

**QUICK
SPECS**

DUTY CYCLE RATING
 100%: 350 AMP w/ Mixed Gases
 100%: 500 AMP w/ CO2
 60%: 500 AMP w/ Mixed Gases
 60%: 650 AMP w/ CO2

PROCESSES
 MIG (GMAW) Welding

COMPATIBLE ROBOTS
 ABB[®], OTC Daihen[®], FANUC[®],
 KUKA[®], Motoman[®], Panasonic[®]

KNL-360° KNOW NO LIMITS



Repeatable TCP



Infinite Rotation



Zero Cable Torsion

KNL-360°

KNOW NO LIMITS

FOR
Through-Arm Robots

ANTI-SEIZE ROTATION CABLE

Features & Benefits



Product Shown Without Insulator

Bigger Rotational Surface Area & Silver-Plated Spring

Silver plated springs, and large conical surfaces, allow for superior electrical flow and conductivity.

More Robust Joint

For better heat dissipation.

Under Constant Pressure

Rotating contact surfaces under constant pressure in order to stay connected and eliminate amperage and voltage jumps.

Got Grease?

With built-in pockets our conical rotating surfaces can be packed with more grease for a longer lasting, smoother rotating joint.

Free Of Cable Strain

Significantly increase your cable life with torsion free cable. You eliminate the concern of accelerating cable wear while rotating on the sixth axis.

Infinite Rotation

Our Infinite rotation cable and joint allows for ease of programming. Reduce your weld cycle times with no need for reorientation of the cable on the sixth axis. There are no wasted air moves; which allows you to create the most efficient weld path possible. All while the cable remains torsion free.

Replacement Cable Option

TA3 Compatible with Tregaskiss †



KNL-360°

Competitor

KNL CABLES

Robot Brand	Robot Model	Part #	LSR Replacement
KUKA®	KR 5 arc HW	64-CK023	58CK023-KNL
	KR 16 arc HW	64-CK030	58CK030-KNL
	KR 16 L8 HW	64-SK027	58SK027-KNL
Motoman®	EA1400 XRC	64-CM016	58CM016-KNL
	EA1900 XRC	64-CM017	58CM017-KNL
	EA1400N, SSA2000, MA1400, VA1400	64-CM001	58CM001-KNL
	MA1440, AR1440, MH12	64-CM035	58CM035-KNL
	EA1900N	64-CM002	58CM002-KNL
	MA2010, AR2010	64-CM038	58CM038-KNL
	MA3100, MA3120	64-CM031	58CM031-KNL
	MH24, AR1730	64-CM039	58CM039-KNL
ABB®	IRB1600ID, IRB1520ID	64-SA024	58SA024-KNL
	IRB2600ID-15/1.85	64-SA028	58SA028-KNL
	IRB2600ID-8/2.00	64-SA029	58SA029-KNL
	IRB1660ID	64-SA030	58SA030-KNL
FANUC®	100iC, 100iC-12	64-SF005	58SF005-KNL
	100iC-6L, 100iC-7L	64-SF007	58SF007-KNL
	100iC-8L	64-SF010	58SF010-KNL
	120iC	64-SF006	58SF006-KNL
	120iC-10L, 120iC-12L	64-SF008	58SF008-KNL
	M10iA-6L, M10iA-7L	64-SF007	58SF007-KNL
	100ID	64-SF011M 64-SF011L	
	120ID	64-SF015M 64-SF015L	

† American Torch Tip Company is in no way affiliated with the above-named manufacturer(s). References to the above-named machines, torches and numbers are for your convenience only. American Torch Tip is not necessarily authorized by the above-named manufacturer(s) to provide replacement parts. Most parts advertised for sale are made by, or for, American Torch Tip Company and other parts, as indicated, are original parts manufactured by the above-named OEM and are simply being resold by American Torch Tip Company.

Lightning® Nozzle Selector Chart (slip-on)

SD Nozzle Part #	Bore/Material	O.D. / Length	Tip Location
63-2138	3/8" Copper	.938" / 2.75"	Flush
63-2150	1/2" Copper	.938" / 2.88"	1/8" Recess
63-2662	5/8" Copper	.938" / 2.63"	1/8" Stick out
63-2162	5/8" Copper	.938" / 2.88"	1/8" Recess
63-2175	3/4" Copper	.938" / 2.88"	1/8" Recess
HD Nozzle Part #	Bore/Material	O.D. / Length	Tip Location
65-2550	1/2" Copper	1.062" / 2.88"	1/8" Recess
65-2662	5/8" Copper	1.062" / 2.63"	1/8" Stick out
65-2362	5/8" Brass	1.062" / 2.63"	1/8" Stick out
63-2362	5/8" Brass	1.062" / 2.88"	1/8" Recess
65-2562	5/8" Copper	1.062" / 2.88"	1/8" Recess
65-2575	3/4" Copper	1.062" / 2.88"	1/8" Recess
64-2575	3/4" Copper	1.062" / 3.00"	1/4" Recess

Threaded versions available for all nozzles.
Add the letter "T" to the end of the part number.

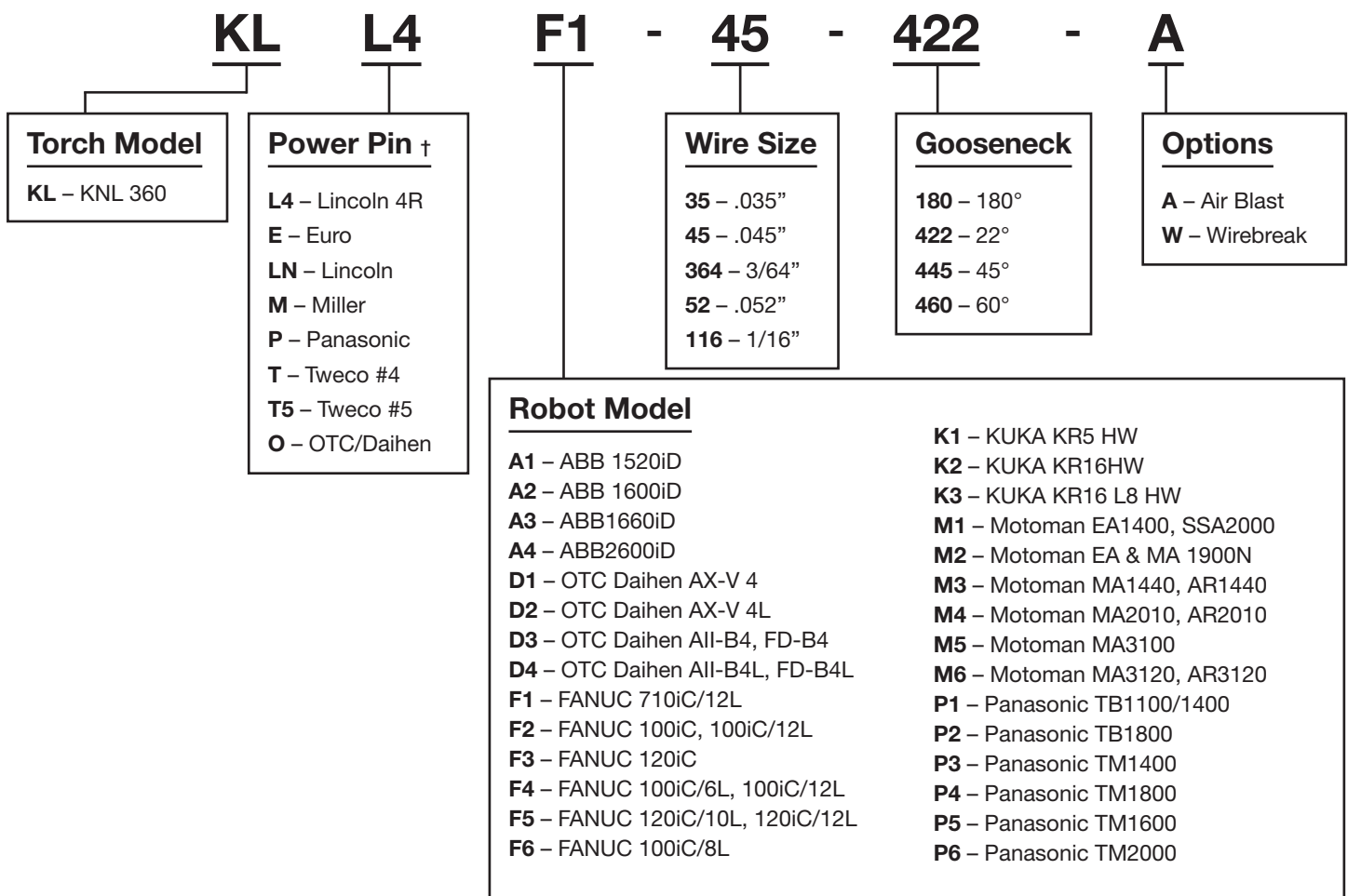
Lightning® Retaining Heads / Diffusers

Part #	Description
65-3103-2	Retaining Head for Extra Heavy Duty
63-3103-2	Retaining Head T/L
65-3116	Thread-on Retaining Head, Extra HD
63-3116	Thread-on Retaining Head HD

Lightning® Contact Tip Selector Chart

Part #	Contact Tip - Size
63-1130	Contact Tip HD .030 pk 10
63-1135	Contact Tip HD .035 pk 10
63-1135-40	Contact Tip HD .035 / .040 I.D. pk 10
63-1138	Contact Tip .030 Pk 10 Robotic
63-1140	Contact Tip HD .040 pk 10
63-1145-50	Contact Tip HD .045 pk 10
63-1147	Contact Tip HD 3/64" al pk 10
63-1152	Contact Tip HD .052 pk 10
63-1162	Contact Tip HD 1/16" pk 10
63-1168	Contact Tip HD .068 / .078 I.D. pk 10
63-1172	Contact Tip HD .072 pk 10 SPECIAL
63-1178	Contact Tip HD 5/64" pk 10
63-1193	Contact Tip HD 3/32" pk 10
Part #	Tapered Tip - Size
63-12XX	XX = use suffix from chart above
Part #	Heavy Duty Tip - Size
63-13XX	XX = use suffix from chart above
Part #	Extra Heavy Duty Tip - Size
65-11XX **	XX = use suffix from chart above

KNL-360° Parts Ordering System



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