

600 AMP

MIG (GMAW)
ROBOTIC WELDING

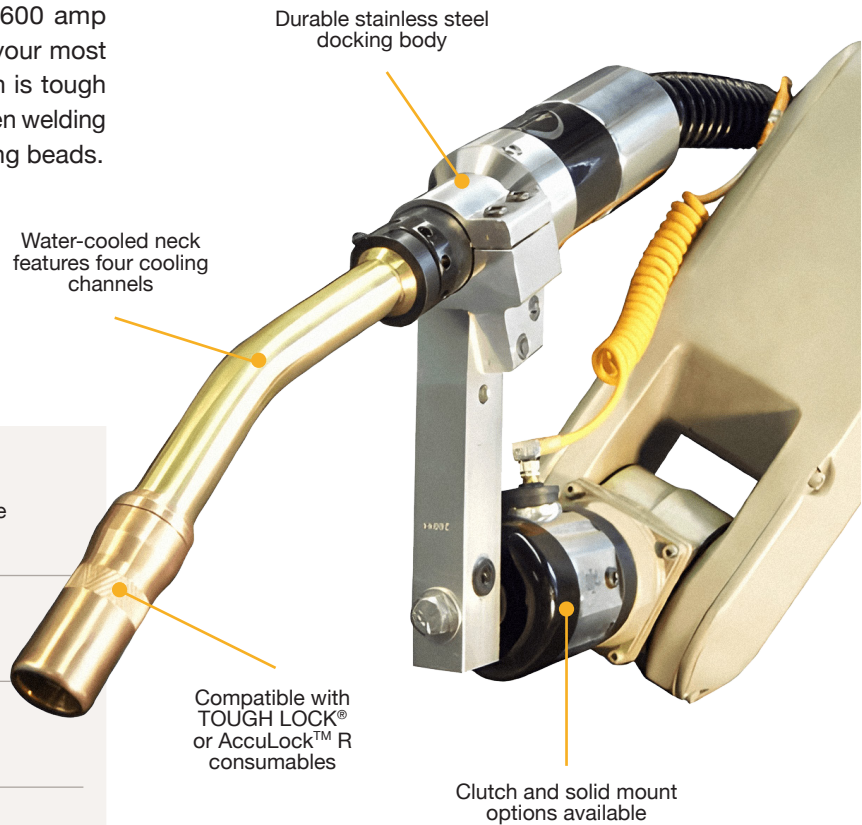


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ROBOTIC WATER-COOLED MIG GUN

PROCESSES	MIG (GMAW) Welding
ROBOTS	• ABB® • FANUC® • Kawasaki® • Miller® • OTC Daihen® • Yaskawa® Motoman®
DUTY CYCLE RATING	60%: 600 amp with Mixed Gases (Ratings are based on tests that comply with IEC 60974-7 standards)

Serviceable and easy to repair, the Tregaskiss® 600 amp robotic water-cooled MIG gun is ready to take on your most demanding welding applications. Its rugged design is tough and dependable enough to maximize productivity when welding thick plate or running excessive duty cycles and long beads.



- Durable stainless steel docking body will not deteriorate during the serviceable life of the MIG gun
- Withstands heat from welding thick plate, long beads or excessive duty cycles
- Water-cooled neck and power cable keep front-end consumables cool
- Neck features four cooling channels
- Durable conduit swivels independently and provides rigid support for the liner, resulting in smooth and consistent wire feeding
- Maintenance-friendly features include accessible front housing, quick-change fittings and replaceable components

In addition to having a water-cooled power cable, the neck features four cooling channels that provide significant water-cooling capacity to the front-end components, keeping them cool and extending their usable life.

The stainless steel docking body is built to last and will not deteriorate during the serviceable life of the MIG gun. Plus, the heavy duty monocoil cable provides a rigid support for the liner, resulting in smooth and consistent wire feeding.



CONFIGURE YOUR
MIG GUN ONLINE



EASY MAINTENANCE
WITH MINIMAL DOWNTIME

TREGASKISS®

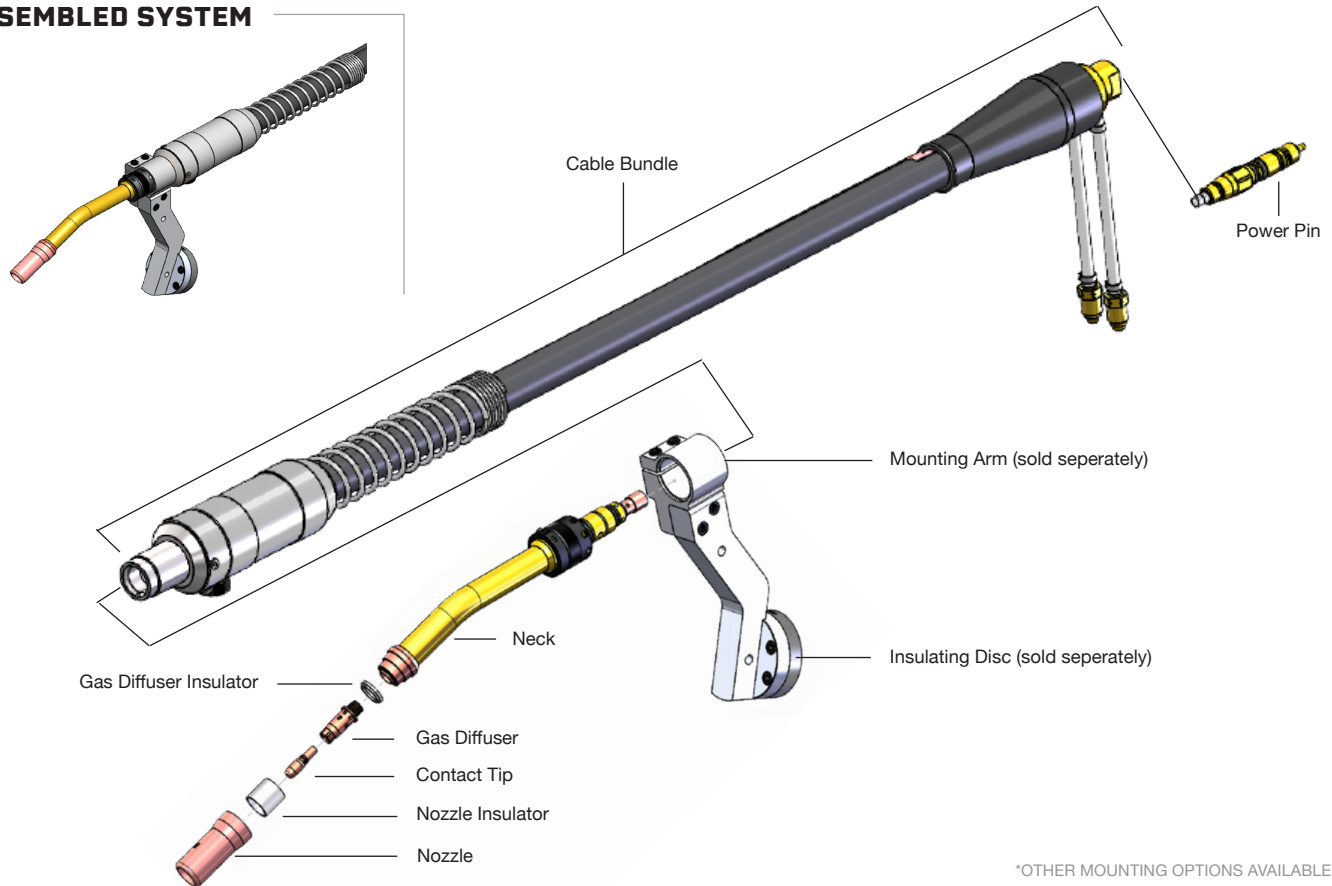
2570 North Talbot Road
Windsor, Ontario N0R 1L0, Canada

1-855-MIGWELD (644-9353)
(US & Canada)

For more information,
visit us at bernardtregaskiss.com

SYSTEM COMPONENTS

ASSEMBLED SYSTEM



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 robots are equipped with independent collision detection software and may not require this functionality in a robotic MIG gun, the clutch 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 not 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 rear load liners). This option is not compatible with QUICK LOAD® liners.



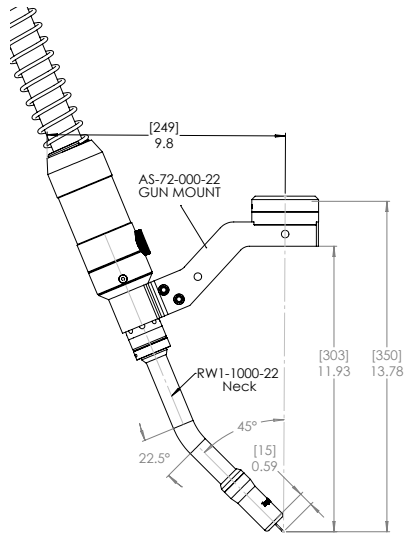
ACCULOCK™ R CONSUMABLES

Eliminate contact tip cross-threading issues with new AccuLock™ R consumables. These new consumables are designed for increased tip life, which can reduce replacement frequency and related downtime. AccuLock™ HDP contact tips can increase life by an additional 10x or more in pulse welding applications. And in most cases, your current tip and diffuser can be replaced with no impact to Tool Center Point (TCP), making this upgrade low effort, low risk, and high payoff.

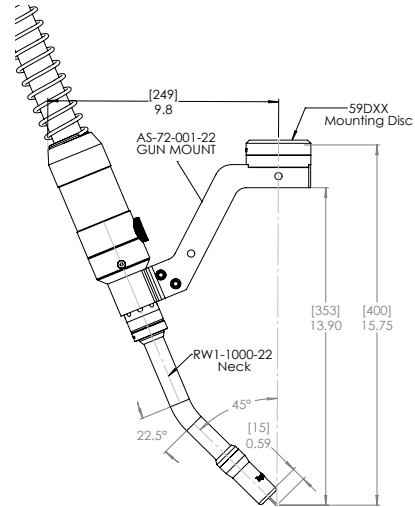
GUN CONFIGURATIONS

NOTE: FOR CENTER OF MASS INFORMATION, PLEASE VISIT BERNARDTREGASKISS.COM/RWC

STANDARD CONFIGURATIONS [SOLID MOUNT] – 22 DEGREE NECKS

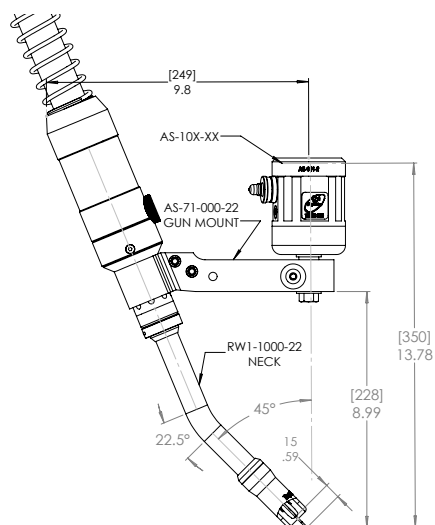


350 mm (13.78") TCP,
Neck RW1-1000-22

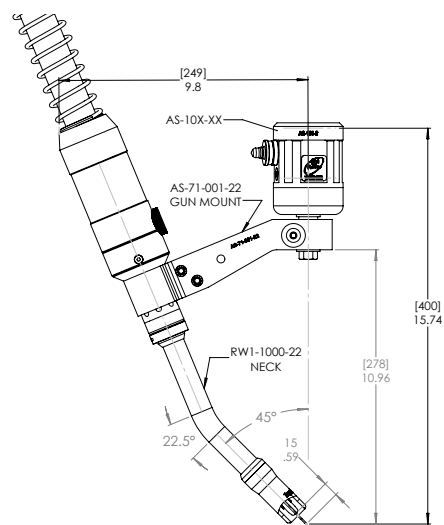


400 mm (15.75") TCP,
Neck RW1-1000-22

STANDARD CONFIGURATIONS [CLUTCH] – 22 DEGREE NECKS



350 mm (13.78") TCP,
Neck RW1-1000-22

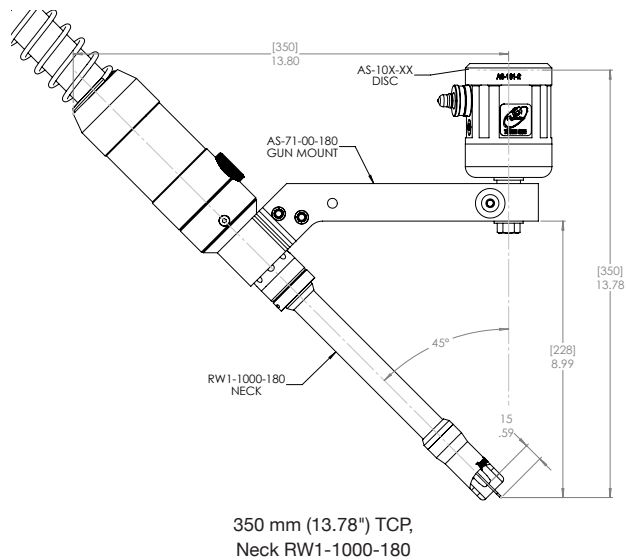


400 mm (15.75") TCP,
Neck RW1-1000-22

GUN CONFIGURATIONS [CONTINUED]

NOTE: FOR CENTER OF MASS INFORMATION, PLEASE VISIT BERNARDTREGASKISS.COM/RWC

STANDARD CONFIGURATIONS (CLUTCH) – 180 DEGREE NECKS



CONSUMABLE OPTIONS

ACCULOCK™ HEAVY DUTY (HD) COPPER CONTACT TIPS

T-A030CH*	for 0.030" (0.8 mm) wire; qty. 10	T-A062CH	for 1/16" (1.6 mm) wire; qty. 10
T-A035CH*	for 0.035" (0.9 mm) wire; qty. 10	T-A072CH	for 0.072" (1.8 mm) wire; qty. 10
T-A039CH*	for 0.039" (1.0 mm) wire; qty. 10	T-A078CH	for 5/64" (2.0 mm) wire; qty. 10
T-A045CH*	for 0.045" (1.2 mm) wire; qty. 10	T-A094CH	for 3/32" (2.4 mm) wire; qty. 10
T-A052CH*	for 0.052" (1.3 mm) wire; qty. 10		

NOTE: ADD "-100" TO THE END OF THE ABOVE HD COPPER CONTACT TIP PART NUMBERS FOR QUANTITIES OF 100.
*ADD "-1000" TO THE END OF THE ABOVE PART NUMBERS FOR QUANTITIES OF 1000.

ACCULOCK™ HEAVY DUTY (HD) CHROME ZIRCONIUM CONTACT TIPS

T-A030ZH	for 0.030"(0.8 mm) wire; qty. 10	T-A045ZH	for 0.045" (1.2 mm) wire; qty. 10
T-A035ZH	for 0.035" (0.9 mm) wire; qty. 10	T-A052ZH	for 0.052" (1.3 mm) wire; qty. 10
T-A039ZH	for 0.039" (1.0 mm) wire; qty. 10	T-A062ZH	for 1/16" (1.6 mm) wire; qty. 10

NOTE: ADD "-100" TO THE END OF THE ABOVE HD CHROME ZIRCONIUM CONTACT TIP PART NUMBERS FOR QUANTITIES OF 100.

ACCULOCK™ R GAS DIFFUSERS

D-ATTH-RW1 Gas diffuser, thread-on, AccuLock R

TOUGH LOCK® HEAVY DUTY (HD) CONTACT TIPS

403-20-30	for 0.030" (0.8 mm) wire	403-20-1.4	for 0.055" (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 0.040" (1.0 mm) wire	403-20-1.8	for 0.072" (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

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 0.040" (1.0 mm) wire		

CONSUMABLE OPTIONS [CONTINUED]

TOUGH LOCK® WATER-COOLED GAS DIFFUSERS

404-71 Gas diffuser, thread-on, water-cooled

TREGASKISS® NOZZLES

671-6-75 3/4" bore, 1/8" recess, water-cooled; 1.000" O.D.

671-8-75 3/4" bore, 1/8" stick-out, water-cooled; 1.000" O.D.

REAR LOAD LINERS

415-35-6 for 0.035" (0.9 mm) - 0.045" (1.2 mm) wire; 6' (1.8 m)
415-35-10 for 0.035" (0.9 mm) - 0.045" (1.2 mm) wire; 10' (3.05 m)
415-35-15 for 0.035" (0.9 mm) - 0.045" (1.2 mm) wire; 15' (5.0 m)
415-116-6W for 0.045" (1.2 mm) - 1/16" (1.6 mm) wire; 6' (1.8 m)
415-116-10W for 0.045" (1.2 mm) - 1/16" (1.6 mm) wire; 10' (3.05 m)
415-116-15W for 0.045" (1.2 mm) - 1/16" (1.6 mm) wire; 15' (5.0 m)
415-564-6W for 1/16" (1.6 mm) - 5/64" (2.0 mm) wire; 6' (1.8 m)
415-564-10W for 1/16" (1.6 mm) - 5/64" (2.0 mm) wire; 10' (3.05 m)
415-564-15W for 1/16" (1.6 mm) - 5/64" (2.0 mm) wire; 15' (5.0 m)

JUMP LINERS [REQUIRED FOR MIG GUNS EQUIPPED WITH WIRE BRAKE ONLY]

495-19-35 for 0.035" (0.9 mm) - 0.045" (1.2 mm) wire; 26"
495-19-116 for 0.045" (1.2 mm) - 1/16" (1.6 mm) wire; 26"

COMPONENTS

WATER-COOLED NECKS

RW1-1000-22 22 degree neck

RW1-1000-180 180 degree neck

CABLE BUNDLES

RW1-2000-B Cable bundle, 3.5'
RW1-2000-C Cable bundle, 4.0'
RW1-2000-D Cable bundle, 4.5'
RW1-2000-E Cable bundle, 5.0'
RW1-2000-F Cable bundle, 5.5'
RW1-2000-G Cable bundle, 6.0'
RW1-2000-H Cable bundle, 6.5'
RW1-2000-J Cable bundle, 7.0'
RW1-2000-K Cable bundle, 7.5'
RW1-2000-M Cable bundle, 8.0'
RW1-2000-N Cable bundle, 8.5'
RW1-2000-P Cable bundle, 9.0'
RW1-2000-Q Cable bundle, 9.5'
RW1-2000-R Cable bundle, 10.0'
RW1-2000-S Cable bundle, 10.5'
RW1-2000-T Cable bundle, 11.0'
RW1-2000-U Cable bundle, 12.0'
RW1-2000-V Cable bundle, 13.0'
RW1-2000-W Cable bundle, 14.0'
RW1-2000-Y Cable bundle, 15.0'

RW1-2000WB-B Cable bundle, wire brake, 3.5'
RW1-2000WB-C Cable bundle, wire brake, 4.0'
RW1-2000WB-D Cable bundle, wire brake, 4.5'
RW1-2000WB-E Cable bundle, wire brake, 5.0'
RW1-2000WB-F Cable bundle, wire brake, 5.5'
RW1-2000WB-G Cable bundle, wire brake, 6.0'
RW1-2000WB-H Cable bundle, wire brake, 6.5'
RW1-2000WB-J Cable bundle, wire brake, 7.0'
RW1-2000WB-K Cable bundle, wire brake, 7.5'
RW1-2000WB-M Cable bundle, wire brake, 8.0'
RW1-2000WB-N Cable bundle, wire brake, 8.5'
RW1-2000WB-P Cable bundle, wire brake, 9.0'
RW1-2000WB-Q Cable bundle, wire brake, 9.5'
RW1-2000WB-R Cable bundle, wire brake, 10.0'
RW1-2000WB-S Cable bundle, wire brake, 10.5'
RW1-2000WB-T Cable bundle, wire brake, 11.0'
RW1-2000WB-U Cable bundle, wire brake, 12.0'
RW1-2000WB-V Cable bundle, wire brake, 13.0'
RW1-2000WB-W Cable bundle, wire brake, 14.0'
RW1-2000WB-Y Cable bundle, wire brake, 15.0'

COMPONENTS [CONTINUED]

LINER CONDUITS

RW1-2600-B	Conduit for 3.5' cable length
RW1-2600-C	Conduit for 4.0' cable length
RW1-2600-D	Conduit for 4.5' cable length
RW1-2600-E	Conduit for 5.0' cable length
RW1-2600-F	Conduit for 5.5' cable length
RW1-2600-G	Conduit for 6.0' cable length
RW1-2600-H	Conduit for 6.5' cable length
RW1-2600-J	Conduit for 7.0' cable length
RW1-2600-K	Conduit for 7.5' cable length
RW1-2600-M	Conduit for 8.0' cable length

RW1-2600-N	Conduit for 8.5' cable length
RW1-2600-P	Conduit for 9.0' cable length
RW1-2600-Q	Conduit for 9.5' cable length
RW1-2600-R	Conduit for 10.0' cable length
RW1-2600-S	Conduit for 10.5' cable length
RW1-2600-T	Conduit for 11.0' cable length
RW1-2600-U	Conduit for 12.0' cable length
RW1-2600-V	Conduit for 13.0' cable length
RW1-2600-W	Conduit for 14.0' cable length
RW1-2600-Y	Conduit for 15.0' cable length

POWER CABLES

RW1-2500-B	Power cable, 3.5'
RW1-2500-C	Power cable, 4.0'
RW1-2500-D	Power cable, 4.5'
RW1-2500-E	Power cable, 5.0'
RW1-2500-F	Power cable, 5.5'
RW1-2500-G	Power cable, 6.0'
RW1-2500-H	Power cable, 6.5'
RW1-2500-J	Power cable, 7.0'
RW1-2500-K	Power cable, 7.5'
RW1-2500-M	Power cable, 8.0'

RW1-2500-N	Power cable, 8.5'
RW1-2500-P	Power cable, 9.0'
RW1-2500-Q	Power cable, 9.5'
RW1-2500-R	Power cable, 10.0'
RW1-2500-S	Power cable, 10.5'
RW1-2500-T	Power cable, 11.0'
RW1-2500-U	Power cable, 12.0'
RW1-2500-V	Power cable, 13.0'
RW1-2500-W	Power cable, 14.0'
RW1-2500-Y	Power cable, 15.0'

LEATHER JACKETS

RW1-2400-G	Leather jacket, 6.0'
RW1-2400-R	Leather jacket, 10.0'
RW1-2400-Y	Leather jacket, 15.0'

WIRE BRAKE

450-17	Wire brake installation tool
RW1-599	Wire brake, water-cooled
499-9-15	Wire brake hose; 15'

598	Wire brake wire guide; 0.035" (0.9 mm) - 0.045" (1.2 mm)
598-116	Wire brake wire guide; 0.045" (1.2 mm) - 1/16" (1.6 mm)

MOUNTING OPTIONS

CLUTCH

AS-708 Safety clutch

MOUNTING ARMS – CLUTCH

AS-71-000-22 Mounting arm; 22 degree, 350 mm TCP
AS-71-00-180 Mounting arm; 180 degree, 350 mm TCP

AS-71-001-22 Mounting arm; 22 degree, 400 mm TCP

MOUNTING ARMS – SOLID MOUNT

AS-72-000-22 Mounting arm; 22 degree, 350 mm TCP

AS-72-001-22 Mounting arm; 22 degree, 400 mm TCP

INSULATING / TRANSITION DISCS – CLUTCH

FOR ABB® ROBOTS

AS-101-2 IRB6, 140, 1400, 1500, 1600, M97A, 2000, IRB2400L, 4000
AS-101-4 IRB2400-10, IRB2400-16, IRB2600, IRB4600-20/2.5, IRB440L
AS-107-13 IRB6600, IRB6650

FOR COMAU® ROBOTS

AS-102-10 SmartSix 6-14

FOR FANUC® ROBOTS

AS-101-2 100, 100i, 120iB, S-6, M710-20L
AS-106-8 ArcMate 50iB, 50iC
AS-102-17 100iC, 120iC, M710iC-12L (includes AS-102-10 insulating disc)

FOR KAWASAKI® ROBOTS

AS-106-14 RA10L, RS10L, RS20N

FOR KUKA® ROBOTS

AS-101-2 KR5 arc, KR6, KR6-2, KR6 arc, KR6 KS, KR16 L6, KR16 L6 arc, KR16 L6 KS
AS-106-8 KR5 R1400, KR6 R700 sixx, KR6 R900 sixx, KR10 R900 sixx, KR10 R1100 sixx
AS-107-12 KR-125, KR-150/2

FOR MILLER® ROBOTS

AS-101-2 MRV-2

FOR OTC DAIHEN® ROBOTS

AS-101-2 MRV-6, EX-V6, EX-V6L, EX-V16, DR-2000, DR-4000, DR-4200L, DR-440

FOR PANASONIC® ROBOTS

AS-106-4 VR-008A, VR-006A, VR-005C, VR-005LII, AW-010A, AW-8010, AW-005A, AW-005C, AW-005CL, AS-006A, VR-006AL, TA-1400, TA-1800, TL-1800, TL-2000

FOR REIS® ROBOTS

AS-106-14 RV16, RV16L, RVL16, RH16, RL16 A4, RL26 A4, RV20-16

FOR YASKAWA® MOTOMAN® ROBOTS

AS-101-2 HP6, HP50-20, K6A, K10S, MH50-20, MH6, SK6, SK16, SK16X, SSF2000, UP6, UP20
AS-106-7 K35, HP3, HP3C, HP3JC, MH5, MH5L, SV3
AS-106-13 MH5S, MH5LS
AS-102-20 MA1440, MA2010, MA3210 (includes AS-102-10 insulating disc)

MOUNTING OPTIONS [CONTINUED]

INSULATING / TRANSITION DISCS – SOLID MOUNT

FOR ABB® ROBOTS

59D02 IRB6, 140, 1400, 1500, 1600, M97A, 2000, IRB2400L, 4000

59D04 IRB2400-10, IRB2400-16, IRB2600, IRB4600-20/2.5, IRB440L

FOR COMAU® ROBOTS

59D01 SmartSix 6-14

FOR FANUC® ROBOTS

59D02 100, 100i, 120iB, S-6, M710-20L

59D05 ArcMate 50iB, 50iC

59DT-003 100iC, 120iC, M710iC-12L (includes 59D01 insulating disc)

FOR KUKA® ROBOTS

59D02 KR5 arc, KR6, KR6-2, KR6 arc, KR6 KS, KR16 L6, KR16 L6 arc, KR16 L6 KS

59D05 KR5 R1400, KR6 R700 sixx, KR6 R900 sixx, KR10 R900 sixx, KR10 R1100 sixx

59D06 KR16, KR16-2, KR16 S, KR16 KS, KR30 L16-2

59DT-006 KR30, KR60, KR60 L45, KR60 L30 (includes 59D02 insulating disc)

FOR MILLER® ROBOTS

59D02 MRV-2

FOR OTC DAIHEN® ROBOTS

59D02 MRV-6, EX-V6, EX-V6L, EX-V16, DR-2000, DR-4000, DR-4200L, DR-4400

FOR PANASONIC® ROBOTS

59D03 VR-008A, VR-006A, VR-005C, VR-005LII, AW-010A, AW-8010, AW-005A, AW-005C, AW-005CL, AS-006A, VR-006AL, TA-1400, TA-1800, TL-1800, TL-2000

59DT-005 TM-1100, TM-1400, TM-1600, TM-1800 (includes 59D02 insulating disc)

FOR REIS® ROBOTS

59D06 RV4, RV6, RV6L, RV20-6

59D06 insulating disc

FOR YASKAWA® MOTOMAN® ROBOTS

59D02 HP6, HP50-20, K6A, K10S, MH50-20, MH6, SK6, SK16, SK16X, SSF2000, UP6, UP20

59D07 K35, HP3, HP3C, HP3JC, MH5, MH5L, SV3

59DT-001 MH50 (includes 59D02 insulating disc)

59D08 MH5S, MH5LS

59DT-008 MA1440, MA2010, MA3210 (includes 59D01 insulating disc)

59DT-002 EA Series (includes 59D03 insulating disc)

POWER PINS

POWER PINS

214-1W Miller®

214-12W Tweco® #5

214-40W Lincoln® (modified)

214-7W Lincoln®

214-17W Fronius®

214W Tweco® #4

214-30W Panasonic®

PERIPHERALS & ACCESSORIES

TOUGH GUN® TT4 REAMER



POWER THROUGH WELD SPATTER FOR INCREASED UPTIME AND WELD QUALITY

Automating spatter removal helps to extend the life of your robotic MIG guns and consumables, benefiting your bottom line, production uptime and throughput. Operates reliably in the harshest welding environments.

VISIT BERNARDTREGASKISS.COM/TT4 FOR ORDERING INFORMATION.

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.

- 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® 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.

- TG-101-05** 5.28 U.S. Gallon / 20 L
- TG-101-55** 55 U.S. Gallon / 208 L
- TG-101-01** 1 U.S. Gallon / 3.78 L
- TG-101-32SP** 32 fl. oz. / 946 mL (spray bottle)
- TG-101-14S** 16.9 fl. oz. / 500 mL

TOUGH GARD® MULTI-FEED SYSTEM HOSE [SOLD SEPARATELY]

- TG-103-100** 100' multi-feed hose
- TG-103-200** 200' multi-feed hose

NOTES

ORDERING INFORMATION

STEP #1: TREGASKISS® 600 AMP ROBOTIC WATER-COOLED MIG GUNS

Gun Series	Neck	Option 1	Option 2	Cable Length	Nozzle	Contact Tip	Wire Size	Power Pin
RW16	A	Z	0	B	A	5	E	M
	A 22 degree C 180 degree	Z No options available	0 No options 1 Wire brake	B 3.5' C 4.0' D 4.5' E 5.0' F 5.5' G 6.0' H 6.5' J 7.0' L 8.0' R 10.0' U 12.0'	0 No consumables A 671-6-75 B 671-8-75	0 No consumables* 5 T-A0XXCH**	0 N/A* E 0.045" G 0.052" J 1/16"	L Lincoln® M Miller® P Panasonic® T Tweco® #4

*MUST BE SELECTED IF "NO CONSUMABLES" IS SELECTED IN NOZZLE OPTION

**XX = WIRE SIZE

STEP #2: INSULATING/TRANSITION DISC

Select your insulating disc from page 7 and enter it here:

STEP #3: MOUNTING ARM

Select your mounting arm from page 7 or 8 and enter it here:

STEP #4: CLUTCH

NOTE: Omit this step for solid mount setups.

Select your safety clutch from page 7 and enter it here:

BRAND AND PRODUCT NAMES SHOWN ABOVE ARE TRADEMARKS OF THEIR RESPECTIVE OWNERS.
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