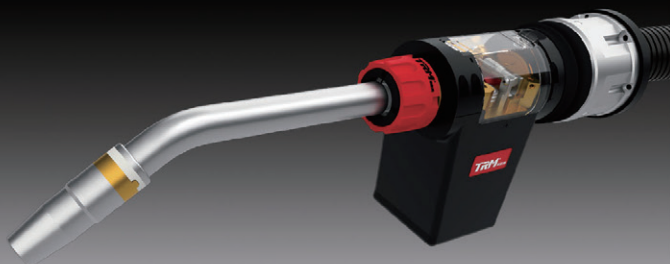


Never compromise on quality

TRM[®] 特尔玛

Robotic Welding Torch



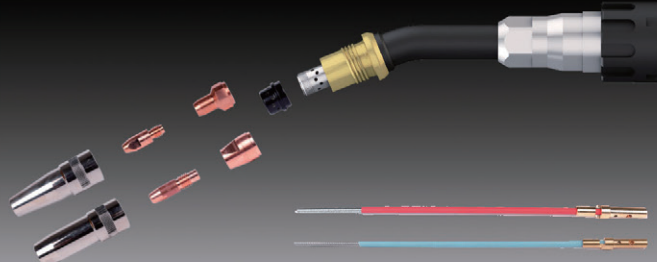
Servo Push-Pull Robot Torch



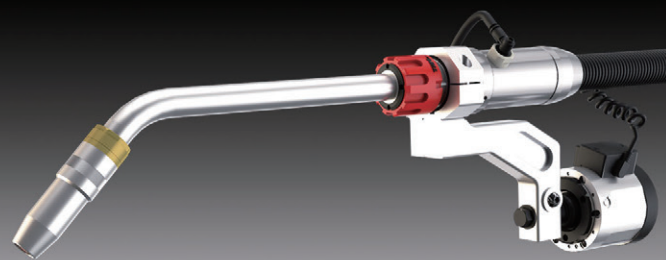
Air Cooled Robot Torch



550A Liquid Cooled Robot Torch



Replacement of Imported Torch Parts



700A Liquid Cooled Robot Torch



Cleaning Station

Since 2001

CATALOGUE

CATALOGUE (V2.10 Revision time: Sep. 2025)



TRM is a leader in designing and manufacturing Robotic and Manual MIG/Plasma torches and consumables based in China.

Over the past two decades, we make high quality torches and consumables for customers around the globe by setting the standard for quality and cost-efficiency.

Founded in 2001, the founding principle of customer-focused innovation continues to drive product development at TRM. We dedicate more resources to world-class facilities, industry research and manufacturing operations than any other manufacturers in China.

Nowadays, TRM Technology Inc. represents China's best technology and the largest production scale in this industry at a competitive cost. We look forward to working with you and generate values for customers world-wide.



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HIGH PERFORMANCE CONTACT TIPS & FLANGE

HIGH PERFORMANCE CONTACT TIP	63
FLANGE SELECTION	64-65

Rating	550A CO ₂ 500A mixed gases M21 (ISO 14175)
Duty cycle	100%



ITEM	TRM313-01-N10	TRM313-01-N16
Size	Diameter Φ77/Height 103.7mm	Diameter Φ77/Height 103.7mm
Weight	980g	980g
Sensing accuracy	1°~1.5°	1°~1.5°
Maximum deflection	XY direction 8°	XY direction 4°
Repeatability(400mm)	0.1~0.15mm	Within 0.15mm
Trigger force	About 60-70N in X/Y (400mm) direction	About 90-100N in X/Y (400mm) direction
IP protection level	IP21	IP21
Switching capacity	0.1A/250VAC	0.1A/250VAC
Ambient temperature	-10°C to +55°C	-10°C to +55°C
Relative humidity	70% at 20 °C during operation	70% at 20 °C during operation

Item	Order NO.	Product Description
ROBOT TORCH	TRM613WPPHD	Push-pull robot welding torch (Including synchronizer)

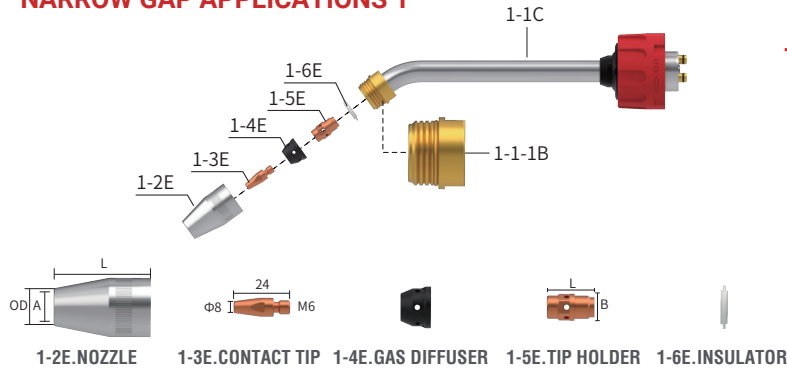
Suitable Industries:

- > Welding Aluminum for New Energy Vehicles
- > Thin Sheet Metal Welding

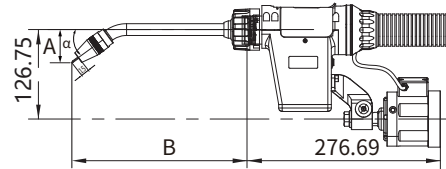
550A LIQUID COOLED ROBOT TORCH

NARROW GAP APPLICATIONS

NARROW GAP APPLICATIONS 1



TCP DATE



α	A(mm)	B(mm)	Angle	Neck Part No.
36°	46	239.7	36°	550WTE31-36
36°	46	324.7	36°	550WTE31-36L

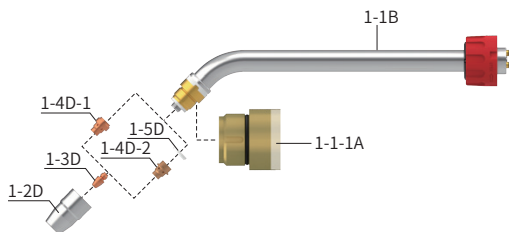
TORCH NECK ASSEMBLY

Item	Order NO.	Product Description
1-1C. GOOSE NECK	550WTE31-36	Goose neck (36°)
	550WTE31-36L	Goose neck (36°, extended 85mm)
1-1-1B. NOZZLE HOLDER	550WTE31-04-ZJ	With sealing ring

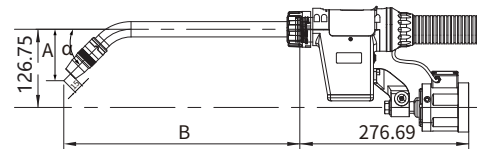
GOOSE NECK CONSUMABLES(M6)

Item	Order NO.	Product Description
1-2E. NOZZLE	TRM015-93-13C	Tip recess,L=41.3mm,A=Φ13mm,B=Φ25mm
	TRM035-31-08A	CuCrZr,Φ0.8mm wire (Aluminium)
1-3E. CONTACT TIP	TRM035-31-10A	CuCrZr,Φ1.0mm wire (Aluminium)
	TRM035-31-12A	CuCrZr,Φ1.2mm wire (Aluminium)
	TRM035-31-16A	CuCrZr,Φ1.6mm wire (Aluminium)
1-4E. GAS DIFFUSER	TRM028-04	BLACK
1-5E. TIP HOLDER	TRM048-01	M6, L=20mm, B=10×1.25
1-6E. INSULATOR	550WTE31-08	Insulator (White)

NARROW GAP APPLICATIONS 2



TCP DATE



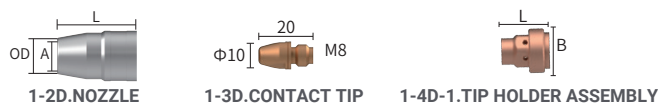
α	A(mm)	B(mm)	Angle	Neck Part No.
45°	80.5	369.7	45°	550WTE51-45L371H053

TORCH NECK ASSEMBLY

Item	Order NO.	Product Description
1-1B. GOOSE NECK	550WTE51-45L371H053	45°, special type, straight length 244mm,for narrow gaps
1-1-1A. NOZZLE HOLDER	550WTE51-03-ZJ	With sealing ring

GOOSE NECK CONSUMABLES

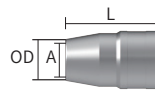
(M8 SHORT NOZZLE STANDARD CONFIGURATION)



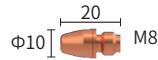
Item	Order NO.	Product Description
1-2D. NOZZLE	TRM015-72-16C	Tip flush;L=47mm,A=16mm
1-3D. CONTACT TIP	TRM035-62-10A	CuCrZr,Φ1.0 wire (Aluminium)
	TRM035-62-12A	CuCrZr,Φ1.2 wire (Aluminium)
1-4D-1. TIP HOLDER ASSEMBLY	TRM046-06	M8 L=18.5mm,B=M12X1

Servo Push-Pull Welding Torch TRM613WPPHD

Rating 550A CO₂
500A mixed gases M21 (ISO 14175)
Duty cycle 100%



1-2D.NOZZLE



1-3D.CONTACT TIP



1-4D-2.TIP HOLDER ASSEMBLY



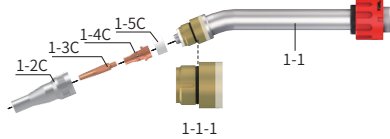
1-5D.INSULATOR

GOOSE NECK CONSUMABLES

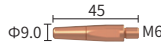
(M8 SHORT NOZZLE HEAVY LOAD CONFIGURATION)

Item	Order NO.	Product Description
1-2D. NOZZLE	TRM015-72-16C	Tip flush; L=47mm, A=16mm
1-3D. CONTACT TIP	TRM035-62-10A	CuCrZr, Φ1.0 wire (Aluminium)
	TRM035-62-12A	CuCrZr, Φ1.2 wire (Aluminium)
1-4D-2. TIP HOLDER ASSEMBLY	TRM046-06-HD	M8 L=18.5mm, B=M12X1
1-5D. INSULATOR	550WTE51-15	Insulator (White)

NARROW GAP APPLICATIONS 3



1-2C.NOZZLE



1-3C.CONTACT TIP

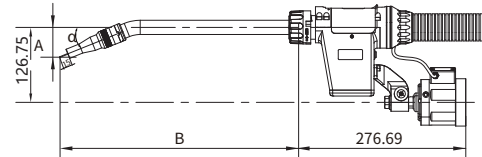


1-4C.TIP HOLDER



1-5C.INSULATOR

TCP DATE



α	A(mm)	B(mm)	Angle	Neck Part No.
22°	50.41	306.7	22°	550WTE51-22L240H023
22°	50.41	407.7	22°	550WTE51-22L341H023
36°	86.48	303.65	36°	550WTE51-36L245H044
45°	123.58	285.26	45°	550WTE51-45L234H073
45°	123.58	385.26	45°	550WTE51-45L334H073
22°	50.41	234.2	22°	550WTE51-22L167H023

TORCH NECK ASSEMBLY

Item	Order NO.	Product Description
1-1A. GOOSE NECK	550WTE51-22L240H023	22°, standard, straight length 150mm
	550WTE51-22L341H023	22°, extended mm, straight length 251mm
	550WTE51-36L245H044	36°, standard, straight length 145mm
	550WTE51-45L234H073	45°, standard, straight length 117mm
	550WTE51-45L334H073	45°, extended 100mm, straight length 217mm
	550WTE51-22L167H023	22°, short neck, straight length 78mm
1-1-1A. NOZZLE HOLDER	550WTE51-03-ZJ	With sealing ring

GOOSE NECK CONSUMABLES(JAPANESE STYLE)

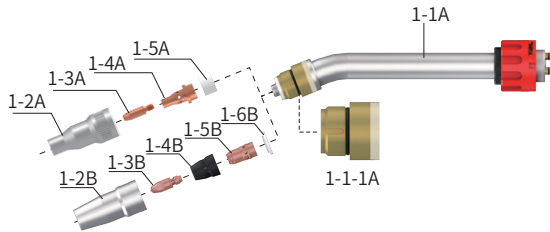
Item	Order NO.	Product Description
1-2C. NOZZLE	TRM015-82-13	Tip flush; L=80.9mm, A=Φ13mm, b=Φ30mm
1-3C. CONTACT TIP	TMP030-2-R08	CuCrZr, Φ0.8 wire (Steel)
	TMP030-2-R10	CuCrZr, Φ1.0 wire (Steel)
	TMP030-2-R12	CuCrZr, Φ1.2 wire (Steel)
	TMP030-2-R14	CuCrZr, Φ1.4 wire (Steel)
	TMP030-2-R16	CuCrZr, Φ1.6 wire (Steel)
1-4C. TIP HOLDER	TRM046-05	M6 L=27mm, B=M12X1
1-5C. INSULATOR	550WTE51-16	Insulator (White)

Suitable Industries:

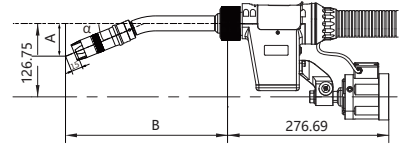
- > Welding Aluminum for New Energy Vehicles
- > Thin Sheet Metal Welding

550A LIQUID COOLED ROBOT TORCH

STANDARD CONFIGURATION



TCP DATE

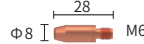
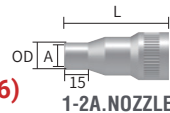


α	A(mm)	B(mm)	Angle	Neck Part No.
22°	44.3	291.6	22°	550WTE51-22L240H023
22°	44.3	392.6	22°	550WTE51-22L341H023
36°	76.6	289.57	36°	550WTE51-36L245H044
45°	111.27	272.96	45°	550WTE51-45L234H073
45°	111.27	372.96	45°	550WTE51-45L334H073
22°	44.3	218.06	22°	550WTE51-22L167H023

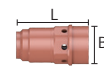
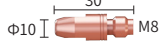
1.TORCH NECK ASSEMBLY

Item	Order NO.	Product Description
1-1A. GOOSE NECK	550WTE51-22L240H023	22°, standard, straight length 150mm
	550WTE51-22L341H023	22°, extended mm, straight length 251mm
	550WTE51-36L245H044	36°, standard, straight length 145mm
	550WTE51-45L234H073	45°, standard, straight length 117mm
	550WTE51-45L334H073	45°, extended 100mm, straight length 217mm
	550WTE51-22L167H023	22°, short neck, straight length 78mm
1-1-1A. NOZZLE HOLDER	550WTE51-03-ZJ	With sealing ring

GOOSE NECK CONSUMABLES(M6)



Item	Order NO.	Product Description
1-2A. NOZZLE	TRM015-62-14C	Tip flush (Nickel plating) ; L=63.5mm, A=14mm
	TRM015-61-13C	Tip recess (Nickel plating) ; L=65.5mm, A=13mm
1-3A. CONTACT TIP	TRM035-12-08A	CuCrZr, $\Phi 0.8$ wire (Aluminium)
	TRM035-12-10A	CuCrZr, $\Phi 1.0$ wire (Aluminium)
	TRM035-12-12A	CuCrZr, $\Phi 1.2$ wire (Aluminium)
	TRM035-12-14A	CuCrZr, $\Phi 1.4$ wire (Aluminium)
	TRM035-12-16A	CuCrZr, $\Phi 1.6$ wire (Aluminium)
	TRM035-11-08A	Copper, $\Phi 0.8$ wire (Aluminium)
	TRM035-11-10A	Copper, $\Phi 1.0$ wire (Aluminium)
	TRM035-11-12A	Copper, $\Phi 1.2$ wire (Aluminium)
	TRM035-11-14A	Copper, $\Phi 1.4$ wire (Aluminium)
	TRM035-11-16A	Copper, $\Phi 1.6$ wire (Aluminium)
1-4A. TIP HOLDER	TRM046-05	M6 L=27mm, B=M12X1
1-5A. INSULATOR	550WTE51-16	Insulator (White)



GOOSE NECK CONSUMABLES(M8)

Item	Order NO.	Product Description
1-2B. NOZZLE	TRM015-62-16C	Tip flush (Nickel plating) ; L=63.5mm, A=16mm
	TRM015-63-16C	Tip stick out (Nickel plating) ; L=60.5mm, A=16mm
	TRM015-62-14C	Tip flush (Nickel plating) ; L=63.5mm, A=14mm
	TRM015-61-17C	Tip recess (Nickel plating) ; L=65.5mm, A=17mm
1-3B. CONTACT TIP	TRM035-02-08A	CuCrZr, $\Phi 0.8$ mm wire (Aluminium)
	TRM035-02-10A	CuCrZr, $\Phi 1.0$ mm wire (Aluminium)
	TRM035-02-12A	CuCrZr, $\Phi 1.2$ mm wire (Aluminium)
	TRM035-02-14A	CuCrZr, $\Phi 1.4$ mm wire (Aluminium)
	TRM035-02-16A	CuCrZr, $\Phi 1.6$ mm wire (Aluminium)
1-4B. GAS DIFFUSER	3.1.4.0845	Black
1-5B. TIP HOLDER	TRM046-04	M8 L=27mm, B=M12X1
1-6B. INSULATOR	550WTE51-15	Insulator (White)

Servo Push-Pull Welding Torch TRM613WPPHD

Rating 550A CO₂
500A mixed gases M21 (ISO 14175)
Duty cycle 100%

2.ANTI-COLLISION UNIT

Item	Order NO.	Product Description
2-1. MOUNT ARM	TRM613WPP-06-01CM	Fixing bracket(Component)
2-2. COLLISION SENSOR	TRM313-01-N10	Suitable for standard goose neck
	TRM313-01-N16	Suitable for extended goose neck
2-3. FLANGE	See P64-65 flange selection table	Including the installed screws

3.CABLE ASSEMBLY

Item	Order NO.	Product Description
3. TORCH BODY ASSEMBLY	TRM613WPPHD-CBSA	Cable assembly (Including torch body)
3-1. TORCH BODY	TM613WPPHD-TORCH BODY	
3-1-1. MAIN WIRE FEED ROLL (suitable for Aluminium welding)	TRM651WPP-06-35	Wire feed rolls (0.8U-Type) aluminium/ aluminium alloy wire
	TRM651WPP-06-32	Wire feed rolls (1.0U-Type) aluminium/ aluminium alloy wire
	TRM651WPP-06-10	Wire feed rolls (1.2U-Type) aluminium/ aluminium alloy wire
	TRM651WPP-06-33	Wire feed rolls (1.4U-Type) aluminium/ aluminium alloy wire
	TRM651WPP-06-34	Wire feed rolls (1.6U-Type) aluminium/ aluminium alloy wire
3-1-2. AUXILIARY WIRE FEED ROLL	699CE	Driven roll
3-2. CABLE	TRM613WPPHD-DL	Cable assembly
3-3. SPRING LINE	KYF8K3WT-L5M.PB	M8 curved plug with wire 5meter shielded cable
F. LINER HOLDER	TRM651WPP-08-12	Φ0.8-1.6mm(Only for European connector)

4.LINER OPTIONAL COMBINATION

Item	Order NO.	Product Description
A. NECK LINER (suitable for Aluminium welding)	TRM154-08A-XX	(Aluminium) wire Φ0.8-1.0mm
	TRM154-12A-XX	(Aluminium) wire Φ1.0-1.2mm
	TRM154-16A-XX	(Aluminium) wire Φ1.4-1.6mm
C. WIRE GUIDE BUSHING	TRM605WPP-06-58	Wire guide bushing (Φ0.8mm-Φ1mm)
	TRM605WPP-06-53	Wire guide bushing (Φ1.2mm)
	TRM605WPP-06-59	Wire guide bushing (Φ1.4mm-Φ1.6mm)
D. LINER(Euro connector)	TRM153B-08A-23	Overall length 1.8m, (Aluminium) wire0.8-1.0mm
	TRM153B-12A-23	Overall length 1.8m, (Aluminium) wire1.0-1.2mm
	TRM153B-16A-23	Overall length 1.8m, (Aluminium) wire1.4-1.6mm
D-1. LINER (Panasonic/Lincoln connector optional)	TRM150N-08A-23	(Aluminium) wire Φ0.8-1.0mm
	TRM150N-12A-23	(Aluminium) wire Φ1.0-1.2mm
	TRM150N-16A-23	(Aluminium) wire Φ1.4-1.6mm

* If the cable length exceeds 2 metres, please contact sales in advance when ordering the length of the wire feeder tube.

5.SPARE PARTS

Item	Order NO.	Product Description
5. SYNCHRONIZER-POSITION RING ASSEMBLY	TRM607WPP-SYNC-01B	
5-1. SYNCHRONIZER	TRM607WPP-SYNC-01B-00	Position ring servo synchronizer assembly
5-2. SIGNAL COLLECTOR	TRM607WPP-WZH-00	Signal collector assembly
5-3. WIRED POWER PLUG	D09011000135	Pin 3-hole plug with wire
5-4. NETWORK CABLE	C02011900026	Super Category 6 Double Shielded Network Cable (5 meters)

6.ACCESSORY BAG

Item	Order NO.	Product Description
6. ACCESSORY BAG	TRM-AP-WT	Includes sealing rings and silicone grease on the bend and European joint, as well as the sealing components for the push-pull wire body.

Suitable Industries:

- > Welding Aluminum for New Energy Vehicles
- > Thin Sheet Metal Welding

550A LIQUID COOLED ROBOT TORCH

CARBON STEEL CONFIGURATION

Item	Order NO.	Product Description
1-3A. CONTACT TIP(M6)	TRM035-12-08	CuCrZr Φ0.8mm wire(Steel)
	TRM035-12-10	CuCrZr Φ1.0mm wire(Steel)
	TRM035-12-12	CuCrZr Φ1.2mm wire(Steel)
	TRM035-12-14	CuCrZr Φ1.4mm wire(Steel)
	TRM035-12-16	CuCrZr Φ1.6mm wire(Steel)
1-3B. CONTACT TIP(M8)	TRM035-03-10	Φ1.0(Long life、steel)
	TRM035-03-12	Φ1.2(Long life、steel)
	TRM035-03-14	Φ1.4(Long life、steel)
	TRM035-03-16	Φ1.6(Long life、steel)
	TRM035-02-08	CuCrZr, Φ0.8mm wire(Steel)
	TRM035-02-10	CuCrZr, Φ1.0mm wire(Steel)
	TRM035-02-12	CuCrZr, Φ1.2mm wire(Steel)
	TRM035-02-14	CuCrZr, Φ1.4mm wire(Steel)
1-3C. CONTACT TIP (Narrow gap applications 3)	TRM035-02-16	CuCrZr, Φ1.6mm wire(Steel)
	TMP030-2-R08	CuCrZr, Φ0.8 wire (Steel)
	TMP030-2-R10	CuCrZr, Φ1.0 wire (Steel)
	TMP030-2-R12	CuCrZr, Φ1.2 wire (Steel)
	TMP030-2-R14	CuCrZr, Φ1.4 wire (Steel)
1-3D. CONTACT TIP (Narrow gap applications 2)	TMP030-2-R16	CuCrZr, Φ1.6 wire (Steel)
	TRM035-62-08	CuCrZr, Φ0.8mm wire(Steel)
	TRM035-62-10	CuCrZr, Φ1.0mm wire(Steel)
	TRM035-62-12	CuCrZr, Φ1.2mm wire(Steel)
	TRM035-62-14	CuCrZr, Φ1.4mm wire(Steel)
1-3E. CONTACT TIP (Narrow gap applications 1)	TRM035-31-08	CuCrZr, Φ0.8 wire (Steel)
	TRM035-31-10	CuCrZr, Φ1.0 wire (Steel)
	TRM035-31-12	CuCrZr, Φ1.2 wire (Steel)
	TRM035-31-14	CuCrZr, Φ1.4 wire (Steel)
	TRM035-31-16	CuCrZr, Φ1.6 wire (Steel)
B. NECK LINER	TRM154-08-60	0.8mm-0.9mm(Steel)
	TRM154-12-60	1.0mm-1.2mm(Steel)
	TRM154-16-60	1.4mm-1.6mm(Steel)
3-1-1. WIRE FEED ROLL	TRM651WPP-06-29	Wire feed roll (0.8V-Type)
	TRM651WPP-06-28	Wire feed roll (1.0V-Type)
	TRM651WPP-06-27	Wire feed roll (1.2V-Type)
	TRM651WPP-06-30	Wire feed roll (1.4V-Type)
	TRM651WPP-06-31	Wire feed roll (1.6V-Type)
E. LINER(Euro connector)	TRM153B-08-23	(Steel)0.8-0.9mm welding wire European connector
	TRM153B-12-23	(Steel)1.0-1.2mm welding wire European connector
	TRM153B-16-23	(Steel)1.4-1.6mm welding wire European connector
E-1. LINER (Panasonic/Lincoln connector optional)	TRM150-08-23	(Steel)0.8-0.9mm welding wire Panasonic or Lincoln connector
	TRM150-12-23-WP	(Steel)1.0-1.2mm welding wire Panasonic or Lincoln connector
	TRM150-16-23-WP	(Steel)1.4-1.6mm welding wire Panasonic or Lincoln connector

Rating	550A CO ₂ 500A mixed gases M21 (ISO 14175)
Duty cycle	100%



ITEM	TRM316-01-N10	TRM316-01-N16
Size	Diameter Φ85/Height 89mm	Diameter Φ85/Height 89mm
Weight	600g	600g
Sensing accuracy	Deflection in X/Y direction 0.9°~1.5 °	Deflection in X/Y direction 0.9°~1.5 °
Maximum deflection	X/Y deflection approx. 10 °	X/Y deflection approx. 6 °
Repeatability(400mm)	Within 0.15mm	Within 0.15mm
Trigger force	About 60-70N in X/Y (400mm) direction	About 90-100N in X/Y (400mm) direction
IP protection level	IP21	IP21
Switching capacity	10A/250VAC	10A/250VAC
Ambient temperature	-10°C to +55°C	-10°C to +55°C
Relative humidity	70% at 20 °C during operation	70% at 20 °C during operation

Item	Order NO.	Product Description
ROBOT TORCH	TRM612WPPHD	Push-pull robot welding torch (Including synchronizer)

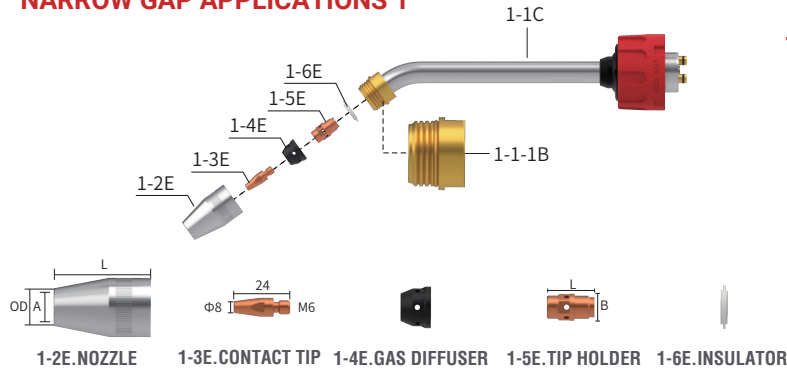
Suitable Industries:

- > Welding Aluminum for New Energy Vehicles
- > Thin Sheet Metal Welding

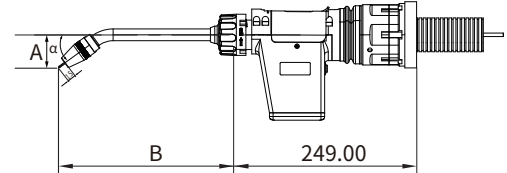
550A LIQUID COOLED ROBOT TORCH

NARROW GAP APPLICATIONS

NARROW GAP APPLICATIONS 1



TCP DATE



α	A(mm)	B(mm)	Angle	Neck Part No.
36°	46	239.7	36°	550WTE31-36
36°	46	324.7	36°	550WTE31-36L

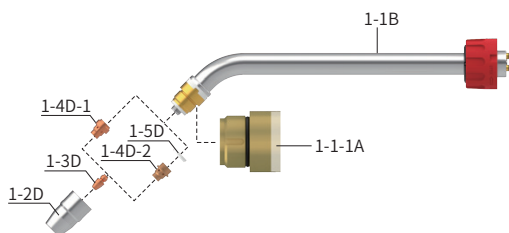
TORCH NECK ASSEMBLY

Item	Order NO.	Product Description
1-1C. GOOSE NECK	550WTE31-36	Goose neck (36°)
	550WTE31-36L	Goose neck (36°, extended 85mm)
1-1-1B. NOZZLE HOLDER	550WTE31-04-ZJ	With sealing ring

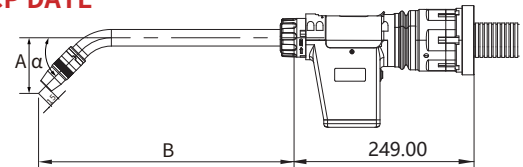
GOOSE NECK CONSUMABLES(M6)

Item	Order NO.	Product Description
1-2E. NOZZLE	TRM015-93-13C	Tip recess,L=41.3mm,A=Φ13mm,B=Φ25mm
	TRM035-31-08A	CuCrZr,Φ0.8mm wire (Aluminium)
1-3E. CONTACT TIP	TRM035-31-10A	CuCrZr,Φ1.0mm wire (Aluminium)
	TRM035-31-12A	CuCrZr,Φ1.2mm wire (Aluminium)
	TRM035-31-16A	CuCrZr,Φ1.6mm wire (Aluminium)
1-4E. GAS DIFFUSER	TRM028-04	BLACK
1-5E. TIP HOLDER	TRM048-01	M6, L=20mm, B=10×1.25
1-6E. INSULATOR	550WTE31-08	Insulator (White)

NARROW GAP APPLICATIONS 2



TCP DATE



α	A(mm)	B(mm)	Angle	Neck Part No.
45°	80.5	369.7	45°	550WTE51-45L371H053

TORCH NECK ASSEMBLY

Item	Order NO.	Product Description
1-1B. GOOSE NECK	550WTE51-45L371H053	45°, special type, straight length 244mm,for narrow gaps
1-1-1A. NOZZLE HOLDER	550WTE51-03-ZJ	With sealing ring

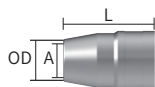
GOOSE NECK CONSUMABLES

(M8 SHORT NOZZLE STANDARD CONFIGURATION)

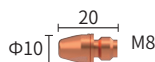
Item	Order NO.	Product Description
1-2D. NOZZLE	TRM015-72-16C	Tip flush;L=47mm,A=16mm
1-3D. CONTACT TIP	TRM035-62-10A	CuCrZr,Φ1.0 wire (Aluminium)
	TRM035-62-12A	CuCrZr,Φ1.2 wire (Aluminium)
1-4D-1. TIP HOLDER ASSEMBLY	TRM046-06	M8 L=18.5mm,B=M12X1

Servo Push-Pull Welding Torch TRM612WPPHD

Rating 550A CO₂
500A mixed gases M21 (ISO 14175)
Duty cycle 100%



1-2D.NOZZLE



1-3D.CONTACT TIP



1-4D-2.TIP HOLDER ASSEMBLY



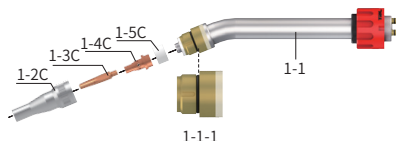
1-5D.INSULATOR

GOOSE NECK CONSUMABLES

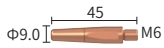
(M8 SHORT NOZZLE HEAVY LOAD CONFIGURATION)

Item	Order NO.	Product Description
1-2D. NOZZLE	TRM015-72-16C	Tip flush; L=47mm, A=16mm
1-3D. CONTACT TIP	TRM035-62-10A	CuCrZr, Φ1.0 wire (Aluminium)
	TRM035-62-12A	CuCrZr, Φ1.2 wire (Aluminium)
1-4D-2. TIP HOLDER ASSEMBLY	TRM046-06-HD	M8 L=18.5mm, B=M12X1
1-5D. INSULATOR	550WTE51-15	Insulator (White)

NARROW GAP APPLICATIONS 3



1-2C.NOZZLE



1-3C.CONTACT TIP

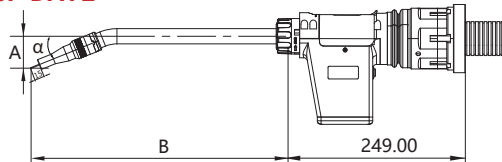


1-4C.TIP HOLDER



1-5C.INSULATOR

TCP DATE



α	A(mm)	B(mm)	Angle	Neck Part No.
22°	50.41	306.7	22°	550WTE51-22L240H023
22°	50.41	407.7	22°	550WTE51-22L341H023
36°	86.48	303.65	36°	550WTE51-36L245H044
45°	123.58	285.26	45°	550WTE51-45L234H073
45°	123.58	385.26	45°	550WTE51-45L334H073
22°	50.41	234.2	22°	550WTE51-22L167H023

TORCH NECK ASSEMBLY

Item	Order NO.	Product Description
1-1A. GOOSE NECK	550WTE51-22L240H023	22°, standard, straight length 150mm
	550WTE51-22L341H023	22°, extended mm, straight length 251mm
	550WTE51-36L245H044	36°, standard, straight length 145mm
	550WTE51-45L234H073	45°, standard, straight length 117mm
	550WTE51-45L334H073	45°, extended 100mm, straight length 217mm
	550WTE51-22L167H023	22°, short neck, straight length 78mm
1-1-1A. NOZZLE HOLDER	550WTE51-03-ZJ	With sealing ring

GOOSE NECK CONSUMABLES(JAPANESE STYLE)

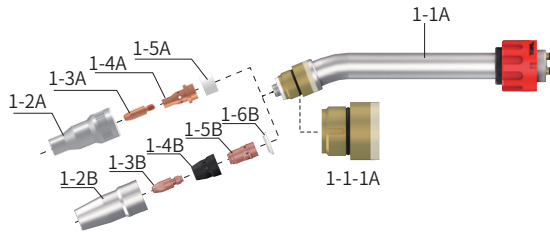
Item	Order NO.	Product Description
1-2C. NOZZLE	TRM015-82-13	Tip flush; L=80.9mm, A=Φ13mm, b=Φ30mm
1-3C. CONTACT TIP	TMP030-2-R08	CuCrZr, Φ0.8 wire (Steel)
	TMP030-2-R10	CuCrZr, Φ1.0 wire (Steel)
	TMP030-2-R12	CuCrZr, Φ1.2 wire (Steel)
	TMP030-2-R14	CuCrZr, Φ1.4 wire (Steel)
	TMP030-2-R16	CuCrZr, Φ1.6 wire (Steel)
1-4C. TIP HOLDER	TRM046-05	M6 L=27mm, B=M12X1
1-5C. INSULATOR	550WTE51-16	Insulator (White)

Suitable Industries:

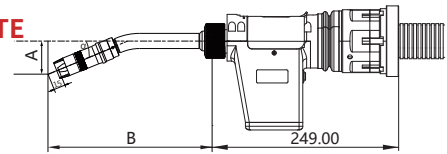
- > Welding Aluminum for New Energy Vehicles
- > Thin Sheet Metal Welding

550A LIQUID COOLED ROBOT TORCH

STANDARD CONFIGURATION



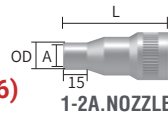
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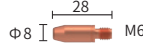
α	A(mm)	B(mm)	Angle	Neck Part No.
22°	44.3	291.6	22°	550WTE51-22L240H023
22°	44.3	392.6	22°	550WTE51-22L341H023
36°	76.6	289.57	36°	550WTE51-36L245H044
45°	111.27	272.96	45°	550WTE51-45L234H073
45°	111.27	372.96	45°	550WTE51-45L334H073
22°	44.3	218.06	22°	550WTE51-22L167H023

1. TORCH NECK ASSEMBLY

Item	Order NO.	Product Description
1-1A. GOOSE NECK	550WTE51-22L240H023	22°, standard, straight length 150mm
	550WTE51-22L341H023	22°, extended mm, straight length 251mm
	550WTE51-36L245H044	36°, standard, straight length 145mm
	550WTE51-45L234H073	45°, standard, straight length 117mm
	550WTE51-45L334H073	45°, extended 100mm, straight length 217mm
	550WTE51-22L167H023	22°, short neck, straight length 78mm
1-1-1A. NOZZLE HOLDER	550WTE51-03-ZJ	With sealing ring



1-2A.NOZZLE



1-3A.CONTACT TIP



1-4A.TIP HOLDER



1-5A.INSULATOR

GOOSE NECK CONSUMABLES(M6)

Item	Order NO.	Product Description
1-2A. NOZZLE	TRM015-62-14C	Tip flush (Nickel plating) ; L=63.5mm, A=14mm
	TRM015-61-13C	Tip recess (Nickel plating) ; L=65.5mm, A=13mm
1-3A. CONTACT TIP	TRM035-12-08A	CuCrZr, $\Phi 0.8$ wire (Aluminium)
	TRM035-12-10A	CuCrZr, $\Phi 1.0$ wire (Aluminium)
	TRM035-12-12A	CuCrZr, $\Phi 1.2$ wire (Aluminium)
	TRM035-12-14A	CuCrZr, $\Phi 1.4$ wire (Aluminium)
	TRM035-12-16A	CuCrZr, $\Phi 1.6$ wire (Aluminium)
	TRM035-11-08A	Copper, $\Phi 0.8$ wire (Aluminium)
	TRM035-11-10A	Copper, $\Phi 1.0$ wire (Aluminium)
	TRM035-11-12A	Copper, $\Phi 1.2$ wire (Aluminium)
	TRM035-11-14A	Copper, $\Phi 1.4$ wire (Aluminium)
	TRM035-11-16A	Copper, $\Phi 1.6$ wire (Aluminium)
1-4A. TIP HOLDER	TRM046-05	M6 L=27mm, B=M12X1
1-5A. INSULATOR	550WTE51-16	Insulator (White)



1-2B.NOZZLE



1-3B.CONTACT TIP



1-4B.GAS DIFFUSER



1-5B.TIP HOLDER



1-6B.INSULATOR

GOOSE NECK CONSUMABLES(M8)

Item	Order NO.	Product Description
1-2B. NOZZLE	TRM015-62-16C	Tip flush (Nickel plating) ; L=63.5mm, A=16mm
	TRM015-63-16C	Tip stick out (Nickel plating) ; L=60.5mm, A=16mm
	TRM015-62-14C	Tip flush (Nickel plating) ; L=63.5mm, A=14mm
	TRM015-61-17C	Tip recess (Nickel plating) ; L=65.5mm, A=17mm
1-3B. CONTACT TIP	TRM035-02-08A	CuCrZr, $\Phi 0.8$ mm wire (Aluminium)
	TRM035-02-10A	CuCrZr, $\Phi 1.0$ mm wire (Aluminium)
	TRM035-02-12A	CuCrZr, $\Phi 1.2$ mm wire (Aluminium)
	TRM035-02-14A	CuCrZr, $\Phi 1.4$ mm wire (Aluminium)
	TRM035-02-16A	CuCrZr, $\Phi 1.6$ mm wire (Aluminium)
1-4B. GAS DIFFUSER	3.1.4.0845	Black
1-5B. TIP HOLDER	TRM046-04	M8 L=27mm, B=M12X1
1-6B. INSULATOR	550WTE51-15	Insulator (White)

Servo Push-Pull Welding Torch TRM612WPPHD

Rating 550A CO₂
500A mixed gases M21 (ISO 14175)
Duty cycle 100%

2.ANTI-COLLISION UNIT

Item	Order NO.	Product Description
2-1. COLLISION SENSOR	TRM316-01-N10	Suitable for standard goose neck
	TRM316-01-N16	Suitable for extended goose neck
2-2. FLANGE	See P64-65 flange selection table	Including the installed screws

3.CABLE ASSEMBLY

Item	Order NO.	Product Description
3. TORCH BODY ASSEMBLY	TRM612WPPHD-CBSA	Cable assembly (Including torch body)
3-1. TORCH BODY	TM612WPPHD-TORCH BODY	
3-1-1. MAIN WIRE FEED ROLL (suitable for Aluminium welding)	TRM651WPP-06-35	Wire feed rolls (0.8U-Type) aluminium/ aluminium alloy wire
	TRM651WPP-06-32	Wire feed rolls (1.0U-Type) aluminium/ aluminium alloy wire
	TRM651WPP-06-10	Wire feed rolls (1.2U-Type) aluminium/ aluminium alloy wire
	TRM651WPP-06-33	Wire feed rolls (1.4U-Type) aluminium/ aluminium alloy wire
	TRM651WPP-06-34	Wire feed rolls (1.6U-Type) aluminium/ aluminium alloy wire
3-1-2. AUXILIARY WIRE FEED ROLL	699CE	Driven roll
3-2. CABLE	TRM612WPPHD-DL	Cable assembly
F. LINER HOLDER	TRM651WPP-08-12	Φ0.8-1.6mm(Only for European connector)

4.LINER OPTIONAL COMBINATION

Item	Order NO.	Product Description
A. NECK LINER (suitable for Aluminium welding)	TRM154-08A-XX	(Aluminium) wire Φ0.8-1.0mm
	TRM154-12A-XX	(Aluminium) wire Φ1.0-1.2mm
	TRM154-16A-XX	(Aluminium) wire Φ1.4-1.6mm
C. WIRE GUIDE BUSHING	TRM605WPP-06-58	Wire guide bushing (Φ0.8mm-Φ1mm)
	TRM605WPP-06-53	Wire guide bushing (Φ1.2mm)
	TRM605WPP-06-59	Wire guide bushing (Φ1.4mm-Φ1.6mm)
D. LINER(Euro connector)	TRM153B-08A-23	Overall length 1.8m, (Aluminium) wire0.8-1.0mm
	TRM153B-12A-23	Overall length 1.8m, (Aluminium) wire1.0-1.2mm
	TRM153B-16A-23	Overall length 1.8m, (Aluminium) wire1.4-1.6mm
D-1. LINER (Panasonic/Lincoln connector optional)	TRM150N-08A-23	(Aluminium) wire Φ0.8-1.0mm
	TRM150N-12A-23	(Aluminium) wire Φ1.0-1.2mm
	TRM150N-16A-23	(Aluminium) wire Φ1.4-1.6mm

* If the cable length exceeds 2 metres, please contact sales in advance when ordering the length of the wire feeder tube.

5.SPARE PARTS

Item	Order NO.	Product Description
5. SYNCHRONIZER-POSITION RING ASSEMBLY	TRM607WPP-SYNC-01B	
5-1. SYNCHRONIZER	TRM607WPP-SYNC-01B-00	Position ring servo synchronizer assembly
5-2. SIGNAL COLLECTOR	TRM607WPP-WZH-00	Signal collector assembly
5-3. WIRED POWER PLUG	D09011000135	Pin 3-hole plug with wire
5-4. NETWORK CABLE	C02011900026	Super Category 6 Double Shielded Network Cable (5 meters)

6.ACCESSORY BAG

Item	Order NO.	Product Description
6. ACCESSORY BAG	TRM-AP-WT	Includes sealing rings and silicone grease on the bend and European joint, as well as the sealing components for the push-pull wire body.

Suitable Industries:

- > Welding Aluminum for New Energy Vehicles
- > Thin Sheet Metal Welding

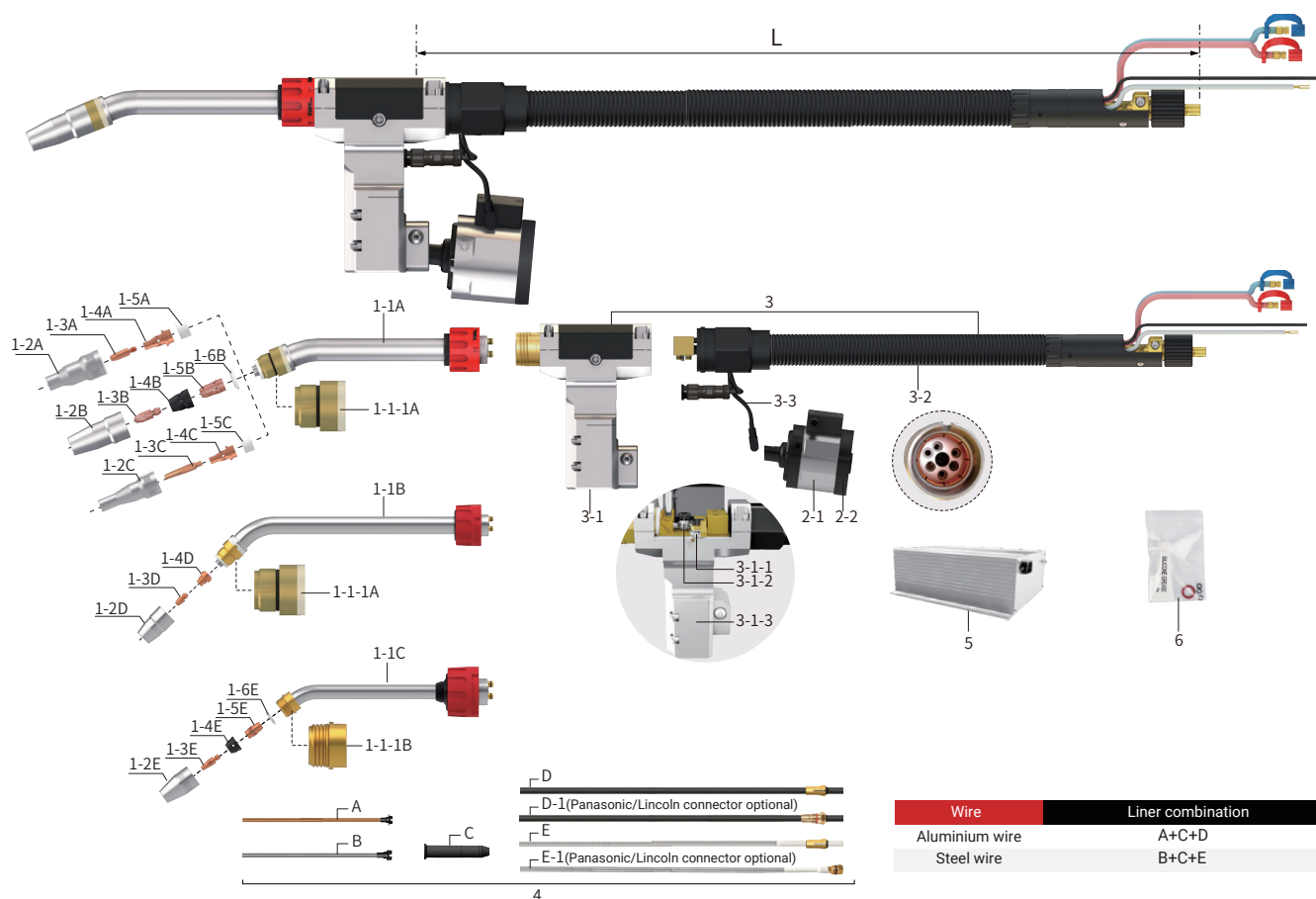
550A LIQUID COOLED ROBOT TORCH

CARBON STEEL CONFIGURATION

Item	Order NO.	Product Description
1-3A. CONTACT TIP(M6)	TRM035-12-08	CuCrZr Φ0.8mm wire(Steel)
	TRM035-12-10	CuCrZr Φ1.0mm wire(Steel)
	TRM035-12-12	CuCrZr Φ1.2mm wire(Steel)
	TRM035-12-14	CuCrZr Φ1.4mm wire(Steel)
	TRM035-12-16	CuCrZr Φ1.6mm wire(Steel)
1-3B. CONTACT TIP(M8)	TRM035-03-10	Φ1.0(Long life、steel)
	TRM035-03-12	Φ1.2(Long life、steel)
	TRM035-03-14	Φ1.4(Long life、steel)
	TRM035-03-16	Φ1.6(Long life、steel)
	TRM035-02-08	CuCrZr, Φ0.8mm wire(Steel)
	TRM035-02-10	CuCrZr, Φ1.0mm wire(Steel)
	TRM035-02-12	CuCrZr, Φ1.2mm wire(Steel)
	TRM035-02-14	CuCrZr, Φ1.4mm wire(Steel)
	TRM035-02-16	CuCrZr, Φ1.6mm wire(Steel)
1-3C. CONTACT TIP (Narrow gap applications 3)	TMP030-2-R08	CuCrZr, Φ0.8 wire (Steel)
	TMP030-2-R10	CuCrZr, Φ1.0 wire (Steel)
	TMP030-2-R12	CuCrZr, Φ1.2 wire (Steel)
	TMP030-2-R14	CuCrZr, Φ1.4 wire (Steel)
	TMP030-2-R16	CuCrZr, Φ1.6 wire (Steel)
1-3D. CONTACT TIP (Narrow gap applications 2)	TRM035-62-08	CuCrZr, Φ0.8mm wire(Steel)
	TRM035-62-10	CuCrZr, Φ1.0mm wire(Steel)
	TRM035-62-12	CuCrZr, Φ1.2mm wire(Steel)
	TRM035-62-14	CuCrZr, Φ1.4mm wire(Steel)
1-3E. CONTACT TIP (Narrow gap applications 1)	TRM035-31-08	CuCrZr, Φ0.8 wire (Steel)
	TRM035-31-10	CuCrZr, Φ1.0 wire (Steel)
	TRM035-31-12	CuCrZr, Φ1.2 wire (Steel)
	TRM035-31-14	CuCrZr, Φ1.4 wire (Steel)
	TRM035-31-16	CuCrZr, Φ1.6 wire (Steel)
B. NECK LINER	TRM154-08-60	0.8mm-0.9mm(Steel)
	TRM154-12-60	1.0mm-1.2mm(Steel)
	TRM154-16-60	1.4mm-1.6mm(Steel)
3-1-1. WIRE FEED ROLL	TRM651WPP-06-29	Wire feed roll (0.8V-Type)
	TRM651WPP-06-28	Wire feed roll (1.0V-Type)
	TRM651WPP-06-27	Wire feed roll (1.2V-Type)
	TRM651WPP-06-30	Wire feed roll (1.4V-Type)
	TRM651WPP-06-31	Wire feed roll (1.6V-Type)
E. LINER(Euro connector)	TRM153B-08-23	(Steel)0.8-0.9mm welding wire European connector
	TRM153B-12-23	(Steel)1.0-1.2mm welding wire European connector
	TRM153B-16-23	(Steel)1.4-1.6mm welding wire European connector
E-1. LINER (Panasonic/Lincoln connector optional)	TRM150-08-23	(Steel)0.8-0.9mm welding wire Panasonic or Lincoln connector
	TRM150-12-23-WP	(Steel)1.0-1.2mm welding wire Panasonic or Lincoln connector
	TRM150-16-23-WP	(Steel)1.4-1.6mm welding wire Panasonic or Lincoln connector

Push-Pull Welding Torch TRM605WPP

Rating 550A CO₂
500A mixed gases M21 (ISO 14175)
Duty cycle 100%



COLLISION SENSOR DATA SHEET

ITEM	TRM313-01-N10	TRM313-01-N16
Size	Diameter Φ77/Height 103.7mm	Diameter Φ77/Height 103.7mm
Weight	980g	980g
Sensing accuracy	1°~1.5°	1°~1.5°
Maximum deflection	XY direction 8°	XY direction 4°
Repeatability(400mm)	0.1~0.15mm	Within 0.15mm
Trigger force	About 60-70N in X/Y (400mm) direction	About 90-100N in X/Y (400mm) direction
IP protection level	IP21	IP21
Switching capacity	0.1A/250VAC	0.1A/250VAC
Ambient temperature	-10°C to +55°C	-10°C to +55°C
Relative humidity	70% at 20 °C during operation	70% at 20 °C during operation

ORDER GUIDE

Item	Order NO.	Product Description
ROBOT TORCH	TRM605WPP	Push-pull robot welding torch (Including synchronizer) Note: Some brands of welding machines can be directly connected without the use of synchroniser, please contact sales before ordering.

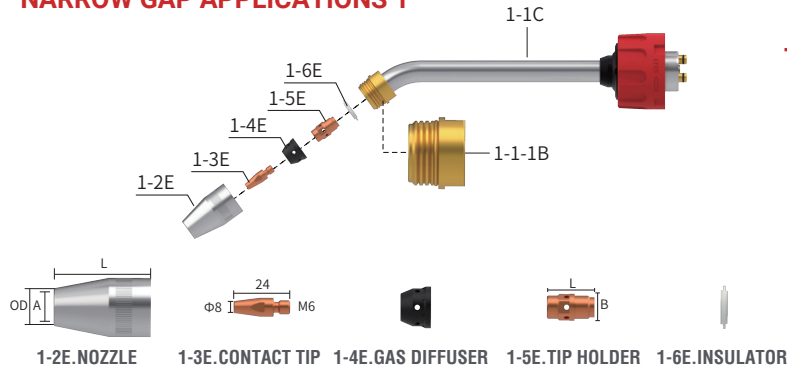
Suitable Industries:

- > Welding Aluminum for New Energy Vehicles
- > Thin Sheet Metal Welding

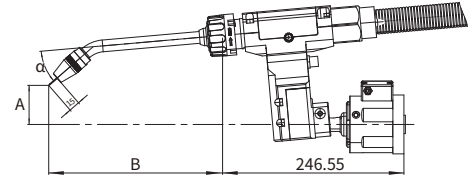
550A LIQUID COOLED ROBOT TORCH

NARROW GAP APPLICATIONS

NARROW GAP APPLICATIONS 1



TCP DATE



α	A(mm)	B(mm)	Angle	Neck Part No.
36°	53.11	236.11	36°	550WTE31-36
36°	47.75	297.48	36°	550WTE31-36L

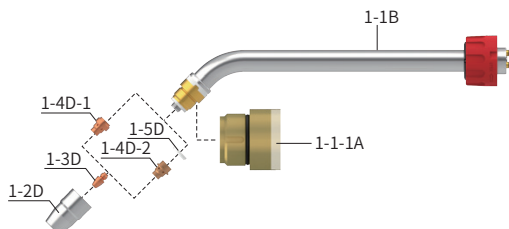
TORCH NECK ASSEMBLY

Item	Order NO.	Product Description
1-1C. GOOSE NECK	550WTE31-36	Goose neck (36°)
	550WTE31-36L	Goose neck (36°, extended 85mm)
1-1-1B. NOZZLE HOLDER	550WTE31-04-ZJ	With sealing ring

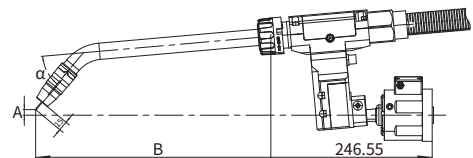
GOOSE NECK CONSUMABLES(M6)

Item	Order NO.	Product Description
1-2E. NOZZLE	TRM015-93-13C	Tip recess, L=41.3mm, A=Φ13mm, B=Φ25mm
	TRM035-31-08A	CuCrZr, Φ0.8mm wire (Aluminium)
1-3E. CONTACT TIP	TRM035-31-10A	CuCrZr, Φ1.0mm wire (Aluminium)
	TRM035-31-12A	CuCrZr, Φ1.2mm wire (Aluminium)
	TRM035-31-16A	CuCrZr, Φ1.6mm wire (Aluminium)
1-4E. GAS DIFFUSER	TRM028-04	BLACK
1-5E. TIP HOLDER	TRM048-01	M6, L=20mm, B=10×1.25
1-6E. INSULATOR	550WTE31-08	Insulator (White)

NARROW GAP APPLICATIONS 2



TCP DATE



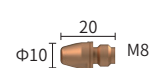
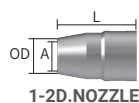
α	A(mm)	B(mm)	Angle	Neck Part No.
45°	8.55	361.27	45°	550WTE51-45L371H053

TORCH NECK ASSEMBLY

Item	Order NO.	Product Description
1-1B. GOOSE NECK	550WTE51-45L371H053	45°, special type, straight length 244mm, for narrow gaps
1-1-1A. NOZZLE HOLDER	550WTE51-03-ZJ	With sealing ring

GOOSE NECK CONSUMABLES

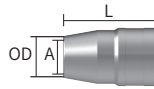
(M8 SHORT NOZZLE STANDARD CONFIGURATION)



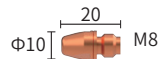
Item	Order NO.	Product Description
1-2D. NOZZLE	TRM015-72-16C	Tip flush; L=47mm, A=16mm
1-3D. CONTACT TIP	TRM035-62-10A	CuCrZr, Φ1.0 wire (Aluminium)
	TRM035-62-12A	CuCrZr, Φ1.2 wire (Aluminium)
1-4D-1. TIP HOLDER ASSEMBLY	TRM046-06	M8 L=18.5mm, B=M12X1

Push-Pull Welding Torch TRM605WPP

Rating 550A CO₂
500A mixed gases M21 (ISO 14175)
Duty cycle 100%



1-2D.NOZZLE



1-3D.CONTACT TIP



1-4D-2.TIP HOLDER ASSEMBLY



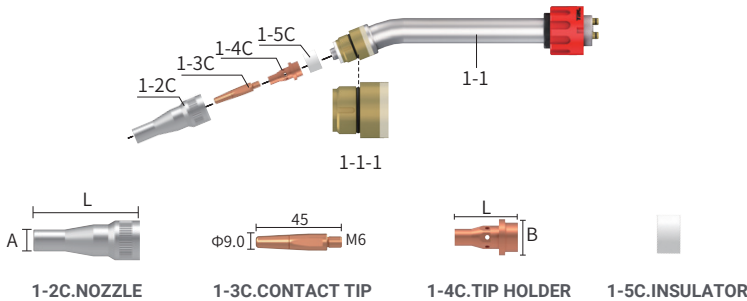
1-5D.INSULATOR

GOOSE NECK CONSUMABLES

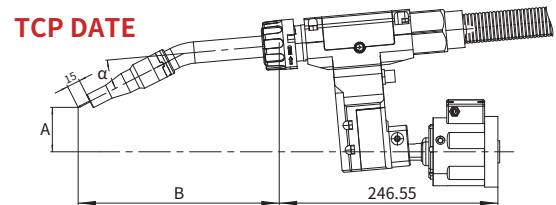
(M8 SHORT NOZZLE HEAVY LOAD CONFIGURATION)

Item	Order NO.	Product Description
1-2D. NOZZLE	TRM015-72-16C	Tip flush; L=47mm, A=16mm
1-3D. CONTACT TIP	TRM035-62-10A	CuCrZr, Φ1.0 wire (Aluminium)
	TRM035-62-12A	CuCrZr, Φ1.2 wire (Aluminium)
1-4D-2. TIP HOLDER ASSEMBLY	TRM046-06-HD	M8 L=18.5mm, B=M12X1
1-5D. INSULATOR	550WTE51-15	Insulator (White)

NARROW GAP APPLICATIONS 3



TCP DATE



α	A(mm)	B(mm)	Angle	Neck Part No.
22°	50.35	228.91	22°	550WTE51-22L240H023
22°	44.03	301.13	22°	550WTE51-22L341H023
36°	35.23	401.75	36°	550WTE51-36L245H044
45°	8.36	294.95	45°	550WTE51-45L234H073
45°	-26.99	273.4	45°	550WTE51-45L334H073
22°	-17.42	383.06	22°	550WTE51-22L167H023

TORCH NECK ASSEMBLY

Item	Order NO.	Product Description
1-1A. GOOSE NECK	550WTE51-22L240H023	22°, standard, straight length 150mm
	550WTE51-22L341H023	22°, extended mm, straight length 251mm
	550WTE51-36L245H044	36°, standard, straight length 145mm
	550WTE51-45L234H073	45°, standard, straight length 117mm
	550WTE51-45L334H073	45°, extended 100mm, straight length 217mm
	550WTE51-22L167H023	22°, short neck, straight length 78mm
1-1-1A. NOZZLE HOLDER	550WTE51-03-ZJ	With sealing ring

GOOSE NECK CONSUMABLES(JAPANESE STYLE)

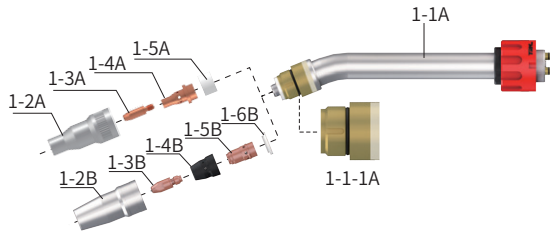
Item	Order NO.	Product Description
1-2C. NOZZLE	TRM015-82-13	Tip flush; L=80.9mm, A=Φ13mm, b=Φ30mm
1-3C. CONTACT TIP	TMP030-2-R08	CuCrZr, Φ0.8 wire (Steel)
	TMP030-2-R10	CuCrZr, Φ1.0 wire (Steel)
	TMP030-2-R12	CuCrZr, Φ1.2 wire (Steel)
	TMP030-2-R14	CuCrZr, Φ1.4 wire (Steel)
	TMP030-2-R16	CuCrZr, Φ1.6 wire (Steel)
1-4C. TIP HOLDER	TRM046-05	M6 L=27mm, B=M12X1
1-5C. INSULATOR	550WTE51-16	Insulator (White)

Suitable Industries:

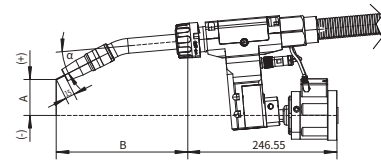
- > Welding Aluminum for New Energy Vehicles
- > Thin Sheet Metal Welding

550A LIQUID COOLED ROBOT TORCH

STANDARD CONFIGURATION



TCP DATE

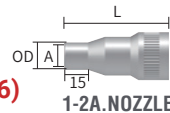


α	A(mm)	B(mm)	Angle	Neck Part No.
22°	51.65	278.52	22°	550WTE51-22L240H023
22°	42.85	379.34	22°	550WTE51-22L341H023
36°	19.49	274.72	36°	550WTE51-36L245H044
45°	-13.94	255.11	45°	550WTE51-45L234H073
45°	-22.65	254.73	45°	550WTE51-45L334H073
22°	57.96	206.3	22°	550WTE51-22L167H023

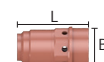
1. TORCH NECK ASSEMBLY

Item	Order NO.	Product Description
1-1A. GOOSE NECK	550WTE51-22L240H023	22°, standard, straight length 150mm
	550WTE51-22L341H023	22°, extended mm, straight length 251mm
	550WTE51-36L245H044	36°, standard, straight length 145mm
	550WTE51-45L234H073	45°, standard, straight length 117mm
	550WTE51-45L334H073	45°, extended 100mm, straight length 217mm
	550WTE51-22L167H023	22°, short neck, straight length 78mm
1-1-1A. NOZZLE HOLDER	550WTE51-03-ZJ	With sealing ring

GOOSE NECK CONSUMABLES(M6)



Item	Order NO.	Product Description
1-2A. NOZZLE	TRM015-62-14C	Tip flush (Nickel plating) ; L=63.5mm, A=14mm
	TRM015-61-13C	Tip recess (Nickel plating) ; L=65.5mm, A=13mm
1-3A. CONTACT TIP	TRM035-12-08A	CuCrZr, Φ0.8 wire (Aluminium)
	TRM035-12-10A	CuCrZr, Φ1.0 wire (Aluminium)
	TRM035-12-12A	CuCrZr, Φ1.2 wire (Aluminium)
	TRM035-12-14A	CuCrZr, Φ1.4 wire (Aluminium)
	TRM035-12-16A	CuCrZr, Φ1.6 wire (Aluminium)
	TRM035-11-08A	Copper, Φ0.8 wire (Aluminium)
	TRM035-11-10A	Copper, Φ1.0 wire (Aluminium)
	TRM035-11-12A	Copper, Φ1.2 wire (Aluminium)
	TRM035-11-14A	Copper, Φ1.4 wire (Aluminium)
	TRM035-11-16A	Copper, Φ1.6 wire (Aluminium)
1-4A. TIP HOLDER	TRM046-05	M6 L=27mm, B=M12X1
1-5A. INSULATOR	550WTE51-16	Insulator (White)



GOOSE NECK CONSUMABLES(M8)

Item	Order NO.	Product Description
1-2B. NOZZLE	TRM015-62-16C	Tip flush (Nickel plating) ; L=63.5mm, A=16mm
	TRM015-63-16C	Tip stick out (Nickel plating) ; L=60.5mm, A=16mm
	TRM015-62-14C	Tip flush (Nickel plating) ; L=63.5mm, A=14mm
	TRM015-61-17C	Tip recess (Nickel plating) ; L=65.5mm, A=17mm
1-3B. CONTACT TIP	TRM035-02-08A	CuCrZr, Φ0.8mm wire (Aluminium)
	TRM035-02-10A	CuCrZr, Φ1.0mm wire (Aluminium)
	TRM035-02-12A	CuCrZr, Φ1.2mm wire (Aluminium)
	TRM035-02-14A	CuCrZr, Φ1.4mm wire (Aluminium)
	TRM035-02-16A	CuCrZr, Φ1.6mm wire (Aluminium)
1-4B. GAS DIFFUSER	3.1.4.0845	Black
1-5B. TIP HOLDER	TRM046-04	M8 L=27mm, B=M12X1
1-6B. INSULATOR	550WTE51-15	Insulator (White)

Push-Pull Welding Torch TRM605WPP

Rating 550A CO₂
500A mixed gases M21 (ISO 14175)
Duty cycle 100%

2.ANTI-COLLISION UNIT

Item	Order NO.	Product Description
2-1. COLLISION SENSOR	TRM313-01-N10	Suitable for 22L167,22L240,22L341,36L245,36L333,45L234,45L334,180L243,180L344
	TRM313-01-N16	Suitable for 22L401,22L409,36L487,45L416,45L476
2-2. FLANGE	See P64-65 flange selection table	Including the installed screws.

3.CABLE ASSEMBLY

Item	Order NO.	Product Description
3. CABLE ASSEMBLY	TRM605WPP-CBSA	Water-cooled cable assembly, Euro connector(Including motor)
3-1. TORCH BODY	TM605WPP-TORCH BODY	
3-1-1. MAIN WIRE FEED ROLL	TRM605WPP-06-54	Wire feed rolls, Φ0.8-1.0 wire (Aluminium)
	TRM605WPP-06-55	Wire feed rolls, Φ1.0-1.2 wire (Aluminium)
	TRM605WPP-06-63	Wire feed rolls, Φ1.4-1.6 wire (Aluminium)
3-1-2. AUXILIARY WIRE FEED ROLL	TRM605WPP-06-13	Driven rolls
3-1-3. CONNECTING SEAT ASSEMBLY	TRM605WPP-06-65	Connecting seat assembly
3-2. CABLE ASSEMBLY	TRM605WPP-DL	Water-cooled cable assembly
3-3. SPRING LINE	KYF8K3WT-L5M.PB	M8 curved plug with wire 5meter shielded cable

4.LINER OPTIONAL COMBINATION

Item	Order NO.	Product Description
A. NECK LINER (suitable for Aluminium welding)	TRM154-08A-XX	(Aluminium) wire Φ0.8-1.0mm
	TRM154-12A-XX	(Aluminium) wire Φ1.0-1.2mm
	TRM154-16A-XX	(Aluminium) wire Φ1.4-1.6mm
C. WIRE GUIDE BUSHING	TRM605WPP-06-58	Wire guide bushing (Φ0.8mm-Φ1mm)
	TRM605WPP-06-53	Wire guide bushing (Φ1. 2mm)
	TRM605WPP-06-59	Wire guide bushing (Φ1.4mm-Φ1.6mm)
D. LINER(Euro connector)	TRM153B-08A-23	Overall length 1.8m, (Aluminium) wire0.8-1.0mm
	TRM153B-12A-23	Overall length 1.8m, (Aluminium) wire1.0-1.2mm
	TRM153B-16A-23	Overall length 1.8m, (Aluminium) wire1.4-1.6mm
D-1. LINER (Panasonic/Lincoln connector optional)	TRM150N-08A-23	(Aluminium) wire Φ0.8-1.0mm
	TRM150N-12A-23	(Aluminium) wire Φ1.0-1.2mm
	TRM150N-16A-23	(Aluminium) wire Φ1.4-1.6mm

* If the cable length exceeds 2 metres, please contact sales in advance when ordering the length of the wire feeder tube.

5.SPARE PARTS

Item	Order NO.	Product Description
5. SYNCHRONIZER(optional)	TRM605WPP-SYNC-01C	Synchronizer(Including power cable and signal line) Note: Some brands of welding machines can be directly connected without the use of synchroniser, please contact sales before ordering.

6.ACCESSORY BAG

Item	Order NO.	Product Description
6. ACCESSORY BAG	TRM-AP-WTPP	Including seal and grease on goose necks and connectors

Suitable Industries:

- > Welding Aluminum for New Energy Vehicles
- > Thin Sheet Metal Welding

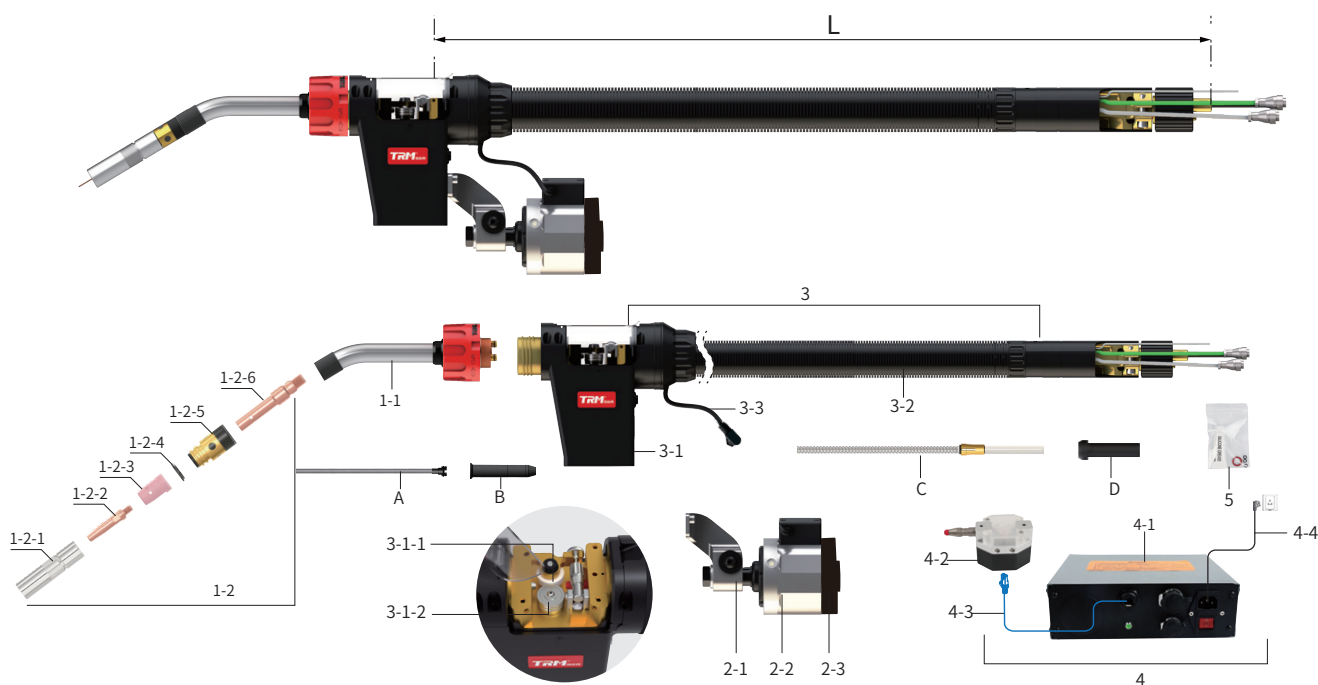
550A LIQUID COOLED ROBOT TORCH

CARBON STEEL CONFIGURATION

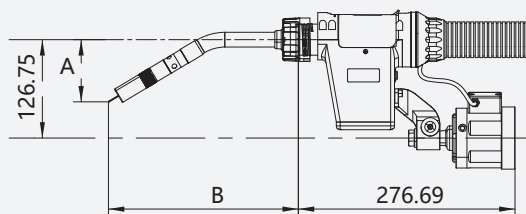
Item	Order NO.	Product Description
1-3A. CONTACT TIP(M6)	TRM035-12-08	CuCrZr Φ0.8mm wire(Steel)
	TRM035-12-10	CuCrZr Φ1.0mm wire(Steel)
	TRM035-12-12	CuCrZr Φ1.2mm wire(Steel)
	TRM035-12-14	CuCrZr Φ1.4mm wire(Steel)
	TRM035-12-16	CuCrZr Φ1.6mm wire(Steel)
1-3B. CONTACT TIP(M8)	TRM035-03-10	Φ1.0(Long life、steel)
	TRM035-03-12	Φ1.2(Long life、steel)
	TRM035-03-14	Φ1.4(Long life、steel)
	TRM035-03-16	Φ1.6(Long life、steel)
	TRM035-02-08	CuCrZr , Φ0.8mm wire(Steel)
	TRM035-02-10	CuCrZr , Φ1.0mm wire(Steel)
	TRM035-02-12	CuCrZr , Φ1.2mm wire(Steel)
	TRM035-02-14	CuCrZr , Φ1.4mm wire(Steel)
	TRM035-02-16	CuCrZr , Φ1.6mm wire(Steel)
1-3C. CONTACT TIP (Narrow gap applications 3)	TMP030-2-R08	CuCrZr , Φ0.8 wire (Steel)
	TMP030-2-R10	CuCrZr , Φ1.0 wire (Steel)
	TMP030-2-R12	CuCrZr , Φ1.2 wire (Steel)
	TMP030-2-R14	CuCrZr , Φ1.4 wire (Steel)
	TMP030-2-R16	CuCrZr , Φ1.6 wire (Steel)
1-3D. CONTACT TIP (Narrow gap applications 2)	TRM035-62-08	CuCrZr , Φ0.8mm wire(Steel)
	TRM035-62-10	CuCrZr , Φ1.0mm wire(Steel)
	TRM035-62-12	CuCrZr , Φ1.2mm wire(Steel)
	TRM035-62-14	CuCrZr , Φ1.4mm wire(Steel)
1-3E. CONTACT TIP (Narrow gap applications 1)	TRM035-31-08	CuCrZr , Φ0.8 wire (Steel)
	TRM035-31-10	CuCrZr , Φ1.0 wire (Steel)
	TRM035-31-12	CuCrZr , Φ1.2 wire (Steel)
	TRM035-31-14	CuCrZr , Φ1.4 wire (Steel)
	TRM035-31-16	CuCrZr , Φ1.6 wire (Steel)
B. NECK LINER	TRM154-08-60	0.8mm-0.9mm(Steel)
	TRM154-12-60	1.0mm-1.2mm(Steel)
	TRM154-16-60	1.4mm-1.6mm(Steel)
3-1-1. WIRE FEED ROLL	TRM605WPP-06-54	D0.8mm&D1.0mm(Aluminum silicon and carbon steel)
	TRM605WPP-06-60	D1.0mm&D1.2mm(Aluminum silicon and carbon steel)
	TRM605WPP-06-61	D1.2mm~D1.6mm(aluminum silicon and carbon steel)
E. LINER(Euro connector)	TRM152B-08-23	(Steel)0.8-0.9mm welding wire European connector
	TRM152B-12-23	(Steel)1.0-1.2mm welding wire European connector
	TRM152B-16-23	(Steel)1.4-1.6mm welding wire European connector
E-1. LINER (Panasonic/Lincoln connector optional)	TRM150-08-23	(Steel)0.8-0.9mm welding wire Panasonic or Lincoln connector
	TRM150-12-23-WP	(Steel)1.0-1.2mm welding wire Panasonic or Lincoln connector
	TRM150-16-23-WP	(Steel)1.4-1.6mm welding wire Panasonic or Lincoln connector

Servo Push-Pull Welding Torch TRM501PP

Rating 500A CO₂
350A mixed gases M21 (ISO 14175)
Duty cycle 100%



TCP DATA



α	A(mm)	B(mm)	Angle	Neck Part No.
31°	80.1	244.6	31°	500GT-P31L147
31°	80.1	344.6	31°	500GT-P31L247

COLLISION SENSOR DATA SHEET

ITEM	TRM313-01-N10	TRM313-01-N16
Size	Diameter $\Phi 77$ /Height 103.7mm	Diameter $\Phi 77$ /Height 103.7mm
Weight	980g	980g
Sensing accuracy	1°~1.5°	1°~1.5°
Maximum deflection	XY direction 8°	XY direction 4°
Repeatability(400mm)	0.1~0.15mm	Within 0.15mm
Trigger force	About 60-70N in X/Y (400mm) direction	About 90-100N in X/Y (400mm) direction
IP protection level	IP21	IP21
Switching capacity	0.1A/250VAC	0.1A/250VAC
Ambient temperature	-10°C to +55°C	-10°C to +55°C
Relative humidity	70% at 20 °C during operation	70% at 20 °C during operation

ORDER GUIDE

Item	Order NO.	Product Description
ROBOT TORCH	TRM501PP	Push-pull robot welding torch (Including synchronizer)

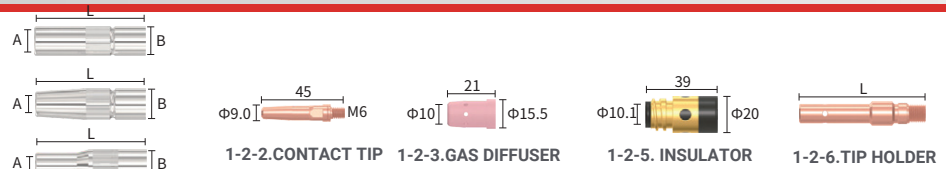
1.TORCH NECK ASSEMBLY

Item	Order NO.	Product Description
1-1.GOOSE NECK	500GT-P31L147	31°
	500GT-P31L247	31° extended 100mm

Suitable Industries:

- > Automotive Industry
- > Thin Sheet Metal Welding

500A AIR COOLED ROBOT TORCH



1-2. GOOSE NECK CONSUMABLES

Item	Order NO.	Product Description
1-2-1. NOZZLE	TMP012-3-16	L=73.0mm,A=Φ16mm,B=Φ20mm
	TMP012-3-13	L=73.0mm,A=Φ13mm,B=Φ20mm
	TMP012-3-12	L=73.0mm,A=Φ12mm,B=Φ20mm
	TMP012-3B-10	L=73.0mm,A=Φ10mm,B=Φ20mm
	TMP012-3B-12	L=73.0mm,A=Φ12mm,B=Φ20mm
1-2-2. CONTACT TIP	TMP030-2-R08	CuCrZr, Φ0.8 wire (Steel)
	TMP030-2-R10	CuCrZr, Φ1.0 wire (Steel)
	TMP030-2-R12	CuCrZr, Φ1.2 wire (Steel)
1-2-3.GAS DIFFUSER	TMP040-3	Pink
1-2-4.SPRING WASHER	TMP041-3-2	
1-2-5.INSULATOR	TMPTFZ35101-LX	
1-2-6. TIP HOLDER	TMP053-1C	L=68.5, contact tip recess 3.0mm
	TMP053-2C	L=75.0, contact tip stick out 3.5mm
	TMP053-3C	L=71.5, contact tip flush
A. NECK LINER (CARBON STEEL CONFIGURATION)	TRM154-08-42	(Steel) wireΦ0.8-0.9mm
	TRM154-12-42	(Steel) wireΦ1.0-1.2mm
	TRM154-16-42	(Steel) wireΦ1.4-1.6mm
B. WIRE GUIDE BUSHING	TRM605WPP-06-58	Wire guide bushing (Φ0.8mm-Φ1mm)
	TRM605WPP-06-53	Wire guide bushing (Φ1.2mm)
	TRM605WPP-06-59	Wire guide bushing (Φ1.4mm-Φ1.6mm)

2.ANTI-COLLISION UNIT

Item	Order NO.	Product Description
2-1. MOUNT ARM	TRM613WPP-06-01CM	Fixing bracket(Component)
2-2. COLLISION SENSOR	TRM313-01-N10	Suitable for 31°L147 standard goose neck
	TRM313-01-N16	Suitable for 31°L247 extended goose neck
2-4. FLANGE	See P64-65 flange selection table	Including the installed screws

3.CABLE ASSEMBLY

Item	Order NO.	Product Description
3. TORCH BODY ASSEMBLY	TRM501PP-CBSA	Cable assembly (Including torch body)
3-1. TORCH BODY	TM501PP-TORCH BODY	
3-1-1. MAIN WIRE FEED ROLL (CARBON STEEL CONFIGURATION)	TRM651WPP-06-29	Wire feed roll (0.8V-Type)
	TRM651WPP-06-28	Wire feed roll (1.0V-Type)
	TRM651WPP-06-27	Wire feed roll (1.2V-Type)
	TRM651WPP-06-30	Wire feed roll (1.4V-Type)
	TRM651WPP-06-31	Wire feed roll (1.6V-Type)
3-1-2. AUXILIARY WIRE FEED ROLL	699CE	Driven roll
3-2. CABLE	TRM501PP-DL	
3-3. SPRING LINE	KYF8K3WT-L5M.PB	M8 curved plug with wire 5meter shielded cable
D. LINER HOLDER	TRM651WPP-08-12	Φ0.8-1.6mm(Only for European connector)
C. LINER (CARBON STEEL CONFIGURATION)	TRM153B-08-23	(Steel)0.8-0.9mm welding wire European connector
	TRM153B-12-23	(Steel)1.0-1.2mm welding wire European connector
	TRM153B-16-23	(Steel)1.4-1.6mm welding wire European connector
	TRM150-08-23	(Steel)0.8-0.9mm welding wire Panasonic or Lincoln connector
	TRM150-12-23	(Steel)1.0-1.2mm welding wire Panasonic or Lincoln connector
	TRM150-16-23	(Steel)1.4-1.6mm welding wire Panasonic or Lincoln connector

* If the cable length exceeds 2 metres, please contact sales in advance when ordering the length of the wire feeder tube.

4.SPARE PARTS

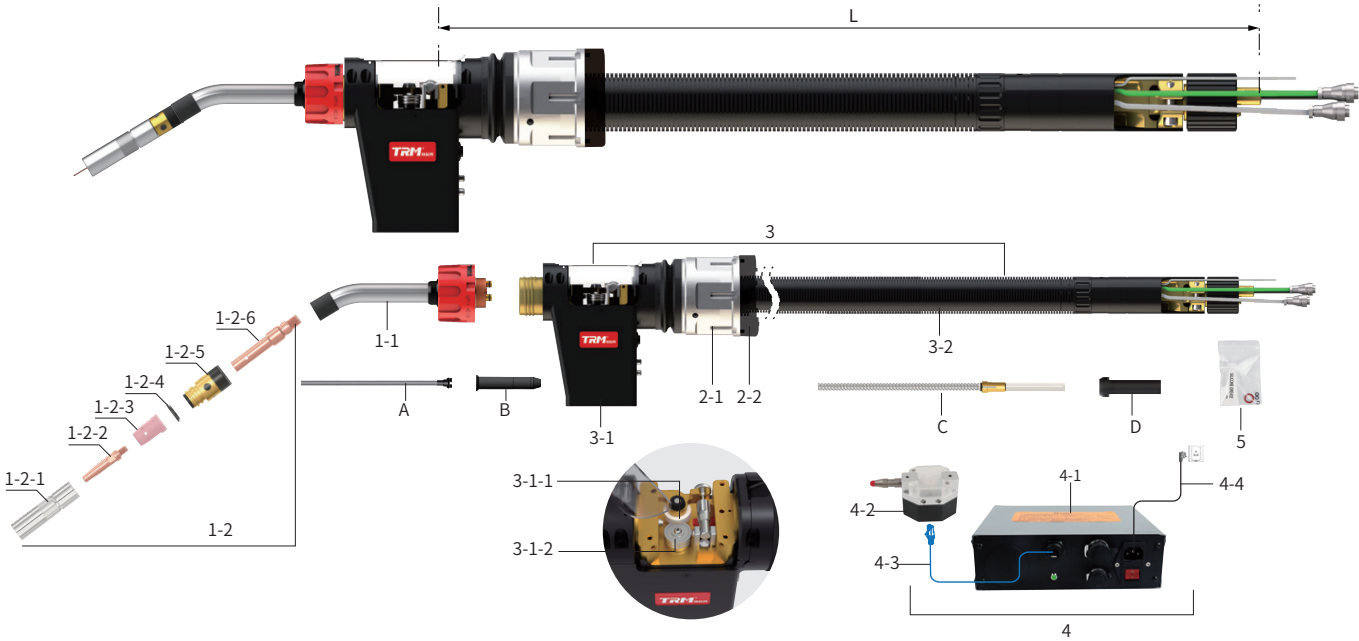
Item	Order NO.	Product Description
4. SYNCHRONIZER-POSITION RING ASSEMBLY	TRM607WPP-SYNC-01B	
4-1. SYNCHRONIZER	TRM607WPP-SYNC-01B-00	Position ring servo synchronizer assembly
4-2. SIGNAL COLLECTOR	TRM607WPP-WZH-00	Signal collector assembly
4-3. WIRED POWER PLUG	D09011000135	Pin 3-hole plug with wire
4-4. NETWORK CABLE	C02011900026	Super Category 6 Double Shielded Network Cable (5 meters)

5.ACCESSORY BAG

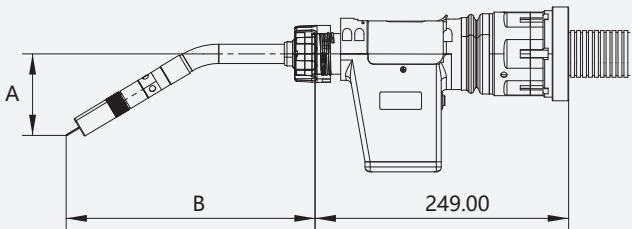
Item	Order NO.	Product Description
5. ACCESSORY BAG	TRM-AP-WT	Includes sealing rings and silicone grease on the bend and European joint, as well as the sealing components for the push-pull wire body.

Servo Push-Pull Welding Torch TRM508PP

Rating 500A CO₂
350A mixed gases M21 (ISO 14175)
Duty cycle 100%



TCP DATA



α	A(mm)	B(mm)	Angle	Neck Part No.
31°	80.1	244.6	31°	500GT-P31L147
31°	80.1	344.6	31°	500GT-P31L247

COLLISION SENSOR DATA SHEET

ITEM	TRM316-01-N10	TRM316-01-N16
Size	Diameter Φ 85/Height 89mm	Diameter Φ 85/Height 89mm
Weight	600g	600g
Sensing accuracy	Deflection in X/Y direction 0.9°~1.5°	Deflection in X/Y direction 0.9°~1.5°
Maximum deflection	X/Y deflection approx. 10°	X/Y deflection approx. 6°
Repeatability(400mm)	Within 0.15mm	Within 0.15mm
Trigger force	About 60-70N in X/Y (400mm) direction	About 90-100N in X/Y (400mm) direction
IP protection level	IP21	IP21
Switching capacity	10A/250VAC	10A/250VAC
Ambient temperature	-10°C to +55°C	-10°C to +55°C
Relative humidity	70% at 20 °C during operation	70% at 20 °C during operation

ORDER GUIDE

Item	Order NO.	Product Description
ROBOT TORCH	TRM508PP	Push-pull robot welding torch (Including synchronizer)

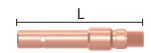
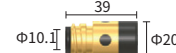
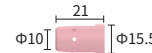
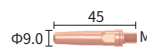
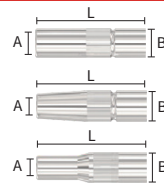
1.TORCH NECK ASSEMBLY

Item	Order NO.	Product Description
1-1.GOOSE NECK	500GT-P31L147	31°
	500GT-P31L247	31° extended 100mm

Suitable Industries:

- > Automotive Industry
- > Thin Sheet Metal Welding

500A AIR COOLED ROBOT TORCH



1-2-2.CONTACT TIP

1-2-3.GAS DIFFUSER

1-2-5. INSULATOR

1-2-6.TIP HOLDER

1-2.GOOSE NECK CONSUMABLES 1-2-1.NOZZLE

Item	Order NO.	Product Description
1-2-1. NOZZLE	TMP012-3-16	L=73.0mm,A=Φ16mm,B=Φ20mm
	TMP012-3-13	L=73.0mm,A=Φ13mm,B=Φ20mm
	TMP012-3-12	L=73.0mm,A=Φ12mm,B=Φ20mm
	TMP012-3B-10	L=73.0mm,A=Φ10mm,B=Φ20mm
	TMP012-3B-12	L=73.0mm,A=Φ12mm,B=Φ20mm
1-2-2. CONTACT TIP	TMP030-2-R08	CuCrZr, Φ0.8 wire (Steel)
	TMP030-2-R10	CuCrZr, Φ1.0 wire (Steel)
	TMP030-2-R12	CuCrZr, Φ1.2 wire (Steel)
1-2-3.GAS DIFFUSER	TMP040-3	Pink
1-2-4.SPRING WASHER	TMP041-3-2	
1-2-5.INSULATOR	TMPTFZ35101-LX	
1-2-6. TIP HOLDER	TMP053-1C	L=68.5, contact tip recess 3.0mm
	TMP053-2C	L=75.0, contact tip stick out 3.5mm
	TMP053-3C	L=71.5, contact tip flush
A.NECK LINER (CARBON STEEL CONFIGURATION)	TRM154-08-60	(Steel) wireΦ0.8-0.9mm
	TRM154-12-60	(Steel) wireΦ1.0-1.2mm
	TRM154-16-60	(Steel) wireΦ1.4-1.6mm
B. WIRE GUIDE BUSHING	TRM605WPP-06-58	Wire guide bushing (Φ0.8mm-Φ1mm)
	TRM605WPP-06-53	Wire guide bushing (Φ1.2mm)
	TRM605WPP-06-59	Wire guide bushing (Φ1.4mm-Φ1.6mm)

2.ANTI-COLLISION UNIT

Item	Order NO.	Product Description
2-1. COLLISION SENSOR	TRM316-01-N10	Suitable for 31°L147 standard goose neck
	TRM316-01-N16	Suitable for 31°L247 extended goose neck
2-2. FLANGE	See P64-65 flange selection table	Including the installed screws

3.CABLE ASSEMBLY

Item	Order NO.	Product Description
3. TORCH BODY ASSEMBLY	TRM501PP-CBSA	Cable assembly (Including torch body)
3-1. TORCH BODY	TM501PP-TORCH BODY	
3-1-1. MAIN WIRE FEED ROLL (CARBON STEEL CONFIGURATION)	TRM651WPP-06-29	Wire feed roll (0.8V-Type)
	TRM651WPP-06-28	Wire feed roll (1.0V-Type)
	TRM651WPP-06-27	Wire feed roll (1.2V-Type)
	TRM651WPP-06-30	Wire feed roll (1.4V-Type)
	TRM651WPP-06-31	Wire feed roll (1.6V-Type)
3-1-2. AUXILIARY WIRE FEED ROLL	699CE	Driven roll
3-2. CABLE	TRM501PP-DL	
D. LINER HOLDER	TRM651WPP-08-12	Φ0.8-1.6mm(Only for European connector)
C. LINER (CARBON STEEL CONFIGURATION)	TRM153B-08-23	(Steel)0.8-0.9mm welding wire European connector
	TRM153B-12-23	(Steel)1.0-1.2mm welding wire European connector
	TRM153B-16-23	(Steel)1.4-1.6mm welding wire European connector
	TRM150-08-23	(Steel)0.8-0.9mm welding wire Panasonic or Lincoln connector
	TRM150-12-23	(Steel)1.0-1.2mm welding wire Panasonic or Lincoln connector
	TRM150-16-23	(Steel)1.4-1.6mm welding wire Panasonic or Lincoln connector

* If the cable length exceeds 2 metres, please contact sales in advance when ordering the length of the wire feeder tube.

4.SPARE PARTS

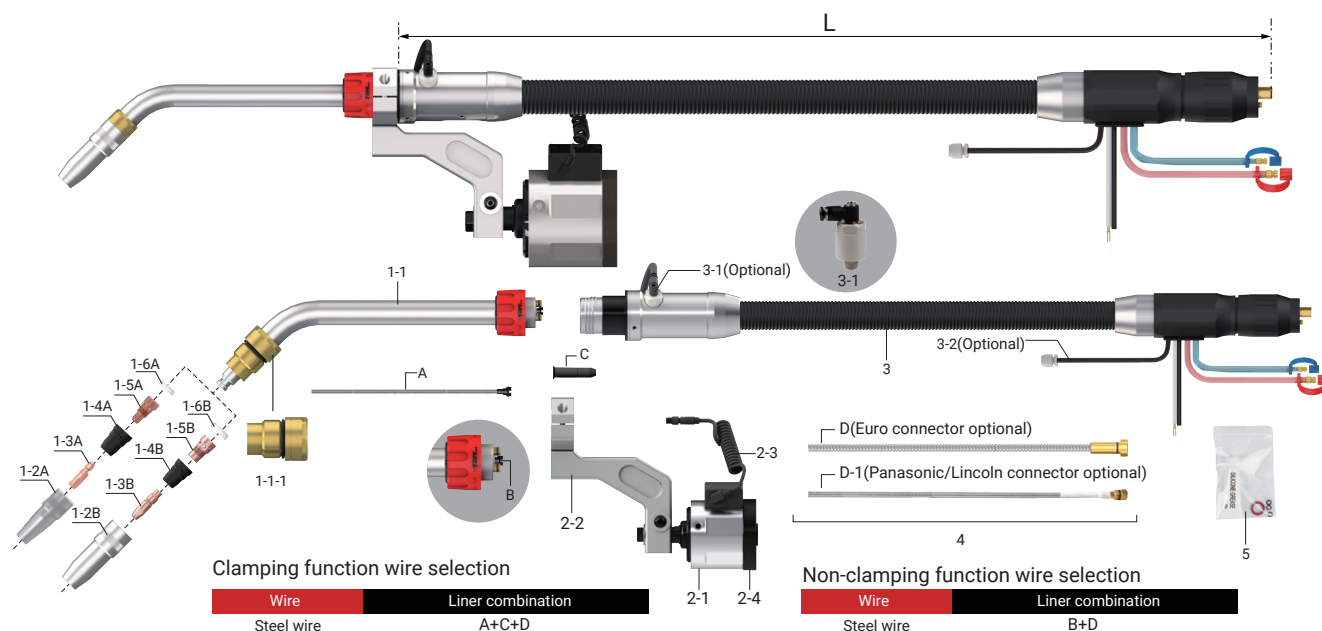
Item	Order NO.	Product Description
4. SYNCHRONIZER-POSITION RING ASSEMBLY	TRM607WPP-SYNC-01B	
4-1. SYNCHRONIZER	TRM607WPP-SYNC-01B-00	Position ring servo synchronizer assembly
4-2. SIGNAL COLLECTOR	TRM607WPP-WZH-00	Signal collector assembly
4-3. WIRED POWER PLUG	D09011000135	Pin 3-hole plug with wire
4-4. NETWORK CABLE	C02011900026	Super Category 6 Double Shielded Network Cable (5 meters)

5.ACCESSORY BAG

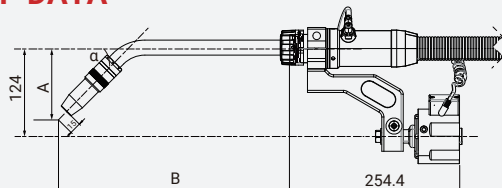
Item	Order NO.	Product Description
5. ACCESSORY BAG	TRM-AP-WT	Includes sealing rings and silicone grease on the bend and European joint, as well as the sealing components for the push-pull wire body.

700A Liquid-Cooled Welding Torch TRM805WHD

Rating 700A CO₂
600A mixed gases M21 (ISO 14175)
Duty cycle 100%



TCP DATA



α	A(mm)	B(mm)	Angle	Neck Part No.
22°	54.2	307.72	22°	700WT-22
22°	54.2	407.72	22°	700WT-22-U100
22°	54.2	527.72	22°	700WT-22-U220
45°	111.6	274.3	45°	700WT-45
45°	111.6	374.3	45°	700WT-45-U100
45°	111.63	494.32	45°	700WT-45-U220

COLLISION SENSOR DATA SHEET

ITEM	TRM313-01-N10	TRM313-01-N16
Size	Diameter Φ77/Height 103.7mm	Diameter Φ77/Height 103.7mm
Weight	980g	980g
Sensing accuracy	1°~1.5°	1°~1.5°
Maximum deflection	XY direction 8°	XY direction 4°
Repeatability(400mm)	0.1~0.15mm	Within 0.15mm
Trigger force	About 60-70N in X/Y (400mm) direction	About 90-100N in X/Y (400mm) direction
IP protection level	IP21	IP21
Switching capacity	0.1A/250VAC	0.1A/250VAC
Ambient temperature	-10°C to +55°C	-10°C to +55°C
Relative humidity	70% at 20 °C during operation	70% at 20 °C during operation

ORDER GUIDE

Item	Order NO.	Product Description
ROBOT TORCH	TRM805WHD	Over-arm liquid cooled robot welding torch
		*Over-arm liquid cooled robot welding torch with wire-clamping cylinder function(Optional)
		*Over-arm liquid cooled robot welding torch with blow cleaning function(Optional)

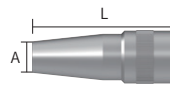
1.TORCH NECK ASSEMBLY

Item	Order NO.	Product Description
1-1. GOOSE NECK	700WT-22	22°, standard, straight length 141mm
	700WT-22-U100	22°, extended 100mm, straight length 241mm
	700WT-22-U220	22°, extended 220mm, straight length 361mm
	700WT-45	45°, standard, straight length 117mm
	700WT-45-U100	45°, extended 100mm, straight length 217mm
	700WT-45-U220	45°, extended 220mm, straight length 337mm
1-1-1. NOZZLE HOLDER	700WT-01-ZJ	With sealing ring
A. NECK LINER	TRM154-12-60	(Steel) wire Φ1.0-1.2mm
	TRM154-16-60	(Steel) wire Φ1.4-1.6mm
B. NECK LINER FITTING	TRM605W-22-22	
C. WIRE GUIDE BUSHING	TRM605W-061JS-19	Wire guide bushing(Φ0.8mm-Φ1.6mm)

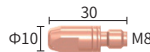
Suitable Industries:

- > Construction Machinery Industry
- > Steel Structure Industry

700A LIQUID COOLED ROBOT TORCH



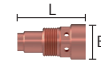
1-2A. NOZZLE



1-3A. CONTACT TIP



1-4A. GAS DIFFUSER



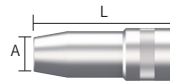
1-5A. TIP HOLDER



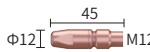
1-6A. INSULATOR

GOOSE NECK CONSUMABLES(M8)

Item	Order NO.	Product Description
1-2A. NOZZLE	TRM017-01-16	Tip flush L=92mm, A=Φ16mm
	TRM017-01-18	Tip flush L=92mm, A=Φ18mm
	TRM035-03-10	M8 Φ1.0mm (ultra long life)
1-3A. CONTACT TIP	TRM035-03-12	M8 Φ1.2mm (ultra long life)
	TRM035-03-14	M8 Φ1.4mm (ultra long life)
	TRM035-03-16	M8 Φ1.6mm (ultra long life)
	TRM035-02-10	M8 CuCrZr, Φ1.0mm wire
	TRM035-02-12	M8 CuCrZr, Φ1.2mm wire
	TRM035-02-14	M8 CuCrZr, Φ1.4mm wire
	TRM035-02-16	M8 CuCrZr, Φ1.6mm wire
1-4A. GAS DIFFUSER	TRM029-03	Black
1-5A. TIP HOLDER	TRM047-04	M8 L=38.5mm B=M16x1
1-6A. INSULATOR	TRM029-02	Insulator (White)



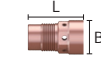
1-2B. NOZZLE



1-3B. CONTACT TIP



1-4B. GAS DIFFUSER



1-5B. TIP HOLDER



1-6B. INSULATOR

GOOSE NECK CONSUMABLES(M12)

Item	Order NO.	Product Description
1-2B. NOZZLE	TRM017-01-21.5	Tip flush (Nickel plating) ; L=92mm, A=21.5mm
	TRM017-02-21.5	Tip stick out+6 (Nickel plating) ; L=86mm, A=21.5mm
	TRM017-03-21.5	Tip recess-3 (Nickel plating) ; L=95mm, A=21.5mm
	TRM017-01-18	Tip flush (Nickel plating) ; L=92mm, A=18mm
1-3B. CONTACT TIP	TRM037-02-10	M12 CuCrZr, Φ1.0mm wire
	TRM037-02-12	M12 CuCrZr, Φ1.2mm wire
	TRM037-02-14	M12 CuCrZr, Φ1.4mm wire
	TRM037-02-16	M12 CuCrZr, Φ1.6mm wire
	TRM037-03-10	M12 Φ1.0mm (Ultra long life)
	TRM037-03-12	M12 Φ1.2mm (Ultra long life)
	TRM037-03-14	M12 Φ1.4mm (Ultra long life)
	TRM037-03-16	M12 Φ1.6mm (Ultra long life)
1-4B. GAS DIFFUSER	TRM029-03	Black
1-5B. TIP HOLDER	TRM047-03	M12 L=31.5mm B=M16x1
1-6B. INSULATOR	TRM029-02	Insulator (White)

2.ANTI-COLLISION UNIT

Item	Order NO.	Product Description
2-1. ANTI-COLLISION UNIT	TRM313-01-N10	Suitable for 22、22-U100、45、45-U100
	TRM313-01-N16	Suitable for 22-U220、45-U220
2-2. L TYPE MOUNT ARM	TRM215-045-105	Standard configuration; braking aperture 44mm
2-3. SPRING LINE	3.5.11.0012	To connect collision sensor and torch
2-4. FLANGE	See P64-65 flange selection table	Including installed screws

3.CABLE ASSEMBLY

Item	Order NO.	Product Description
3. CABLE ASSEMBLY	TRM805W-DL	Liquid cooled cable assembly
3-1. WIRE CLAMP CYLINDER(Optional)	TRM602W-061JS-QG	Wire brake cylinder (Component)
3-2. BLOW CLEANING FUNCTION(Optional)	Refer to 3-2 in the welding torch diagram	

4.LINER OPTIONAL COMBINATION

Item	Order NO.	Product Description
D. LINER (Euro connector optional)	TRM152B-12-23	(Steel) wire Φ1.0-1.2mm
	TRM152B-16-23	(Steel) wire Φ1.4-1.6mm
D-1. LINER (Panasonic/Lincoln connector optional)	TRM150-12-23-WP	(Steel) wire Φ1.0-1.2mm
	TRM150-16-23-WP	(Steel) wire Φ1.4-1.6mm

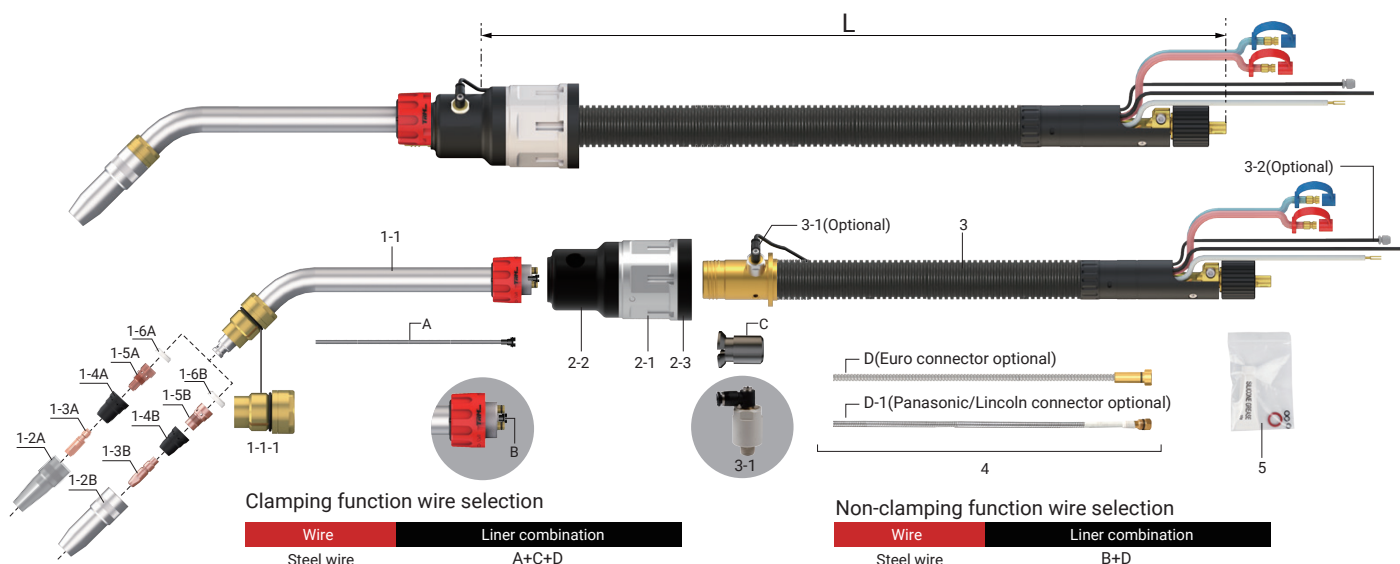
* If the cable length exceeds 2 metres, please contact sales in advance when ordering the length of the wire feeder tube.

5.ACCESSORY BAG

Item	Order NO.	Product Description
5. ACCESSORY BAG	TRM-AP-WT	Including seal and grease on goose necks and connectors

700A Liquid-Cooled Welding Torch TRM802WHD

Rating 700A CO₂
600A mixed gases M21 (ISO 14175)
Duty cycle 100%



ORDER GUIDE

Item	Order NO.	Product Description
ROBOT TORCH	TRM802WHD	Through-arm liquid cooled robot welding torch
		*Through-arm liquid cooled robot welding torch with wire-clamping cylinder function(Optional)
		*Through-arm liquid cooled robot welding torch with blow cleaning function(Optional)

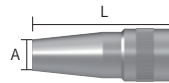
1.TORCH NECK ASSEMBLY

Item	Order NO.	Product Description
1-1. GOOSE NECK	700WT-22	22°, standard, straight length 141mm
	700WT-22-U100	22°, extended 100mm, straight length 241mm
	700WT-22-U220	22°, extended 220mm, straight length 361mm
	700WT-45	45°, standard, straight length 117mm
	700WT-45-U100	45°, extended 100mm, straight length 217mm
	700WT-45-U220	45°, extended 220mm, straight length 337mm
1-1-1. NOZZLE HOLDER	700WT-01-ZJ	With sealing ring
A. NECK LINER	TRM154-12-60	(Steel) wire Φ 1.0-1.2mm
	TRM154-16-60	(Steel) wire Φ 1.4-1.6mm
B. NECK LINER FITTING	TRM605W-22-22	
C. WIRE GUIDE BUSHING	TRM602W-061JS-11	Wire guide bushing(Φ 0.8mm- Φ 1.6mm)

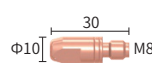
Suitable Industries:

- > Construction Machinery Industry
- > Steel Structure Industry

700A LIQUID COOLED ROBOT TORCH



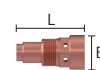
1-2A. NOZZLE



1-3A. CONTACT TIP



1-4A. GAS DIFFUSER



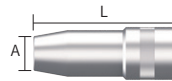
1-5A. TIP HOLDER



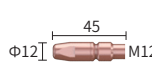
1-6A. INSULATOR

GOOSE NECK CONSUMABLES(M8)

Item	Order NO.	Product Description
1-2A. NOZZLE	TRM017-01-16	Tip flush L=92mm, A=Φ16mm
	TRM017-01-18	Tip flush L=92mm, A=Φ18mm
	TRM035-03-10	M8 Φ1.0mm (ultra long life)
1-3A. CONTACT TIP	TRM035-03-12	M8 Φ1.2mm (ultra long life)
	TRM035-03-14	M8 Φ1.4mm (ultra long life)
	TRM035-03-16	M8 Φ1.6mm (ultra long life)
	TRM035-02-10	M8 CuCrZr, Φ1.0mm wire
	TRM035-02-12	M8 CuCrZr, Φ1.2mm wire
	TRM035-02-14	M8 CuCrZr, Φ1.4mm wire
	TRM035-02-16	M8 CuCrZr, Φ1.6mm wire
1-4A. GAS DIFFUSER	TRM029-03	Black
1-5A. TIP HOLDER	TRM047-04	M8 L=38.5mm B=M16x1
1-6A. INSULATOR	TRM029-02	Insulator (White)



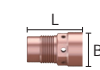
1-2B. NOZZLE



1-3B. CONTACT TIP



1-4B. GAS DIFFUSER



1-5B. TIP HOLDER



1-6B. INSULATOR

GOOSE NECK CONSUMABLES(M12)

Item	Order NO.	Product Description
1-2B. NOZZLE	TRM017-01-21.5	Tip flush (Nickel plating) ; L=92mm, A=21.5mm
	TRM017-02-21.5	Tip stick out+6 (Nickel plating) ; L=86mm, A=21.5mm
	TRM017-03-21.5	Tip recess-3 (Nickel plating) ; L=95mm, A=21.5mm
	TRM017-01-18	Tip flush (Nickel plating) ; L=92mm, A=18mm
1-3B. CONTACT TIP	TRM037-02-10	M12 CuCrZr, Φ1.0mm wire
	TRM037-02-12	M12 CuCrZr, Φ1.2mm wire
	TRM037-02-14	M12 CuCrZr, Φ1.4mm wire
	TRM037-02-16	M12 CuCrZr, Φ1.6mm wire
	TRM037-03-10	M12 Φ1.0mm (Ultra long life)
	TRM037-03-12	M12 Φ1.2mm (Ultra long life)
	TRM037-03-14	M12 Φ1.4mm (Ultra long life)
	TRM037-03-16	M12 Φ1.6mm (Ultra long life)
1-4B. GAS DIFFUSER	TRM029-03	Black
1-5B. TIP HOLDER	TRM047-03	M12 L=31.5mm B=M16x1
1-6B. INSULATOR	TRM029-02	Insulator (White)

2.ANTI-COLLISION UNIT

Item	Order NO.	Product Description
2-1.ANTI-COLLISION UNIT	TRM316-01-N10	Suitable for 22、22-U100、45、45-U100
	TRM316-01-N16	Suitable for 22-U220、45-U220
2-2. DUST COVER	TRM602W-061JS-15	Select when with wire brake function
	TRM602W-061JS-14	Select when without wire brake function
2-3. FLANGE	See P64-65 flange selection table	Including installed screws

3.CABLE ASSEMBLY

Item	Order NO.	Product Description
3. CABLE ASSEMBLY	TRM802W-DL	Liquid cooled cable assembly
3-1. WIRE CLAMP CYLINDER(Optional)	TRM602W-061JS-QG	Wire brake cylinder (Component)
3-2. BLOW CLEANING FUNCTION(Optional)	Refer to 3-2 in the welding torch diagram	

4.LINER OPTIONAL COMBINATION

Item	Order NO.	Product Description
D. LINER (Euro connector optional)	TRM152B-12-23	(Steel) wire Φ1.0-1.2mm
	TRM152B-16-23	(Steel) wire Φ1.4-1.6mm
D-1. LINER (Panasonic/Lincoln connector optional)	TRM150-12-23-WP	(steel) wire Φ1.0-1.2mm
	TRM150-16-23-WP	(steel) wire Φ1.4-1.6mm

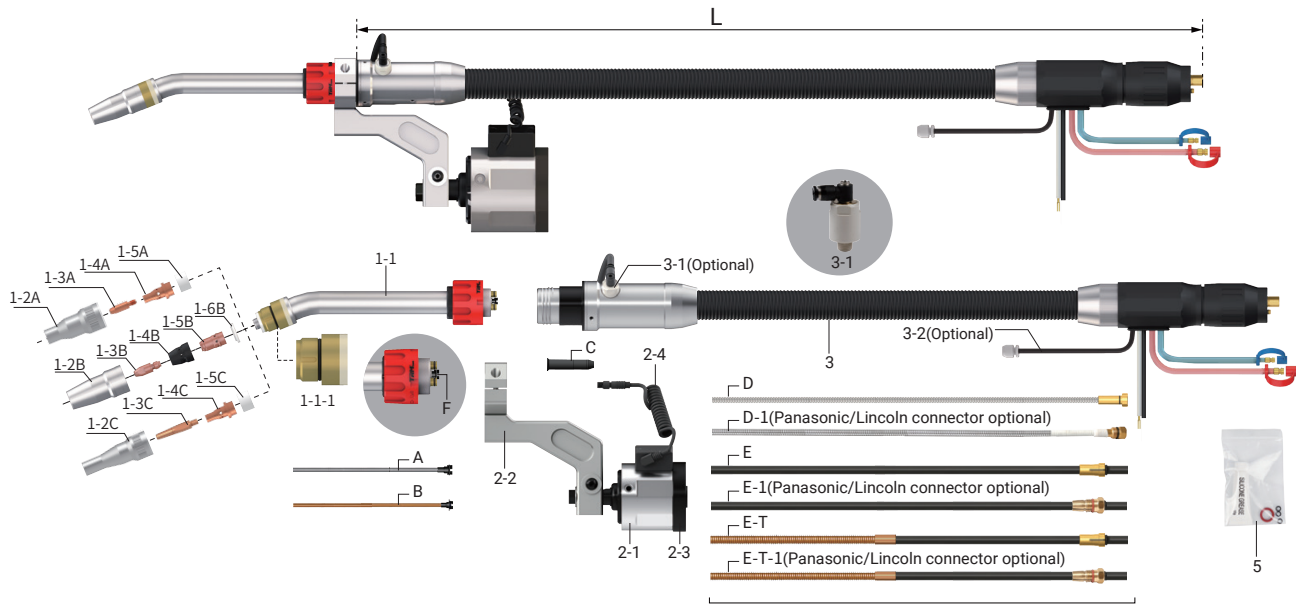
* If the cable length exceeds 2 metres, please contact sales in advance when ordering the length of the wire feeder tube.

5.ACCESSORY BAG

Item	Order NO.	Product Description
5. ACCESSORY BAG	TRM-AP-WT	Including seal and grease on goose necks and connectors

550A Liquid-Cooled Welding Torch TRM605WHD

Rating 550A CO₂
500A mixed gases M21 (ISO 14175)
Duty cycle 100%



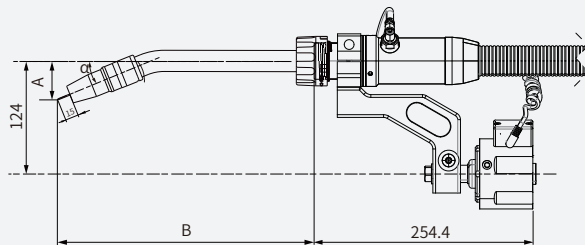
Clamping function wire selection

Wire	Liner combination
Steel wire	A+C+D
Aluminium wire	B+C+E

Non-clamping function wire selection

Wire	Liner combination
Steel wire	F+D
Aluminium wire	F+(E-T)

TCP DATA



α	A(mm)	B(mm)	Angle	Neck Part No.
22°	44.3	291.6	22°	550WTE51-22L240H023
22°	44.3	392.6	22°	550WTE51-22L341H023
22°	44.3	452.6	22°	550WTE51-22L401H023
22°	44.3	549.99	22°	550WTE51-22L499H023
36°	76.6	289.57	36°	550WTE51-36L245H044
36°	76.6	377.25	36°	550WTE51-36L333H044
36°	76.6	531.47	36°	550WTE51-36L487H044
45°	111.27	272.96	45°	550WTE51-45L234H073
45°	111.27	372.96	45°	550WTE51-45L334H073
45°	92.2	381.4	45°	550WTE51-45L371H053
45°	111.27	454.56	45°	550WTE51-45L416H073
45°	111.27	514.6	45°	550WTE51-45L476H073
45°	92.2	522.9	45°	550WTE51-45L512H053
180°	0	298.45	180°	550WTE51-180L243H0
180°	0	399.45	180°	550WTE51-180L344H0
22°	44.3	218.06	22°	550WTE51-22L167H023

COLLISION SENSOR DATA SHEET

ITEM	TRM313-01-N10	TRM313-01-N16
Size	Diameter Φ77/Height 103.7mm	Diameter Φ77/Height 103.7mm
Weight	980g	980g
Sensing accuracy	1°~1.5°	1°~1.5°
Maximum deflection	XY direction 8°	XY direction 4°
Repeatability(400mm)	0.1~0.15mm	Within 0.15mm
Trigger force	About 60-70N in X/Y (400mm) direction	About 90-100N in X/Y (400mm) direction
IP protection level	IP21	IP21
Switching capacity	0.1A/250VAC	0.1A/250VAC
Ambient temperature	-10°C to +55°C	-10°C to +55°C
Relative humidity	70% at 20 °C during operation	70% at 20 °C during operation

Suitable Industries:

- > Construction Machinery Industry
- > Steel Structure Industry

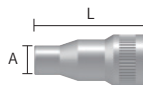
550A LIQUID COOLED ROBOT TORCH

ORDER GUIDE

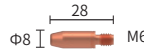
Item	Order NO.	Product Description
ROBOT TORCH	TRM605WHD	Over-arm liquid cooled robot welding torch
		*Over-arm liquid cooled robot welding torch with wire-clamping cylinder function(Optional)
		*Over-arm liquid cooled robot welding torch with blow cleaning function(Optional)

1. TORCH NECK ASSEMBLY

Item	Order NO.	Product Description
1-1. GOOSE NECK	550WTE51-22L240H023	22°, standard, straight length 150mm
	550WTE51-22L341H023	22°, extended 101mm, straight length 251mm
	550WTE51-22L401H023	22°, extended 161mm, straight length 311mm
	550WTE51-22L499H023	22°, extended 259mm, straight length 409mm
	550WTE51-36L245H044	36°, standard, straight length 145mm
	550WTE51-36L333H044	36°, extended 88mm, straight length 233mm
	550WTE51-36L487H044	36°, extended 242mm, straight length 387mm
	550WTE51-45L234H073	45°, standard, straight length 117mm
	550WTE51-45L334H073	45°, extended 100mm, straight length 217mm
	550WTE51-45L371H053	45°, special type, straight length 244mm
	550WTE51-45L416H073	45°, extended 182mm, straight length 299mm
	550WTE51-45L476H073	45°, extended 242mm, straight length 359mm
	550WTE51-45L512H053	45°, special type, straight length 386mm
	550WTE51-180L243H0	Straight neck, total length 272mm
	550WTE51-180L344H0	Straight neck, total length 373mm
	550WTE51-22L167H023	22°, short neck, straight length 78mm
1-1-1. NOZZLE HOLDER	550WTE51-03-ZJ	With sealing ring
A. NECK LINER	TRM154-08-60	(Steel) wire $\Phi 0.8-0.9\text{mm}$
	TRM154-12-60	(Steel) wire $\Phi 1.0-1.2\text{mm}$
	TRM154-16-60	(Steel) wire $\Phi 1.4-1.6\text{mm}$
C. WIRE GUIDE BUSHING	TRM605W-061JS-19	Wire guide bushing($\Phi 0.8\text{mm}-\Phi 1.6\text{mm}$)
F. NECK LINER FITTING	TRM605W-22-22	



1-2A.NOZZLE



1-3A.CONTACT TIP



1-4A.TIP HOLDER



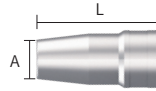
1-5A.INSULATOR

GOOSE NECK CONSUMABLES(M6)

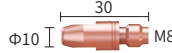
Item	Order NO.	Product Description
1-2A. NOZZLE	TRM015-62-14C	Tip flush(Nickel plating); L=63.5mm, A=14mm
	TRM015-61-13C	Tip recess(Nickel plating); L=65.5mm, A=13mm
1-3A. CONTACT TIP	TRM035-12-08	CuCrZr, $\Phi 0.8$ wire (Steel)
	TRM035-12-10	CuCrZr, $\Phi 1.0$ wire (Steel)
	TRM035-12-12	CuCrZr, $\Phi 1.2$ wire (Steel)
	TRM035-12-14	CuCrZr, $\Phi 1.4$ wire (Steel)
	TRM035-12-16	CuCrZr, $\Phi 1.6$ wire (Steel)
	TRM035-12-16	CuCrZr, $\Phi 1.6$ wire (Steel)
1-4A. TIP HOLDER	TRM046-05	M6 L=27mm, B=M12X1
1-5A. INSULATOR	550WTE51-16	Insulator (White)

550A Liquid-Cooled Welding Torch TRM605WHD

Rating 550A CO₂
500A mixed gases M21 (ISO 14175)
Duty cycle 100%



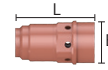
1-2B. NOZZLE



1-3B. CONTACT TIP



1-4B. GAS DIFFUSER



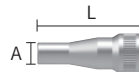
1-5B. TIP HOLDER



1-6B. INSULATOR

GOOSE NECK CONSUMABLES(M8)

Item	Order NO.	Product Description
1-2B. NOZZLE	TRM015-62-16C	Tip flush(Nickel plating); L=63.5mm, A=16mm
	TRM015-63-16C	Tip stick out(Nickel plating); L=60.5mm, A=16mm
	TRM015-62-14C	Tip flush(Nickel plating); L=63.5mm, A=14mm
	TRM015-61-17C	Tip recess(Nickel plating); L=65.5mm, A=17mm
1-3B. CONTACT TIP	TRM035-03-10	Φ1.0(Ultra long life)(Steel)
	TRM035-03-12	Φ1.2(Ultra long life)(Steel)
	TRM035-03-14	Φ1.4(Ultra long life)(Steel)
	TRM035-03-16	Φ1.6(Ultra long life)(Steel)
	TRM035-02-08	CuCrZr, Φ0.8 wire (Steel)
	TRM035-02-10	CuCrZr, Φ1.0 wire (Steel)
	TRM035-02-12	CuCrZr, Φ1.2 wire (Steel)
	TRM035-02-14	CuCrZr, Φ1.4 wire (Steel)
	TRM035-02-16	CuCrZr, Φ1.6 wire (Steel)
1-4B. GAS DIFFUSER	3.1.4.0845	Black
1-5B. TIP HOLDER	TRM046-04	M8 L=27mm, B=M12X1
1-6B. INSULATOR	550WTE51-15	Insulator (White)



1-2C. NOZZLE



1-3C. CONTACT TIP



1-4C. TIP HOLDER



1-5C. INSULATOR

GOOSE NECK CONSUMABLES(JAPANESE STYLE)

Item	Order NO.	Product Description
1-2C. NOZZLE	TRM015-82-13	Tip flush; L=80.9mm, A=Φ13mm, b=Φ30mm
1-3C. CONTACT TIP	TMP030-2-R08	CuCrZr, Φ0.8 wire (Steel)
	TMP030-2-R10	CuCrZr, Φ1.0 wire (Steel)
	TMP030-2-R12	CuCrZr, Φ1.2 wire (Steel)
	TMP030-2-R14	CuCrZr, Φ1.4 wire (Steel)
	TMP030-2-R16	CuCrZr, Φ1.6 wire (Steel)
1-4C. TIP HOLDER	TRM046-05	M6 L=27mm, B=M12X1
1-5C. INSULATOR	550WTE51-16	Insulator (White)

2.ANTI-COLLISION UNIT

Item	Order NO.	Product Description
2-1. COLLISION SENSOR	TRM313-01-N10	Suitable for 22L167,22L240,22L341,36L245,36L333,45L234,45L334,180L243,180L344
	TRM313-01-N16	Suitable for 22L401,22L409,36L487,45L416,45L476
2-2. L TYPE MOUNT ARM	TRM215-045-105	Standard configuration; braking aperture 44mm
2-3. FLANGE	See P64-65 flange selection table	Including installed screws
2-4. SPRING LINE	3.5.11.0012	To connect collision sensor and torch

3.CABLE ASSEMBLY

Item	Order NO.	Product Description
3. CABLE ASSEMBLY	TRM605W-DL	Liquid cooled cable assembly(Optional wire brake function)
3-1. WIRE CLAMP CYLINDER(Optional)	TRM602W-061JS-QG	Wire brake cylinder (Component)
3-2. BLOW CLEANING FUNCTION(Optional)	Refer to 3-2 in the welding torch diagram	

Suitable Industries:

- > Construction Machinery Industry
- > Steel Structure Industry

550A LIQUID COOLED ROBOT TORCH

4.LINER OPTIONAL COMBINATION

Item	Order NO.	Product Description
D. LINER(Euro type)	TRM152B-08-23	(Steel) wire $\Phi 0.8-0.9\text{mm}$
	TRM152B-12-23	(Steel) wire $\Phi 1.0-1.2\text{mm}$
	TRM152B-16-23	(Steel) wire $\Phi 1.4-1.6\text{mm}$
D-1. LINER (Panasonic/Lincoln connector optional)	TRM150-08-23	(steel) wire $\Phi 0.8-0.9\text{mm}$
	TRM150-12-23-WP	(steel) wire $\Phi 1.0-1.2\text{mm}$
	TRM150-16-23-WP	(steel) wire $\Phi 1.4-1.6\text{mm}$

* If the cable length exceeds 2 metres, please contact sales in advance when ordering the length of the wire feeder tube.

5.ACCESSORY BAG

Item	Order NO.	Product Description
5. ACCESSORY BAG	TRM-AP-WT	Including seal and grease on goose necks and connectors

ALUMINUM LINER CONFIGURATION

Item	Order NO.	Product Description
1-3A. CONTACT TIP(M6)	TRM035-12-08A	CuCrZr, $\Phi 0.8$ wire (Aluminium)
	TRM035-12-10A	CuCrZr, $\Phi 1.0$ wire (Aluminium)
	TRM035-12-12A	CuCrZr, $\Phi 1.2$ wire (Aluminium)
	TRM035-12-14A	CuCrZr, $\Phi 1.4$ wire (Aluminium)
	TRM035-12-16A	CuCrZr, $\Phi 1.6$ wire (Aluminium)
	TRM035-11-08A	Copper, $\Phi 0.8$ wire (Aluminium)
	TRM035-11-10A	Copper, $\Phi 1.0$ wire (Aluminium)
	TRM035-11-12A	Copper, $\Phi 1.2$ wire (Aluminium)
	TRM035-11-14A	Copper, $\Phi 1.4$ wire (Aluminium)
	TRM035-11-16A	Copper, $\Phi 1.6$ wire (Aluminium)
1-3B. CONTACT TIP(M8)	TRM035-02-08A	CuCrZr, $\Phi 0.8\text{mm}$ wire (Aluminium)
	TRM035-02-10A	CuCrZr, $\Phi 1.0\text{mm}$ wire (Aluminium)
	TRM035-02-12A	CuCrZr, $\Phi 1.2\text{mm}$ wire (Aluminium)
	TRM035-02-14A	CuCrZr, $\Phi 1.4\text{mm}$ wire (Aluminium)
	TRM035-02-16A	CuCrZr, $\Phi 1.6\text{mm}$ wire (Aluminium)
1-3C. CONTACT TIP(Japanese style)	TMP030-2-R10	CuCrZr, $\Phi 0.8$ wire (Aluminium)
	TMP030-2-R12	CuCrZr, $\Phi 1.0$ wire (Aluminium)
	TMP030-2-R14	CuCrZr, $\Phi 1.2\text{wire}$ (Aluminium)
B. NECK LINER	TRM154-08A-XX	(Aluminium) wire $\Phi 0.8-0.9\text{mm}$
	TRM154-12A-XX	(Aluminium) wire $\Phi 1.0-1.2\text{mm}$
	TRM154-16A-XX	(Aluminium) wire $\Phi 1.4-1.6\text{mm}$
C. WIRE GUIDE BUSHING	TRM605W-061JS-19	Wire guide bushing($\Phi 0.8\text{mm}-\Phi 1.6\text{mm}$)
F. NECK LINER FITTING	TRM605W-22-22	
E. LINER(Euro type)	TRM153B-08A-23	(Aluminium) wire $\Phi 0.8-0.9\text{mm}$
	TRM153B-12A-23	(Aluminium) wire $\Phi 1.0-1.2\text{mm}$
	TRM153B-16A-23	(Aluminium) wire $\Phi 1.4-1.6\text{mm}$
E-1. LINER (Panasonic/Lincoln connector optional)	TRM150N-08A-23	(Aluminium) wire $\Phi 0.8-0.9\text{mm}$
	TRM150N-12A-23	(Aluminium) wire $\Phi 1.0-1.2\text{mm}$
	TRM150N-16A-23	(Aluminium) wire $\Phi 1.4-1.6\text{mm}$
E-T. LINER(Euro type)	TRM152B-10A-18	(Aluminium) wire $\Phi 0.8-0.9\text{mm}$
	TRM152B-12A-18	(Aluminium) wire $\Phi 1.0-1.2\text{mm}$
	TRM152B-16A-18	(Aluminium) wire $\Phi 1.4-1.6\text{mm}$
E-T-1. LINER (Panasonic/Lincoln connector optional)	TRM150P-08A-23	(Aluminium) wire $\Phi 0.8-0.9\text{mm}$
	TRM150P-12A-23	(Aluminium) wire $\Phi 1.0-1.2\text{mm}$
	TRM150P-16A-23	(Aluminium) wire $\Phi 1.4-1.6\text{mm}$

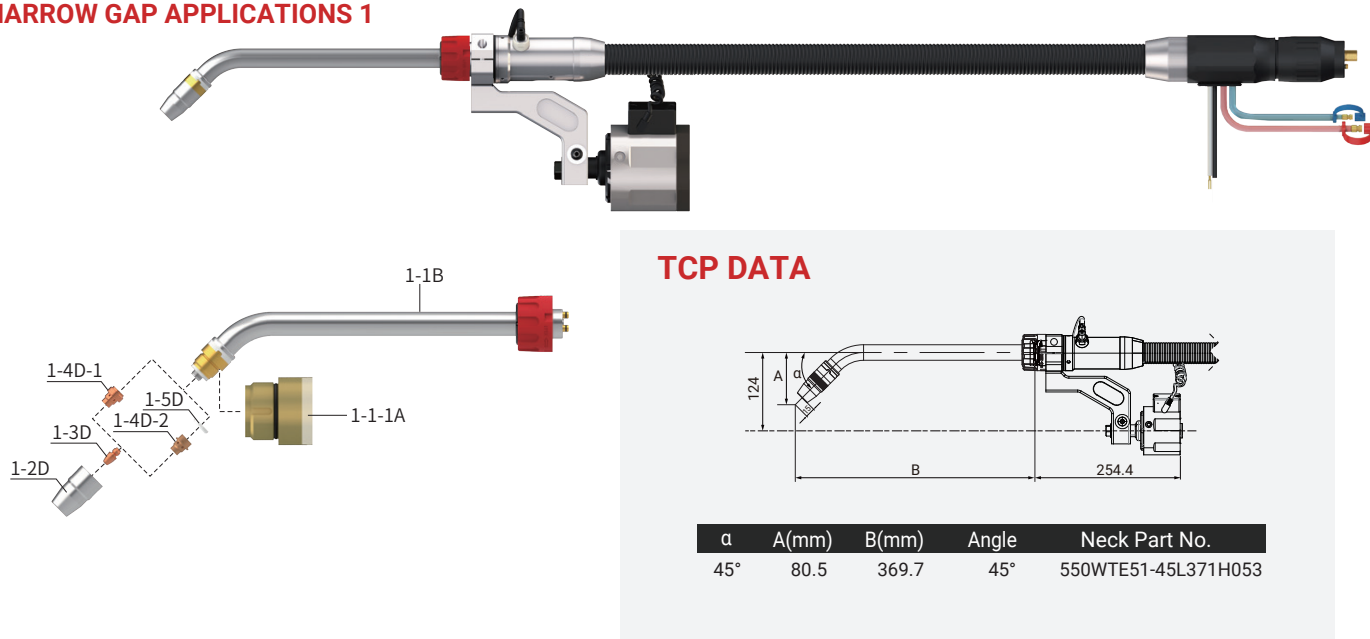
* If the cable length exceeds 2 metres, please contact sales in advance when ordering the length of the wire feeder tube.

550A Liquid-Cooled Welding Torch TRM605WHD

Rating 550A CO₂
500A mixed gases M21 (ISO 14175)
Duty cycle 100%

NARROW GAP APPLICATIONS

NARROW GAP APPLICATIONS 1

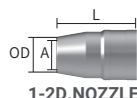


TORCH NECK ASSEMBLY

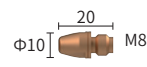
Item	Order NO.	Product Description
1-1B. GOOSE NECK	550WTE51-45L371H053	45°, special type, straight length 244mm, for narrow gaps
1-1-1A. NOZZLE HOLDER	550WTE51-03-ZJ	With sealing ring

GOOSE NECK CONSUMABLES

(M8 SHORT NOZZLE STANDARD CONFIGURATION)



1-2D.NOZZLE



1-3D.CONTACT TIP

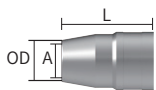


1-4D-1.TIP HOLDER ASSEMBLY

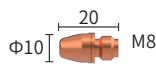
Item	Order NO.	Product Description
1-2D. NOZZLE	TRM015-72-16C	Tip flush; L=47mm, A=16mm
1-3D. CONTACT TIP	TRM035-62-08	CuCrZr, Φ0.8 wire (Steel)
	TRM035-62-10	CuCrZr, Φ1.0 wire (Steel)
	TRM035-62-12	CuCrZr, Φ1.2 wire (Steel)
	TRM035-62-14	CuCrZr, Φ1.4 wire (Steel)
	TRM035-62-10A	CuCrZr, Φ1.0 wire (Aluminium)
	TRM035-62-12A	CuCrZr, Φ1.2 wire (Aluminium)
1-4D-1. TIP HOLDER ASSEMBLY	TRM046-06	M8 L=18.5mm, B=M12X1

GOOSE NECK CONSUMABLES

(M8 SHORT NOZZLE HEAVY LOAD CONFIGURATION)



1-2D.NOZZLE



1-3D.CONTACT TIP



1-4D-2.TIP HOLDER ASSEMBLY



1-5D.INSULATOR

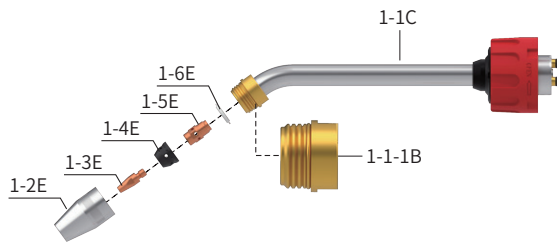
Item	Order NO.	Product Description
1-2D. NOZZLE	TRM015-72-16C	Tip flush; L=47mm, A=16mm
1-3D. CONTACT TIP	TRM035-62-08	CuCrZr, Φ0.8 wire (Steel)
	TRM035-62-10	CuCrZr, Φ1.0 wire (Steel)
	TRM035-62-12	CuCrZr, Φ1.2 wire (Steel)
	TRM035-62-14	CuCrZr, Φ1.4 wire (Steel)
	TRM035-62-10A	CuCrZr, Φ1.0 wire (Aluminium)
	TRM035-62-12A	CuCrZr, Φ1.2 wire (Aluminium)
1-4D-2. TIP HOLDER ASSEMBLY	TRM046-06-HD	M8 L=18.5mm, B=M12X1
1-5D. INSULATOR	550WTE51-15	Insulator (White)

Suitable Industries:

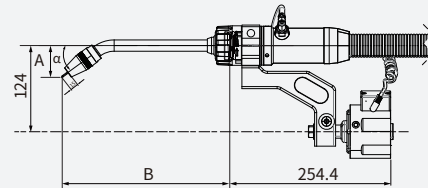
- > Construction Machinery Industry
- > Steel Structure Industry

550A LIQUID COOLED ROBOT TORCH

NARROW GAP APPLICATIONS 2



TCP DATA



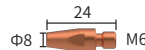
α	A(mm)	B(mm)	Angle	Neck Part No.
36°	46	239.7	36°	550WTE31-36
36°	46	324.7	36°	550WTE31-36L

TORCH NECK ASSEMBLY

Item	Order NO.	Product Description
1-1C. GOOSE NECK	550WTE31-36	Goose neck (36°)
	550WTE31-36L	Goose neck (36°, extended 85mm)
1-1-1B. NOZZLE HOLDER	550WTE31-04-ZJ	With sealing ring



1-2E.NOZZLE



1-3E.CONTACT TIP



1-4E.GAS DIFFUSER



1-5E.TIP HOLDER



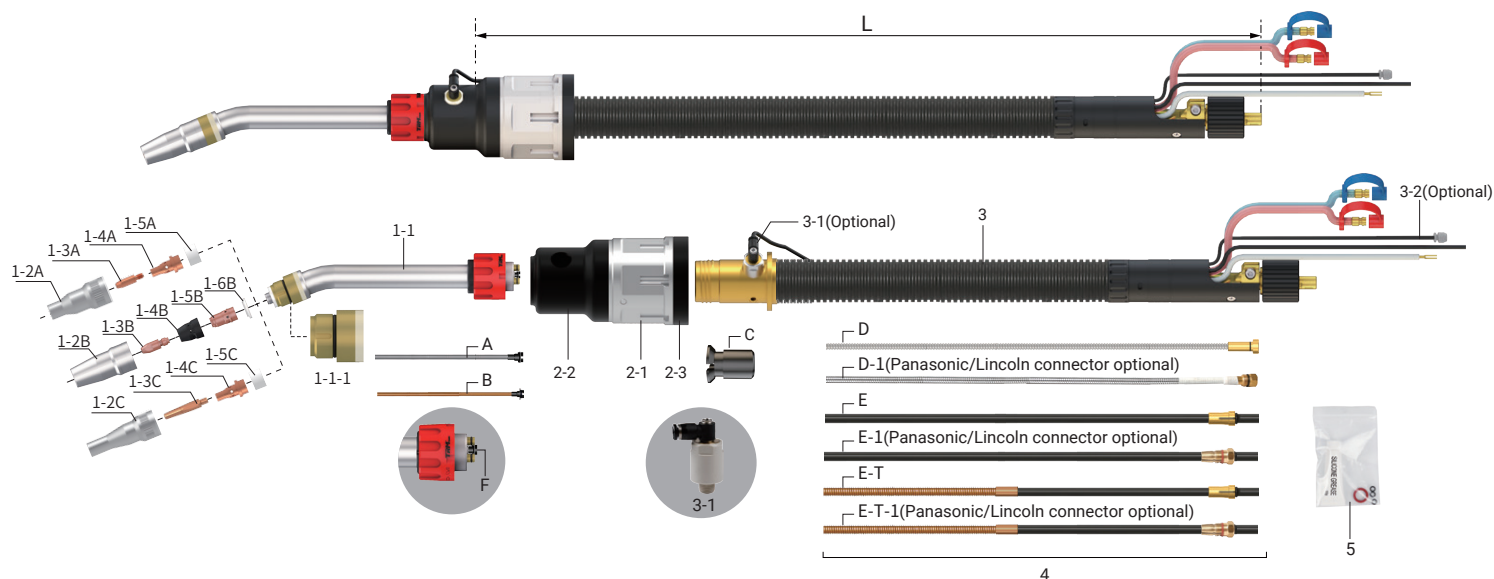
1-6E.INSULATOR

GOOSE NECK CONSUMABLES(M6)

Item	Order NO.	Product Description
1-2E. NOZZLE	TRM015-93-13C	Tip recess,L=41.3mm,A=Φ13mm,B=Φ25mm
	TRM035-31-08	CuCrZr,Φ0.8 wire(Steel)
1-3E. CONTACT TIP	TRM035-31-10	CuCrZr,Φ1.0 wire (Steel)
	TRM035-31-12	CuCrZr,Φ1.2 wire (Steel)
	TRM035-31-14	CuCrZr,Φ1.4 wire (Steel)
	TRM035-31-16	CuCrZr,Φ1.6 wire (Steel)
	TRM035-31-08A	CuCrZr,Φ0.8mm wire (Aluminium)
	TRM035-31-10A	CuCrZr,Φ1.0mm wire (Aluminium)
	TRM035-31-12A	CuCrZr,Φ1.2mm wire (Aluminium)
	TRM035-31-16A	CuCrZr,Φ1.6mm wire (Aluminium)
1-4E. GAS DIFFUSER	TRM028-04	BLACK
1-5E. TIP HOLDER	TRM048-01	M6, L=20mm, B=10×1.25
1-6E. INSULATOR	550WTE31-08	Insulator (White)

550A Liquid-Cooled Welding Torch TRM602WHD

Rating 550A CO₂
500A mixed gases M21 (ISO 14175)
Duty cycle 100%



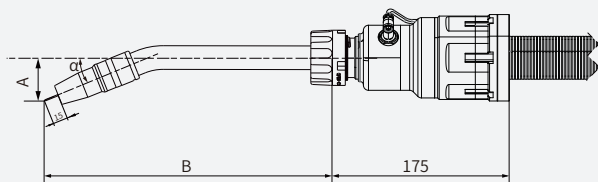
Clamping function wire selection

Wire	Liner combination
Steel wire	A+C+D
Aluminium wire	B+C+E

Non-clamping function wire selection

Wire	Liner combination
Steel wire	F+D
Aluminium wire	F+(E-T)

TCP DATA



α	A(mm)	B(mm)	Angle	Neck Part No.
22°	44.3	291.6	22°	550WTE51-22L240H023
22°	44.3	392.6	22°	550WTE51-22L341H023
22°	44.3	452.6	22°	550WTE51-22L401H023
22°	44.3	549.99	22°	550WTE51-22L499H023
36°	76.6	289.57	36°	550WTE51-36L245H044
36°	76.6	377.25	36°	550WTE51-36L333H044
36°	76.6	531.47	36°	550WTE51-36L487H044
45°	111.27	272.96	45°	550WTE51-45L234H073
45°	111.27	372.96	45°	550WTE51-45L334H073
45°	92.2	381.4	45°	550WTE51-45L371H053
45°	111.27	454.56	45°	550WTE51-45L416H073
45°	111.27	514.6	45°	550WTE51-45L476H073
45°	92.2	522.9	45°	550WTE51-45L512H053
180°	0	298.45	180°	550WTE51-180L243H0
180°	0	399.45	180°	550WTE51-180L344H0
22°	44.3	218.06	22°	550WTE51-22L167H023

COLLISION SENSOR DATA SHEET

ITEM	TRM316-01-N10	TRM316-01-N16
Size	Diameter Φ85/Height 89mm	Diameter Φ85/Height 89mm
Weight	600g	600g
Sensing accuracy	Deflection in X/Y direction 0.9°~1.5°	Deflection in X/Y direction 0.9°~1.5°
Maximum deflection	X/Y deflection approx. 10°	X/Y deflection approx. 6°
Repeatability(400mm)	Within 0.15mm	Within 0.15mm
Trigger force	About 60-70N in X/Y (400mm) direction	About 90-100N in X/Y (400mm) direction
IP protection level	IP21	IP21
Switching capacity	10A/250VAC	10A/250VAC
Ambient temperature	-10°C to +55°C	-10°C to +55°C
Relative humidity	70% at 20 °C during operation	70% at 20 °C during operation

Suitable Industries:

- > Construction Machinery Industry
- > Steel Structure Industry

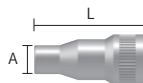
550A LIQUID COOLED ROBOT TORCH

ORDER GUIDE

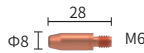
Item	Order NO.	Product Description
ROBOT TORCH	TRM602WHD	Through-arm liquid cooled robot welding torch
		*Through-arm liquid cooled robot welding torch with wire-clamping cylinder function(Optional)
		*Through-arm liquid cooled robot welding torch with blow cleaning function(Optional)

1.TORCH NECK ASSEMBLY

Item	Order NO.	Product Description
1-1. GOOSE NECK	550WTE51-22L240H023	22°, standard, straight length 150mm
	550WTE51-22L341H023	22°, extended 101mm, straight length 251mm
	550WTE51-22L401H023	22°, extended 161mm, straight length 311mm
	550WTE51-22L499H023	22°, extended 259mm, straight length 409mm
	550WTE51-36L245H044	36°, standard, straight length 145mm
	550WTE51-36L333H044	36°, extended 88mm, straight length 233mm
	550WTE51-36L487H044	36°, extended 242mm, straight length 387mm
	550WTE51-45L234H073	45°, standard, straight length 117mm
	550WTE51-45L334H073	45°, extended 100mm, straight length 217mm
	550WTE51-45L371H053	45°, special type, straight length 244mm
	550WTE51-45L416H073	45°, extended 182mm, straight length 299mm
	550WTE51-45L476H073	45°, extended 242mm, straight length 359mm
	550WTE51-45L512H053	45°, special type, straight length 386mm
	550WTE51-180L243H0	Straight neck, total length 272mm
	550WTE51-180L344H0	Straight neck, total length 373mm
	550WTE51-22L167H023	22°, short neck, straight length 78mm
1-1-1. NOZZLE HOLDER	550WTE51-03-ZJ	With sealing ring
A. NECK LINER	TRM154-08-60	(Steel) wire $\Phi 0.8-0.9\text{mm}$
	TRM154-12-60	(Steel) wire $\Phi 1.0-1.2\text{mm}$
	TRM154-16-60	(Steel) wire $\Phi 1.4-1.6\text{mm}$
C. WIRE GUIDE BUSHING	TRM602W-061JS-11	Wire guide bushing($\Phi 0.8\text{mm}-\Phi 1.6\text{mm}$)
F. NECK LINER FITTING	TRM605W-22-22	



1-2A.NOZZLE



1-3A.CONTACT TIP



1-4A.TIP HOLDER



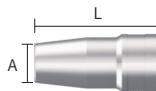
1-5A.INSULATOR

GOOSE NECK CONSUMABLES(M6)

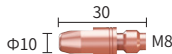
Item	Order NO.	Product Description
1-2A. NOZZLE	TRM015-62-14C	Tip flush(Nickel plating); L=63.5mm, A=14mm
	TRM015-61-13C	Tip recess(Nickel plating); L=65.5mm, A=13mm
1-3A. CONTACT TIP	TRM035-12-08	CuCrZr, $\Phi 0.8$ wire (Steel)
	TRM035-12-10	CuCrZr, $\Phi 1.0$ wire (Steel)
	TRM035-12-12	CuCrZr, $\Phi 1.2$ wire (Steel)
	TRM035-12-14	CuCrZr, $\Phi 1.4$ wire (Steel)
	TRM035-12-16	CuCrZr, $\Phi 1.6$ wire (Steel)
	TRM035-12-16	CuCrZr, $\Phi 1.6$ wire (Steel)
1-4A. TIP HOLDER	TRM046-05	M6 L=27mm, B=M12X1
1-5A. INSULATOR	550WTE51-16	Insulator (White)

550A Liquid-Cooled Welding Torch TRM602WHD

Rating 550A CO₂
500A mixed gases M21 (ISO 14175)
Duty cycle 100%



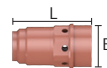
1-2B. NOZZLE



1-3B. CONTACT TIP



1-4B. GAS DIFFUSER



1-5B. TIP HOLDER



1-6B. INSULATOR

GOOSE NECK CONSUMABLES(M8)

Item	Order NO.	Product Description
1-2B. NOZZLE	TRM015-62-16C	Tip flush(Nickel plating); L=63.5mm, A=16mm
	TRM015-63-16C	Tip stick out(Nickel plating); L=60.5mm, A=16mm
	TRM015-62-14C	Tip flush(Nickel plating); L=63.5mm, A=14mm
	TRM015-61-17C	Tip recess(Nickel plating); L=65.5mm, A=17mm
1-3B. CONTACT TIP	TRM035-03-10	Φ1.0(Ultra long life)(Steel)
	TRM035-03-12	Φ1.2(Ultra long life)(Steel)
	TRM035-03-14	Φ1.4(Ultra long life)(Steel)
	TRM035-03-16	Φ1.6(Ultra long life)(Steel)
	TRM035-02-08	CuCrZr, Φ0.8 wire (Steel)
	TRM035-02-10	CuCrZr, Φ1.0 wire (Steel)
	TRM035-02-12	CuCrZr, Φ1.2 wire (Steel)
	TRM035-02-14	CuCrZr, Φ1.4 wire (Steel)
	TRM035-02-16	CuCrZr, Φ1.6 wire (Steel)
1-4B. GAS DIFFUSER	3.1.4.0845	Black
1-5B. TIP HOLDER	TRM046-04	M8 L=27mm, B=M12X1
1-6B. INSULATOR	550WTE51-15	Insulator (White)



1-2C. NOZZLE



1-3C. CONTACT TIP



1-4C. TIP HOLDER



1-5C. INSULATOR

GOOSE NECK CONSUMABLES(JAPANESE STYLE)

Item	Order NO.	Product Description
1-2C. NOZZLE	TRM015-82-13	Tip flush; L=80.9mm, A=Φ13mm, b=Φ30mm
1-3C. CONTACT TIP	TMP030-2-R08	CuCrZr, Φ0.8 wire (Steel)
	TMP030-2-R10	CuCrZr, Φ1.0 wire (Steel)
	TMP030-2-R12	CuCrZr, Φ1.2 wire (Steel)
	TMP030-2-R14	CuCrZr, Φ1.4 wire (Steel)
	TMP030-2-R16	CuCrZr, Φ1.6 wire (Steel)
1-4C. TIP HOLDER	TRM046-05	M6 L=27mm, B=M12X1
1-5C. INSULATOR	550WTE51-16	Insulator (White)

2.ANTI-COLLISION UNIT

Item	Order NO.	Product Description
2-1. COLLISION SENSOR	TRM316-01-N10	Suitable for 222L167,2L240,22L341,36L245,36L333,45L234,45L334,180L243,180L344
	TRM316-01-N16	Suitable for 22L401,22L409,36L487,45L416,45L476
2-2. DUST COVER	TRM602W-061JS-15	Select when with wire brake function
	TRM602W-061JS-14	Select when without wire brake function
2-3. FLANGE	See P64-65 flange selection table	Including installed screws

3.CABLE ASSEMBLY

Item	Order NO.	Product Description
3. CABLE ASSEMBLY	TRM602W-DL	Liquid cooled cable assembly(Optional wire brake function)
3-1. WIRE CLAMP CYLINDER(Optional)	TRM602W-061JS-QG	Wire brake cylinder (Component)
3-2. BLOW CLEANING FUNCTION(Optional)	Refer to 3-2 in the welding torch diagram	

Suitable Industries:

- > Construction Machinery Industry
- > Steel Structure Industry

550A LIQUID COOLED ROBOT TORCH

4. LINER OPTIONAL COMBINATION

Item	Order NO.	Product Description
D. LINER(Euro type)	TRM152B-08-23	(Steel) wire Φ 0.8-0.9mm
	TRM152B-12-23	(Steel) wire Φ 1.0-1.2mm
	TRM152B-16-23	(Steel) wire Φ 1.4-1.6mm
D-1. LINER (Panasonic/Lincoln connector optional)	TRM150-08-23	(steel) wire Φ 0.8-0.9mm
	TRM150-12-23-WP	(steel) wire Φ 1.0-1.2mm
	TRM150-16-23-WP	(steel) wire Φ 1.4-1.6mm

* If the cable length exceeds 2 metres, please contact sales in advance when ordering the length of the wire feeder tube.

5.ACCESSORY BAG

Item	Order NO.	Product Description
5. ACCESSORY BAG	TRM-AP-WT	Including seal and grease on goose necks and connectors

ALUMINUM LINER CONFIGURATION

Item	Order NO.	Product Description
1-3A. CONTACT TIP(M6)	TRM035-12-08A	CuCrZr, Φ 0.8 wire (Aluminium)
	TRM035-12-10A	CuCrZr, Φ 1.0 wire (Aluminium)
	TRM035-12-12A	CuCrZr, Φ 1.2 wire (Aluminium)
	TRM035-12-14A	CuCrZr, Φ 1.4 wire (Aluminium)
	TRM035-12-16A	CuCrZr, Φ 1.6 wire (Aluminium)
	TRM035-11-08A	Copper, Φ 0.8 wire (Aluminium)
	TRM035-11-10A	Copper, Φ 1.0 wire (Aluminium)
	TRM035-11-12A	Copper, Φ 1.2 wire (Aluminium)
	TRM035-11-14A	Copper, Φ 1.4 wire (Aluminium)
	TRM035-11-16A	Copper, Φ 1.6 wire (Aluminium)
1-3B. CONTACT TIP(M8)	TRM035-02-08A	CuCrZr, Φ 0.8mm wire (Aluminium)
	TRM035-02-10A	CuCrZr, Φ 1.0mm wire (Aluminium)
	TRM035-02-12A	CuCrZr, Φ 1.2mm wire (Aluminium)
	TRM035-02-14A	CuCrZr, Φ 1.4mm wire (Aluminium)
	TRM035-02-16A	CuCrZr, Φ 1.6mm wire (Aluminium)
1-3C. CONTACT TIP(Japanese style)	TMP030-2-R10	CuCrZr, Φ 0.8 wire (Aluminium)
	TMP030-2-R12	CuCrZr, Φ 1.0 wire (Aluminium)
	TMP030-2-R14	CuCrZr, Φ 1.2wire (Aluminium)
B. NECK LINER	TRM154-08A-XX	(Aluminium) wire Φ 0.8-0.9mm
	TRM154-12A-XX	(Aluminium) wire Φ 1.0-1.2mm
	TRM154-16A-XX	(Aluminium) wire Φ 1.4-1.6mm
C. WIRE GUIDE BUSHING	TRM602W-061JS-11	Wire guide bushing(Φ 0.8mm- Φ 1.6mm)
F. NECK LINER FITTING	TRM605W-22-22	
E. LINER(Euro type)	TRM153B-08A-23	(Aluminium) wire Φ 0.8-0.9mm
	TRM153B-12A-23	(Aluminium) wire Φ 1.0-1.2mm
	TRM153B-16A-23	(Aluminium) wire Φ 1.4-1.6mm
E-1. LINER (Panasonic/Lincoln connector optional)	TRM150N-08A-23	(Aluminium) wire Φ 0.8-0.9mm
	TRM150N-12A-23	(Aluminium) wire Φ 1.0-1.2mm
	TRM150N-16A-23	(Aluminium) wire Φ 1.4-1.6mm
E-T. LINER(Euro type)	TRM152B-10A-18	(Aluminium) wire Φ 0.8-0.9mm
	TRM152B-12A-18	(Aluminium) wire Φ 1.0-1.2mm
	TRM152B-16A-18	(Aluminium) wire Φ 1.4-1.6mm
E-T-1. LINER (Panasonic/Lincoln connector optional)	TRM150P-08A-23	(Aluminium) wire Φ 0.8-0.9mm
	TRM150P-12A-23	(Aluminium) wire Φ 1.0-1.2mm
	TRM150P-16A-23	(Aluminium) wire Φ 1.4-1.6mm

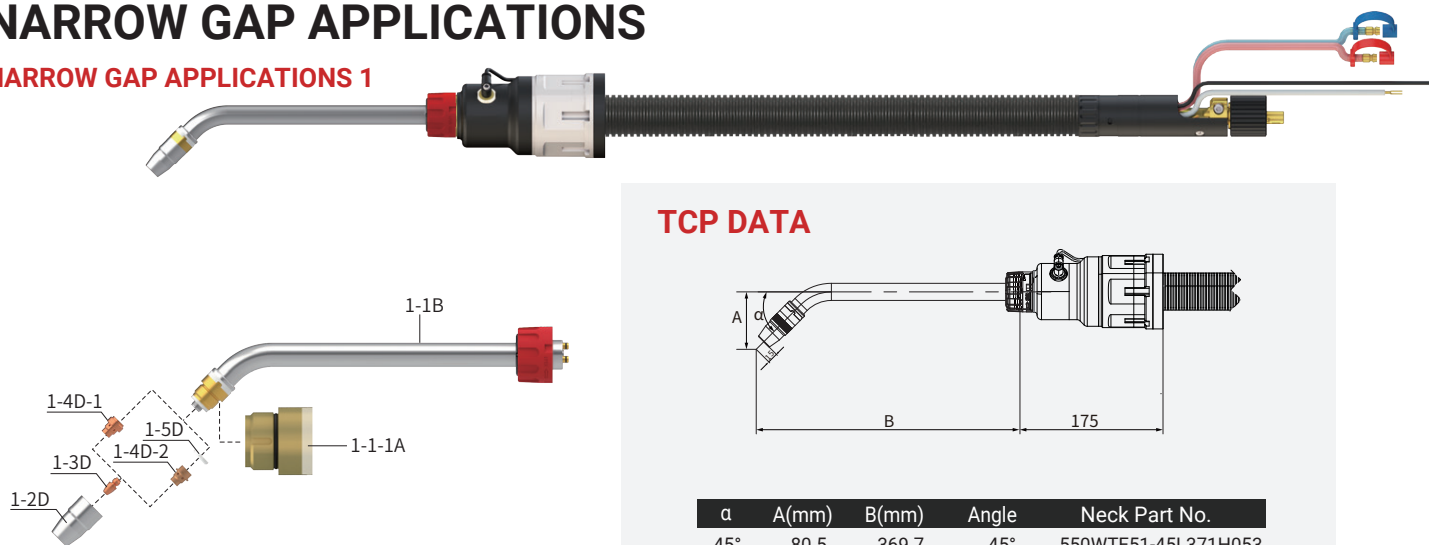
* If the cable length exceeds 2 metres, please contact sales in advance when ordering the length of the wire feeder tube.

550A Liquid-Cooled Welding Torch TRM602WHD

Rating 550A CO₂
500A mixed gases M21 (ISO 14175)
Duty cycle 100%

NARROW GAP APPLICATIONS

NARROW GAP APPLICATIONS 1

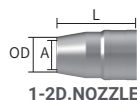


TORCH NECK ASSEMBLY

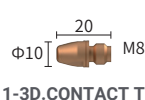
Item	Order NO.	Product Description
1-1B. GOOSE NECK	550WTE51-45L371H053	45°, special type, straight length 244mm, for narrow gaps
1-1-1A. NOZZLE HOLDER	550WTE51-03-ZJ	With sealing ring

GOOSE NECK CONSUMABLES

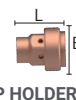
(M8 SHORT NOZZLE STANDARD CONFIGURATION)



1-2D.NOZZLE



1-3D.CONTACT TIP

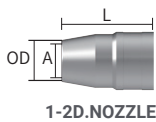


1-4D-1.TIP HOLDER ASSEMBLY

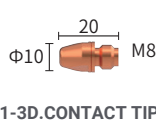
Item	Order NO.	Product Description
1-2D. NOZZLE	TRM015-72-16C	Tip flush; L=47mm, A=16mm
1-3D. CONTACT TIP	TRM035-62-08	CuCrZr, Φ0.8 wire (Steel)
	TRM035-62-10	CuCrZr, Φ1.0 wire (Steel)
	TRM035-62-12	CuCrZr, Φ1.2 wire (Steel)
	TRM035-62-14	CuCrZr, Φ1.4 wire (Steel)
	TRM035-62-10A	CuCrZr, Φ1.0 wire (Aluminium)
	TRM035-62-12A	CuCrZr, Φ1.2 wire (Aluminium)
1-4D-1. TIP HOLDER ASSEMBLY	TRM046-06	M8 L=18.5mm, B=M12X1

GOOSE NECK CONSUMABLES

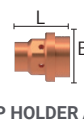
(M8 SHORT NOZZLE HEAVY LOAD CONFIGURATION)



1-2D.NOZZLE



1-3D.CONTACT TIP



1-4D-2.TIP HOLDER ASSEMBLY



1-5D.INSULATOR

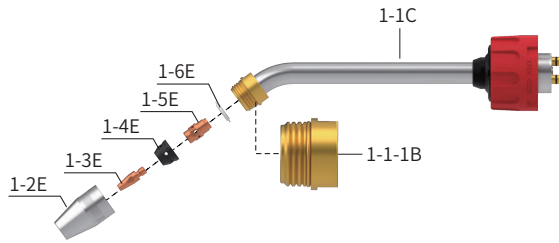
Item	Order NO.	Product Description
1-2D. NOZZLE	TRM015-72-16C	Tip flush; L=47mm, A=16mm
1-3D. CONTACT TIP	TRM035-62-08	CuCrZr, Φ0.8 wire (Steel)
	TRM035-62-10	CuCrZr, Φ1.0 wire (Steel)
	TRM035-62-12	CuCrZr, Φ1.2 wire (Steel)
	TRM035-62-14	CuCrZr, Φ1.4 wire (Steel)
	TRM035-62-10A	CuCrZr, Φ1.0 wire (Aluminium)
	TRM035-62-12A	CuCrZr, Φ1.2 wire (Aluminium)
1-4D-2. TIP HOLDER ASSEMBLY	TRM046-06-HD	M8 L=18.5mm, B=M12X1
1-5D. INSULATOR	550WTE51-15	Insulator (White)

Suitable Industries:

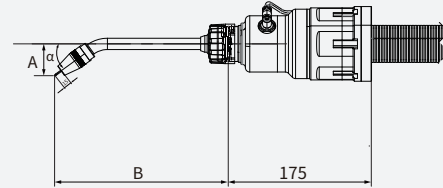
- > Construction Machinery Industry
- > Steel Structure Industry

550A LIQUID COOLED ROBOT TORCH

NARROW GAP APPLICATIONS 2



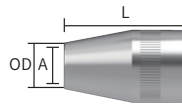
TCP DATA



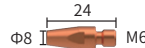
α	A(mm)	B(mm)	Angle	Neck Part No.
36°	46	239.7	36°	550WTE31-36
36°	46	324.7	36°	550WTE31-36L

TORCH NECK ASSEMBLY

Item	Order NO.	Product Description
1-1C. GOOSE NECK	550WTE31-36	Goose neck (36°)
	550WTE31-36L	Goose neck (36°, extended 85mm)
1-1-1B. NOZZLE HOLDER	550WTE31-04-ZJ	With sealing ring



1-2E.NOZZLE



1-3E.CONTACT TIP



1-4E.GAS DIFFUSER



1-5E.TIP HOLDER



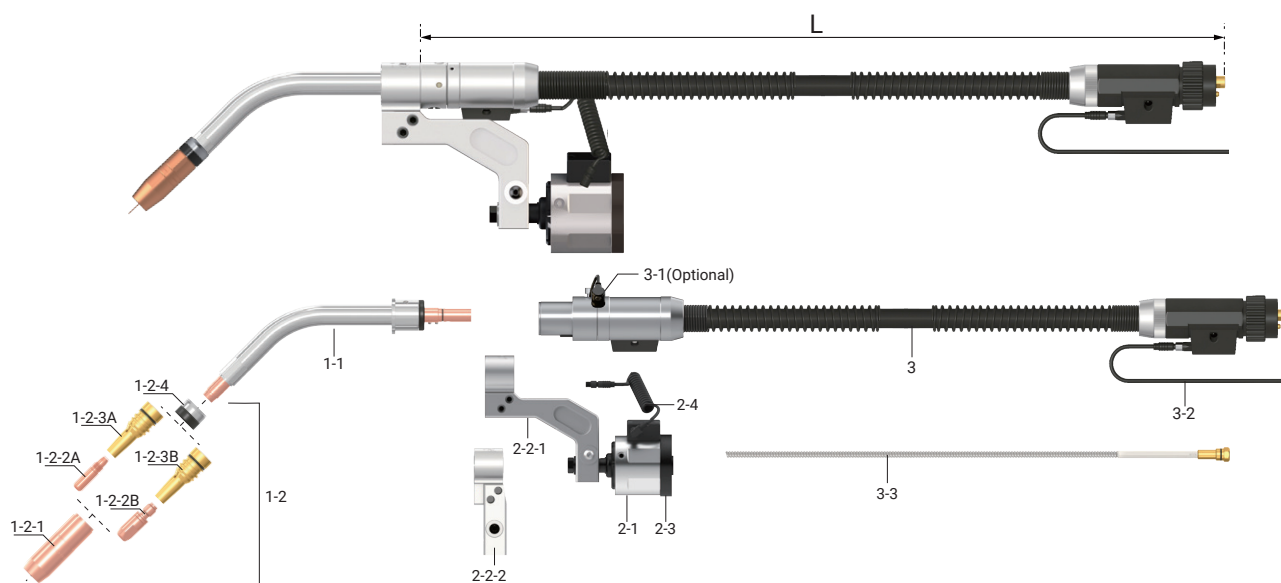
1-6E.INSULATOR

GOOSE NECK CONSUMABLES(M6)

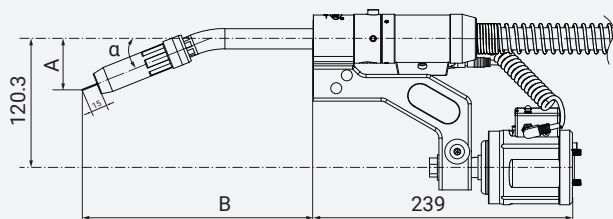
Item	Order NO.	Product Description
1-2E. NOZZLE	TRM015-93-13C	Tip recess,L=41.3mm,A=Φ13mm,B=Φ25mm
	TRM035-31-08	CuCrZr,Φ0.8 wire(Steel)
1-3E. CONTACT TIP	TRM035-31-10	CuCrZr,Φ1.0 wire (Steel)
	TRM035-31-12	CuCrZr,Φ1.2 wire (Steel)
	TRM035-31-14	CuCrZr,Φ1.4 wire (Steel)
	TRM035-31-16	CuCrZr,Φ1.6 wire (Steel)
	TRM035-31-08A	CuCrZr,Φ0.8mm wire (Aluminium)
	TRM035-31-10A	CuCrZr,Φ1.0mm wire (Aluminium)
	TRM035-31-12A	CuCrZr,Φ1.2mm wire (Aluminium)
	TRM035-31-16A	CuCrZr,Φ1.6mm wire (Aluminium)
1-4E. GAS DIFFUSER	TRM028-04	BLACK
1-5E. TIP HOLDER	TRM048-01	M6, L=20mm, B=10×1.25
1-6E. INSULATOR	550WTE31-08	Insulator (White)

500A Air-Cooled Welding Torch TRM501

Rating 500A CO₂
350A mixed gases M21 (ISO 14175)
Duty cycle 100%



TCP DATA



α	A(mm)	B(mm)	Angle	Neck Part No.
22°	47.2	214.15	22°	TRM501-22
22°	47.15	271.25	22°	TRM501-22L
45°	100.97	166.39	45°	TRM501-45
45°	120.95	213.3	45°	TRM501-45L
45°	120.95	268.3	45°	TRM501-45L1
45°	120.95	318.3	45°	TRM501-45L2
60°	134.48	164.4	60°	TRM501-60
180°	0	201.52	180°	TRM501-180

COLLISION SENSOR DATA SHEET

ITEM	TRM313-01-N10	TRM313-01-N16
Size	Diameter Φ77/Height 103.7mm	Diameter Φ77/Height 103.7mm
Weight	980g	980g
Sensing accuracy	1°~1.5°	1°~1.5°
Maximum deflection	XY direction 8°	XY direction 4°
Repeatability(400mm)	0.1~0.15mm	Within 0.15mm
Trigger force	About 60-70N in X/Y (400mm) direction	About 90-100N in X/Y (400mm) direction
IP protection level	IP21	IP21
Switching capacity	0.1A/250VAC	0.1A/250VAC
Ambient temperature	-10°C to +55°C	-10°C to +55°C
Relative humidity	70% at 20 °C during operation	70% at 20 °C during operation

ORDER GUIDE

Item	Order NO.	Product Description
ROBOT TORCH	TRM501	Over-arm air cooled robot welding torch(Optional wire brake function)

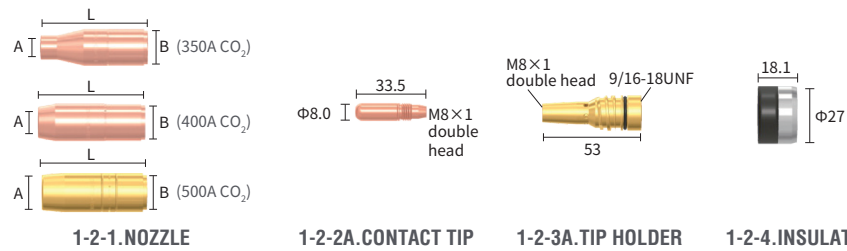
1.TORCH NECK ASSEMBLY

Item	Order NO.	Product Description
1-1.GOOSE NECK	TRM501-22	Goose neck(22°,one button quick change)
	TRM501-22L	Goose neck(22° , extended, one button quick change)
	TRM501-45	Goose neck(45°,one button quick change)
	TRM501-45L	Goose neck(45° , extended, one button quick change)
	TRM501-45L1	Goose neck(45° , extended, one button quick change)
	TRM501-45L2	Goose neck(45° , extended, one button quick change)
	TRM501-60	Goose neck(60° ,one button quick change)
	TRM501-180	Goose neck(180° ,one button quick change)

Suitable Industries:

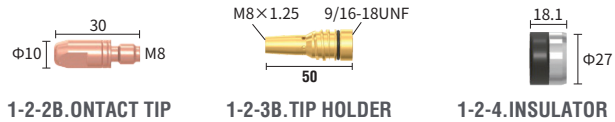
- > Automotive Industry
- > Container Industry

500A AIR COOLED ROBOT TORCH



GOOSE NECK CONSUMABLES

Item	Order NO.	Product Description
1-2-1.NOZZLE	TRM012-14-50	L=70.0, A=Φ13, B=Φ24, contact tip flush
	TRM012-16-50	L=73.2, A=Φ13, B=Φ24, contact tip recess 3.2mm
	TRM012-18-50	L=66.8, A=Φ13, B=Φ24, contact tip stick out 3.2mm
	TRM012-14-62	L=70.0, A=Φ16, B=Φ24, contact tip flush
	TRM012-16-62	L=73.2, A=Φ16, B=Φ24, contact tip recess 3.2mm
	TRM012-18-62	L=66.8, A=Φ16, B=Φ24, contact tip stick out 3.2mm
	TRM012-26-B75	L=73.2, A=Φ19, B=Φ27, contact tip recess 3.2mm, brass shell
	TRM012-24-62	L=70.0, A=Φ16, B=Φ27, contact tip flush, copper shell
	TRM012-26-62	L=73.2, A=Φ16, B=Φ27, contact tip recess 3.2mm, copper shell
1-2-2A.CONTACT TIP	TRM012-28-62	L=66.8, A=Φ16, B=Φ27, contact tip stick out 3.2mm, copper shell
	TRM032-2-R08	CuCrZr, Φ0.8 wire (Steel)
	TRM032-2-R09	CuCrZr, Φ0.9 wire (Steel)
	TRM032-2-R10	CuCrZr, Φ1.0 wire (Steel)
	TRM032-2-R12	CuCrZr, Φ1.2 wire (Steel)
	TRM032-2-R12-A	CuCrZr, Φ1.2 wire (Steel)(Ultra long life)
	TRM032-2-R14	CuCrZr, Φ1.4 wire (Steel)
1-2-3A.TIP HOLDER	TRM032-2-R16	CuCrZr, Φ1.6 wire (Steel)
	TRM042-01	Brass
1-2-4.INSULATOR	TRM501-05R	



GOOSE NECK CONSUMABLES(EURO STYLE)

Item	Order NO.	Product Description
1-2-2B.CONTACT TIP	TRM035-02-08	CuCrZr, Φ0.8 wire (Steel)
	TRM035-02-10	CuCrZr, Φ1.0 wire (Steel)
	TRM035-02-12	CuCrZr, Φ1.2 wire (Steel)
	TRM035-02-14	CuCrZr, Φ1.4 wire (Steel)
	TRM035-02-16	CuCrZr, Φ1.6 wire (Steel)
1-2-3B.TIP HOLDER	TRM042-04	Brass
1-2-4.INSULATOR	TRM501-05R	

2.ANTI-COLLISION UNIT

Item	Order NO.	Product Description
2-1. COLLISION SENSOR	TRM313-01-N10	Suitable for 22°, 22°L, 45°, 45°L1, 60°, 180°
Note: see parameters in table	TRM313-01-N16	Suitable for 45°L2
2-2-1. MOUNT ARM	TRM216-045-105	Standard configuration; clamping aperture 35mm
2-2-2. MOUNT ARM	TRM211-045L	Optional
2-3. Flange	See P64-65 flange selection table	Including the installed screws.
2-4. SPRING LINE	3.5.11.0012	To connect collision sensor and torch

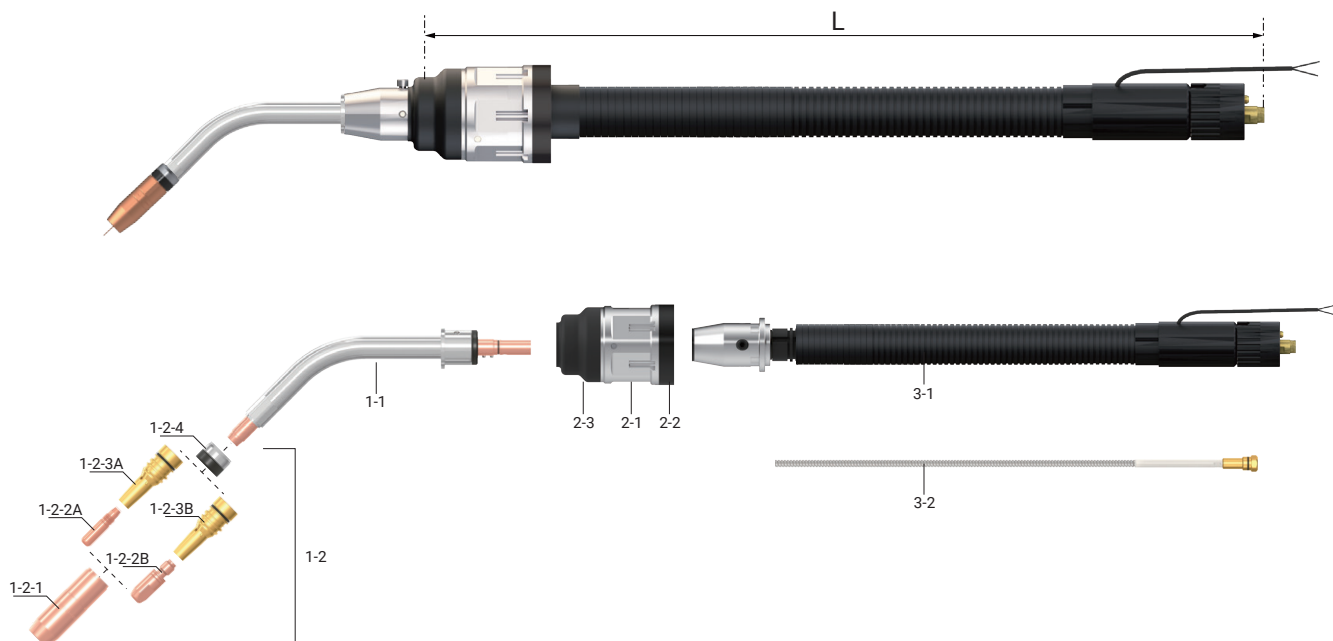
3.CABLE ASSEMBLY

Item	Order NO.	Product Description
3. CABLE ASSEMBLY	TRM501-DL	Cable assembly(Optional wire brake function)
3-1. WIRE BRAKE CYLINDER(Optional)	TRM501-061JS-1-QG	Wire brake cylinder (Component)
3-2. SIGNAL LINE	3.5.11.0015	To connect torch and robot
3-3. LINER	TRM150-08-23	One-piece, overall length 2.3m, (Steel) wire 0.8-0.9mm
	TRM150-12-23	One-piece, overall length 2.3m, (Steel) wire 1.0-1.2mm
	TRM150-16-23	One-piece, overall length 2.3m, (Steel) wire 1.4-1.6mm

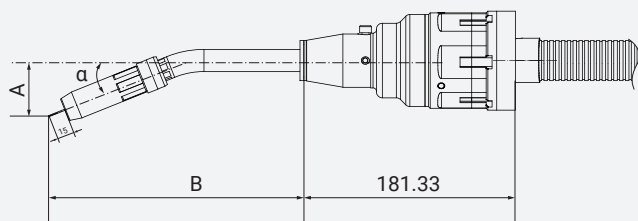
* If the cable length exceeds 2 metres, please contact sales in advance when ordering the length of the wire feeder tube.

500A Air-Cooled Welding Torch TRM508

Rating 500A CO₂
350A mixed gases M21 (ISO 14175)
Duty cycle 100%



TCP DATA



α	A(mm)	B(mm)	Angle	Neck Part No.
22°	47.2	214.15	22°	TRM501-22
22°	47.15	271.25	22°	TRM501-22L
45°	100.97	166.39	45°	TRM501-45
45°	120.95	213.3	45°	TRM501-45L
45°	120.95	268.3	45°	TRM501-45L1
45°	120.95	318.3	45°	TRM501-45L2
60°	134.48	164.4	60°	TRM501-60

COLLISION SENSOR DATA SHEET

ITEM	TRM316-01-N6	TRM316-01-N10
Size	Diameter Φ85/Height 89mm	Diameter Φ85/Height 89mm
Weight	600g	600g
Sensing accuracy	Deflection in X/Y direction 0.9°~1.5°	Deflection in X/Y direction 0.9°~1.5°
Maximum deflection	X/Y deflection approx. 10°	X/Y deflection approx. 10°
Repeatability(400mm)	Within 0.15mm	Within 0.15mm
Trigger force	About 30~45N in X/Y (400mm) direction	About 60~70N in X/Y (400mm) direction
IP protection level	IP21	IP21
Switching capacity	10A/250VAC	10A/250VAC
Ambient temperature	-10°C to +55°C	-10°C to +55°C
Relative humidity	70% at 20 °C during operation	70% at 20 °C during operation

ORDER GUIDE

Item	Order NO.	Product Description
ROBOT TORCH	TRM508	Through-arm air cooled robot welding torch(Optional wire brake function)

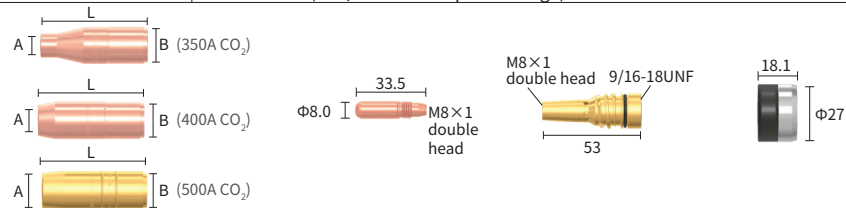
Suitable Industries:

- > Automotive Industry
- > Steel Structure Industry

500A AIR COOLED ROBOT TORCH

1.TORCH NECK ASSEMBLY

Item	Order NO.	Product Description
1-1.GOOSE NECK	TRM501-22	Goose neck(22°,one button quick change)
	TRM501-22L	Goose neck(22° , extended, one button quick change)
	TRM501-45	Goose neck(45°,one button quick change)
	TRM501-45L	Goose neck(45° , extended, one button quick change)
	TRM501-45L1	Goose neck(45° , extended, one button quick change)
	TRM501-45L2	Goose neck(45° , extended, one button quick change)
	TRM501-60	Goose neck(60° ,one button quick change)



GOOSE NECK CONSUMABLES

1-2-1.NOZZLE

1-2-2A.CONTACT TIP

1-2-3A.TIP HOLDER

1-2-4.INSULATOR

Item	Order NO.	Product Description
1-2-1.NOZZLE	TRM012-14-50	L=70.0, A=Φ13, B=Φ24, contact tip flush
	TRM012-16-50	L=73.2, A=Φ13, B=Φ24, contact tip recess 3.2mm
	TRM012-18-50	L=66.8, A=Φ13, B=Φ24, contact tip stick out 3.2mm
	TRM012-14-62	L=70.0, A=Φ16, B=Φ24, contact tip flush
	TRM012-16-62	L=73.2, A=Φ16, B=Φ24, contact tip recess 3.2mm
	TRM012-18-62	L=66.8, A=Φ16, B=Φ24, contact tip stick out 3.2mm
	TRM012-26-B75	L=73.2, A=Φ19, B=Φ27, contact tip recess 3.2mm, brass shell
	TRM012-24-62	L=70.0, A=Φ16, B=Φ27, contact tip flush, copper shell
	TRM012-26-62	L=73.2, A=Φ16, B=Φ27, contact tip recess 3.2mm, copper shell
1-2-2A.CONTACT TIP	TRM012-28-62	L=66.8, A=Φ16, B=Φ27, contact tip stick out 3.2mm, copper shell
	TRM032-2-R08	CuCrZr, Φ0.8 wire (Steel)
	TRM032-2-R09	CuCrZr, Φ0.9 wire (Steel)
	TRM032-2-R10	CuCrZr, Φ1.0 wire (Steel)
	TRM032-2-R12	CuCrZr, Φ1.2 wire (Steel)
	TRM032-2-R12-A	CuCrZr, Φ1.2 wire (Steel)(Ultra long life)
	TRM032-2-R14	CuCrZr, Φ1.4 wire (Steel)
1-2-3A.TIP HOLDER	TRM032-2-R16	CuCrZr, Φ1.6 wire (Steel)
	TRM042-01	Brass
1-2-4.INSULATOR	TRM501-05R	



GOOSE NECK CONSUMABLES(EURO STYLE)

1-2-2B.CONTACT TIP

1-2-3B.TIP HOLDER

1-2-4.INSULATOR

Item	Order NO.	Product Description
1-2-2B.CONTACT TIP	TRM035-02-08	CuCrZr, Φ0.8 wire (Steel)
	TRM035-02-10	CuCrZr, Φ1.0 wire (Steel)
	TRM035-02-12	CuCrZr, Φ1.2 wire (Steel)
	TRM035-02-14	CuCrZr, Φ1.4 wire (Steel)
	TRM035-02-16	CuCrZr, Φ1.6 wire (Steel)
1-2-3B.TIP HOLDER	TRM042-04	Brass
1-2-4.INSULATOR	TRM501-05R	

2.ANTI-COLLISION UNIT

Item	Order NO.	Product Description
2-1. COLLISION SENSOR	TRM316-01-N6	Through-arm hollow collision sensor (Standard goose neck)
	TRM316-01-N10	Through-arm hollow collision sensor (L/L1/L2 goose neck)
2-2. Flange	See P64-65 flange selection table	Including the installed screws.
2-3. DUST COVER	TRM508-061-1-4-A	Black

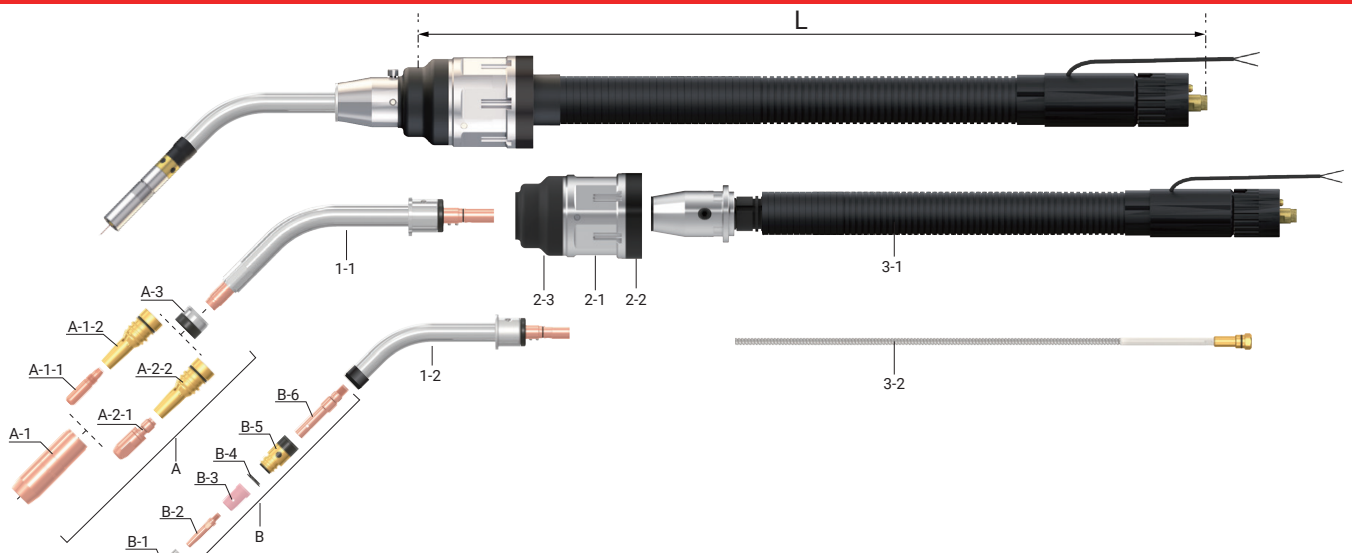
3.CABLE ASSEMBLY

Item	Order NO.	Product Description
3-1. CABLE ASSEMBLY	TRM508-DL	Cable assembly(Optional wire brake function)
	TRM150-08-23	One-piece, overall length 2.3m, (Steel) wire 0.8-0.9mm
3-2. LINER	TRM150-12-23	One-piece, overall length 2.3m, (Steel) wire 1.0-1.2mm
	TRM150-16-23	One-piece, overall length 2.3m, (Steel) wire 1.4-1.6mm

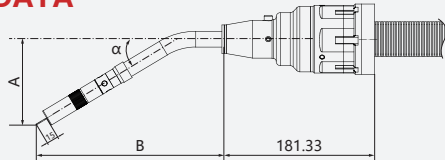
* If the cable length exceeds 2 metres, please contact sales in advance when ordering the length of the wire feeder tube.

350A Air-Cooled Welding Torch TRM352P

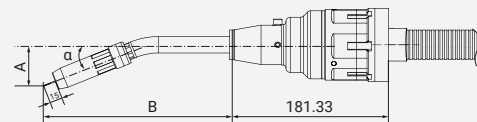
Rating 350A CO₂
270A mixed gases M21 (ISO 14175)
Duty cycle 100%



TCP DATA



α	A(mm)	B(mm)	Angle	Neck Part No.
31°	103.3	224.66	31°	TRM501-P31
31°	81.2	244.76	31°	TRM501-P31-GN671
31°	103.3	393.16	31°	TRM501-P31L
45°	129.5	221.86	45°	TRM501-P45L
45°	129.5	276.86	45°	TRM501-P45L1



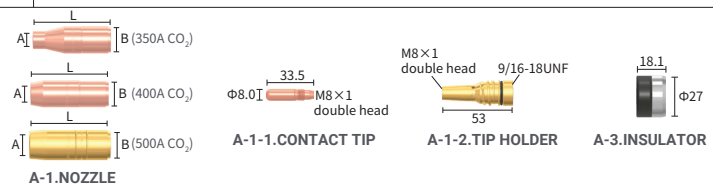
α	A(mm)	B(mm)	Angle	Neck Part No.
22°	47.2	214.15	22°	TRM501-22
22°	47.15	271.25	22°	TRM501-22L
45°	100.97	166.39	45°	TRM501-45
45°	120.95	213.3	45°	TRM501-45L
45°	120.95	268.3	45°	TRM501-45L1
45°	120.95	318.3	45°	TRM501-45L2
60°	134.48	164.4	60°	TRM501-60

COLLISION SENSOR DATA SHEET

ITEM	TRM316-01-N6	TRM316-01-N10
Size	Diameter Φ 85/Height 89mm	Diameter Φ 85/Height 89mm
Weight	600g	600g
Sensing accuracy	Deflection in X/Y direction 0.9°~1.5°	Deflection in X/Y direction 0.9°~1.5°
Maximum deflection	X/Y deflection approx. 10°	X/Y deflection approx. 10°
Repeatability(400mm)	Within 0.15mm	Within 0.15mm
Trigger force	About 30-45N in X/Y (400mm) direction	About 60-70N in X/Y (400mm) direction
IP protection level	IP21	IP21
Switching capacity	10A/250VAC	10A/250VAC
Ambient temperature	-10°C to +55°C	-10°C to +55°C
Relative humidity	70% at 20 °C during operation	70% at 20 °C during operation

ORDER GUIDE

Item	Order NO.	Product Description
ROBOT TORCH	TRM352(P)	Through-arm air cooled robot welding torch



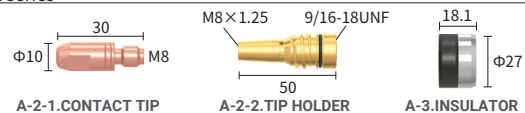
1. TORCH NECK ASSEMBLY

Item	Order NO.	Product Description
1-1. GOOSE NECK	TRM501-22	Goose neck(22°, one button quick change)
	TRM501-22L	Goose neck(22°, extended, one button quick change)
	TRM501-45	Goose neck(45°, one button quick change)
	TRM501-45L	Goose neck(45°, extended, one button quick change)
	TRM501-45L1	Goose neck(45°, extended, one button quick change)
	TRM501-45L2	Goose neck(45°, extended, one button quick change)
	TRM501-60	Goose neck(60°, one button quick change)

350A AIR COOLED ROBOT TORCH

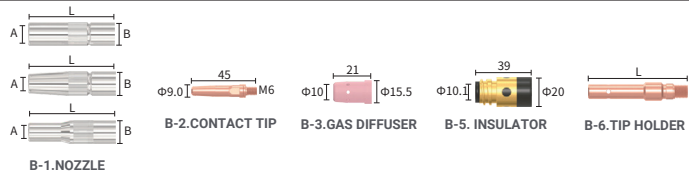
GOOSE NECK CONSUMABLES

Item	Order NO.	Product Description
A-1.NOZZLE	TRM012-14-50	L=70.0, A=Φ13, B=Φ24, contact tip flush
	TRM012-16-50	L=73.2, A=Φ13, B=Φ24, contact tip recess 3.2mm
	TRM012-18-50	L=66.8, A=Φ13, B=Φ24, contact tip stick out 3.2mm
	TRM012-14-62	L=70.0, A=Φ16, B=Φ24, contact tip flush
	TRM012-16-62	L=73.2, A=Φ16, B=Φ24, contact tip recess 3.2mm
	TRM012-18-62	L=66.8, A=Φ16, B=Φ24, contact tip stick out 3.2mm
A-1-1.CONTACT TIP	TRM032-2-R08	CuCrZr, Φ0.8 wire (Steel)
	TRM032-2-R09	CuCrZr, Φ0.9 wire (Steel)
	TRM032-2-R10	CuCrZr, Φ1.0 wire (Steel)
	TRM032-2-R12	CuCrZr, Φ1.2 wire (Steel)
	TRM032-2-R12-A	CuCrZr, Φ1.2 wire (Steel) (Ultra long life)
	TRM032-2-R14	CuCrZr, Φ1.4 wire (Steel)
A-1-2.TIP HOLDER	TRM032-2-R16	CuCrZr, Φ1.6 wire (Steel)
A-1-2.TIP HOLDER	TRM042-04	Brass
A-3.INSULATOR	TRM501-05R	American type R series



GOOSE NECK CONSUMABLES(EURO STYLE)

Item	Order NO.	Product Description
A-2-1.CONTACT TIP	TRM035-02-08	CuCrZr, Φ0.8 wire (Steel)
	TRM035-02-10	CuCrZr, Φ1.0 wire (Steel)
	TRM035-02-12	CuCrZr, Φ1.2 wire (Steel)
	TRM035-02-14	CuCrZr, Φ1.4 wire (Steel)
	TRM035-02-16	CuCrZr, Φ1.6 wire (Steel)
A-2-2.TIP HOLDER	TRM042-04	Brass
A-3.INSULATOR	TRM501-05R	



GOOSE NECK CONSUMABLES(JAPANESE STYLE)

Item	Order NO.	Product Description
1-2. GOOSE NECK	TRM501-P31	Goose neck(Japanese type, 31°, one button quick change)
	TRM501-P31-GN671	Goose neck(Japanese type, 31°, one button quick change),black goose neck
	TRM501-P31L	Goose neck(Japanese type, 31° long, one button quick change)
	TRM501-P45L	Goose neck(Japanese type, 45° middle, one button quick change)
	TRM501-P45L1	Goose neck(Japanese type, 45° long, one button quick change)
B-1.NOZZLE	TMP012-3-16	L=73.0mm,A=Φ16mm,B=Φ20mm
	TMP012-3-13	L=73.0mm,A=Φ13mm,B=Φ20mm
	TMP012-3-12	L=73.0mm,A=Φ12mm,B=Φ20mm
	TMP012-3B-10	L=73.0mm,A=Φ10mm,B=Φ20mm
	TMP012-3B-12	L=73.0mm,A=Φ12mm,B=Φ20mm
B-2.CONTACT TIP	TMP030-2-R08	CuCrZr, Φ0.8 wire (Steel)
	TMP030-2-R10	CuCrZr, Φ1.0 wire (Steel)
	TMP030-2-R12	CuCrZr, Φ1.2 wire (Steel)
B-3.GAS DIFFUSER	TMP040-3	Pink
B-4.SPRING WASHER	TMP041-3-2	
B-5.INSULATOR	TMPTFZ35101-LX	
B-6.TIP HOLDER	TMP053-1C	L=68.5, contact tip recess 3.0mm
	TMP053-2C	L=75.0, contact tip stick out 3.5mm
	TMP053-3C	L=71.5, contact tip flush

2.ANTI-COLLISION UNIT

Item	Order NO.	Product Description
2-1. COLLISION SENSOR	TRM316-01-N6	Through-arm hollow collision sensor (Standard goose neck)
	TRM316-01-N10	Through-arm hollow collision sensor (L/L1/L2 goose neck)
2-2. Flange	See P64-65 flange selection table	Including the installed screws.
2-3. DUST COVER	TRM508-061-1-4-A	Black

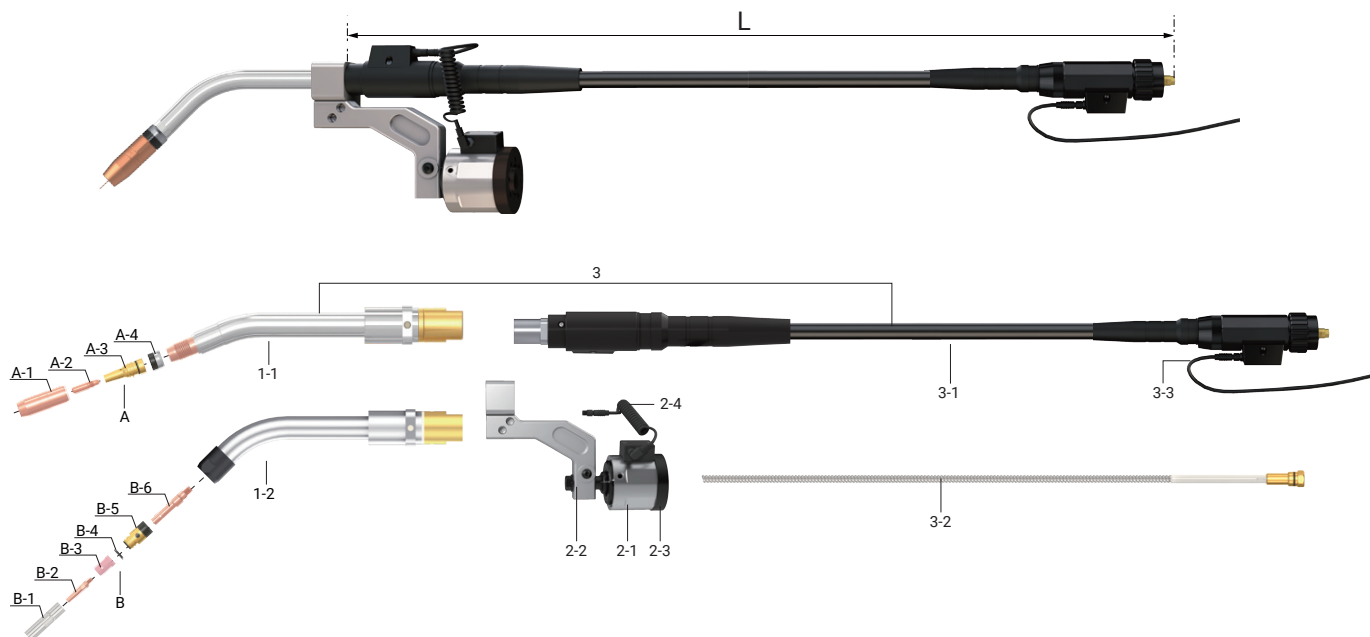
3.CABLE ASSEMBLY

Item	Order NO.	Product Description
3-1. CABLE ASSEMBLY	TRM352-DL	Cable assembly
	TRM150-08-23	One-piece, overall length 2.3m, (Steel) wire 0.8-0.9mm
3-2. LINER	TRM150-12-23	One-piece, overall length 2.3m, (Steel) wire 1.0-1.2mm
	TRM150-16-23	One-piece, overall length 2.3m, (Steel) wire 1.4-1.6mm

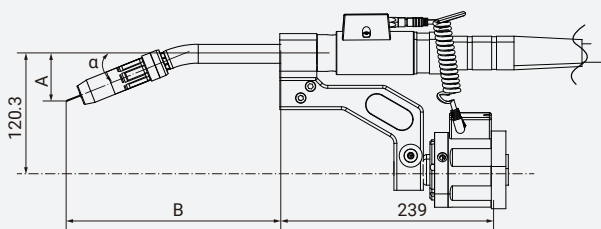
* If the cable length exceeds 2 metres, please contact sales in advance when ordering the length of the wire feeder tube.

350A Air-Cooled Welding Torch TRM351(P)

Rating 350A CO₂
270A mixed gases M21 (ISO 14175)
Duty cycle 100%

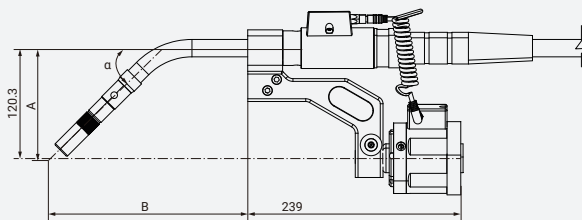


TCP DATA(TRM351)



α	A(mm)	B(mm)	Angle	Neck Part No.
22°	46.8	213.3	22°	TRM351-22
22°	46.78	358	22°	TRM351-22L2
45°	120.3	317.9	45°	TRM351-45L2

TCP DATA(TRM351P)



α	A(mm)	B(mm)	Angle	Neck Part No.
45°	120	216.76	45°	TRM351-P45L
45°	120	274.86	45°	TRM351-P45L1

COLLISION SENSOR DATA SHEET

ITEM	TRM313-01-N6	TRM313-01-N10
Size	Diameter Φ 77/Height 103.7mm	Diameter Φ 77/Height 103.7mm
Weight	980g	980g
Sensing accuracy	1°~1.5°	1°~1.5°
Maximum deflection	XY direction 8°	XY direction 8°
Repeatability(400mm)	0.1~0.15mm	0.1~0.15mm
Trigger force	About 40-50N in X/Y (400mm) direction	About 60-70N in X/Y (400mm) direction
IP protection level	IP21	IP21
Switching capacity	0.1A/250VAC	0.1A/250VAC
Ambient temperature	-10°C to +55°C	-10°C to +55°C
Relative humidity	70% at 20 °C during operation	70% at 20 °C during operation

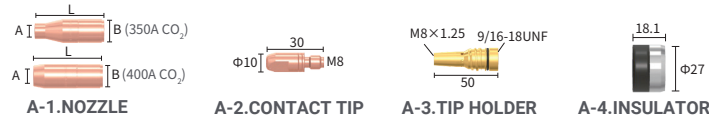
ORDER GUIDE

Item	Order NO.	Product Description
ROBOT TORCH	TRM351	Over-arm air cooled robot welding torch

350A AIR COOLED ROBOT TORCH

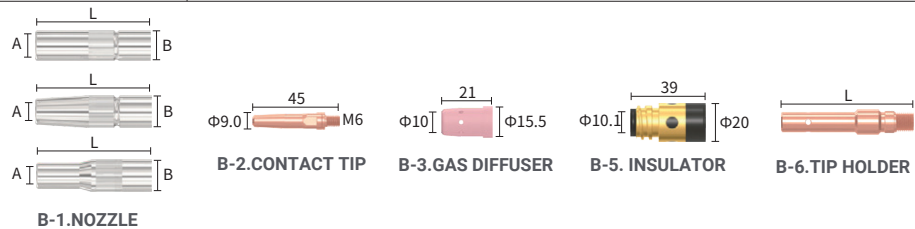
1.TORCH NECK ASSEMBLY

Item	Order NO.	Product Description
1-1. GOOSE NECK	TRM351-22	Goose neck(22°)
	TRM351-22L2	Goose neck(22° , extended)
	TRM351-45L2	Goose neck(45° , extended)
1-2. GOOSE NECK (Japanese type)	TRM351-P45L	Goose neck(Japanese type, 45° , extended)
	TRM351-P45L1	Goose neck(Japanese type, 45° , extended L1)



GOOSE NECK CONSUMABLES

Item	Order NO.	Product Description
A-1.NOZZLE	TRM012-14-50	L=70.0, A=φ13, B=φ24, contact tip flush
	TRM012-16-50	L=73.2, A=φ13, B=φ24, contact tip recess 3.2mm
	TRM012-18-50	L=66.8, A=φ13, B=φ24, contact tip stick out 3.2mm
	TRM012-14-62	L=70.0, A=φ16, B=φ24, contact tip flush
	TRM012-16-62	L=73.2, A=φ16, B=φ24, contact tip recess 3.2mm
	TRM012-18-62	L=66.8, A=φ16, B=φ24, contact tip stick out 3.2mm
A-2.CONTACT TIP	TRM035-02-08	CuCrZr, φ0.8 wire (Steel)
	TRM035-02-10	CuCrZr, φ1.0 wire (Steel)
	TRM035-02-12	CuCrZr, φ1.2 wire (Steel)
A-3.TIP HOLDER	TRM042-04	Brass
A-4.INSULATOR	TRM501-05R	



GOOSE NECK CONSUMABLES(JAPANESE STYLE)

Item	Order NO.	Product Description
B-1.NOZZLE	TMP012-3-16	L=73.0mm,A=φ16mm,B=φ20mm
	TMP012-3-13	L=73.0mm,A=φ13mm,B=φ20mm
	TMP012-3-12	L=73.0mm,A=φ12mm,B=φ20mm
	TMP012-3B-10	L=73.0mm,A=φ10mm,B=φ20mm
	TMP012-3B-12	L=73.0mm, A=φ12mm,B=φ20mm
B-2.CONTACT TIP	TMP030-2-R08	CuCrZr, φ0.8 wire (Steel)
	TMP030-2-R10	CuCrZr, φ1.0 wire (Steel)
	TMP030-2-R12	CuCrZr, φ1.2 wire (Steel)
B-3.GAS DIFFUSER	TMP040-3	Pink
B-4.SPRING WASHER	TMP041-3-2	
B-5.INSULATOR	TMPTFZ35101-LX	
B-6.TIP HOLDER	TMP053-1C	L=68.5, contact tip recess 3.0mm
	TMP053-2C	L=75.0, contact tip stick out 3.5mm
	TMP053-3C	L=71.5, contact tip flush

2.ANTI-COLLISION UNIT

Item	Order NO.	Product Description
2-1. COLLISION SENSOR	TRM313-01-N6	Suitable for 22°/45°/P45°L/P45°L1 standard goose neck
	TRM313-01-N10	Suitable for 22°L2/45°L2 etc.extended goose neck
2-2. MOUNT ARM	TRM216-045-351	Standard configuration; braking aperture 28mm
2-3. Flange	See P64-65 flange selection table	Including installed screws
2-4. SPRING LINE	3.5.11.0012	To connect collision sensor and torch

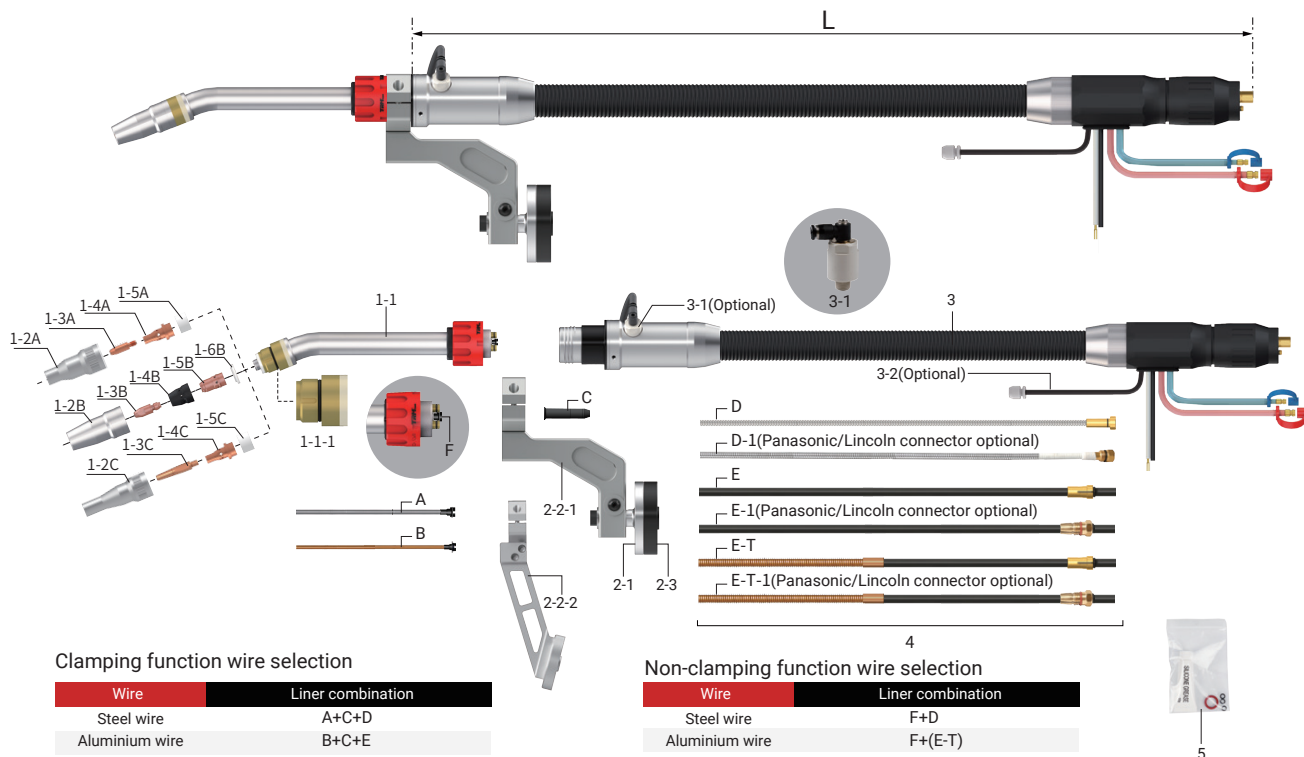
3.CABLE ASSEMBLY

Item	Order NO.	Product Description
3.Torch Cable(Including torch)	TRM351-HQ	Including torch and cable
3-1. Cable assembly	TRM351-DL	Cable assembly
	TRM150-08-23	One-piece, overall length 2.3m, (Steel) wire 0.8-0.9mm
3-2. LINER	TRM150-12-23	One-piece, overall length 2.3m, (Steel) wire 1.0-1.2mm
	TRM150-16-23	One-piece, overall length 2.3m, (Steel) wire 1.4-1.6mm
3-3. SIGNAL LINE	3.5.11.0015	To connect torch and robot

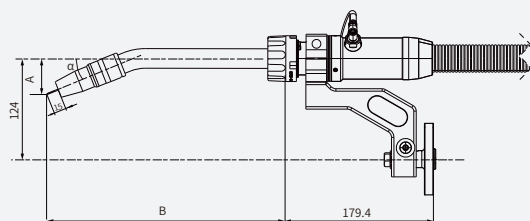
* If the cable length exceeds 2 metres, please contact sales in advance when ordering the length of the wire feeder tube.

Collaborative Robot Liquid Cooled Welding Torch TRM605WHD

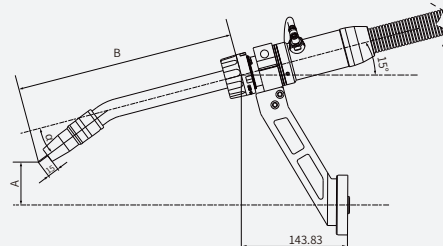
Rating 550A CO₂
500A mixed gases M21 (ISO 14175)
Duty cycle 100%



TCP DATA



α	A(mm)	B(mm)	Angle	Neck Part No.
22°	44.3	291.6	22°	550WTE51-22L240H023
22°	44.3	392.6	22°	550WTE51-22L341H023
22°	44.3	452.6	22°	550WTE51-22L401H023
22°	44.3	549.99	22°	550WTE51-22L499H023
36°	76.6	289.57	36°	550WTE51-36L245H044
36°	76.6	377.25	36°	550WTE51-36L333H044
36°	76.6	531.47	36°	550WTE51-36L487H044
45°	111.27	272.96	45°	550WTE51-45L234H073
45°	111.27	372.96	45°	550WTE51-45L334H073
45°	92.2	381.4	45°	550WTE51-45L371H053
45°	111.27	454.56	45°	550WTE51-45L416H073
45°	111.27	514.6	45°	550WTE51-45L476H073
45°	92.2	522.9	45°	550WTE51-45L512H053
180°	0	298.45	180°	550WTE51-180L243H0
180°	0	399.45	180°	550WTE51-180L344H0
22°	44.3	218.06	22°	550WTE51-22L167H023



α	A(mm)	B(mm)	Angle	Neck Part No.
22°	55.42	291.6	22°	550WTE51-22L240H023
22°	29.28	392.6	22°	550WTE51-22L341H023
22°	13.62	452.6	22°	550WTE51-22L401H023
22°	-11.72	549.99	22°	550WTE51-22L499H023
36°	24.42	289.57	36°	550WTE51-36L245H044
36°	1.73	377.25	36°	550WTE51-36L333H044
36°	-38.19	531.47	36°	550WTE51-36L487H044
45°	-5.1	272.96	45°	550WTE51-45L234H073
45°	-30.98	372.96	45°	550WTE51-45L334H073
45°	-0.43	381.4	45°	550WTE51-45L371H053
45°	-52.1	454.56	45°	550WTE51-45L416H073
45°	-67.99	514.6	45°	550WTE51-45L476H073
45°	-37.05	522.9	45°	550WTE51-45L512H053
180°	95.78	298.45	180°	550WTE51-180L243H0
180°	69.64	399.45	180°	550WTE51-180L344H0
22°	4.19	218.06	22°	550WTE51-22L167H023

Suitable Industries:

- > Construction Machinery Industry
- > Steel Structure Industry

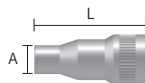
550A LIQUID COOLED ROBOT TORCH

ORDER GUIDE

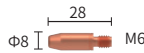
Item	Order NO.	Product Description
ROBOT TORCH	TRM605WHD -COLLABORATIVE ROBOT	Over-arm liquid cooled robot welding torch
		*Over-arm liquid cooled robot welding torch with wire-clamping cylinder function(Optional)
		*Over-arm liquid cooled robot welding torch with blow cleaning function(Optional)

1.TORCH NECK ASSEMBLY

Item	Order NO.	Product Description
1-1. GOOSE NECK	550WTE51-22L240H023	22°, standard, straight length 150mm
	550WTE51-22L341H023	22°, extended 101mm, straight length 251mm
	550WTE51-22L401H023	22°, extended 161mm, straight length 311mm
	550WTE51-22L499H023	22°, extended 259mm, straight length 409mm
	550WTE51-36L245H044	36°, standard, straight length 145mm
	550WTE51-36L333H044	36°, extended 88mm, straight length 233mm
	550WTE51-36L487H044	36°, extended 242mm, straight length 387mm
	550WTE51-45L234H073	45°, standard, straight length 117mm
	550WTE51-45L334H073	45°, extended 100mm, straight length 217mm
	550WTE51-45L371H053	45°, special type, straight length 244mm
	550WTE51-45L416H073	45°, extended 182mm, straight length 299mm
	550WTE51-45L476H073	45°, extended 242mm, straight length 359mm
	550WTE51-45L512H053	45°, special type, straight length 386mm
	550WTE51-180L243H0	Straight neck, total length 272mm
	550WTE51-180L344H0	Straight neck, total length 373mm
	550WTE51-22L167H023	22°, short neck, straight length 78mm
1-1-1. NOZZLE HOLDER	550WTE51-03-ZJ	With sealing ring
A. NECK LINER	TRM154-08-60	(Steel) wire $\Phi 0.8-0.9\text{mm}$
	TRM154-12-60	(Steel) wire $\Phi 1.0-1.2\text{mm}$
	TRM154-16-60	(Steel) wire $\Phi 1.4-1.6\text{mm}$
C. WIRE GUIDE BUSHING	TRM605W-061JS-19	Wire guide bushing($\Phi 0.8\text{mm}-\Phi 1.6\text{mm}$)
F. NECK LINER FITTING	TRM605W-22-22	



1-2A.NOZZLE



1-3A.CONTACT TIP



1-4A.TIP HOLDER



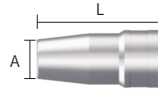
1-5A.INSULATOR

GOOSE NECK CONSUMABLES(M6)

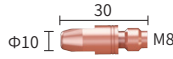
Item	Order NO.	Product Description
1-2A. NOZZLE	TRM015-62-14C	Tip flush(Nickel plating); L=63.5mm, A=14mm
	TRM015-61-13C	Tip recess(Nickel plating); L=65.5mm, A=13mm
1-3A. CONTACT TIP	TRM035-12-08	CuCrZr, $\Phi 0.8$ wire (Steel)
	TRM035-12-10	CuCrZr, $\Phi 1.0$ wire (Steel)
	TRM035-12-12	CuCrZr, $\Phi 1.2$ wire (Steel)
	TRM035-12-14	CuCrZr, $\Phi 1.4$ wire (Steel)
	TRM035-12-16	CuCrZr, $\Phi 1.6$ wire (Steel)
	TRM035-12-16	CuCrZr, $\Phi 1.6$ wire (Steel)
1-4A. TIP HOLDER	TRM046-05	M6 L=27mm, B=M12X1
1-5A. INSULATOR	550WTE51-16	Insulator (White)

Collaborative Robot Liquid Cooled Welding Torch TRM605WHD

Rating 550A CO₂
500A mixed gases M21 (ISO 14175)
Duty cycle 100%



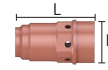
1-2B. NOZZLE



1-3B. CONTACT TIP



1-4B. GAS DIFFUSER



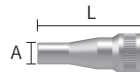
1-5B. TIP HOLDER



1-6B. INSULATOR

GOOSE NECK CONSUMABLES(M8)

Item	Order NO.	Product Description
1-2B. NOZZLE	TRM015-62-16C	Tip flush(Nickel plating); L=63.5mm, A=16mm
	TRM015-63-16C	Tip stick out(Nickel plating); L=60.5mm, A=16mm
	TRM015-62-14C	Tip flush(Nickel plating); L=63.5mm, A=14mm
	TRM015-61-17C	Tip recess(Nickel plating); L=65.5mm, A=17mm
1-3B. CONTACT TIP	TRM035-03-10	Φ1.0(Ultra long life)(Steel)
	TRM035-03-12	Φ1.2(Ultra long life)(Steel)
	TRM035-03-14	Φ1.4(Ultra long life)(Steel)
	TRM035-03-16	Φ1.6(Ultra long life)(Steel)
	TRM035-02-08	CuCrZr, Φ0.8 wire (Steel)
	TRM035-02-10	CuCrZr, Φ1.0 wire (Steel)
	TRM035-02-12	CuCrZr, Φ1.2 wire (Steel)
	TRM035-02-14	CuCrZr, Φ1.4 wire (Steel)
	TRM035-02-16	CuCrZr, Φ1.6 wire (Steel)
1-4B. GAS DIFFUSER	3.1.4.0845	Black
1-5B. TIP HOLDER	TRM046-04	M8 L=27mm, B=M12X1
1-6B. INSULATOR	550WTE51-15	Insulator (White)



1-2C. NOZZLE



1-3C. CONTACT TIP



1-4C. TIP HOLDER



1-5C. INSULATOR

GOOSE NECK CONSUMABLES(JAPANESE STYLE)

Item	Order NO.	Product Description
1-2C. NOZZLE	TRM015-82-13	Tip flush; L=80.9mm, A=Φ13mm, b=Φ30mm
1-3C. CONTACT TIP	TMP030-2-R08	CuCrZr, Φ0.8 wire (Steel)
	TMP030-2-R10	CuCrZr, Φ1.0 wire (Steel)
	TMP030-2-R12	CuCrZr, Φ1.2 wire (Steel)
	TMP030-2-R14	CuCrZr, Φ1.4 wire (Steel)
	TMP030-2-R16	CuCrZr, Φ1.6 wire (Steel)
1-4C. TIP HOLDER	TRM046-05	M6 L=27mm, B=M12X1
1-5C. INSULATOR	550WTE51-16	Insulator (White)

2.ANTI-COLLISION UNIT

Item	Order NO.	Product Description
2-1.CONNECTING FLANGE	TRM313-00	Suitable for connections without collision sensor
2-2-1.L TYPE MOUNT ARM	TRM215-045-105	Standard configuration; braking aperture 44mm
2-2-2.MOUNT ARM	TRM215-S060-L119	Optional
2-3. FLANGE	See P64-65 flange selection table	Including installed screws

3.CABLE ASSEMBLY

Item	Order NO.	Product Description
3. CABLE ASSEMBLY	TRM605W-DL	Liquid cooled cable assembly(Optional wire brake function)
3-1. WIRE CLAMP CYLINDER(Optional)	TRM602W-061JS-QG	Wire brake cylinder (Component)
3-2. BLOW CLEANING FUNCTION(Optional)	Refer to 3-2 in the welding torch diagram	

Suitable Industries:

- > Construction Machinery Industry
- > Steel Structure Industry

550A LIQUID COOLED ROBOT TORCH

4.LINER OPTIONAL COMBINATION

Item	Order NO.	Product Description
D. LINER(Euro type)	TRM152B-08-23	(Steel) wire Φ0.8-0.9mm
	TRM152B-12-23	(Steel) wire Φ1.0-1.2mm
	TRM152B-16-23	(Steel) wire Φ1.4-1.6mm
D-1. LINER (Panasonic/Lincoln connector optional)	TRM150-08-23	(steel) wire Φ0.8-0.9mm
	TRM150-12-23-WP	(steel) wire Φ1.0-1.2mm
	TRM150-16-23-WP	(steel) wire Φ1.4-1.6mm

* If the cable length exceeds 2 metres, please contact sales in advance when ordering the length of the wire feeder tube.

5.ACCESSORY BAG

Item	Order NO.	Product Description
5. ACCESSORY BAG	TRM-AP-WT	Including seal and grease on goose necks and connectors

ALUMINUM LINER CONFIGURATION

Item	Order NO.	Product Description
1-3A. CONTACT TIP(M6)	TRM035-12-08A	CuCrZr, Φ0.8 wire (Aluminium)
	TRM035-12-10A	CuCrZr, Φ1.0 wire (Aluminium)
	TRM035-12-12A	CuCrZr, Φ1.2 wire (Aluminium)
	TRM035-12-14A	CuCrZr, Φ1.4 wire (Aluminium)
	TRM035-12-16A	CuCrZr, Φ1.6 wire (Aluminium)
	TRM035-11-08A	Copper, Φ0.8 wire (Aluminium)
	TRM035-11-10A	Copper, Φ1.0 wire (Aluminium)
	TRM035-11-12A	Copper, Φ1.2 wire (Aluminium)
	TRM035-11-14A	Copper, Φ1.4 wire (Aluminium)
	TRM035-11-16A	Copper, Φ1.6 wire (Aluminium)
1-3B. CONTACT TIP(M8)	TRM035-02-08A	CuCrZr, Φ0.8mm wire (Aluminium)
	TRM035-02-10A	CuCrZr, Φ1.0mm wire (Aluminium)
	TRM035-02-12A	CuCrZr, Φ1.2mm wire (Aluminium)
	TRM035-02-14A	CuCrZr, Φ1.4mm wire (Aluminium)
	TRM035-02-16A	CuCrZr, Φ1.6mm wire (Aluminium)
1-3C. CONTACT TIP(Japanese style)	TMP030-2-R10	CuCrZr, Φ0.8 wire (Aluminium)
	TMP030-2-R12	CuCrZr, Φ1.0 wire (Aluminium)
	TMP030-2-R14	CuCrZr, Φ1.2wire (Aluminium)
B. NECK LINER	TRM154-08A-XX	(Aluminium) wire Φ0.8-0.9mm
	TRM154-12A-XX	(Aluminium) wire Φ1.0-1.2mm
	TRM154-16A-XX	(Aluminium) wire Φ1.4-1.6mm
C. WIRE GUIDE BUSHING	TRM605W-061JS-19	Wire guide bushing(Φ0.8mm-Φ1.6mm)
F. NECK LINER FITTING	TRM605W-22-22	
E. LINER(Euro type)	TRM153B-08A-23	(Aluminium) wire Φ0.8-0.9mm
	TRM153B-12A-23	(Aluminium) wire Φ1.0-1.2mm
	TRM153B-16A-23	(Aluminium) wire Φ1.4-1.6mm
E-1. LINER (Panasonic/Lincoln connector optional)	TRM150N-08A-23	(Aluminium) wire Φ0.8-0.9mm
	TRM150N-12A-23	(Aluminium) wire Φ1.0-1.2mm
	TRM150N-16A-23	(Aluminium) wire Φ1.4-1.6mm
E-T. LINER(Euro type)	TRM152B-10A-18	(Aluminium) wire Φ0.8-0.9mm
	TRM152B-12A-18	(Aluminium) wire Φ1.0-1.2mm
	TRM152B-16A-18	(Aluminium) wire Φ1.4-1.6mm
E-T-1. LINER (Panasonic/Lincoln connector optional)	TRM150P-08A-23	(Aluminium) wire Φ0.8-0.9mm
	TRM150P-12A-23	(Aluminium) wire Φ1.0-1.2mm
	TRM150P-16A-23	(Aluminium) wire Φ1.4-1.6mm

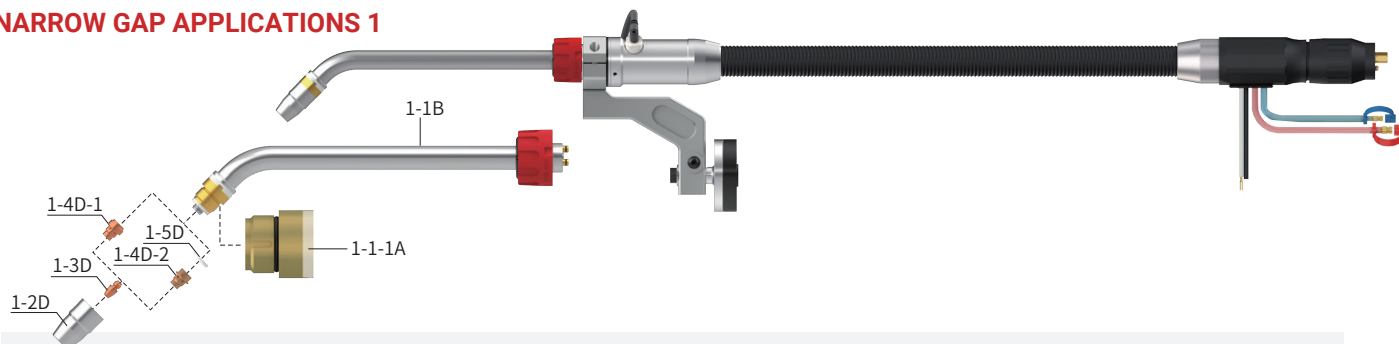
* If the cable length exceeds 2 metres, please contact sales in advance when ordering the length of the wire feeder tube.

Collaborative Robot Liquid Cooled Welding Torch TRM605WHD

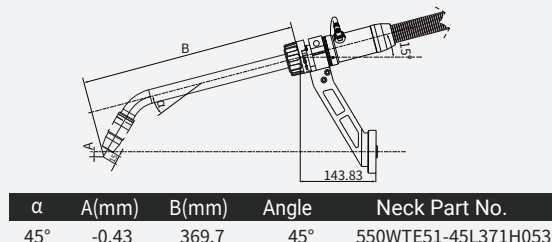
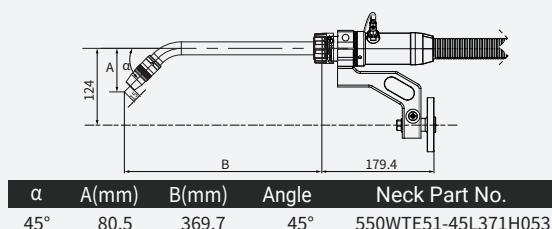
Rating 550A CO₂
500A mixed gases M21 (ISO 14175)
Duty cycle 100%

NARROW GAP APPLICATIONS

NARROW GAP APPLICATIONS 1



TCP DATA

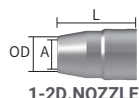


TORCH NECK ASSEMBLY

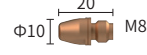
Item	Order NO.	Product Description
1-1B. GOOSE NECK	550WTE51-45L371H053	45°, special type, straight length 244mm, for narrow gaps
1-1-1A. NOZZLE HOLDER	550WTE51-03-ZJ	With sealing ring

GOOSE NECK CONSUMABLES

(M8 SHORT NOZZLE STANDARD CONFIGURATION)



1-2D.NOZZLE



1-3D.CONTACT TIP

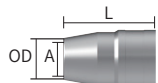


1-4D-1.TIP HOLDER ASSEMBLY

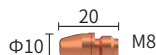
Item	Order NO.	Product Description
1-2D. NOZZLE	TRM015-72-16C	Tip flush; L=47mm, A=16mm
	TRM035-62-08	CuCrZr, Φ 0.8 wire (Steel)
1-3D. CONTACT TIP	TRM035-62-10	CuCrZr, Φ 1.0 wire (Steel)
	TRM035-62-12	CuCrZr, Φ 1.2 wire (Steel)
	TRM035-62-14	CuCrZr, Φ 1.4 wire (Steel)
	TRM035-62-10A	CuCrZr, Φ 1.0 wire (Aluminium)
	TRM035-62-12A	CuCrZr, Φ 1.2 wire (Aluminium)
1-4D-1. TIP HOLDER ASSEMBLY	TRM046-06	M8 L=18.5mm, B=M12X1

GOOSE NECK CONSUMABLES

(M8 SHORT NOZZLE HEAVY LOAD CONFIGURATION)



1-2D.NOZZLE



1-3D.CONTACT TIP



1-4D-2.TIP HOLDER ASSEMBLY



1-5D.INSULATOR

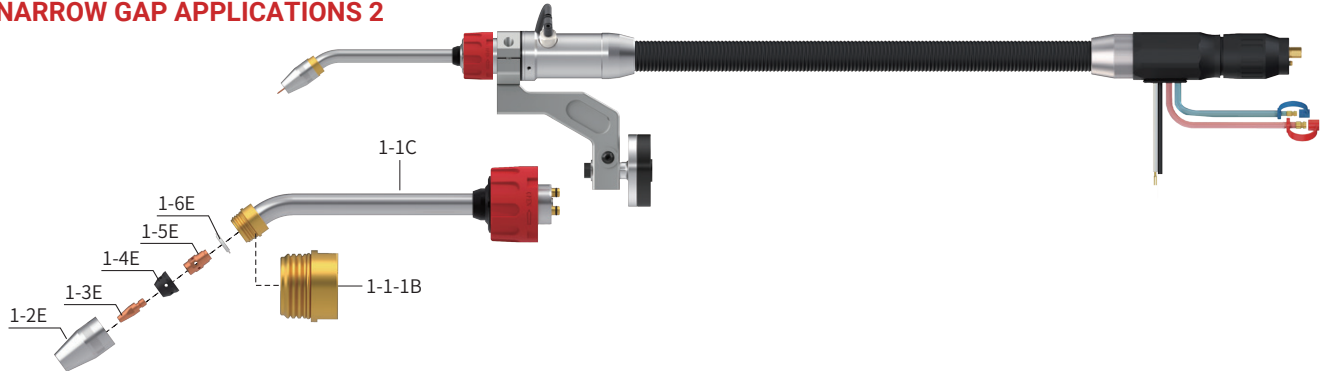
Item	Order NO.	Product Description
1-2D. NOZZLE	TRM015-72-16C	Tip flush; L=47mm, A=16mm
	TRM035-62-08	CuCrZr, Φ 0.8 wire (Steel)
1-3D. CONTACT TIP	TRM035-62-10	CuCrZr, Φ 1.0 wire (Steel)
	TRM035-62-12	CuCrZr, Φ 1.2 wire (Steel)
	TRM035-62-14	CuCrZr, Φ 1.4 wire (Steel)
	TRM035-62-10A	CuCrZr, Φ 1.0 wire (Aluminium)
	TRM035-62-12A	CuCrZr, Φ 1.2 wire (Aluminium)
1-4D-2. TIP HOLDER ASSEMBLY	TRM046-06-HD	M8 L=18.5mm, B=M12X1
1-5D. INSULATOR	550WTE51-15	Insulator (White)

Suitable Industries:

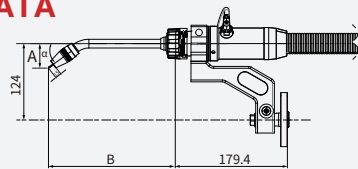
- > Construction Machinery Industry
- > Steel Structure Industry

550A LIQUID COOLED ROBOT TORCH

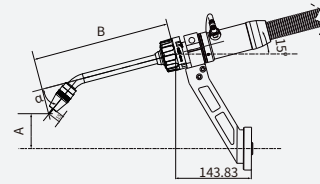
NARROW GAP APPLICATIONS 2



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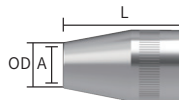
α	A(mm)	B(mm)	Angle	Neck Part No.
36°	46	239.7	36°	550WTE31-36
36°	46	324.7	36°	550WTE31-36L



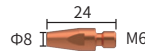
α	A(mm)	B(mm)	Angle	Neck Part No.
36°	46	239.7	36°	550WTE31-36
36°	46	324.7	36°	550WTE31-36L

TORCH NECK ASSEMBLY

Item	Order NO.	Product Description
1-1C. GOOSE NECK	550WTE31-36	Goose neck (36°)
	550WTE31-36L	Goose neck (36°, extended 85mm)
1-1-1B. NOZZLE HOLDER	550WTE31-04-ZJ	With sealing ring



1-2E.NOZZLE



1-3E.CONTACT TIP



1-4E.GAS DIFFUSER



1-5E.TIP HOLDER



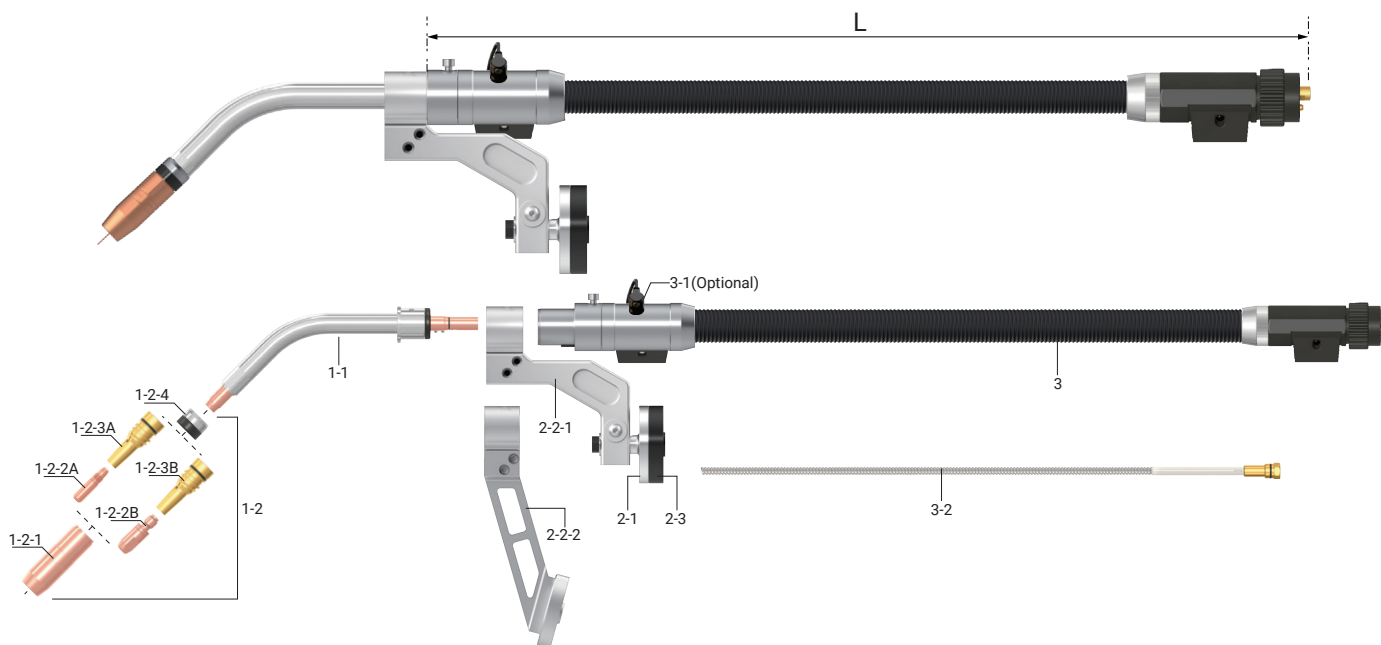
1-6E.INSULATOR

GOOSE NECK CONSUMABLES(M6)

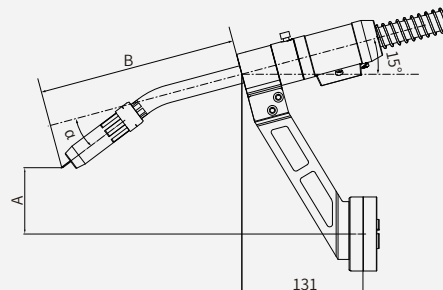
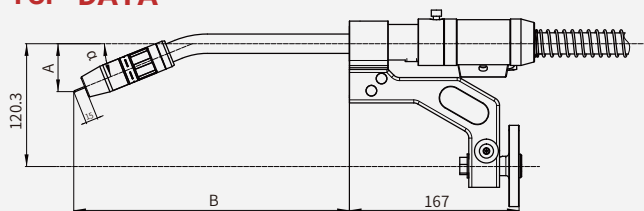
Item	Order NO.	Product Description
1-2E. NOZZLE	TRM015-93-13C	Tip recess,L=41.3mm,A=Φ13mm,B=Φ25mm
	TRM035-31-08	CuCrZr,Φ0.8 wire(Steel)
	TRM035-31-10	CuCrZr,Φ1.0 wire (Steel)
	TRM035-31-12	CuCrZr,Φ1.2 wire (Steel)
	TRM035-31-14	CuCrZr,Φ1.4 wire (Steel)
	TRM035-31-16	CuCrZr,Φ1.6 wire (Steel)
1-3E. CONTACT TIP	TRM035-31-08A	CuCrZr,Φ0.8mm wire (Aluminium)
	TRM035-31-10A	CuCrZr,Φ1.0mm wire (Aluminium)
	TRM035-31-12A	CuCrZr,Φ1.2mm wire (Aluminium)
	TRM035-31-16A	CuCrZr,Φ1.6mm wire (Aluminium)
1-4E. GAS DIFFUSER	TRM028-04	BLACK
1-5E. TIP HOLDER	TRM048-01	M6, L=20mm, B=10×1.25
1-6E. INSULATOR	550WTE31-08	Insulator (White)

Collaborative Robot Air Cooled Welding Torch TRM501

Rating 500A CO₂
350A mixed gases M21 (ISO 14175)
Duty cycle 100%



TCP DATA



α	A(mm)	B(mm)	Angle	Neck Part No.
22°	47.2	214.15	22°	TRM501-22
22°	47.15	271.25	22°	TRM501-22L
45°	100.97	166.39	45°	TRM501-45
45°	120.95	213.3	45°	TRM501-45L
45°	120.95	268.3	45°	TRM501-45L1
45°	120.95	318.3	45°	TRM501-45L2
60°	134.48	164.4	60°	TRM501-60
180°	0	201.52	180°	TRM501-180

α	A(mm)	B(mm)	Angle	Neck Part No.
22°	72.5	214.15	22°	TRM501-22
22°	57.5	271.25	22°	TRM501-22L
45°	32.8	166.39	45°	TRM501-45
45°	1.3	213.3	45°	TRM501-45L
45°	-12.8	268.3	45°	TRM501-45L1
45°	25.8	318.3	45°	TRM501-45L2
60°	1	164.4	60°	TRM501-60
180°	121	201.52	180°	TRM501-180

ORDER GUIDE

Item	Order NO.	Product Description
ROBOT TORCH	TRM501-COLLABORATIVE ROBOT	Over-arm air cooled robot welding torch(Optional wire brake function)

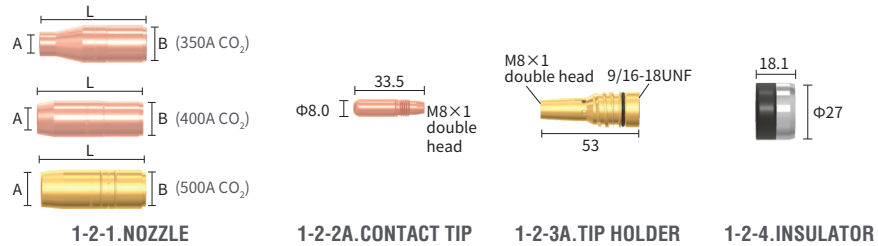
1.TORCH NECK ASSEMBLY

Item	Order NO.	Product Description
1-1.GOOSE NECK	TRM501-22	Goose neck(22°,one button quick change)
	TRM501-22L	Goose neck(22° , extended, one button quick change)
	TRM501-45	Goose neck(45°,one button quick change)
	TRM501-45L	Goose neck(45° , extended, one button quick change)
	TRM501-45L1	Goose neck(45° , extended, one button quick change)
	TRM501-45L2	Goose neck(45° , extended, one button quick change)
	TRM501-60	Goose neck(60° ,one button quick change)
	TRM501-180	Goose neck(180° ,one button quick change)

Suitable Industries:

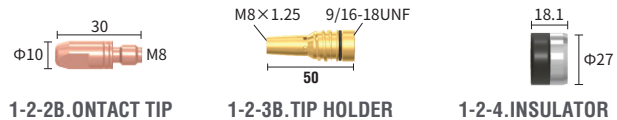
- > Automotive Industry
- > Container Industry

500A AIR COOLED ROBOT TORCH



GOOSE NECK CONSUMABLES

Item	Order NO.	Product Description
1-2-1.NOZZLE	TRM012-14-50	L=70.0, A=Φ13, B=Φ24, contact tip flush
	TRM012-16-50	L=73.2, A=Φ13, B=Φ24, contact tip recess 3.2mm
	TRM012-18-50	L=66.8, A=Φ13, B=Φ24, contact tip stick out 3.2mm
	TRM012-14-62	L=70.0, A=Φ16, B=Φ24, contact tip flush
	TRM012-16-62	L=73.2, A=Φ16, B=Φ24, contact tip recess 3.2mm
	TRM012-18-62	L=66.8, A=Φ16, B=Φ24, contact tip stick out 3.2mm
	TRM012-26-B75	L=73.2, A=Φ19, B=Φ27, contact tip recess 3.2mm, brass shell
	TRM012-24-62	L=70.0, A=Φ16, B=Φ27, contact tip flush, copper shell
	TRM012-26-62	L=73.2, A=Φ16, B=Φ27, contact tip recess 3.2mm, copper shell
1-2-2A.CONTACT TIP	TRM012-28-62	L=66.8, A=Φ16, B=Φ27, contact tip stick out 3.2mm, copper shell
	TRM032-2-R08	CuCrZr, Φ0.8 wire (Steel)
	TRM032-2-R09	CuCrZr, Φ0.9 wire (Steel)
	TRM032-2-R10	CuCrZr, Φ1.0 wire (Steel)
	TRM032-2-R12	CuCrZr, Φ1.2 wire (Steel)
	TRM032-2-R12-A	CuCrZr, Φ1.2 wire (Steel)(Ultra long life)
	TRM032-2-R14	CuCrZr, Φ1.4 wire (Steel)
1-2-3A.TIP HOLDER	TRM032-2-R16	CuCrZr, Φ1.6 wire (Steel)
1-2-4.INSULATOR	TRM042-01	Brass
	TRM501-05R	



GOOSE NECK CONSUMABLES(EURO SERIES)

Item	Order NO.	Product Description
1-2-2B.CONTACT TIP	TRM035-02-08	CuCrZr, Φ0.8 wire (Steel)
	TRM035-02-10	CuCrZr, Φ1.0 wire (Steel)
	TRM035-02-12	CuCrZr, Φ1.2 wire (Steel)
	TRM035-02-14	CuCrZr, Φ1.4 wire (Steel)
	TRM035-02-16	CuCrZr, Φ1.6 wire (Steel)
1-2-3B.TIP HOLDER	TRM042-04	Brass
1-2-4.INSULATOR	TRM501-05R	

2.ANTI-COLLISION UNIT

Item	Order NO.	Product Description
2-1.CONNECTING FLANGE	TRM313-00	Suitable for connections without collision sensor
2-2-1.MOUNT ARM	TRM216-045-105	Standard configuration; braking aperture 35mm
2-2-2.MOUNT ARM	TRM216-S060-L130	Optional
2-3.Flange	See P64-65 flange selection table	Including installed screws

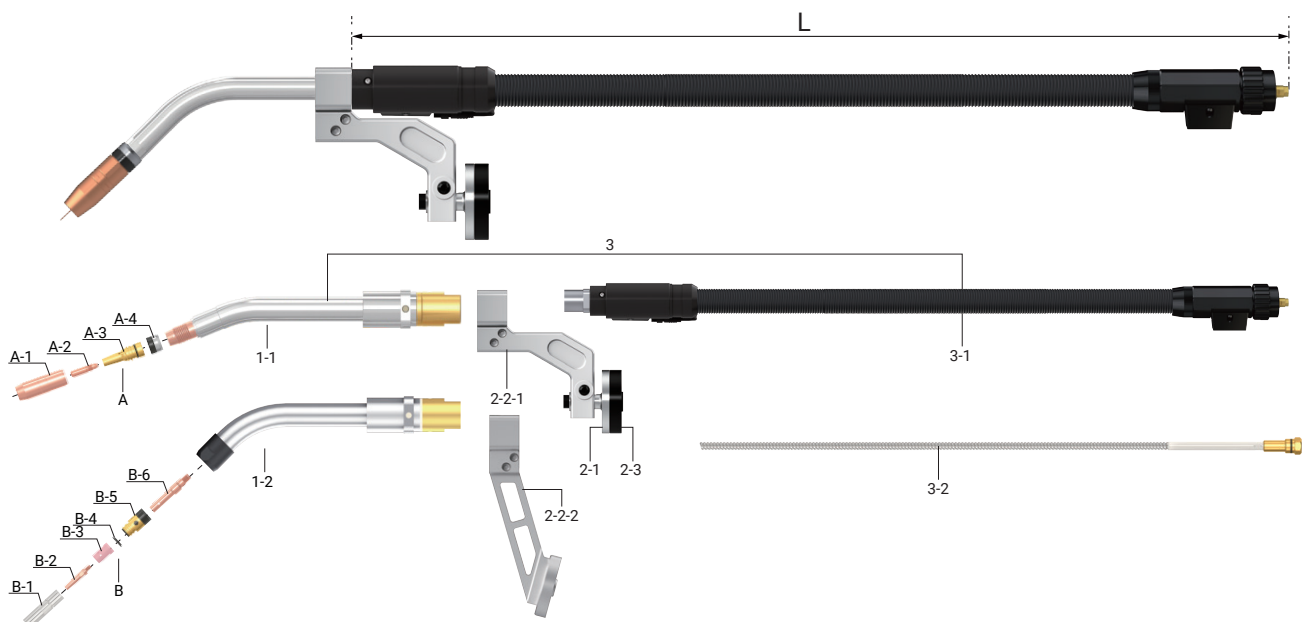
3.CABLE ASSEMBLY

Item	Order NO.	Product Description
3. CABLE ASSEMBLY	TRM501-DL	Cable assembly(Optional wire brake function)
3-1. WIRE BRAKE CYLINDER(Optional)	TRM501-061JS-1-QG	Wire brake cylinder (Component)
3-2. LINER	TRM150-08-23	One-piece, overall length 2.3m, (Steel) wire 0.8-0.9mm
	TRM150-12-23	One-piece, overall length 2.3m, (Steel) wire 1.0-1.2mm
	TRM150-16-23	One-piece, overall length 2.3m, (Steel) wire 1.4-1.6mm

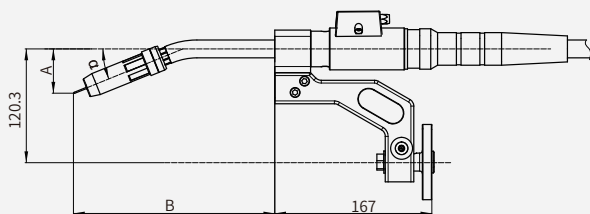
* If the cable length exceeds 2 metres, please contact sales in advance when ordering the length of the wire feeder tube.

Collaborative Robot Air Cooled Welding Torch TRM351(P)

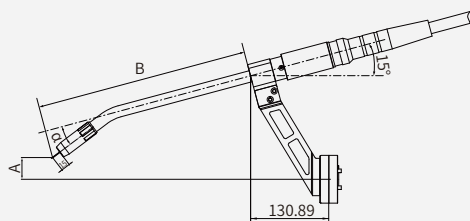
Rating 350A CO₂
270A mixed gases M21 (ISO 14175)
Duty cycle 100%



TCP DATA(TRM351)

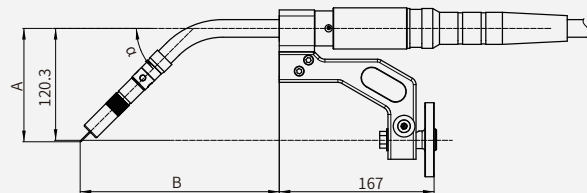


α	A(mm)	B(mm)	Angle	Neck Part No.
22°	46.8	213.3	22°	TRM351-22
22°	46.78	358	22°	TRM351-22L2
45°	120.3	317.9	45°	TRM351-45L2

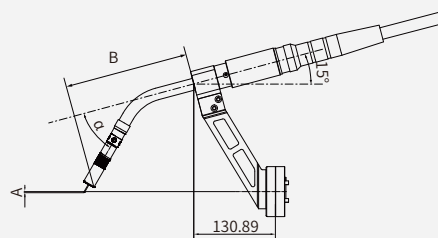


α	A(mm)	B(mm)	Angle	Neck Part No.
22°	72.7	194.2	22°	TRM351-22
22°	35.3	333.6	22°	TRM351-22L2
45°	-25.3	276	45°	TRM351-45L2

TCP DATA(TRM351P)



α	A(mm)	B(mm)	Angle	Neck Part No.
45°	120	216.76	45°	TRM351-P45L
45°	120	274.86	45°	TRM351-P45L1



α	A(mm)	B(mm)	Angle	Neck Part No.
45°	2.1	174.5	45°	TRM351-P45L
45°	-12.9	230.5	45°	TRM351-P45L1

ORDER GUIDE

Item	Order NO.	Product Description
ROBOT TORCH	TRM351-COLLABORATIVE ROBOT	Over-arm air cooled robot welding torch

350A AIR COOLED ROBOT TORCH

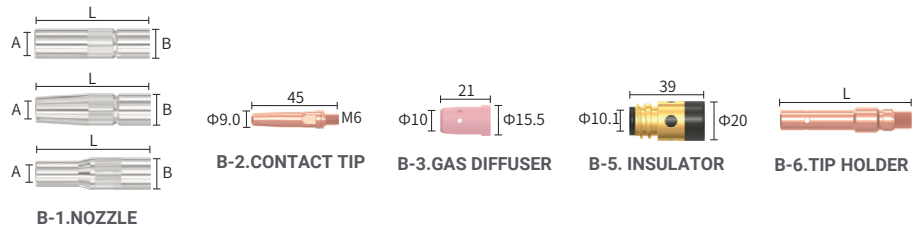
1.TORCH NECK ASSEMBLY

Item	Order NO.	Product Description
1-1. GOOSE NECK	TRM351-22	Goose neck(22°)
	TRM351-22L2	Goose neck(22° , extended)
	TRM351-45L2	Goose neck(45° , extended)
1-2. GOOSE NECK (Japanese type)	TRM351-P45L	Goose neck(Japanese type, 45° , extended)
	TRM351-P45L1	Goose neck(Japanese type, 45° , extended L1)



GOOSE NECK CONSUMABLES

Item	Order NO.	Product Description
A-1.NOZZLE	TRM012-14-50	L=70.0, A=φ13, B=φ24, contact tip flush
	TRM012-16-50	L=73.2, A=φ13, B=φ24, contact tip recess 3.2mm
	TRM012-18-50	L=66.8, A=φ13, B=φ24, contact tip stick out 3.2mm
	TRM012-14-62	L=70.0, A=φ16, B=φ24, contact tip flush
	TRM012-16-62	L=73.2, A=φ16, B=φ24, contact tip recess 3.2mm
	TRM012-18-62	L=66.8, A=φ16, B=φ24, contact tip stick out 3.2mm
A-2.CONTACT TIP	TRM035-02-08	CuCrZr, φ0.8 wire (Steel)
	TRM035-02-10	CuCrZr, φ1.0 wire (Steel)
	TRM035-02-12	CuCrZr, φ1.2 wire (Steel)
A-3.TIP HOLDER	TRM042-04	Brass
A-4.INSULATOR	TRM501-05R	



GOOSE NECK CONSUMABLES(JAPANESE STYLE)

Item	Order NO.	Product Description
B-1.NOZZLE	TMP012-3-16	L=73.0mm, A=φ16mm, B=φ20mm
	TMP012-3-13	L=73.0mm, A=φ13mm, B=φ20mm
	TMP012-3-12	L=73.0mm, A=φ12mm, B=φ20mm
	TMP012-3B-10	L=73.0mm, A=φ10mm, B=φ20mm
	TMP012-3B-12	L=73.0mm, A=φ12mm, B=φ20mm
B-2.CONTACT TIP	TMP030-2-R08	CuCrZr, φ0.8 wire (Steel)
	TMP030-2-R10	CuCrZr, φ1.0 wire (Steel)
	TMP030-2-R12	CuCrZr, φ1.2 wire (Steel)
B-3.GAS DIFFUSER	TMP040-3	Pink
B-4.SPRING WASHER	TMP041-3-2	
B-5.INSULATOR	TMP042-35101-LX	
B-6.TIP HOLDER	TMP053-1C	L=68.5, contact tip recess 3.0mm
	TMP053-2C	L=75.0, contact tip stick out 3.5mm
	TMP053-3C	L=71.5, contact tip flush

2.ANTI-COLLISION UNIT

Item	Order NO.	Product Description
2-1.CONNECTING FLANGE	TRM313-00	Suitable for connections without collision sensor
2-2-1.MOUNT ARM	TRM216-045-351	Standard configuration; braking aperture 28mm
2-2-2.MOUNT ARM	TRM216-S060-L130-351	Optional
2-3.Flange	See P64-65 flange selection table	Including installed screws

3.CABLE ASSEMBLY

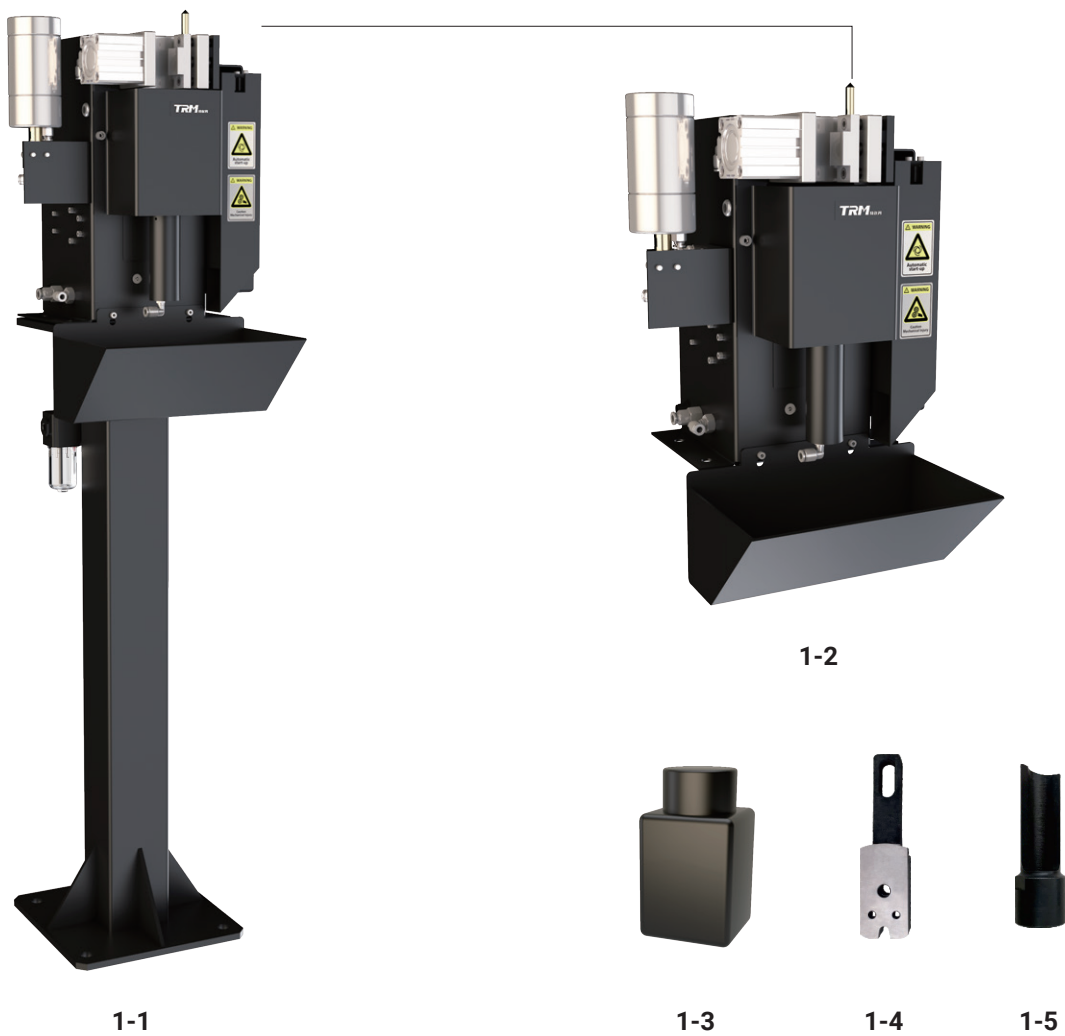
Item	Order NO.	Product Description
3.Torch Cable(Including torch)	TRM351-HQ	Including torch and cable
3-1. Cable assembly	TRM351-DL	Cable assembly
3-2. LINER	TRM150-08-23	One-piece, overall length 2.3m, (Steel) wire 0.8-0.9mm
	TRM150-12-23	One-piece, overall length 2.3m, (Steel) wire 1.0-1.2mm
	TRM150-16-23	One-piece, overall length 2.3m, (Steel) wire 1.4-1.6mm

* If the cable length exceeds 2 metres, please contact sales in advance when ordering the length of the wire feeder tube.

Pneumatic Cleaning Station SC221A

Wire cutting ability Solid wire: max1.6mm
 Flux-cored wire: max 3.2mm

Pneumatic motor About 650rpm / maximum torque 9N.m



ORDER GUIDE

1-1.PNEUMATIC CLEANING STATION

Order NO.	Product Description
SC221A-Z2	Used for robot torch to remove spatters and cut off excessive welding wire(Height 1090mm)

1-2.PNEUMATIC CLEANING STATION

Order NO.	Product Description
SC221A	Used for robot torch to remove spatters and cut off excessive welding wire(Height 347mm)

Suitable Industries:

- > Automotive Industry
- > Construction Machinery Industry

PNEUMATIC CLEANING STATION



1-3.ANTI-SPATTER LIQUID

Order NO.	Product Description
SC221A-PS	Anti-spatter liquid 250ml
SC200A-PS	Anti-spatter liquid 500ml



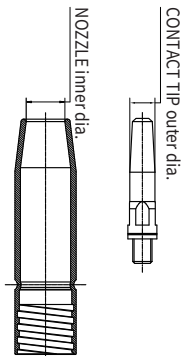
1-4.WIRE CUTTER

Order NO.	Product Description
SC200A-JS	Cut off excessive welding wire



1-5.REAMER

Order NO.	Product Description
ANC-0907-40	Suitable for nozzle inner dia. 10, contact tip outer dia. 6
ANC-1007-40	Suitable for nozzle inner dia. 11, contact tip outer dia. 6
ANC-1107-40	Suitable for nozzle inner dia. 12, contact tip outer dia. 6
ANC-1207-40	Suitable for nozzle inner dia. 13, contact tip outer dia. 6
ANC-1209-40	Suitable for nozzle inner dia. 13, contact tip outer dia. 8
ANC-1309-40	Suitable for nozzle inner dia. 14, contact tip outer dia. 8
ANC-1409-40	Suitable for nozzle inner dia. 15, contact tip outer dia. 8
ANC-1509-40	Suitable for nozzle inner dia. 16, contact tip outer dia. 8
ANC-1210-40	Suitable for nozzle inner dia. 13, contact tip outer dia. 9
ANC-1310-40	Suitable for nozzle inner dia. 14, contact tip outer dia. 9
ANC-1410-40	Suitable for nozzle inner dia. 15, contact tip outer dia. 9
ANC-1510-40	Suitable for nozzle inner dia. 16, contact tip outer dia. 9
ANC-1411-40	Suitable for nozzle inner dia. 15, contact tip outer dia. 10
ANC-1511-40	Suitable for nozzle inner dia. 16, contact tip outer dia. 10
ANC-1611-40	Suitable for nozzle inner dia. 17, contact tip outer dia. 10
ANC-1711-40	Suitable for nozzle inner dia. 18, contact tip outer dia. 10
ANC-1713-40	Suitable for nozzle inner dia. 18, contact tip outer dia. 12
ANC-1813-40	Suitable for nozzle inner dia. 19, contact tip outer dia. 12
ANC-1913-40	Suitable for nozzle inner dia. 20, contact tip outer dia. 12

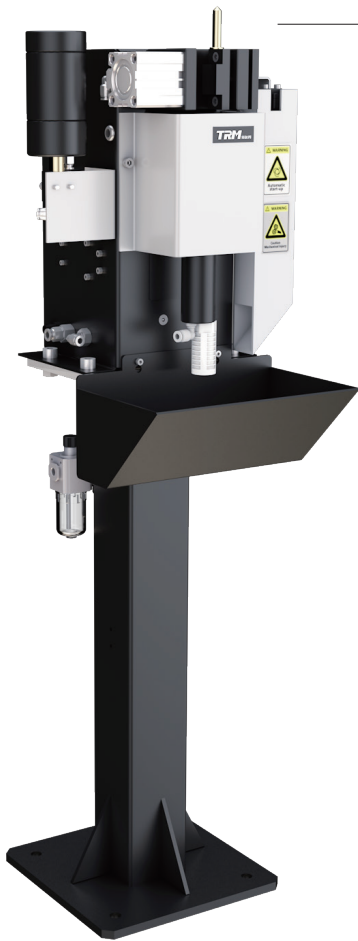


*For more reamer model, please contact our sales staff.

Pneumatic Cleaning Station SC220A SE

Wire cutting ability Solid wire: max1.6mm
Flux-cored wire: max 3.2mm

Pneumatic motor About 650rpm / maximum torque 8N.m



1-1



1-2



1-3



1-4



1-5

ORDER GUIDE

1-1.PNEUMATIC CLEANING STATION

Order NO.	Product Description
SC220ASE-Z2	Used for robot torch to remove spatters and cut off excessive welding wire(Height 1070mm)

1-2.PNEUMATIC CLEANING STATION

Order NO.	Product Description
SC220ASE	Used for robot torch to remove spatters and cut off excessive welding wire(Height 330mm)



1-3.ANTI-SPATTER LIQUID

Order NO.	Product Description
SC221A-PS	Anti-spatter liquid 250ml
SC200A-PS	Anti-spatter liquid 500ml



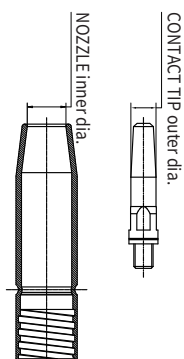
1-4.WIRE CUTTER

Order NO.	Product Description
SC200A-JS	Cut off excessive welding wire



1-5.REAMER

Order NO.	Product Description
ANC-0907-40	Suitable for nozzle inner dia. 10, contact tip outer dia. 6
ANC-1007-40	Suitable for nozzle inner dia. 11, contact tip outer dia. 6
ANC-1107-40	Suitable for nozzle inner dia. 12, contact tip outer dia. 6
ANC-1207-40	Suitable for nozzle inner dia. 13, contact tip outer dia. 6
ANC-1209-40	Suitable for nozzle inner dia. 13, contact tip outer dia. 8
ANC-1309-40	Suitable for nozzle inner dia. 14, contact tip outer dia. 8
ANC-1409-40	Suitable for nozzle inner dia. 15, contact tip outer dia. 8
ANC-1509-40	Suitable for nozzle inner dia. 16, contact tip outer dia. 8
ANC-1210-40	Suitable for nozzle inner dia. 13, contact tip outer dia. 9
ANC-1310-40	Suitable for nozzle inner dia. 14, contact tip outer dia. 9
ANC-1410-40	Suitable for nozzle inner dia. 15, contact tip outer dia. 9
ANC-1510-40	Suitable for nozzle inner dia. 16, contact tip outer dia. 9
ANC-1411-40	Suitable for nozzle inner dia. 15, contact tip outer dia. 10
ANC-1511-40	Suitable for nozzle inner dia. 16, contact tip outer dia. 10
ANC-1611-40	Suitable for nozzle inner dia. 17, contact tip outer dia. 10
ANC-1711-40	Suitable for nozzle inner dia. 18, contact tip outer dia. 10
ANC-1713-40	Suitable for nozzle inner dia. 18, contact tip outer dia. 12
ANC-1813-40	Suitable for nozzle inner dia. 19, contact tip outer dia. 12
ANC-1913-40	Suitable for nozzle inner dia. 20, contact tip outer dia. 12



*For more reamer model, please contact our sales staff.

Pneumatic Cleaning Station SC230A SE

Wire cutting ability Solid wire: max1.6mm
Flux-cored wire: max 3.2mm

Pneumatic motor About 650rpm / maximum torque 8N.m



1-1



1-2



1-3



1-4



1-5

ORDER GUIDE

1-1.PNEUMATIC CLEANING STATION

Order NO.	Product Description
SC230ASE-Z2	Used for robot torch to remove spatters and cut off excessive welding wire(Height 1090mm)

1-2.PNEUMATIC CLEANING STATION

Order NO.	Product Description
SC230ASE	Used for robot torch to remove spatters and cut off excessive welding wire(Height 347mm)



1-3.ANTI-SPATTER LIQUID

Order NO.	Product Description
SC221A-PS	Anti-spatter liquid 250ml
SC200A-PS	Anti-spatter liquid 500ml



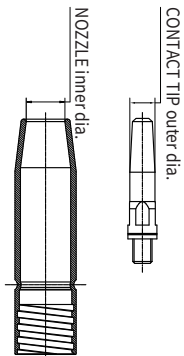
1-4.WIRE CUTTER

Order NO.	Product Description
SC200A-JS	Cut off excessive welding wire



1-5.REAMER

Order NO.	Product Description
ANC-0907-40	Suitable for nozzle inner dia. 10, contact tip outer dia. 6
ANC-1007-40	Suitable for nozzle inner dia. 11, contact tip outer dia. 6
ANC-1107-40	Suitable for nozzle inner dia. 12, contact tip outer dia. 6
ANC-1207-40	Suitable for nozzle inner dia. 13, contact tip outer dia. 6
ANC-1209-40	Suitable for nozzle inner dia. 13, contact tip outer dia. 8
ANC-1309-40	Suitable for nozzle inner dia. 14, contact tip outer dia. 8
ANC-1409-40	Suitable for nozzle inner dia. 15, contact tip outer dia. 8
ANC-1509-40	Suitable for nozzle inner dia. 16, contact tip outer dia. 8
ANC-1210-40	Suitable for nozzle inner dia. 13, contact tip outer dia. 9
ANC-1310-40	Suitable for nozzle inner dia. 14, contact tip outer dia. 9
ANC-1410-40	Suitable for nozzle inner dia. 15, contact tip outer dia. 9
ANC-1510-40	Suitable for nozzle inner dia. 16, contact tip outer dia. 9
ANC-1411-40	Suitable for nozzle inner dia. 15, contact tip outer dia. 10
ANC-1511-40	Suitable for nozzle inner dia. 16, contact tip outer dia. 10
ANC-1611-40	Suitable for nozzle inner dia. 17, contact tip outer dia. 10
ANC-1711-40	Suitable for nozzle inner dia. 18, contact tip outer dia. 10
ANC-1713-40	Suitable for nozzle inner dia. 18, contact tip outer dia. 12
ANC-1813-40	Suitable for nozzle inner dia. 19, contact tip outer dia. 12
ANC-1913-40	Suitable for nozzle inner dia. 20, contact tip outer dia. 12



*For more reamer model, please contact our sales staff.

High performance contact tip



Item	Order NO.	Product Description
CONTACT TIP	TRM035-03-10	M8 Φ1.0mm (ultra long life)
	TRM035-03-12	M8 Φ1.2mm (ultra long life)
	TRM035-03-14	M8 Φ1.4mm (ultra long life)
	TRM035-03-16	M8 Φ1.6mm (ultra long life)
	TRM037-03-10	M12 Φ1.0mm (ultra long life)
	TRM037-03-12	M12 Φ1.2mm (ultra long life)
	TRM037-03-14	M12 Φ1.4mm (ultra long life)
	TRM037-03-16	M12 Φ1.6mm (ultra long life)

Robot	Order NO.	Insulation Flange Order NO.
ABB	IRB1200	TRM233-B31402
ABB	IRB1410, IRB1600 etc., IRB2400L	TRM233-B40252
ABB	IRB2400-10/-16, ABB IRB2600 etc.	TRM233-B50313-6M6
ABB	IRB1520iD	TRM233-B63502 (4M6)
ABB	IRB1660iD, IRB2600iD	TRM233-B40252/TRM242-AIRB1660iD
Yaskawa	MA1440 (AR1440) , MA2010 (AR2010) , MA3120	TRM233-B40252/TRM242-A56625
Yaskawa	GP12, GP25; MH12, MH24	TRM233-B40252/TRM242-A56625
Yaskawa	MH6, SSF2000, HP20D	TRM233-B40252
Efort	ER6 etc. (ER6-1400, ER6-2000; ER6B-C60, ER6L-C60)	TRM233-B40252
Efort	ER7-700	TRM233-B31402
ESTUN	ER12-1510, ER20 10L-2000	TRM233-B40252
ESTUN	ER8-1450-H (-AW)	TRM233-B40252/TRM242-AQRH290-6
ESTUN	ER12B-1510 (ER8-1500)	TRM233-B40252
ESTUN	ER16	TRM233-B50314-4M6
BORUNTE	BRTIRWD1506A (2021)	
BORUNTE	BRTIRWD1506A	
BORUNTE	1850	
BORUNTE	BRTIRUS1820A	
BORUNTE	BRTIRUS2110A	
Kawasaki	BA006N, BA006L	TRM233-B40252/TRM242-AQ1
Kawasaki	BA013N	TRM233-B63502 (4M6)
Kawasaki	RA010N	TRM233-B40252
Kawasaki	RS010L, RS020N (RA020N)	TRM233-B63402
CHAIFU	SF6-1440; SF6-C2080	TRM233-B40252/TRM242-ASF6-C
Changhong	LJ1468-10-A, LJ2000-8-A	TRM233-B40122
Changhong	CH1600-6	TRM233-B40252/TRM242-ACH1600
LBBBD	LHZ1500-B-6, LHZ2000-B-6	TRM233-B40252/TRM242-ALHZ1500-B-6
LBBBD	LT9905	TRM233-B40252/TRM242-ALT9905
FANUC	M10iD etc. (100iD) , M20iD etc. (120iD)	TRM233-B40252/TRM242-A64572
FANUC	M10iA etc. (100iC) , M20iA etc. (120iC)	TRM233-B40252/TRM242-A56625
FANUC	0iA, 0iB	TRM233-B31402
FANUC	LR Mate 200iD-7L	TRM233-B31402
FANUC	CRX-10iA, CRX-10iA-L	TRM233-B50314-4M6
FAIR	FAIR FR10	TRM233-B50314-4M6
GSK	RB08, RB08A3 etc., RH06, RH06A3 etc.	TRM233-B41503
GSK	RB20, RB15L	TRM233-B50314-4M6
GREE	GR608-1400H	TRM233-B31402/TRM242-ANII-P06P
NII	NII-P06P-1600	TRM233-B31402/TRM242-ANII-P06P
Honyan	HY1010A-145 (143)	TRM233-B40252/TRM242-AHY1006A-145-GN1863
Honyan	HY1006A-138, HY1006A-145, HY1006A-200	
HWASHI	HSR-JR612-020	TRM233-B31402/TRM242-ANII-P06P
HWASHI	HSR-JR620L	TRM233-B40252/TRM242-AHSR-JR620L
HWASHI	HSR-JS605E	TRM233-B40252/TRM242-AHSR-JS605E
HARMO	HS-R6-08	TRM233-B40252
HM	HM06L	TRM233-B50314-4M6
JAKA	JAKA Zu etc.	TRM233-B50314-4M6
Baykal	BR-1510A, JHY-2010A; BR-1610A	
Baykal	BR-1520B, BR-1820B, BR-1920B, BR-2020B	TRM233-B40252/TRM242-ABR1920B
CROBOTP	CRP-RH14-10-W, CRP-RH18-20-W, CRP-RH20-06-W	TRM233-B40252/TRM242-A56625
CROBOTP	CRP-RH14-10, CRP-RH18-20	TRM233-B40252/TRM242-ACRP-RH14-10
KUKA	KR5 R1400, KR10 R1420; KR8 R1620	TRM233-B31402
KUKA	KR5 arc	TRM233-B40252
KUKA	KR6 R1440-2 rac HW	TRM233-B40252/TRM242-AKR6R1440-2ARCHW
KUKA	KR8 R2010-2; KR12 R1820-2; KR16 R1620 KR20 R1820-2;	TRM233-B50314-4M6
KUKA	KUKAKR30 R2010	TRM233-B40252/TRM242-AKR60
KUKA	KUKAKR210* (long flange)	TRM233-B40252-L82 + TRM242-AKR150
Moka	MR06/MR08/MR10	TRM233-B40252/TRM242-A56625
OTC	FD-V6L, FD-V8	TRM233-B40252
OTC	FD-NV8, FD-NV8L	TRM233-B40252
Times	TIME R6-1400	
Panasonic	TA1800, TL1800GIII	TRM233-B50402
TURIN	TKB1210, TKB1400, TKB1600	TRM233-B36112
TURIN	TKB2690	
TURIN	TKB1440	TRM233-B40252/TRM242-A56625
TURIN	TKB1520	TRM233-B40252/TRM242-ATKB1520
HYUNDAI	HA006B, HA006L, HH010L, HH020	TRM233-B40252
STEP	SA1400/SA1800	TRM233-B31402
SIASUN	TA6-19, TA12A-14	TRM233-B40252/TRM242-A56625
KOMATSU	RAL20-50H	TRM233-ARAL20-50H-GN120
UNIVERSAL	UNIVERSAL UR10e	TRM233-B50314-4M6
ZD	ZD	TRM233-B31402/TRM242-ANII-P06P
CHAPLIN	CR10-1600	
ZHENGKANG	ZHENGKANG ZK1400-06	TRM233-B40252/TRM242-AZK1400

*Flanges will be continually updated as robot models are added, please contact our sales before ordering.

FLANGE SELECTION MANUAL-THROUGH ARM TORCHES

Robot	Order NO.	Insulation Flange Order NO.
ABB	IRB1520iD	TRM236-BIRB1520iD
Yaskawa	MA1440 (AR1440) , MA2010 (AR2010) , MA3120	TRM236-AMA1440-GN671
Yaskawa	GP12, GP25; MH12, MH24	TRM236-AMA1440-GN671
Yaskawa	MA1400, EA1800, EA1900	
ESTUN	ER8-1450-AW	
ESTUN	ER6-1450H	TRM236-BER6-1450H
BORUNTE	BRTIRWD1506A	TRM236-ABRT1506A
Kawasaki	BA006N, BA006L	TRM236-BBA006N
Kawasaki	BA013N	TRM236-BIRB1520iD
CHAIFU	SF6-1440; SF6-C2080	
Changhong	LJ1490-06, CH1500-6, CH1600-6	
Chuanxi	ZDFH0614A	TRM236-AMA1440-GN671
LBBBD	LHZ1500-B-6	
FANUC	M10iD etc. (100iD) , M20iD etc. (120iD)	TRM236-BM10iD
FANUC	M10iA etc. (100iC) , M20iA etc. (120iC)	TRM236-AMA1440-GN671
GSK	RH06A2-1490, RH06A2-2000	TRM236-BRH06A2
Honyan	HY1006A-138 (Four axes 45mm)	TRM236-BJHY1510A
Baykal	BR-1510A, JHY-2010A; BR-1610A	TRM236-BJHY1510A
Baykal	BR-1406C	TRM236-BJHY1510A
CLOOS	QR8-290 (=QRH290-6) , QR8-400-HW	
KUKA	KR6 R1440-2 rac HW	TRM236-BKR6R1440-2ARCHW
KUKA	KR6 R1840-2 rac HW	TRM236-BKR6R1820HW
KUKA	KR8 R1620 arc HW; KR8 R1640-2 arc HW	TRM236-BKR8R1820HW
CROBOTP	CRP RH14/RH18/RH20	TRM236-AMA1440-GN671
Moka	MR06/MR08/MR10	TRM236-AMA1440-GN671
OTC	FD-B4	
QIANJIANG	QJR6-2000H	
QIANJIANG	QJRH4-1a	TRM236-BQJRH4-1a
Panasonic	TM1400	
TURIN	TKB1440	TRM236-AMA1440-GN671
STEP	SA6-1440H, SA6-2000H	
STEP	SA6-1600Z	
SIASUN	TA6-19, TA12A-14	TRM236-AMA1440-GN671
ZD	ZDFH0620	TRM236-AMA1440-GN671*

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China Merchants Heavy Industry (Shenzhen) Co.,Ltd
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Zhenhua Port Machinery Company
Doosan Group

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Construction Machinery



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XCMG Group
Katsushiro Machinery (Shangdong) Co.,Ltd
Shantui Construction Machinery co.,Ltd
HYUNDAI

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Container



China Xinhuachang Group Co., Ltd.
Orient International (Holding) Co.,Ltd
China International Marine Containers (Group) Co., Ltd
Guangdong Fuwa Engineering Group Co.,Ltd

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Steel Structure



China Construction Steel Structure Engineering Corp. Ltd
Honglu Steel Structure (Group) Co., Ltd
Jingong Holding Group Co.,Ltd

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Auto & Rail Transit



GTK Group Co., Ltd.
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Cosma Automotive (Shanghai) Co., Ltd

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