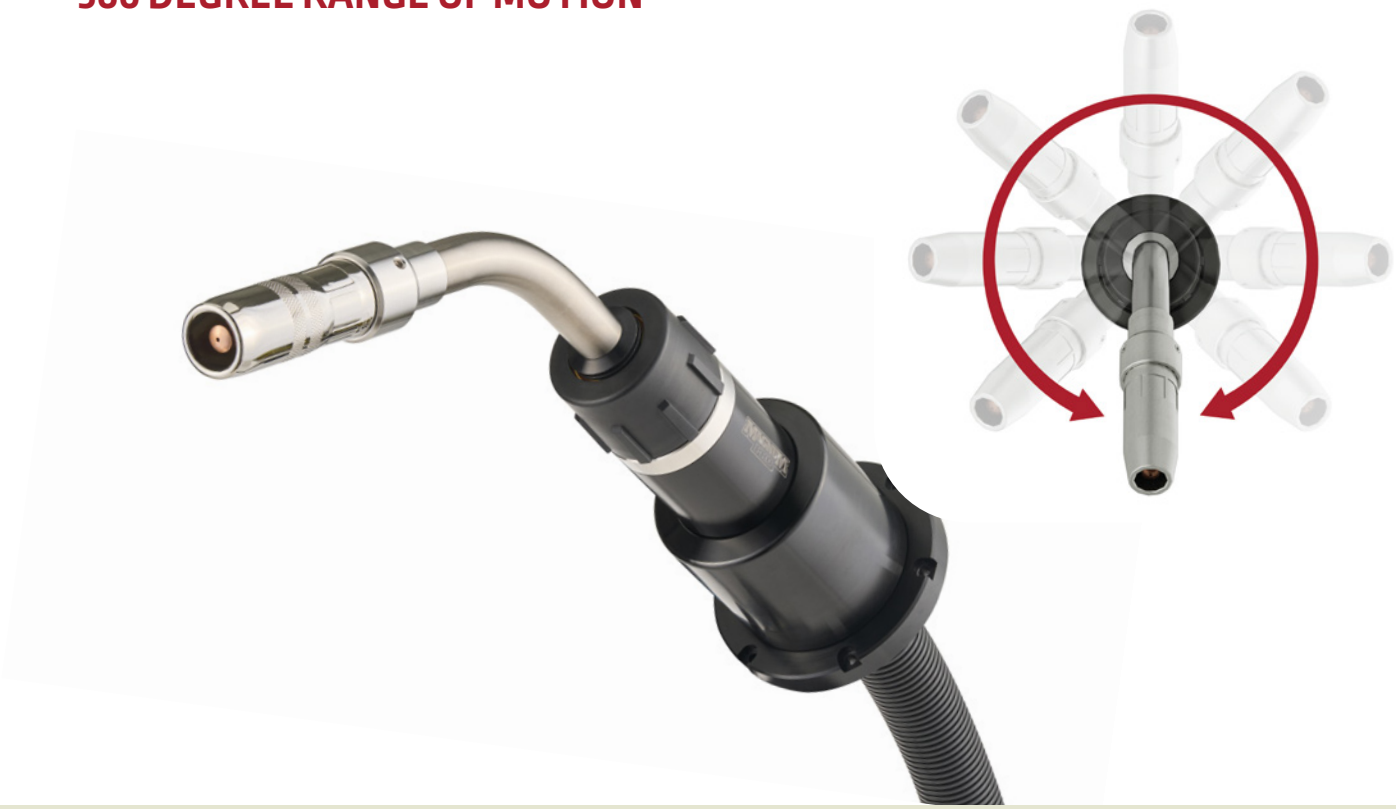
MAGNUM PRO TRUE SPIN 360

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 life, 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.
- **Ease of installation and change over** – Completely tool-less* torch installation and replacement simplifies setup and maintenance. Operators can quickly change torches and consumables without specialized tools, reducing downtime and helping to keep production running efficiently.

*Tool still needed for robot manufacturer's mounting disk installation.

Processes »
MIG, Pulsed MIG, FCAW

Applications »
Heavy Fabrication, Agriculture, Automotive/Transportation

Product Number »
K6138-X Soild Mount
K5500-XM – K5550-XM Clutch Mount

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MAGNUM® PRO TRUE SPIN™ 360

MAGNUM PRO TRUE-SPIN 360 ROBOTIC TORCH

Robot Arms	Part Number
Fanuc	
FANUC 100iC	K6138-1
FANUC 100iC/6L	K6138-2
FANUC 100iC/8L	K6138-3
FANUC 120iC	K6138-4
FANUC 120iC/10L	K6138-5
FANUC 100iD	K6138-6
FANUC 100iD/10L	K6138-7
FANUC 120iD/12L	K6138-8
FANUC M710iC/12L	K6138-9
FANUC 100iD/8L	K6138-10
FANUC 120iD	K6138-17

Robot Arms	Part Number
ABB	
ABB IRB 1520ID	K6138-11
ABB IRB 1600ID	K6138-12
ABB IRB 1660ID	K6138-13
ABB IRB 2600ID-8/2.0	K6138-14
ABB IRB 2600ID-15/1.85	K6138-15
Yaskawa Motoman	
YASKAWA MOTOMAN 1440	K6138-18
YASKAWA MOTOMAN 2010	K6138-19
Kuka	
KUKA KR16L8HW	K6138-20
KUKA KR8R2100HW	K6138-21
KUKA KR6R1820HW	K6138-22
KUKA KR8R1420HW	K6138-23

Mechanical And Electrical Clutch Mount Options are not compatible with standard threaded solid mount connection. See Mechanical and Electrical Clutch Mount One Pak options on the last page

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

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.



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



DIFFUSERS

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

MAGNUM PRO EXPENDABLES

CONTACT TIPS

Wire Diameter in. (mm)	Standard		Tapered		Extended Life		Extended Life Tapered
	Qty. 10	Qty. 100	Qty. 10	Qty. 100	Qty. 10	Qty. 100	Qty. 10 (no Qty 100 options)
0.035 (0.9)	KP2745-035	KP2745-035-B100	KP2745-035T	KP2745-035T-B100	KP2745-035R	KP2745-035R-B100	KP2745-035RT
0.040 (1.0)	KP2745-040	KP2745-040-B100	KP2745-040T	KP2745-040T-B100	KP2745-040R	KP2745-040R-B100	KP2745-040RT
0.045 (1.2)	KP2745-045	KP2745-045-B100	KP2745-045T	KP2745-045T-B100	KP2745-045R	KP2745-045R-B100	KP2745-045RT
0.052 (1.3)	KP2745-052	KP2745-052-B100	KP2745-052T	KP2745-052T-B100	KP2745-052R	KP2745-052R-B100	KP2745-052RT
1/16 (1.6)	KP2745-116	KP2745-116-B100	KP2745-116T	KP2745-116T-B100	KP2745-116R	KP2745-116R-B100	KP2745-116RT
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	

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 (Traditional Rear Load 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]

LINERS (Front Load Liners)

Wire Diameter, in. [mm]	Product Number (1 Pack)	Product Number (10 Pack)	Length, ft [m]
0.035–0.045 [0.9–1.2]	KP4719-3545-6	KP4719-3545-6-B10	6 [1.83]
0.052–1/16 [1.3–1.6]	KP4719-116-6	KP4719-116-6-B10	6 [1.83]
1/16–5/64 [1.6–2.0]	KP4719-564-6	KP4719-564-6-B10	6 [1.83]

FRONT LOAD LINER LINER LOCK

Product Number (1 Pack)	Product Number (25 Pack)
KP4724-1	KP4724-1-B25

*Front load liner lock required for front load liner installation

CABLE ASSEMBLIES

Robot Arm	Part Number
FANUC	
FANUC 100iC	KP6116-1
FANUC 100iC/6L	KP6116-2
FANUC 100iC/8L	KP6116-3
FANUC 120iC	KP6116-4
FANUC 120iC/10L	KP6116-5
FANUC 100iD	KP6116-6
FANUC 100iD/10L	KP6116-7
FANUC 120iD/12L	KP6116-8
FANUC M710iC/12L	KP6116-9
FANUC 100iD/8L	KP6116-10
FANUC 120iD	KP6116-17
ABB	
ABB IRB 1520ID	KP6116-11
ABB IRB 1600ID	KP6116-12
ABB IRB 1660ID	KP6116-13
ABB IRB 2600ID-8/2.0	KP6116-14
ABB IRB 2600ID-15/1.85	KP6116-15
YASKAWA MOTOMAN	
YASKAWA MOTOMAN 1440	KP6116-18
YASKAWA MOTOMAN 2010	KP6116-19
KUKA	
KUKA KR16L8HW	KP6116-20
KUKA KR8R2100HW	KP6116-21
KUKA KR6R1820HW	KP6116-22
KUKA KR8R1420HW	KP6116-23



INTERFACE MODULES

Solid Mount	Clutch (E-Stop)	Clutch (Mechanical)	Product Description
KP6111-1	KP5574-2	KP5574-1	Fanuc iC /Yaskawa
KP6111-2	KP5574-2	KP5574-1	Fanuc iD /Kuka
KP6111-3	KP5574-2	KP5574-1	ABB



MISC REPLACEMENT PARTS

Product Number	Product Description
K5571-1	Rotary Power Connector
KP6117-1	Threaded Locking Ring
KP6114-1	Threaded Locking Ring Cover - Fanuc iC / Yaskawa
KP6114-2	Threaded Locking Ring Cover - Fanuc iD / Kuka
KP6114-3	Threaded Locking Ring Cover - ABB





CABLE

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 [1222]
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 M710iC/12L	KP5577-9	86.4 [2194]
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]
YASKAWA MOTOMAN 1440	KP5577-18	40.4 [1026]
YASKAWA MOTOMAN 2010	KP5577-19	58.0 [1473]
KUKA KR16L8HW	KP5577-20	50.6 [1285]
KUKA KR8R2100HW	KP5577-21	40.8 [1036]
KUKA KR6R1820HW	KP5577-22	37.1 [942]
KUKA KR8R1420HW	KP5577-23	28.8 [731]



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) 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.

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	RPC
FANUC Robotic Arms														
FANUC 120iD/12L	**Mechanical / Electrical Clutch**	**K5550-8E**	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
											KP5574-2	KP5576-2		
	Mechanical Clutch	**K5550-8M**									KP5574-1	KP5576-2		
FANUC 100iD	**Mechanical / Electrical Clutch**	**K5550-6E**	KP5577-6								KP5573-2	KP5575-2		
											KP5574-2	KP5576-2		
	Mechanical Clutch	**K5550-6M**									KP5574-1	KP5576-2		
FANUC 100iD/10L	**Mechanical / Electrical Clutch**	**K5550-7E**	KP5577-7								KP5573-2	KP5575-2		
											KP5574-2	KP5576-2		
	Mechanical Clutch	**K5550-7M**									KP5574-1	KP5576-2		
FANUC 120iD	**Mechanical / Electrical Clutch**	**K5550-17E**	KP5577-17								KP5573-2	KP5575-2		
											KP5574-2	KP5576-2		
	Mechanical Clutch	**K5550-17M**									KP5574-1	KP5576-2		
FANUC 100iD/8L	**Mechanical / Electrical Clutch**	**K5550-10E**	KP5577-10								KP5573-2	KP5575-2		
											KP5574-2	KP5576-2		
	Mechanical Clutch	**K5550-10M**									KP5574-1	KP5576-2		
FANUC M710iC/12L	**Mechanical / Electrical Clutch**	**K5550-9E**	KP5577-9								KP5573-1	KP5575-1		
											KP5574-2	KP5576-1		
	Mechanical Clutch	**K5550-9M**									KP5574-1	KP5576-1		
FANUC 100iC/6L	**Mechanical / Electrical Clutch**	**K5550-2E**	KP5577-2								KP5573-1	KP5575-1		
											KP5574-2	KP5576-1		
	Mechanical Clutch	**K5550-2M**									KP5574-1	KP5576-1		
FANUC 120iC/10L	**Mechanical / Electrical Clutch**	**K5550-5E**	KP5577-5								KP5573-1	KP5575-1		
											KP5574-2	KP5576-1		
	Mechanical Clutch	**K5550-5M**									KP5574-1	KP5576-1		
FANUC 100iC	**Mechanical / Electrical Clutch**	**K5550-1E**	KP5577-1								KP5573-1	KP5575-1		
											KP5574-2	KP5576-1		
	Mechanical Clutch	**K5550-1M**									KP5574-1	KP5576-1		
FANUC 100iC/8L	**Mechanical / Electrical Clutch**	**K5550-3E**	KP5577-3								KP5573-1	KP5575-1		
											KP5574-2	KP5576-1		
	Mechanical Clutch	**K5550-3M**									KP5574-1	KP5576-1		
FANUC 120iC	**Mechanical / Electrical Clutch**	**K5550-4E**	KP5577-4								KP5573-1	KP5575-1		
											KP5574-2	KP5576-1		
	Mechanical Clutch	**K5550-4M**									KP5574-1	KP5576-1		
ABB Robotic arm														
ABB IRB 1520ID	**Mechanical / Electrical Clutch**	**K5550-11E**	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
											KP5574-2	KP5576-4		
	Mechanical Clutch	**K5550-11M**										KP5576-4		
ABB IRB 1660ID	**Mechanical / Electrical Clutch**	**K5550-13E**	KP5577-13								KP5573-3	KP5575-3		
											KP5574-2	KP5576-3		
	Mechanical Clutch	**K5550-13M**									KP5574-1	KP5576-3		
ABB IRB 2600ID-15/1.85	**Mechanical / Electrical Clutch**	**K5550-15E**	KP5577-15								KP5573-3	KP5575-3		
											KP5574-2	KP5576-3		
	Mechanical Clutch	**K5550-15M**									KP5574-1	KP5576-3		
ABB IRB 2600ID-8/2.0	**Mechanical / Electrical Clutch**	**K5550-14E**	KP5577-14								KP5573-3	KP5575-3		
											KP5574-2	KP5576-3		
	Mechanical Clutch	**K5550-14M**									KP5574-1	KP5576-3		
ABB IRB 1600ID	**Mechanical / Electrical Clutch**	**K5550-12E**	KP5577-12								KP5573-3	KP5575-3		
											KP5574-2	KP5576-3		
	Mechanical Clutch	**K5550-12M**									KP5574-1	KP5576-3		

CUSTOMER ASSISTANCE POLICY

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LINCOLN® ELECTRIC