

TOUGH GUN™ TA3

Robotic Air-Cooled MIG Gun

Quick Specs

Duty Cycle Rating

100%: 350 amp with Mixed Gases
Ratings are based on tests that comply with IEC 60974-7 standards

Processes

MIG (GMAW) Welding

Robots

ABB®, COMAU®, FANUC®, Kawasaki®, KUKA®, Motoman®, OTC Daihen®, Panasonic®

- Re-engineered neck clamp improves durability and consistency of clamping force
- Additional standard neck options expand the tool center point options and variety of working envelopes
- Direct replacement for TOUGH GUN™ ThruArm™ G1 Series Robotic MIG Guns
- Available as a complete package — from the power pin to the contact tip
- Wire Brake, Air Blast and TOUGH GUN I.C.E.™ Technology are available options for select models

Designed for today's through-arm style robots, the TOUGH GUN™ TA3 Robotic Air-Cooled MIG Gun combines the most valuable product options of our TOUGH GUN ThruArm™ G1 and G2 Series Platforms — including our Low-Stress Robotic (LSR) Unicable — along with new features for increased strength and durability.

Unlike conventional uncables, our unique and durable LSR Unicable incorporates a rotating power connection that allows for stress-free rotation. A protective conduit contributes to the longevity of this cable by shielding its components from harsh welding environments.

2 year warranty on LSR Unicable

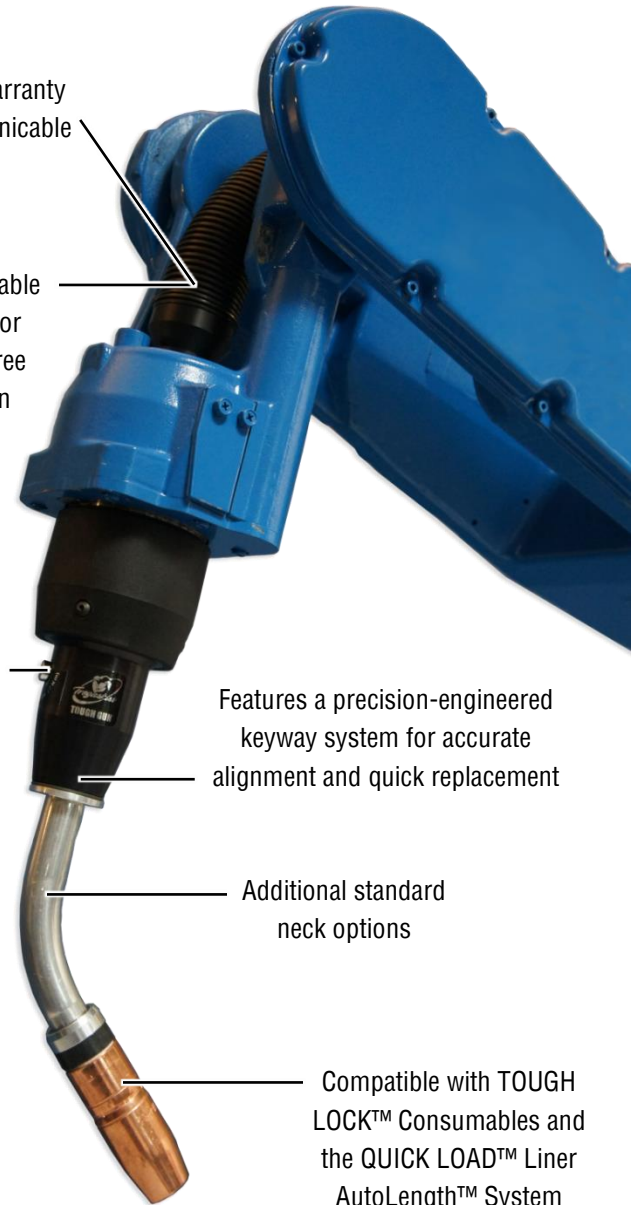
LSR Unicable allows for stress-free rotation

Re-engineered neck clamp improves durability and consistency of clamping force

Features a precision-engineered keyway system for accurate alignment and quick replacement

Additional standard neck options

Compatible with TOUGH LOCK™ Consumables and the QUICK LOAD™ Liner AutoLength™ System



NEW FEATURES PROVIDE
INCREASED
DURABILITY



EASY MAINTENANCE
WITH MINIMAL
DOWNTIME

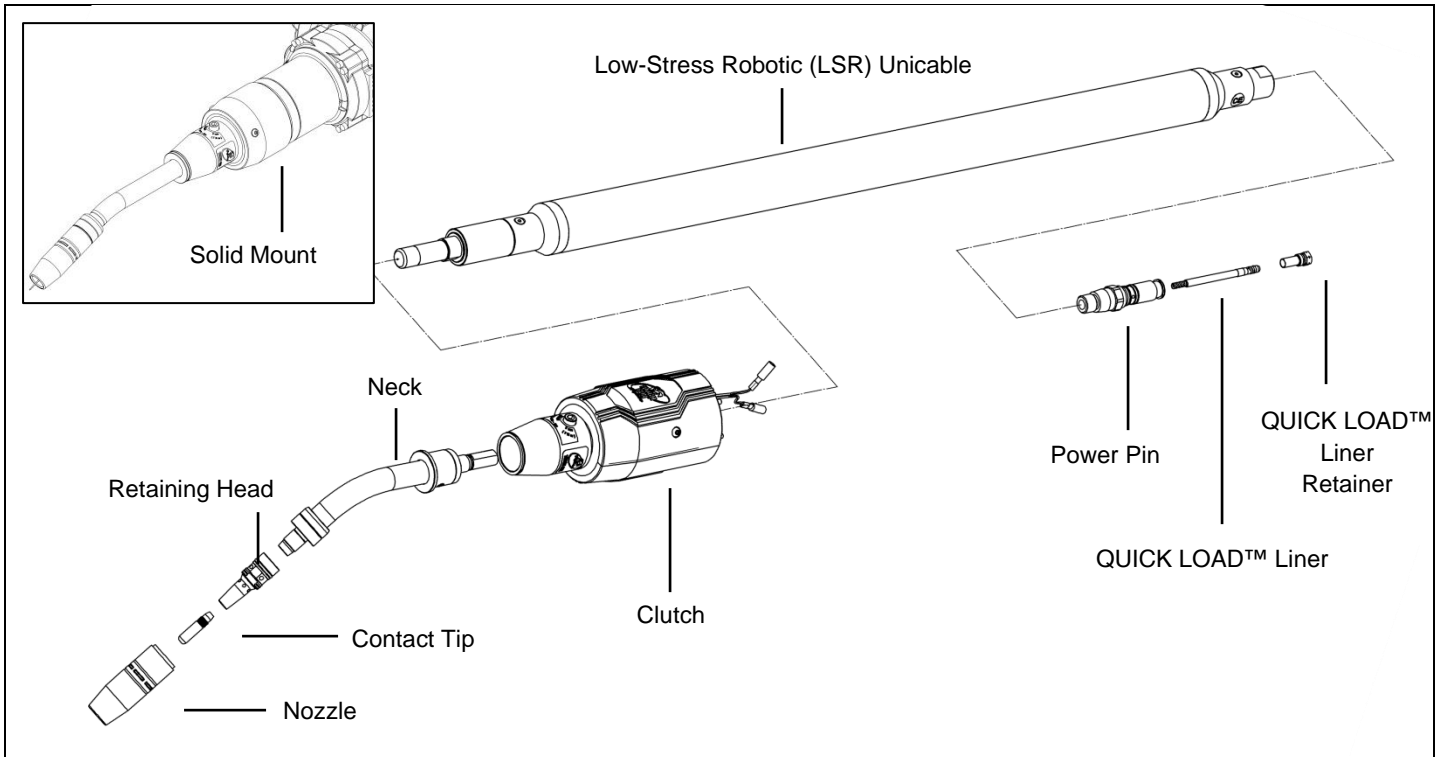


Tregaskiss
2570 North Talbot Road
Windsor, Ontario N0R 1L0
Canada

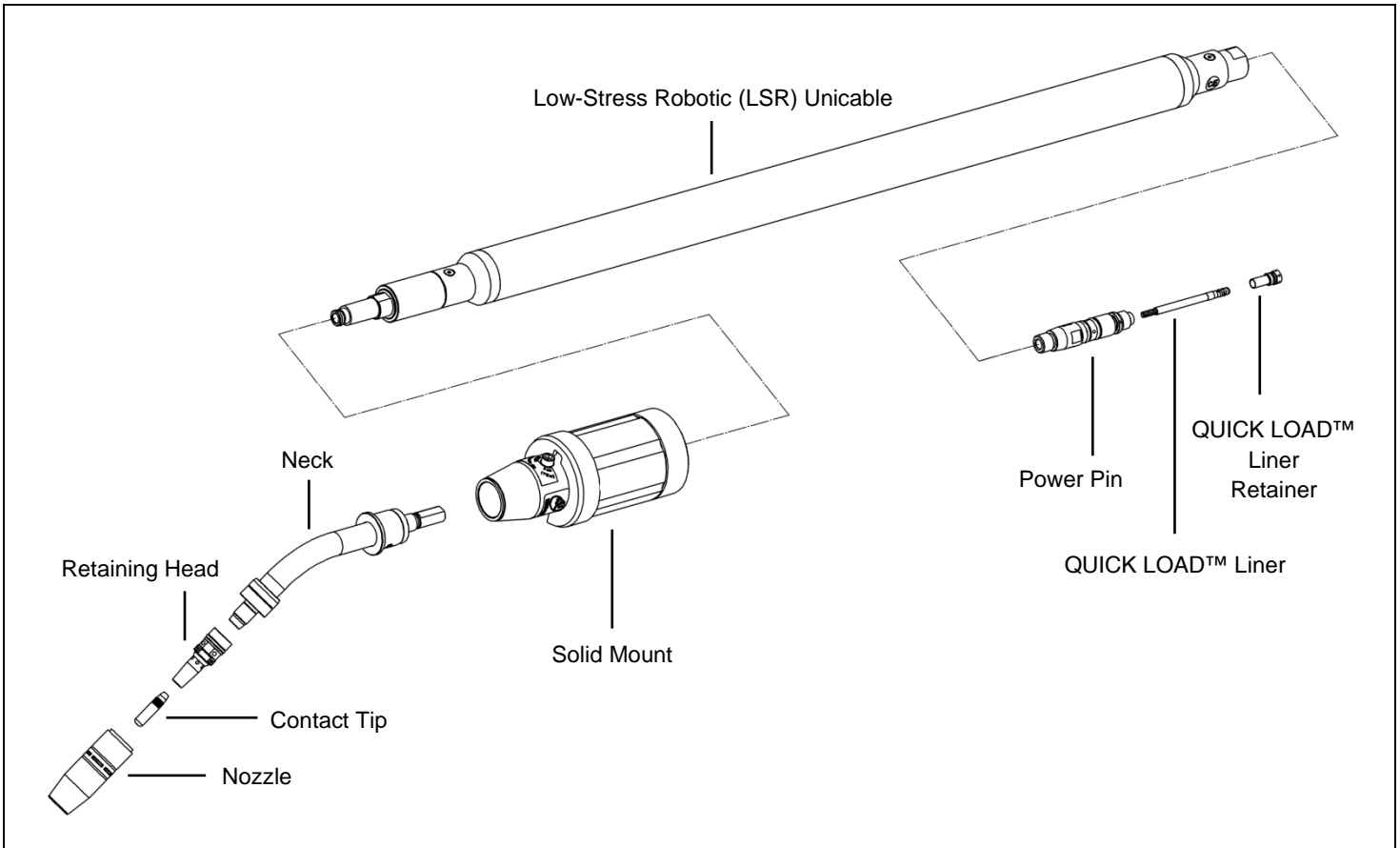
Phone: 1-855-MIGWELD (644-9353) (US & Canada)
+1-519-737-3000 (International)
Fax: 519-737-1530
For more information, visit us at Tregaskiss.com

System Components

System Components for all Robots excluding FANUC® Robots



System Components for FANUC® Robots



Know Your Options

What's the difference between clutch and solid mount?

A clutch mount is designed to trigger an emergency stop in the event of a robotic collision, whereas a solid mount is not equipped with this functionality. Although many of today's through-arm style robots are equipped with independent collision detection software and may not require this functionality in a robotic MIG gun, this option is sometimes selected during gun configuration as an additional safeguard.

Wire Brake

Wire brake holds wire to a consistent stick out to allow a repeatable tool center point (TCP) for touch sensing / seam tracking while the torch articulates. Selecting the wire brake option when configuring a gun will impact TCP. 40-60 psi maximum air supply is required for proper operation. Wire brake is available for wire sizes between 0.030" and 1/16", and requires the use of a jump liner (for use with conventional liners). This option is not compatible with QUICK LOAD™ Liners or the QUICK LOAD Liner AutoLength™ System.



TOUGH LOCK™ Consumables

This system features our innovative TOUGH LOCK Contact Tips and Retaining Heads. TOUGH LOCK Contact Tips are precision-machined using a process that tightly controls tip tolerances, and TOUGH LOCK Retaining Heads are manufactured with a tapered design at both ends that keep consumables locked from tip to neck for improved weld consistency and to maximize heat dissipation.

Air Blast

Air blast utilizes compressed shop air to clear loose debris from front-end consumables thereby reducing the frequency of nozzle cleaning. 80-100 psi maximum air supply required for proper operation. This option is not available for TOUGH GUN™ TA3 Robotic Air-Cooled MIG Guns for FANUC® robots equipped with TOUGH GUN I.C.E.™ Technology.

TOUGH GUN I.C.E.™ Technology

This technology boosts the duty cycle of our already highly robust air-cooled TOUGH GUN MIG Guns by providing water-cooled benefits through our I.C.E. (Integrated Cooling Enhancer) component. This component circulates water at the nozzle, keeping TOUGH LOCK™ Consumables running cooler and lasting longer. In the TOUGH GUN TA3 Robotic MIG Gun Series, this option is available only for FANUC® and ABB® robots. TOUGH GUN I.C.E. Technology is not compatible with TOUGH ACCESS™ Consumables.

TOUGH ACCESS™ Consumables

This sleek line of consumables (including retaining heads and nozzles) allows entry into hard-to-reach places that would otherwise be inaccessible due to fixture or weldment design. This option is not compatible with TOUGH GUN I.C.E. Technology.



QUICK LOAD™ Liners

The QUICK LOAD Liner System loads from the front of the MIG gun, and requires less than half the time and effort for replacement when compared with conventional liners. These liners interface with a QUICK LOAD Liner Retainer that is seated within the power pin of the gun on first use. QUICK LOAD Liners come standard on TOUGH GUN Robotic MIG Guns unless wire brake is a selected option. These liners are compatible with the QUICK LOAD Liner AutoLength™ System. Available for wire sizes between 0.023" and 3/32" and in lengths of up to 15 feet for robotic applications.



QUICK LOAD Liner AutoLength™ System

The QUICK LOAD Liner AutoLength System is designed to minimize downtime, wire feeding and quality issues commonly associated with short liner length. Housed inside the power pin, this spring-loaded module applies constant forward pressure on the liner, keeping it seated properly in the retaining head. This revolutionary technology allows for up to one-inch forgiveness if the liner is too short and accommodates liner movement during welding. Available for wire sizes between 0.030" and 3/32", this new system is designed specifically for use with QUICK LOAD Liners. Not available when wire brake option is selected.

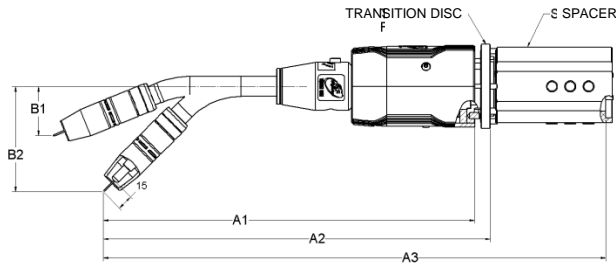


Gun Configurations

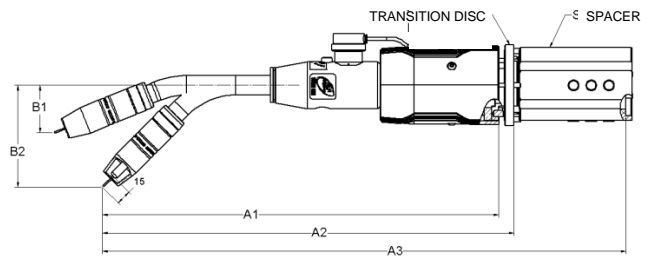
NOTE: For Center Of Mass information, please visit Tregaskiss.com/TA3

Standard Configurations – Clutch

Clutch



Clutch with Wire Brake



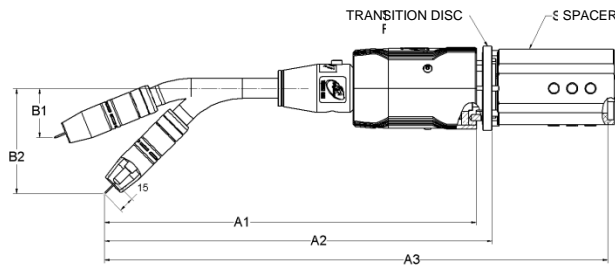
Robot	Model	Neck	Neck Angle	Clutch					Clutch with Wire Brake				
				TCP (mm)					TCP (mm)				
				A1	A2	A3	B1	B2	A1	A2	A3	B1	B2
COMAU®	Smart5 Arc6	405-22QC	22	-	414	-	47	-	-	451	-	47	-
		405-22QCL	22	-	472	-	47	-	-	509	-	47	-
		405-22QCL1	22	-	527	-	47	-	-	564	-	47	-
		405-45QC	45	-	367	-	-	100	-	403	-	-	100
		405-45QCL	45	-	414	-	-	120	-	451	-	-	120
		405-45QCL1	45	-	469	-	-	120	-	506	-	-	120
		405-45QCL2	45	-	519	-	-	120	-	556	-	-	120
Kawasaki®	BA006N	405-22QC	22	-	-	488	47	-	-	525	47	-	
		405-22QCL	22	-	-	545	47	-	-	582	47	-	
		405-22QCL1	22	-	-	601	47	-	-	638	47	-	
		405-45QC	45	-	-	440	-	100	-	477	-	100	
		405-45QCL	45	-	-	487	-	120	-	524	-	120	
		405-45QCL1	45	-	-	542	-	120	-	579	-	120	
		405-45QCL2	45	-	-	592	-	120	-	629	-	120	
KUKA®	KR 5 HW, KR 16 L8 HW	405-22QC	22	403	-	-	47	-	440	-	-	47	-
		405-22QCL	22	461	-	-	47	-	498	-	-	47	-
		405-22QCL1	22	516	-	-	47	-	553	-	-	47	-
		405-45QC	45	355	-	-	-	100	391	-	-	-	100
		405-45QCL	45	402	-	-	-	120	438	-	-	-	120
		405-45QCL1	45	458	-	-	-	120	493	-	-	-	120
		405-45QCL2	45	508	-	-	-	120	543	-	-	-	120
KUKA®	KR 16 arc HW	405-22QC	22	-	414	-	47	-	451	-	47	-	
		405-22QCL	22	-	472	-	47	-	509	-	47	-	
		405-22QCL1	22	-	527	-	47	-	564	-	47	-	
		405-45QC	45	-	367	-	-	100	403	-	-	100	
		405-45QCL	45	-	414	-	-	120	450	-	-	120	
		405-45QCL1	45	-	469	-	-	120	506	-	-	120	
		405-45QCL2	45	-	519	-	-	120	556	-	-	120	
Motoman®	All models except MA1440, MA2010 and MA3120	405-22QC	22	403	-	-	47	-	440	-	-	47	-
		405-22QCL	22	461	-	-	47	-	498	-	-	47	-
		405-22QCL1	22	516	-	-	47	-	553	-	-	47	-
		405-45QC	45	355	-	-	-	100	392	-	-	-	100
		405-45QCL	45	402	-	-	-	120	439	-	-	-	120
		405-45QCL1	45	458	-	-	-	120	495	-	-	-	120
		405-45QCL2	45	508	-	-	-	120	545	-	-	-	120
Motoman	MA1440, MA2010, MA3120	405-22QC	22	-	-	508	47	-	-	-	545	47	-
		405-22QCL	22	-	-	566	47	-	-	-	603	47	-
		405-22QCL1	22	-	-	621	47	-	-	-	658	47	-
		405-45QC	45	-	-	460	-	100	-	-	497	-	100
		405-45QCL	45	-	-	507	-	120	-	-	544	-	120
		405-45QCL1	45	-	-	563	-	120	-	-	600	-	120
		405-45QCL2	45	-	-	613	-	120	-	-	649	-	120

Gun Configurations (Continued)

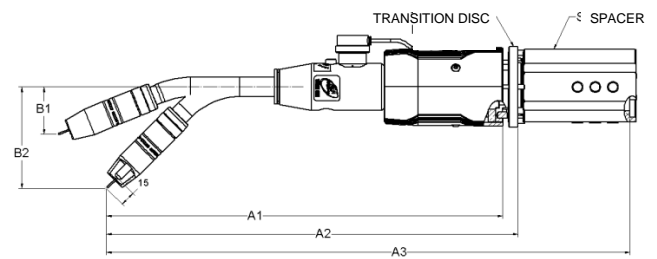
NOTE: For Center Of Mass information, please visit Tregaskiss.com/TA3

Standard Configurations – Clutch (Continued)

Clutch



Clutch with Wire Brake



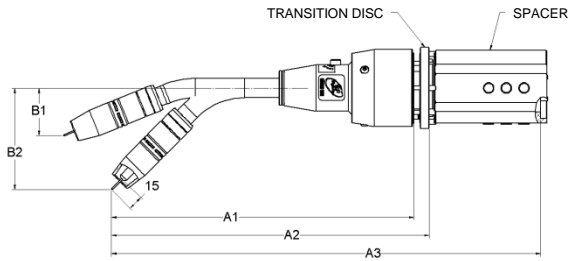
Robot	Model	Neck	Neck Angl e	Clutch					Clutch with Wire Brake				
				TCP (mm)					TCP (mm)				
				A1	A2	A3	B1	B2	A1	A2	A3	B1	B2
Nachi®	NB04, NB04L	405-22QC	22	-	413	-	47	-	-	449	-	47	-
		405-22QCL	22	-	471	-	47	-	-	507	-	47	-
		405-22QCL1	22	-	526	-	47	-	-	563	-	47	-
		405-45QC	45	-	365	-	-	100	-	402	-	-	100
		405-45QCL	45	-	412	-	-	120	-	449	-	-	120
		405-45QCL1	45	-	467	-	-	120	-	504	-	-	120
		405-45QCL2	45	-	517	-	-	120	-	554	-	-	120
OTC Daihen®	AX-V4, AX-V4L	405-22QC	22	403	-	-	47	-	439	-	-	47	-
		405-22QCL	22	461	-	-	47	-	497	-	-	47	-
		405-22QCL1	22	516	-	-	47	-	552	-	-	47	-
		405-45QC	45	355	-	-	-	100	391	-	-	-	100
		405-45QCL	45	402	-	-	-	120	439	-	-	-	120
		405-45QCL1	45	458	-	-	-	120	494	-	-	-	120
		405-45QCL2	45	508	-	-	-	120	544	-	-	-	120
OTC Daihen	All B4, All B4L, FD B4, FD B4L	405-22QC	22	-	413	-	47	-	-	449	-	47	-
		405-22QCL	22	-	471	-	47	-	-	507	-	47	-
		405-22QCL1	22	-	526	-	47	-	-	563	-	47	-
		405-45QC	45	-	365	-	-	100	-	402	-	-	100
		405-45QCL	45	-	412	-	-	120	-	449	-	-	120
		405-45QCL1	45	-	467	-	-	120	-	504	-	-	120
		405-45QCL2	45	-	517	-	-	120	-	554	-	-	120
Panasonic®	TB1800WGIII	405-22QC	22	403	-	-	47	-	440	-	-	47	-
		405-22QCL	22	461	-	-	47	-	498	-	-	47	-
		405-22QCL1	22	516	-	-	47	-	553	-	-	47	-
		405-45QC	45	355	-	-	-	100	392	-	-	-	100
		405-45QCL	45	402	-	-	-	120	439	-	-	-	120
		405-45QCL1	45	458	-	-	-	120	495	-	-	-	120
		405-45QCL2	45	508	-	-	-	120	545	-	-	-	120
Panasonic	TM-1100, TM-1400, TM-1600, TM-1800, TM-2000	405-22QC	22	-	-	471	47	-	-	-	508	47	-
		405-22QCL	22	-	-	529	47	-	-	-	566	47	-
		405-22QCL1	22	-	-	584	47	-	-	-	621	47	-
		405-45QC	45	-	-	423	-	100	-	-	460	-	100
		405-45QCL	45	-	-	470	-	120	-	-	507	-	120
		405-45QCL1	45	-	-	526	-	120	-	-	563	-	120
		405-45QCL2	45	-	-	576	-	120	-	-	613	-	120

Gun Configurations (Continued)

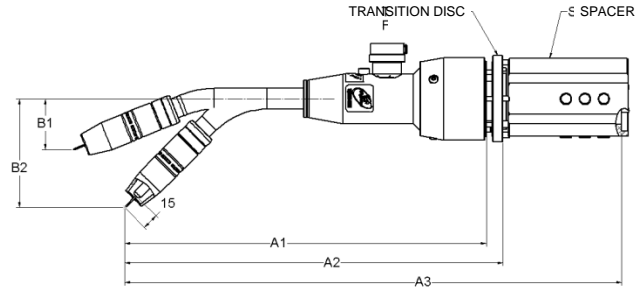
NOTE: For Center Of Mass information, please visit Tregaskiss.com/TA3

Standard Configurations – Solid Mount

Solid Mount



Solid Mount with Wire Brake



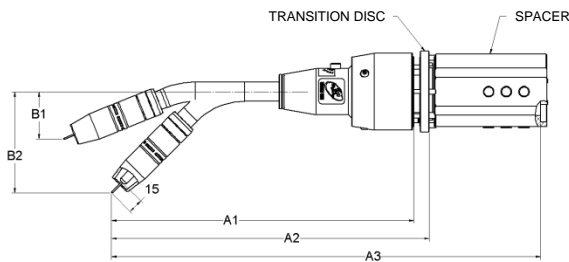
Robot	Model	Neck	Neck Angl e	Solid Mount					Solid Mount with Wire Brake				
				TCP (mm)					TCP (mm)				
				A1	A2	A3	B1	B2	A1	A2	A3	B1	B2
ABB®	IRB1600ID, IRB1520ID	405-22QC	22	-	356	-	47	-	-	392	-	47	-
		405-22QCL	22	-	414	-	47	-	-	450	-	47	-
		405-22QCL1	22	-	470	-	47	-	-	505	-	47	-
		405-45QC	45	-	309	-	-	100	-	345	-	-	100
		405-45QCL	45	-	356	-	-	120	-	392	-	-	120
		405-45QCL1	45	-	411	-	-	120	-	447	-	-	120
		405-45QCL2	45	-	461	-	-	120	-	497	-	-	120
ABB	IRB2600ID	405-22QC	22	-	359	-	47	-	-	395	-	47	-
		405-22QCL	22	-	417	-	47	-	-	453	-	47	-
		405-22QCL1	22	-	472	-	47	-	-	508	-	47	-
		405-45QC	45	-	309	-	-	100	-	347	-	-	100
		405-45QCL	45	-	356	-	-	120	-	394	-	-	120
		405-45QCL1	45	-	411	-	-	120	-	450	-	-	120
FANUC®	100iC, 100iC-12, 100iC-6L, 100iC-7L, 100iC-8L, 120iC, 120iC-10L, 120iC-12L M710iC-12L, M10iA-6L, M10iA-7L	405-22QC	22	-	-	386	47	-	-	-	421	47	-
		405-22QCL	22	-	-	443	47	-	-	-	479	47	-
		405-22QCL1	22	-	-	499	47	-	-	-	534	47	-
		405-45QC	45	-	-	338	-	100	-	-	373	-	100
		405-45QCL	45	-	-	385	-	120	-	-	420	-	120
		405-45QCL1	45	-	-	440	-	120	-	-	475	-	120
		405-45QCL2	45	-	-	490	-	120	-	-	525	-	120
Kawasaki®	BA006N	405-22QC	22	-	-	432	47	-	-	-	467	47	-
		405-22QCL	22	-	-	489	47	-	-	-	525	47	-
		405-22QCL1	22	-	-	545	47	-	-	-	580	47	-
		405-45QC	45	-	-	384	-	100	-	-	420	-	100
		405-45QCL	45	-	-	431	-	120	-	-	467	-	120
		405-45QCL1	45	-	-	486	-	120	-	-	522	-	120
		405-45QCL2	45	-	-	536	-	120	-	-	572	-	120
KUKA®	KR 5 HW, KR 16 L8 HW	405-22QC	22	346	-	-	47	-	383	-	-	47	-
		405-22QCL	22	405	-	-	47	-	441	-	-	47	-
		405-22QCL1	22	460	-	-	47	-	496	-	-	47	-
		405-45QC	45	299	-	-	-	100	335	-	-	-	100
		405-45QCL	45	346	-	-	-	120	382	-	-	-	120
		405-45QCL1	45	402	-	-	-	120	437	-	-	-	120
		405-45QCL2	45	452	-	-	-	120	487	-	-	-	120
KUKA	KR 16 arc HW	405-22QC	22	-	358	-	47	-	-	394	-	47	-
		405-22QCL	22	-	416	-	47	-	-	452	-	47	-
		405-22QCL1	22	-	471	-	47	-	-	507	-	47	-
		405-45QC	45	-	310	-	-	100	-	346	-	-	100
		405-45QCL	45	-	358	-	-	120	-	393	-	-	120
		405-45QCL1	45	-	413	-	-	120	-	449	-	-	120
		405-45QCL2	45	-	463	-	-	120	-	499	-	-	120

Gun Configurations (Continued)

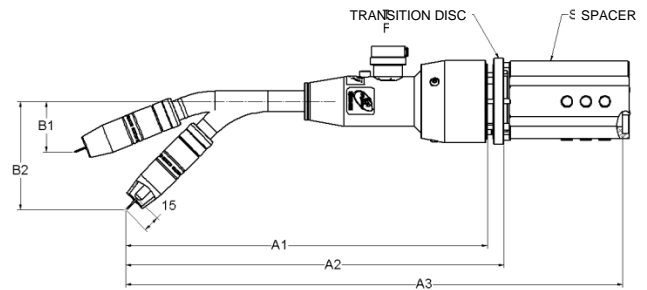
NOTE: For Center Of Mass information, please visit Tregaskiss.com/TA3

Standard Configurations – Solid Mount (Continued)

Solid Mount



Solid Mount with Wire Brake



Robot	Model	Neck	Neck Angl e	Solid Mount					Solid Mount with Wire Brake				
				TCP (mm)					TCP (mm)				
				A1	A2	A3	B1	B2	A1	A2	A3	B1	B2
Motoman®	All models except MA1440, MA2010 and MA3120	405-22QC	22	347	-	-	47	-	383	-	-	47	-
		405-22QCL	22	405	-	-	47	-	441	-	-	47	-
		405-22QCL1	22	460	-	-	47	-	496	-	-	47	-
		405-45QC	45	299	-	-	-	100	335	-	-	-	100
		405-45QCL	45	346	-	-	-	120	382	-	-	-	120
		405-45QCL1	45	402	-	-	-	120	438	-	-	-	120
		405-45QCL2	45	452	-	-	-	120	487	-	-	-	120
Motoman	MA1440, MA2010, MA3120	405-22QC	22	-	-	452	47	-	-	-	488	47	-
		405-22QCL	22	-	-	510	47	-	-	-	546	47	-
		405-22QCL1	22	-	-	565	47	-	-	-	601	47	-
		405-45QC	45	-	-	404	-	100	-	-	440	-	100
		405-45QCL	45	-	-	451	-	120	-	-	487	-	120
		405-45QCL1	45	-	-	507	-	120	-	-	543	-	120
Panasonic®	TB1800WGIII	405-22QC	22	347	-	-	47	-	386	-	-	47	-
		405-22QCL	22	405	-	-	47	-	444	-	-	47	-
		405-22QCL1	22	460	-	-	47	-	499	-	-	47	-
		405-45QC	45	299	-	-	-	100	338	-	-	-	100
		405-45QCL	45	346	-	-	-	120	385	-	-	-	120
		405-45QCL1	45	402	-	-	-	120	440	-	-	-	120
Panasonic	TM-1100, TM-1400, TM-1600, TM-1800, TM-2000	405-22QC	22	-	-	415	47	-	-	-	451	47	-
		405-22QCL	22	-	-	473	47	-	-	-	509	47	-
		405-22QCL1	22	-	-	528	47	-	-	-	564	47	-
		405-45QC	45	-	-	367	-	100	-	-	403	-	100
		405-45QCL	45	-	-	414	-	120	-	-	450	-	120
		405-45QCL1	45	-	-	470	-	120	-	-	505	-	120
		405-45QCL2	45	-	-	520	-	120	-	-	555	-	120

Robot Make and Model Options

Note: The 3-digit character selections provided for the following available robot makes and models are intended for use when configuring a TOUGH GUN TA3 MIG Gun part number (see **Ordering Information** on page 16).

ABB®		FANUC®		Motoman®	
A24*	IRB1600ID, IRB1520ID	F05*	100iC, 100iC-12	M01**	EA1400, SSA2000
A28*	IRB2600ID 15/1.85	F06*	120iC, 120iC-10L	M02**	EA1900N
A29*	IRB2600ID 8/2.00	F07*	100iC-6L, 100iC-7L, M10iA-6L, M10iA-7L	M16**	EA1400 XRC
COMAU®		F08*	120iC-10L	M17**	EA1900 XRC
C35**	Smart5 Arc6	F10*	100iC-8L	M31**	MA3100
Kawasaki®		F41*	M710iC-12L	M35	MA1440
W42	BA006N	OTC Daihen®, Nachi®		M38	MA2010
KUKA®		D03**	OTC AX-V4	M39	MA3120
K23	KR 5 HW	D22**	OTC AX-V4L	Panasonic®	
K27	KR 16 L8 HW	D25**	OTC AII-B4	P34	TB1800WGIII
K30	KR 16 HW	D26**	OTC AII-B4L	P37^	TM-1100, TM-1400
		D36**	OTC FD B4, Nachi NB04	P39^	TM-1800
		D37**	OTC FD B4L, Nachi NB04L	P40^	TM-1600
				P41^	TM-2000

*Solid mount models only **Clutch mount models only ^Must be configured with a Miller® or Panasonic® power pin

Consumable Options

Nozzles (Slip-On)

401-4-62	SD – 5/8" bore, 1/8" recess (copper)	401-44-62	SD – 5/8" bore, 1/4" stick out (copper)
401-5-62	HD – 5/8" bore, 1/4" recess (copper)	401-48-50	SD – 1/2" bore, 1/8" stick out (bottleneck, brass)
401-6-50	HD – 1/2" bore, 1/8" recess (copper)	401-48-62	HD – 5/8" bore, flush tip (bottleneck, copper)
401-6-62	HD – 5/8" bore, 1/8" recess (copper)	401-49-50	HD – 1/2" bore, flush tip (bottleneck, brass)
401-7-62	HD – 5/8" bore, 1/4" recess (copper)	401-51-62	HD – 5/8" bore, flush tip (bottleneck, brass)
401-7-75	HD – 3/4" bore, 1/8" recess (brass)	401-71-62	HD – 5/8" bore, 1/8" recess (brass), straight bore
401-8-62	SD – 5/8" bore, 1/8" stick out (copper)	401-72-62	HD – 5/8" bore, 1/8" recess (brass)
401-42-50	SD – 1/2" bore, 1/8" recess (bottleneck, brass)	401-81-62	HD – 5/8" bore, 1/8" stick out (copper)
401-42-50C	SD – 1/2" bore, 1/8" recess (bottleneck, copper)	401-87-62	HD – 5/8" bore, 1/8" stick out (brass)
401-44-50	SD – 1/2" bore, 1/4" stick out (bottleneck, brass)	401-91-62	HD – 5/8" bore, 1/8" stick out (brass), straight bore

Nozzles (Thread-On)

401-8-62BRT	SD – 5/8" bore, 1/8" stick out (brass)	401-43-62	SD – 5/8" bore, 1/8" recess (copper)
401-14-62	HD – 5/8" bore, 1/8" recess (copper)	401-47-51	SD – 1/2" bore, 1/8" recess (bottleneck, copper)
401-18-62	SD – 5/8" bore, 1/8" stick out (copper)	401-48-50CT	SD – 1/2" bore, 1/8" stick out (bottleneck, copper)
401-20-62	HD – 5/8" bore, 1/8" stick out (copper)	401-52-62	HD – 5/8" bore, 1/4" recess (copper)
401-41-62	HD – 5/8" bore, 1/8" stick out (brass)	401-53-62	HD – 5/8" bore, 1/8" stick out (bottleneck, copper)
401-41-75	HD – 3/4" bore, 1/8" recess (brass)		

TOUGH ACCESS™ Nozzles*

401-54-50	1/2" bore, 1/8" recess (bottleneck)	401-56-50	1/2" bore, 1/8" stick out (bottleneck)
401-54-62	5/8" bore, 1/8" recess, straight bore	401-56-62	5/8" bore, 1/8" stick out, straight bore
401-55-50	1/2" bore, flush tip (bottleneck)	401-57-50	1/2" bore, 1/4" stick out (bottleneck)
401-55-62	5/8" bore, flush tip, straight bore	401-57-62	5/8" bore, 1/4" stick out, straight bore

*TCP will be different from TOUGH LOCK™ Consumables (verify X, Y, Z offset)

TOUGH LOCK™ Standard Duty (SD) Contact Tips (use with 404-18 or 404-54 retaining heads)

403-14-30	for 0.030" (0.8 mm) wire	403-14-1.0	for 1.0 mm wire
403-14-35	for 0.035" (0.9 mm) wire	403-14-45	for 0.045" (1.2 mm) wire

TOUGH LOCK™ Standard Duty Tapered Contact Tips (use with 404-18 or 404-54 retaining heads)

403-12-30	for 0.030" (0.8 mm) wire	403-12-1.0	for 1.0 mm wire
403-12-35	for 0.035" (0.9 mm) wire	403-12-45	for 0.045" (1.2 mm) wire

Consumable Options (Continued)

TOUGH LOCK™ Heavy Duty (HD) Contact Tips (use with 404-32, 404-52 or 404-50 retaining heads)

403-20-30	for 0.030" (0.8 mm) wire	403-20-1.4	for 1.4 mm wire
403-20-35	for 0.035" (0.9 mm) wire	403-20-116	for 1/16" (1.6 mm) wire
403-20-1.0	for 1.0 mm wire	403-20-1.8	for 1.8 mm wire
403-20-45	for 0.045" (1.2 mm) wire	403-20-78	for 0.078" (2.0 mm) wire
403-20-364	for 3/64" (1.2 mm) wire	403-20-564	for 5/64" (2.0 mm) wire
403-20-52	for 0.052" (1.3 mm) wire	403-20-332	for 3/32" (2.4 mm) wire

TOUGH LOCK Extended Life Heavy Duty (EHD) Contact Tips (use with 404-32, 404-52 or 404-50 retaining heads)

403-27-30	for 0.030" (0.8 mm) wire	403-27-45	for 0.045" (1.2 mm) wire
403-27-35	for 0.035" (0.9 mm) wire	403-27-364	for 3/64" (1.2 mm) wire
403-27-1.0	for 1.0 mm wire		

TOUGH LOCK Heavy Duty Tapered Contact Tips (use with 404-32, 404-52 or 404-50 retaining heads)

403-21-30	for 0.030" (0.8 mm) wire	403-21-45	for 0.045" (1.2 mm) wire
403-21-35	for 0.035" (0.9 mm) wire	403-21-52	for 0.052" (1.3 mm) wire
403-21-1.0	for 1.0 mm wire	403-21-116	for 1/16" (1.6 mm) wire

TOUGH LOCK Teach Tips (used for robotic programming) (Continued)

403-20-01	Adjustable teach tip	403-20-075	Teach tip 3/4" CTWD
403-20-05	Teach tip 1/2" CTWD	403-20-10mm	Teach tip 10 mm CTWD
403-20-062	Teach tip 5/8" CTWD	403-20-15mm	Teach tip 15 mm CTWD

TOUGH LOCK Retaining Heads

404-18	SD – retaining head for slip-on nozzles	404-32	HD – retaining head for slip-on nozzles
		404-52	HD – retaining head for thread-on nozzles

TOUGH ACCESS Retaining Heads*

404-50	HD – retaining head	404-54	SD – retaining head
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*TCP will be different from TOUGH LOCK™ Consumables (verify X, Y, Z offset)

QUICK LOAD™ Liners

415-26	QUICK LOAD Liner Retainer
415-24	QUICK LOAD Liner Retainer (required for 3/32" wire)
415-30-6Q	QUICK LOAD Liner for 0.030" (0.8 mm) wire; 6' (1.8 m)
415-30-15Q	QUICK LOAD Liner for 0.030" (0.8 mm) wire; 15' (5.0 m)
415-35-6Q	QUICK LOAD Liner for 0.035" (0.9 mm) - 0.045" (1.2 mm) wire; 6' (1.8 m)
415-35-10Q	QUICK LOAD Liner for 0.035" (0.9 mm) - 0.045" (1.2 mm) wire; 10' (3.05 m)
415-35-15Q	QUICK LOAD Liner for 0.035" (0.9 mm) - 0.045" (1.2 mm) wire; 15' (5.0 m)
415-116-6Q	QUICK LOAD Liner for 0.052" (1.3 mm) - 1/16" (1.6 mm) wire; 6' (1.8 m)
415-116-10Q	QUICK LOAD Liner for 0.052" (1.3 mm) - 1/16" (1.6 mm) wire; 10' (3.05 m)
415-116-15Q	QUICK LOAD Liner for 0.052" (1.3 mm) - 1/16" (1.6 mm) wire; 15' (5.0 m)
415-564-6Q	QUICK LOAD Liner for 1/16" (1.6 mm) - 5/64" (2.0 mm) wire; 6' (1.8 m)
415-564-15Q	QUICK LOAD Liner for 1/16" (1.6 mm) - 5/64" (2.0 mm) wire; 15' (5.0 m)
415-332-6Q	QUICK LOAD Liner for 0.078" (2.0 mm) - 3/32" (2.4 mm) wire; 6' (1.8 m) (requires 415-24 retainer)
415-332-15Q	QUICK LOAD Liner for 0.078" (2.0 mm) - 3/32" (2.4 mm) wire; 15' (5.0 m) (requires 415-24 retainer)

Conventional Liners (required for MIG guns equipped with wire brake only)

415-30-6	for 0.030" (0.8 mm) wire; 6' (1.8 m) – round wound
415-30-15	for 0.030" (0.8 mm) wire; 15' (5.0 m) – round wound
415-35-6	for 0.035" (0.9 mm) - 0.045" (1.2 mm) wire; 6' (1.8 m) – round wound
415-35-10	for 0.035" (0.9 mm) - 0.045" (1.2 mm) wire; 10' (3.05 m) – round wound
415-35-15	for 0.035" (0.9 mm) - 0.045" (1.2 mm) wire; 15' (5.0 m) – round wound
415-116-6	for 0.052" (1.3 mm) - 1/16" (1.6 mm) wire; 6' (1.8 m) – round wound
415-116-10	for 0.052" (1.3 mm) - 1/16" (1.6 mm) wire; 10' (3.05 m) – round wound
415-116-15	for 0.052" (1.3 mm) - 1/16" (1.6 mm) wire; 15' (5.0 m) – round wound
415-564-6	for 1/16" (1.6 mm) - 5/64" (2.0 mm) wire; 6' (1.8 m) – round wound
415-564-15	for 1/16" (1.6 mm) - 5/64" (2.0 mm) wire; 15' (5.0 m) – flat wound
415-332-6	for 0.078" (2.0 mm) - 3/32" (2.4 mm) wire; 6' (1.8 m) – flat wound
415-332-15	for 0.078" (2.0 mm) - 3/32" (2.4 mm) wire; 15' (5.0 m) – flat wound

Jump Liners (required for MIG guns equipped with wire brake only; to be used with conventional liners)

495-18-35	for 0.035" (0.9 mm) - 0.045" (1.2 mm) wire; 26"
495-18-116	for 0.045" (1.2 mm) - 1/16" (1.6 mm) wire; 26"

Components

Air-Cooled Necks

405-22QC	22 degree neck, short length	405-45QCL	45 degree neck, medium length
405-22QCL	22 degree neck, medium length	405-45QCL1	45 degree neck, long length
405-22QCL1	22 degree neck, long length	405-45QCL2	45 degree neck, extended length
405-45QC	45 degree neck, short length		

TOUGH GUN I.C.E.™ Necks

590-22-XXXX	22 degree neck, short length	590-45L-XXXX	45 degree neck, medium length
590-22L-XXXX	22 degree neck, medium length	590-45L1-XXXX	45 degree neck, long length
590-22L1-XXXX	22 degree neck, long length	590-45L2-XXXX	45 degree neck, extended length
590-45-XXXX	45 degree neck, short length		

NOTE: XXXX in the part numbers above represent nozzle O.D.; i.e. 590-22-0.938 = 0.938" O.D., 590-45L1-1.106 = 1.106" O.D. (refer to the O.D. column in the SPEC TRG-TNZ Tregaskiss Nozzles Spec Sheet for more information)

Low-Stress Robotic (LSR) Unicables

NOTE: LSR Uncable part numbers are determined by gun model type, robot brand, robot model, and gun options. Please find the LSR Uncable part number you require from the appropriate chart provided:

For Clutch models	page 10
For Clutch models (Euro)	page 11
For Clutch models (equipped with TOUGH GUN I.C.E.™ Technology)	page 11
For Solid Mount models	page 11
For Solid Mount models (equipped with TOUGH GUN I.C.E.™ Technology)	page 12
For Solid Mount models (Euro)	page 13
For Solid Mount models (Euro; equipped with TOUGH GUN I.C.E. Technology)	page 13

Low-Stress Robotic (LSR) Unicables – Clutch

Robot Brand	Robot Model	LSR Uncable Part Number			
		No Options	Air Blast	Wire Brake	Air Blast + Wire Brake
COMAU®	Smart5 Arc6	58CM002	58CM002A	58CM002W	58CM002AW
Kawasaki®	BA006N	58CKW042	58CKW042A	58CKW042W	58CKW042AW
KUKA®	KR 5 ARC HW	58CK023	58CK023A	58CK023W	58CK023AW
KUKA	KR 16 L8 HW	58CK027	58CK027A	58CK027W	58CK027AW
KUKA	KR 16 arc HW	58CK030	58CK030A	58CK030W	58CK030AW
Motoman®	EA1400 XRC	58CM016	58CM016A	58CM016W	58CM016AW
Motoman	EA1900 XRC	58CM017	58CM017A	58CM017W	58CM017AW
Motoman	EA1400N	58CM001	58CM001A	58CM001W	58CM001AW
Motoman	SSA2000	58CM001	58CM001A	58CM001W	58CM001AW
Motoman	MA1400	58CM001	58CM001A	58CM001W	58CM001AW
Motoman	VA1400	58CM001	58CM001A	58CM001W	58CM001AW
Motoman	MA1440	58CM035	58CM035A	58CM035W	58CM035AW
Motoman	EA1900N	58CM002	58CM002A	58CM002W	58CM002AW
Motoman	MA2010	58CM038	58CM038A	58CM038W	58CM038AW
Motoman	MA3100	58CM031	58CM031A	58CM031W	58CM031AW
Motoman	MA3120	58CM031	58CM031A	58CM031W	58CM031AW
Nachi®	NB04	58CD036	58CD036A	58CD036W	58CD036AW
Nachi	NB04L	58CD037	58CD037A	58CD037W	58CD037AW
OTC Daihen®	AII-B4	58CD025	58CD025A	58CD025W	58CD025AW
OTC Daihen	AII-B4L	58CD026	58CD026A	58CD026W	58CD026AW
OTC Daihen	AX-V4	58CD003	58CD003A	58CD003W	58CD003AW
OTC Daihen	AX-V4L	58CD022	58CD022A	58CD022W	58CD022AW
OTC Daihen	FD B4	58CD036	58CD036A	58CD036W	58CD036AW
OTC Daihen	FD B4L	58CD037	58CD037A	58CD037W	58CD037AW
Panasonic®	TB1800WGIII	58CP034	58CP034A	58CP034W	58CP034AW
Panasonic*	TM-1100, TM-1400	P58CP037*	P58CP037A*	P58CP037W*	P58CP037AW*
Panasonic*	TM-1800	P58CP039*	P58CP039A*	P58CP039W*	P58CP039AW*
Panasonic*	TM-1600	P58CP040*	P58CP040A*	P58CP040W*	P58CP040AW*
Panasonic*	TM-2000	P58CP041*	P58CP041A*	P58CP041W*	P58CP041AW*
Panasonic**	TM-1100, TM-1400	M58CP037**	M58CP037A**	M58CP037W**	M58CP037AW**
Panasonic**	TM-1800	M58CP039**	M58CP039A**	M58CP039W**	M58CP039AW**
Panasonic**	TM-1600	M58CP040**	M58CP040A**	M58CP040W**	M58CP040AW**
Panasonic**	TM-2000	M58CP041**	M58CP041A**	M58CP041W**	M58CP041AW**

*Only available for use with a Panasonic® power pin

**Only available for use with a Miller® power pin

Components (Continued)

Low-Stress Robotic (LSR) Unicables – Clutch (Euro)

Robot Brand	Robot Model	Euro LSR Uicable Part Number			
		No Options	Air Blast	Wire Brake	Air Blast + Wire Brake
COMAU®	Smart5 Arc6	E58CM002	E58CM002A	E58CM002W	E58CM002AW
Kawasaki®	BA006N	E58CKW042	E58CKW042A	E58CKW042W	E58CKW042AW
KUKA®	KR 5 ARC HW	E58CK023	E58CK023A	E58CK023W	E58CK023AW
KUKA	KR 16 L8 HW	E58CK027	E58CK027A	E58CK027W	E58CK027AW
KUKA	KR 16 arc HW	E58CK030	E58CK030A	E58CK030W	E58CK030AW
Motoman®	EA1400 XRC	E58CM016	E58CM016A	E58CM016W	E58CM016AW
Motoman	EA1900 XRC	E58CM017	E58CM017A	E58CM017W	E58CM017AW
Motoman	EA1400N	E58CM001	E58CM001A	E58CM001W	E58CM001AW
Motoman	SSA2000	E58CM001	E58CM001A	E58CM001W	E58CM001AW
Motoman	MA1400	E58CM001	E58CM001A	E58CM001W	E58CM001AW
Motoman	VA1400	E58CM001	E58CM001A	E58CM001W	E58CM001AW
Motoman	MA1440	E58CM035	E58CM035A	E58CM035W	E58CM035AW
Motoman	EA1900N	E58CM002	E58CM002A	E58CM002W	E58CM002AW
Motoman	MA2010	E58CM038	E58CM038A	E58CM038W	E58CM038AW
Motoman	MA3100	E58CM031	E58CM031A	E58CM031W	E58CM031AW
Motoman	MA3120	E58CM031	E58CM031A	E58CM031W	E58CM031AW
Nachi®	NB04	E58CD036	E58CD036A	E58CD036W	E58CD036AW
Nachi	NB04L	E58CD037	E58CD037A	E58CD037W	E58CD037AW
OTC Daihen®	All-B4	E58CD025	E58CD025A	E58CD025W	E58CD025AW
OTC Daihen	All-B4L	E58CD026	E58CD026A	E58CD026W	E58CD026AW
OTC Daihen	AX-V4	E58CD003	E58CD003A	E58CD003W	E58CD003AW
OTC Daihen	AX-V4L	E58CD022	E58CD022A	E58CD022W	E58CD022AW
OTC Daihen	FD B4	E58CD036	E58CD036A	E58CD036W	E58CD036AW
OTC Daihen	FD B4L	E58CD037	E58CD037A	E58CD037W	E58CD037AW
Panasonic®	TB1800WGIII	E58CP034	E58CP034A	E58CP034W	E58CP034AW

Low-Stress Robotic (LSR) Unicables – Clutch (equipped with TOUGH GUN I.C.E. Technology)

Robot Brand	Robot Model	LSR Uicable Part Number (for TOUGH GUN I.C.E. Assembly)			
		No Options	Air Blast	Wire Brake	Air Blast + Wire Brake
Panasonic*	TM-1100, TM-1400	IP58CP037*	IP58CP037A*	IP58CP037W*	IP58CP037AW*
Panasonic*	TM-1800	IP58CP039*	IP58CP039A*	IP58CP039W*	IP58CP039AW*
Panasonic*	TM-1600	IP58CP040*	IP58CP040A*	IP58CP040W*	IP58CP040AW*
Panasonic*	TM-2000	IP58CP041*	IP58CP041A*	IP58CP041W*	IP58CP041AW*
Panasonic**	TM-1100, TM-1400	IM58CP037**	IM58CP037A**	IM58CP037W**	IM58CP037AW**
Panasonic**	TM-1800	IM58CP039**	IM58CP039A**	IM58CP039W**	IM58CP039AW**
Panasonic**	TM-1600	IM58CP040**	IM58CP040A**	IM58CP040W**	IM58CP040AW**
Panasonic**	TM-2000	IM58CP041**	IM58CP041A**	IM58CP041W**	IM58CP041AW**

*Only available for use with a Panasonic® power pin

**Only available for use with a Miller® power pin

Low-Stress Robotic (LSR) Unicables – Solid Mount

Robot Brand	Robot Model	LSR Uicable Part Number			
		No Options	Air Blast	Wire Brake	Air Blast + Wire Brake
ABB®	IRB1600ID	58SA024	58SA024A	58SA024W	58SA024AW
ABB	IRB1520ID	58SA024	58SA024A	58SA024W	58SA024AW
ABB	IRB2600ID-15/1.85	58SA028	58SA028A	58SA028W	58SA028AW
ABB	IRB2600ID-8/2.00	58SA029	58SA029A	58SA029W	58SA029AW
FANUC®	100iC	58SF005	58SF005A	58SF005W	58SF005AW
FANUC	100iC-12	58SF005	58SF005A	58SF005W	58SF005AW
FANUC	100iC-6L	58SF007	58SF007A	58SF007W	58SF007AW
FANUC	100iC-7L	58SF007	58SF007A	58SF007W	58SF007AW
FANUC	100iC-8L	58SF010	58SF010A	58SF010W	58SF010AW
FANUC	120iC	58SF006	58SF006A	58SF006W	58SF006AW
FANUC	120iC-10L	58SF008	58SF008A	58SF008W	58SF008AW
FANUC	120iC-12L	58SF008	58SF008A	58SF008W	58SF008AW
FANUC	M710iC-12L	58SF041	58SF041A	58SF041W	58SF041AW
FANUC	M10iA-6L	58SF007	58SF007A	58SF007W	58SF007AW
FANUC	M10iA-7L	58SF007	58SF007A	58SF007W	58SF007AW
Kawasaki®	BA006N	58SKW042	58SKW042A	58SKW042W	58SKW042AW

Components (Continued)

Low-Stress Robotic (LSR) Unicables – Solid Mount (Continued)

Robot Brand	Robot Model	LSR Uicable Part Number			
		No Options	Air Blast	Wire Brake	Air Blast + Wire Brake
KUKA®	KR 5 ARC HW	58SK023	58SK023A	58SK023W	58SK023AW
KUKA	KR 16 L8 HW	58SK027	58SK027A	58SK027W	58SK027AW
KUKA	KR 16 arc HW	58SK030	58SK030A	58SK030W	58SK030AW
Motoman®	EA1400 XRC	58SM016	58SM016A	58SM016W	58SM016AW
Motoman	EA1900 XRC	58SM017	58SM017A	58SM017W	58SM017AW
Motoman	EA1400N	58SM001	58SM001A	58SM001W	58SM001AW
Motoman	SSA2000	58SM001	58SM001A	58SM001W	58SM001AW
Motoman	MA1400	58SM001	58SM001A	58SM001W	58SM001AW
Motoman	VA1400	58SM001	58SM001A	58SM001W	58SM001AW
Motoman	MA1440	58SM035	58SM035A	58SM035W	58SM035AW
Motoman	EA1900N	58SM002	58SM002A	58SM002W	58SM002AW
Motoman	MA2010	58SM038	58SM038A	58SM038W	58SM038AW
Motoman	MA3100	58SM031	58SM031A	58SM031W	58SM031AW
Motoman	MA3120	58SM031	58SM031A	58SM031W	58SM031AW
Panasonic®	TB1800WGIII	58SP034	58SP034A	58SP034W	58SP034AW
Panasonic*	TM-1100, TM-1400	P58SP037*	P58SP037A*	P58SP037W*	P58SP037AW*
Panasonic*	TM-1800	P58SP039*	P58SP039A*	P58SP039W*	P58SP039AW*
Panasonic*	TM-1600	P58SP040*	P58SP040A*	P58SP040W*	P58SP040AW*
Panasonic*	TM-2000	P58SP041*	P58SP041A*	P58SP041W*	P58SP041AW*
Panasonic**	TM-1100, TM-1400	M58SP037**	M58SP037A**	M58SP037W**	M58SP037AW**
Panasonic**	TM-1800	M58SP039**	M58SP039A**	M58SP039W**	M58SP039AW**
Panasonic**	TM-1600	M58SP040**	M58SP040A**	M58SP040W**	M58SP040AW**
Panasonic**	TM-2000	M58SP041**	M58SP041A**	M58SP041W**	M58SP041AW**

*Only available for use with a Panasonic® power pin

**Only available for use with a Miller® power pin

Low-Stress Robotic (LSR) Unicables – Solid Mount (equipped with TOUGH GUN I.C.E. Technology)

Robot Brand	Robot Model	LSR Uicable Part Number (for TOUGH GUN I.C.E. Assembly)			
		No Options	Air Blast	Wire Brake	Air Blast + Wire Brake
ABB®	IRB1600ID	I58SA024	I58SA024A	I58SA024W	I58SA024AW
ABB	IRB1520ID	I58SA024	I58SA024A	I58SA024W	I58SA024AW
ABB	IRB2600ID-15/1.85	I58SA028	I58SA028A	I58SA028W	I58SA028AW
ABB	IRB2600ID-8/2.00	I58SA029	I58SA029A	I58SA029W	I58SA029AW
FANUC®	100iC	58SF205	-	58SF205W	-
FANUC	100iC-12	58SF205	-	58SF205W	-
FANUC	100iC-6L	58SF207	-	58SF207W	-
FANUC	100iC-7L	58SF207	-	58SF207W	-
FANUC	100iC-8L	58SF210	-	58SF210W	-
FANUC	120iC	58SF206	-	58SF206W	-
FANUC	120iC-10L	58SF208	-	58SF208W	-
FANUC	120iC-12L	58SF208	-	58SF208W	-
FANUC	M710iC-12L	58SF209	-	58SF209W	-
FANUC	M10iA-6L	58SF207	-	58SF207W	-
FANUC	M10iA-7L	58SF207	-	58SF207W	-
Panasonic*	TM-1100, TM-1400	IP58SP037*	IP58SP037A*	IP58SP037W*	IP58SP037AW*
Panasonic*	TM-1800	IP58SP039*	IP58SP039A*	IP58SP039W*	IP58SP039AW*
Panasonic*	TM-1600	IP58SP040*	IP58SP040A*	IP58SP040W*	IP58SP040AW*
Panasonic*	TM-2000	IP58SP041*	IP58SP041A*	IP58SP041W*	IP58SP041AW*
Panasonic**	TM-1100, TM-1400	IM58SP037**	IM58SP037A**	IM58SP037W**	IM58SP037AW**
Panasonic**	TM-1800	IM58SP039**	IM58SP039A**	IM58SP039W**	IM58SP039AW**
Panasonic**	TM-1600	IM58SP040**	IM58SP040A**	IM58SP040W**	IM58SP040AW**
Panasonic**	TM-2000	IM58SP041**	IM58SP041A**	IM58SP041W**	IM58SP041AW**

*Only available for use with a Panasonic® power pin

**Only available for use with a Miller® power pin

Components (Continued)

Low-Stress Robotic (LSR) Unicables – Solid Mount (Euro)

Robot Brand	Robot Model	Euro LSR Uicable Part Number			
		No Options	Air Blast	Wire Brake	Air Blast + Wire Brake
ABB®	IRB1600ID	E58SA024	E58SA024A	E58SA024W	58SA024AW
ABB	IRB1520ID	E58SA024	E58SA024A	E58SA024W	58SA024AW
ABB	IRB2600ID-15/1.85	E58SA028	E58SA028A	E58SA028W	58SA028AW
ABB	IRB2600ID-8/2.00	E58SA029	E58SA029A	E58SA029W	58SA029AW
FANUC®	100iC	E58SF005	E58SF005A	E58SF005W	58SF005AW
FANUC	100iC-12	E58SF005	E58SF005A	E58SF005W	58SF005AW
FANUC	100iC-6L	E58SF007	E58SF007A	E58SF007W	58SF007AW
FANUC	100iC-7L	E58SF007	E58SF007A	E58SF007W	58SF007AW
FANUC	100iC-8L	E58SF010	E58SF010A	E58SF010W	E58SF010AW
FANUC	120iC	E58SF006	E58SF006A	E58SF006W	58SF006AW
FANUC	120iC-10L	E58SF008	E58SF008A	E58SF008W	58SF008AW
FANUC	120iC-12L	E58SF008	E58SF008A	E58SF008W	58SF008AW
FANUC	M710iC-12L	E58SF041	E58SF041A	E58SF041W	58SF041AW
FANUC	M10iA-6L	E58SF007	E58SF007A	E58SF007W	58SF007AW
FANUC	M10iA-7L	E58SF007	E58SF007A	E58SF007W	58SF007AW
Kawasaki®	BA006N	E58SKW042	E58SKW042A	E58SKW042W	58SKW042AW
KUKA®	KR 5 ARC HW	E58SK023	58SK023A	58SK023W	58SK023AW
KUKA	KR 16 L8 HW	E58SK027	58SK027A	58SK027W	58SK027AW
KUKA	KR 16 ARC HW	E58SK030	E58SK030A	E58SK030W	58SK030AW
Motoman®	EA1400 XRC	E58SM016	E58SM016A	E58SM016W	58SM016AW
Motoman	EA1900 XRC	E58SM017	E58SM017A	E58SM017W	58SM017AW
Motoman	EA1400N	E58SM001	E58SM001A	E58SM001W	58SM001AW
Motoman	SSA2000	E58SM001	E58SM001A	E58SM001W	58SM001AW
Motoman	MA1400	E58SM001	E58SM001A	E58SM001W	58SM001AW
Motoman	VA1400	E58SM001	E58SM001A	E58SM001W	58SM001AW
Motoman	MA1440	E58SM035	E58SM035A	E58SM035W	58SM035AW
Motoman	EA1900N	E58SM002	E58SM002A	E58SM002W	58SM002AW
Motoman	MA2010	E58SM038	E58SM038A	E58SM038W	58SM038AW
Motoman	MA3100	E58SM031	E58SM031A	E58SM031W	58SM031AW
Motoman	MA3120	E58SM031	E58SM031A	E58SM031W	58SM031AW
Panasonic®	TB1800WGIII	E58SP034	E58SP034A	E58SP034W	58SP034AW

Low-Stress Robotic (LSR) Unicables – Solid Mount (Euro; equipped with TOUGH GUN I.C.E. Technology)

Robot Brand	Robot Model	Euro LSR Uicable Part Number (for TOUGH GUN I.C.E. Assembly)			
		No Options	Air Blast	Wire Brake	Air Blast + Wire Brake
ABB®	IRB1600ID	IE58SA024	IE58SA024A	IE58SA024W	IE58SA024AW
ABB	IRB1520ID	IE58SA024	IE58SA024A	IE58SA024W	IE58SA024AW
ABB	IRB2600ID-15/1.85	IE58SA028	IE58SA028A	IE58SA028W	IE58SA028AW
ABB	IRB2600ID-8/2.00	IE58SA029	IE58SA029A	IE58SA029W	IE58SA029AW
FANUC®	100iC	E58SF205	-	E58SF205W	-
FANUC	100iC-12	E58SF205	-	E58SF205W	-
FANUC	100iC-6L	E58SF207	-	E58SF207W	-
FANUC	100iC-7L	E58SF207	-	E58SF207W	-
FANUC	100iC-8L	E58SF210	-	E58SF210W	-
FANUC	120iC	E58SF206	-	E58SF206W	-
FANUC	120iC-10L	E58SF208	-	E58SF208W	-
FANUC	120iC-12L	E58SF208	-	E58SF208W	-
FANUC	M710iC-12L	E58SF209	-	E58SF209W	-
FANUC	M10iA-6L	E58SF207	-	E58SF207W	-
FANUC	M10iA-7L	E58SF207	-	E58SF207W	-

Mounting Options

Clutch

Robot Brand	Robot Model	Clutch Mount Connector Part Number			
		No Options	Air Blast	Wire Brake	Air Blast + Wire Brake
COMAU®	Smart5 Arc6	C58G1	C58G1	C58G1W	C58G1W
Kawasaki®	BA006N	KW58G1	KW58G1	KW58G1W	KW58G1W
KUKA®	KR 5 ARC HW	K5800	K5800	K5800W	K5800W
KUKA	KR 16 L8 HW	K5800	K5800	K5800W	K5800W
KUKA	KR 16 ARC HW	K258G1	K258G1	K258G1W	K258G1W
Motoman®	EA1400 XRC	5800	5800	5800W	5800W
Motoman	EA1900 XRC	5800	5800	5800W	5800W
Motoman	EA1400N	5800	5800	5800W	5800W
Motoman	EA1900N	5800	5800	5800W	5800W
Motoman	SSA2000	5800	5800	5800W	5800W
Motoman	MA1400	5800	5800	5800W	5800W
Motoman	VA1400	5800	5800	5800W	5800W
Motoman	MA1440	M58G1	M58G1	M58G1W	M58G1W
Motoman	MA2010	M58G1	M58G1	M58G1W	M58G1W
Motoman	MA3100	5800	5800	5800W	5800W
Motoman	MA3120	5800	5800	5800W	5800W
OTC Daihen®	All-B4	D25800	D25800	D25800W	D25800W
OTC Daihen	All-B4L	D25800	D25800	D25800W	D25800W
OTC Daihen	AX-V4	D5800	D5800	D5800W	D5800W
OTC Daihen	AX-V4L	D5800	D5800	D5800W	D5800W
OTC Daihen	FD B4	D25800	D25800	D25800W	D25800W
OTC Daihen	FD B4L	D25800	D25800	D25800W	D25800W
Panasonic®	TB1800WGIII	P5800	P5800	P5800W	P5800W
Panasonic	TM-1100, TM-1400	P258G1	P258G1	P258G1W	P258G1W
Panasonic	TM-1800	P258G1	P258G1	P258G1W	P258G1W
Panasonic	TM-1600	P258G1	P258G1	P258G1W	P258G1W
Panasonic	TM-2000	P258G1	P258G1	P258G1W	P258G1W

Clutch – TOUGH GUN I.C.E.™ Technology

Robot Brand	Robot Model	Clutch Mount Connector Part Number			
		No Options	Air Blast	Wire Brake	Air Blast + Wire Brake
Panasonic	TM-1100, TM-1400	IP258G1	IP258G1	IP258G1W	IP258G1W
Panasonic	TM-1800	IP258G1	IP258G1	IP258G1W	IP258G1W
Panasonic	TM-1600	IP258G1	IP258G1	IP258G1W	IP258G1W
Panasonic	TM-2000	IP258G1	IP258G1	IP258G1W	IP258G1W

Solid Mount

Robot Brand	Robot Model	Solid Mount Connector Part Number			
		No Options	Air Blast	Wire Brake	Air Blast + Wire Brake
ABB®	IRB1600ID	A58G1S	A58G1S	A58G1SW	A58G1SW
ABB	IRB1520ID	A58G1S	A58G1S	A58G1SW	A58G1SW
ABB	IRB2600ID-15/1.85	A258G1S	A258G1S	A258G1SW	A258G1SW
ABB	IRB2600ID-8/2.00	A258G1S	A258G1S	A258G1SW	A258G1SW
FANUC®	100iC	560-500	560-502	*W560-500-XXX	*W560-500-XXXXA
FANUC	100iC-12	560-500	560-502	*W560-500-XXX	*W560-500-XXXXA
FANUC	100iC-6L	560-500	560-502	*W560-500-XXX	*W560-500-XXXXA
FANUC	100iC-7L	560-500	560-502	*W560-500-XXX	*W560-500-XXXXA
FANUC	100iC-8L	560-500	560-502	*W560-500-XXX	*W560-500-XXXXA
FANUC	120iC	560-500	560-502	*W560-500-XXX	*W560-500-XXXXA
FANUC	120iC-10L	560-500	560-502	*W560-500-XXX	*W560-500-XXXXA
FANUC	120iC-12L	560-500	560-502	*W560-500-XXX	*W560-500-XXXXA
FANUC	M710iC-12L	560-500	560-502	*W560-500-XXX	*W560-500-XXXXA
FANUC	M10iA-6L	560-500	560-502	*W560-500-XXX	*W560-500-XXXXA
FANUC	M10iA-7L	560-500	560-502	*W560-500-XXX	*W560-500-XXXXA
Kawasaki	BA006N	KW58G1S	KW58G1S	KW58G1SW	KW58G1SW

*XXX in the part numbers above represent wire size. For wire sizes between 0.035" and 0.045", XXX = "045"; For wire sizes between 0.052" and 1/16", XXX = "116".

Mounting Options (Continued)

Solid Mount (Continued)

Robot Brand	Robot Model	Solid Mount Connector Part Number			
		No Options	Air Blast	Wire Brake	Air Blast + Wire Brake
KUKA	KR 5 ARC HW	K58G1S	K58G1S	K58G1SW	K58G1SW
KUKA	KR 16 L8 HW	K58G1S	K58G1S	K58G1SW	K58G1SW
KUKA	KR 16 arc HW	K5800S	K5800S	K5800SW	K5800SW
Motoman®	EA1400 XRC	5800S	5800S	5800SW	5800SW
Motoman	EA1900 XRC	5800S	5800S	5800SW	5800SW
Motoman	EA1400N	5800S	5800S	5800SW	5800SW
Motoman	EA1900N	5800S	5800S	5800SW	5800SW
Motoman	SSA2000	5800S	5800S	5800SW	5800SW
Motoman	MA1400	5800S	5800S	5800SW	5800SW
Motoman	VA1400	5800S	5800S	5800SW	5800SW
Motoman	MA1440	M58G1S	M58G1S	M58G1SW	M58G1SW
Motoman	MA2010	M58G1S	M58G1S	M58G1SW	M58G1SW
Motoman	MA3100	5800S	5800S	5800SW	5800SW
Motoman	MA3120	5800S	5800S	5800SW	5800SW
Panasonic®	TB1800WGIII	P58G1S	P58G1S	P58G1SW	P58G1SW
Panasonic	TM-1100, TM-1400	P258G1S	P258G1S	P258G1SW	P258G1SW
Panasonic	TM-1800	P258G1S	P258G1S	P258G1SW	P258G1SW
Panasonic	TM-1600	P258G1S	P258G1S	P258G1SW	P258G1SW
Panasonic	TM-2000	P258G1S	P258G1S	P258G1SW	P258G1SW

*XXX in the part numbers above represent wire size. For wire sizes between 0.035" and 0.045", XXX = "045"; For wire sizes between 0.052" and 1/16", XXX = "116".

Solid Mount – TOUGH GUN I.C.E. Technology

Robot Brand	Robot Model	Solid Mount Connector Part Number			
		No Options	Air Blast	Wire Brake	Air Blast + Wire Brake
ABB®	IRB1600ID	IA58G1S	IA58G1S	IA58G1SW	IA58G1SW
ABB	IRB1520ID	IA58G1S	IA58G1S	IA58G1SW	IA58G1SW
ABB	IRB2600ID-15/1.85	IA258G1S	IA258G1S	IA258G1SW	IA258G1SW
ABB	IRB2600ID-8/2.00	IA258G1S	IA258G1S	IA258G1SW	IA258G1SW
FANUC®	100iC	560-501	-	*W560-501-XXX	-
FANUC	100iC-12	560-501	-	*W560-501-XXX	-
FANUC	100iC-6L	560-501	-	*W560-501-XXX	-
FANUC	100iC-7L	560-501	-	*W560-501-XXX	-
FANUC	100iC-8L	560-501	-	*W560-501-XXX	-
FANUC	120iC	560-501	-	*W560-501-XXX	-
FANUC	120iC-10L	560-501	-	*W560-501-XXX	-
FANUC	120iC-12L	560-501	-	*W560-501-XXX	-
FANUC	M710iC-12L	560-501	-	*W560-501-XXX	-
FANUC	M10iA-6L	560-501	-	*W560-501-XXX	-
FANUC	M10iA-7L	560-501	-	*W560-501-XXX	-
Panasonic	TM-1100, TM-1400	IP258G1S	IP258G1S	IP258G1SW	IP258G1SW
Panasonic	TM-1800	IP258G1S	IP258G1S	IP258G1SW	IP258G1SW
Panasonic	TM-1600	IP258G1S	IP258G1S	IP258G1SW	IP258G1SW
Panasonic	TM-2000	IP258G1S	IP258G1S	IP258G1SW	IP258G1SW

*XXX in the part numbers above represent wire size. For wire sizes between 0.035" and 0.045", XXX = "045"; For wire sizes between 0.052" and 1/16", XXX = "116".

Insulating Discs

AS-114-1 Motoman® Insulating Disc
AS-116-1 OTC® Insulating Disc
560-500-11 FANUC® Insulating Disc

AS-114-6 KUKA® Insulating Disc
AS-115-1 Panasonic® TB1800WGIII Insulating Disc

Transition Discs (Clutch Systems)

AS-114-9 KUKA KR 16 arc HW Transition Disc + M5x0.8-12Lg. SHCS
AS-114-10 COMAU® Smart5 Arc4 Transition Disc + M6x1-12Lg. SHCS
AS-116-2 OTC AII-B4 / AII-B4L / FD B4 / FD B4L Transition Disc + M5x0.8-10Lg. SHCS

AS-114-13 Motoman MA1440/MA2010 Transition Disc + M4x0.7-60Lg. SHCS
AS-114-11 + AS-114-12 Panasonic TM-1100 / 1400 / 1600 / 1800 / 2000 Transition Disc + M5x0.8-70Lg. SHCS

Mounting Options (Continued)

Transition Discs (Solid Mount Systems)

AS-114-7	ABB 1600ID / 1520ID Transition Disc + M6x1-16Lg. SHCS	AS-114-9	KUKA KR 16 arc HW Transition Disc + M5x0.8-12Lg. SHCS
AS-114-8	ABB 2600ID Transition Disc + M8x1.25-12Lg. SHCS	AS-114-15 +	Kawasaki BA006N Transition Disc +
AS-114-11 +	Panasonic TM-1100 / 1400 / 1600 / 1800 / 2000	AS-114-16	M5x0.8-16Lg.SHCS
AS-114-12	Transition Disc + M5x0.8-70Lg. SHCS		

Power Pins

Power Pins

425-10E	Euro	214-39	OTC Daihen®
214-41	Fronius®	214-30	Panasonic®
214-40	Lincoln®	214	Tweco® #4
214-1	Miller®	214-24	Tweco #5

AutoLength™ Pins*

214-X41	Fronius	214-X14	Panasonic
214-X40	Lincoln	214-X0	Tweco #4
214-X1	Miller	214-X12	Tweco #5
214-X39	OTC Daihen		

*For use with QUICK LOAD Liners only.

NOTE: For wire sizes between 0.035" and 0.045", X="8"; For wire sizes between 0.052" and 3/32", X="9". AutoLength™ Pin not compatible with wire size selections for aluminum wire.

Peripherals & Accessories



TOUGH GUN TT3 Reamer

TOUGH on spatter and operates reliably in the harshest welding environments. Automating spatter removal will help extend the life of your robotic MIG guns and consumables, benefitting both your bottom line and your production uptime and throughput.

Visit Tregaskiss.com/ReamerTT3 for ordering information.



TOUGH GARD Anti-Spatter Liquid

This ready-to-use water-soluble, non-toxic product creates a sacrificial surface that reduces spatter adhesion. This prolongs the life of your consumables and minimizes downtime due to nozzle cleaning which can help reduce your operating and maintenance costs.

TOUGH GARD Anti-Spatter Liquid

TG-101-05	5 U.S. Gallon / 18.92 L
TG-101-55	55 U.S. Gallon / 208.3 L
TG-101-01	1 U.S. Gallon / 3.78 L
TG-101-32SP	25.36 fl. oz. / 750 mL (spray bottle)
TG-101-14S	14 fl. oz. / 414 mL



TOUGH GARD™ Multi-Feed System

Eliminate the need to frequently refill sprayer reservoirs with the TOUGH GARD Multi-Feed System from Tregaskiss. Feed up to 10 TOUGH GUN Reamer units from a single 5-gallon or 55-gallon drum of TOUGH GARD Anti-Spatter Liquid.

TOUGH GARD Multi-Feed System

TG-103-05-2	for 5-Gallon pail (up to 2 nozzle cleaning stations)
TG-103-05-10	for 5-Gallon pail (up to 10 nozzle cleaning stations)
TG-103-55-10	for 55-Gallon drum (up to 10 nozzle cleaning stations)

TOUGH GARD Multi-Feed System Hose (sold separately)

TG-103-50	50' Multi-Feed Hose
TG-103-100	100' Multi-Feed Hose
TG-103-200	200' Multi-Feed Hose



Neck Checking Fixture

The TOUGH GUN Neck Checking Fixture allows you to verify and re-master your tool center point (TCP). In the event of a collision, this fixture can be used to realign the neck.

G-405CA	Neck Checking Fixture for air-cooled Neck assemblies
G-405CA + G-495-8	Neck Checking Fixture for TOUGH GUN I.C.E.™ Neck assemblies

Ordering Information

TOUGH GUN TA3 Robotic MIG Guns

TA3 Gun Series			Robot Make & Model			Gun Mount & Options		Nozzle	Neck	Contact Tip***	Wire Size^	Power Pin				
T	A	1	M	O	1	2	G	C	1	D	P					
<p><i>Please see Robot Make and Model Options on page 8 to determine which character selections you require here</i></p>					1	Clutch	A	401-6-62	Air-Cooled	1	403-20-XX	A	0.023"	D	OTC Daihen® 214-39	
					2	Clutch + Air Blast	B	401-81-62	<u>Short Length</u>	2	403-21-XX	B	0.030"	E	Euro 425-10E	
					3	Solid Mount	C	401-4-62	A	22 degrees	3	403-14-XX	C	0.035"	F	Fronius®^^ 214-41
					4	Solid Mount + Air Blast*	D	401-8-62		405-22QC	4	403-27-XX	D	1.0 mm	L	Lincoln® 214-40
					5	Clutch + Wire Brake	E	401-42-50	C	45 degrees			E	0.045"	M	Miller® 214-1
					6	Clutch + Wire Brake + Air Blast	F	401-48-50		405-45QC			F	3/64"	P	Panasonic® 214-30
					7	Solid Mount + Wire Brake	G	401-48-62	<u>Medium Length</u>				G	0.055"	T	Tweco® #4 214
					8	Solid Mount + Wire Brake + Air Blast*	H	401-44-50	B	22 degrees			H	5/64"	W	Tweco #5 214-24
				J	401-49-50				J	1/16"						
				K	401-71-62			E	45 degrees							
				M	401-87-62				405-45QCL							
				N	401-44-62			<u>Long Length</u>								
				P	401-91-62			D	22 degrees							
				Q	401-56-62				405-22QCL1							
				R	401-54-50			G	45 degrees							
				S	401-42-50C				405-45QCL1							
				T	401-51-62			<u>Extended Length</u>								
				U	401-14-62			P	45 degrees							
				V	401-41-62				405-45QCL2							
				W	401-52-62			I.C.E.**								
				X	401-41-75			<u>Short Length</u>								
				Y	401-53-62			F	22 degrees							
				Z	401-20-62				590-22-XXXX							
								H	45 degrees							
									590-45-XXXX							
								<u>Medium Length</u>								
								J	22 degrees							
									590-22L-XXXX							
								L	45 degrees							
									590-45L-XXXX							
								<u>Long Length</u>								
								K	22 degrees							
									590-22L1-XXXX							
								M	45 degrees							
									590-45L1-XXXX							
								<u>Extended Length</u>								
								N	45 degrees							
									590-45L2-XXXX							

*Air blast option not available for FANUC® configurations equipped with TOUGH GUN I.C.E.™ Technology
 **Available for FANUC® and ABB®; Not compatible with TOUGH ACCESS™ Consumables; XXXX represents nozzle O.D.
 ***XX=wire size
 ^Wire Size option determines contact tip, liner type and liner size
 ^^If you are configuring a gun that will plug into a Fronius® feeder, please contact Tregaskiss Tech Support with feeder model number
 ^^For wire sizes between 0.030" and 0.045", X="8"; For wire sizes between 0.052" and 3/32", X="9"

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