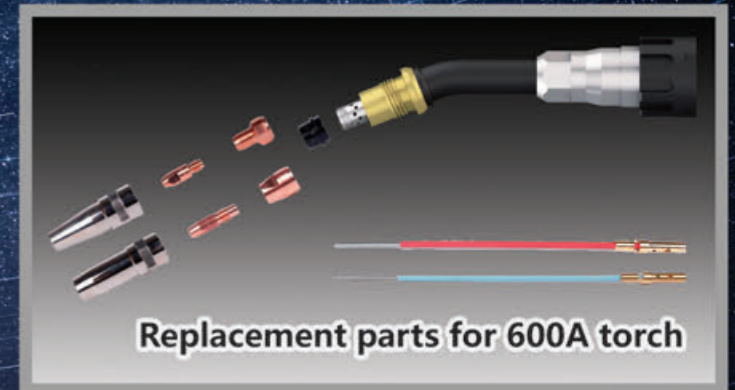


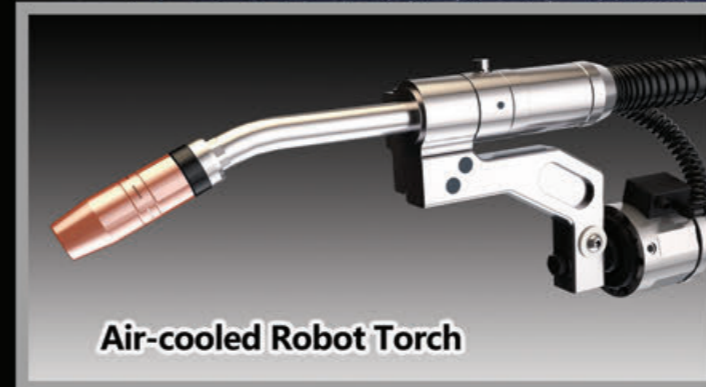
Robotic Welding Torch



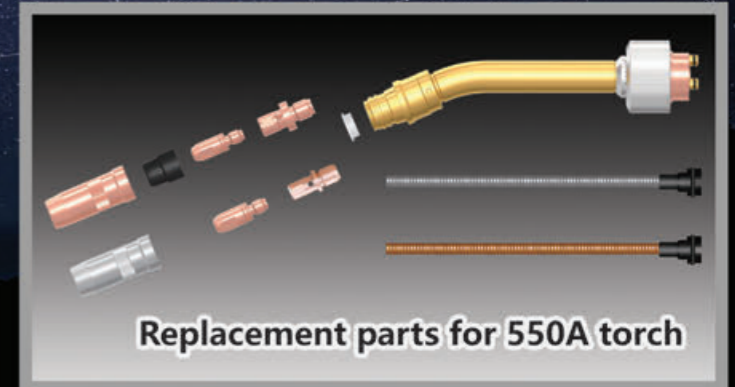
SERVO PUSH-PULL Robot Torch



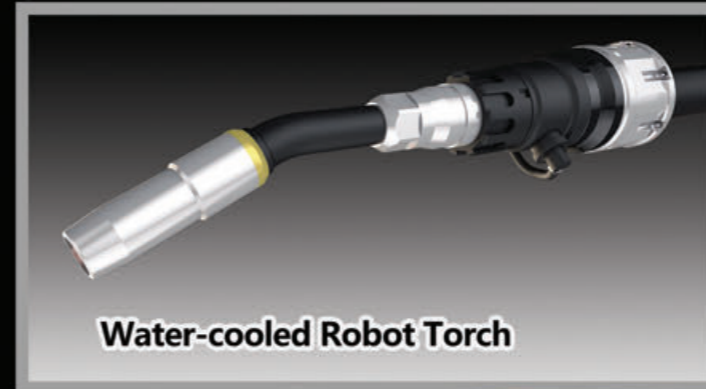
Replacement parts for 600A torch



Air-cooled Robot Torch



Replacement parts for 550A torch



Water-cooled Robot Torch



Cleaning Station



catalogue down load

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Since 2001

CATALOGUE

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TRM Technology, Inc. was established in 2001, located in Binjiang Economic Development Zone, No.9, Environmental Protection Road no.3, with registered capital of 41,759,657 million yuan, covers an area of 26,232 mu, workshop 12,764.12 square meters, 230 employees, including 2 master, 5 senior professional title, college degree or above staff accounted for 36%.

TRM is a professional manufacturer of welding and cutting products with leading technology in China. Our products include MIG /TIG welding torch and accessories, and high quality plasma plasma accessories. Our quality system complies with ISO9001:2015 standard.

The company has a professional welding and cutting laboratory, more than 32 valid invention patents and more than 20 years of cutting and welding technology research and development experience, the company is committed to providing customers with the highest quality standards of products and professional services.

TRM is committed to providing stable and efficient arc, perfect technical services and complete welding and cutting supporting solutions; Our products are widely used in automobile manufacturing, rail transit, aerospace, construction machinery, shipbuilding, energy and chemical industry and many other difficult and demanding fields.



TRM613WPP

SERVO PUSH-PULL

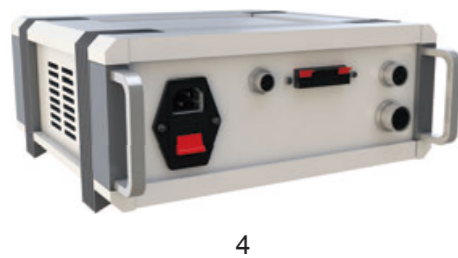
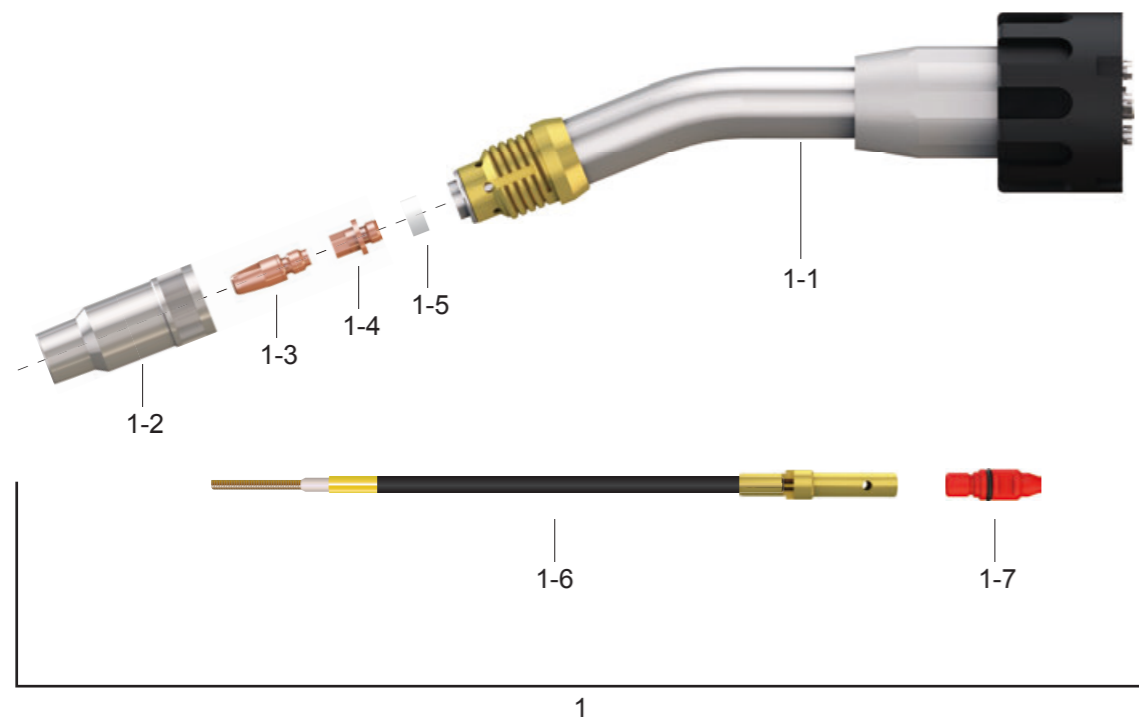


TECHNICAL DATA

| | |
|------------------|--|
| Cooling method | Water Cooled |
| Rating | 550A CO ₂ 500A Mixed Gas M21(ISO14175) |
| Duty cycle | 100% |
| Wire diameter | 0.8~1.6mm |
| Torch geometries | 22°, 45° |
| Wire feed speed | 0-25m/min |

- Compact and flexible structure with high reachability
- Servo motor with high-precision and quick-response
- Quick Euro connector, easy to connect
- Be available for popular wire feeder connection like Panasonic, Lincoln and other common connectors.

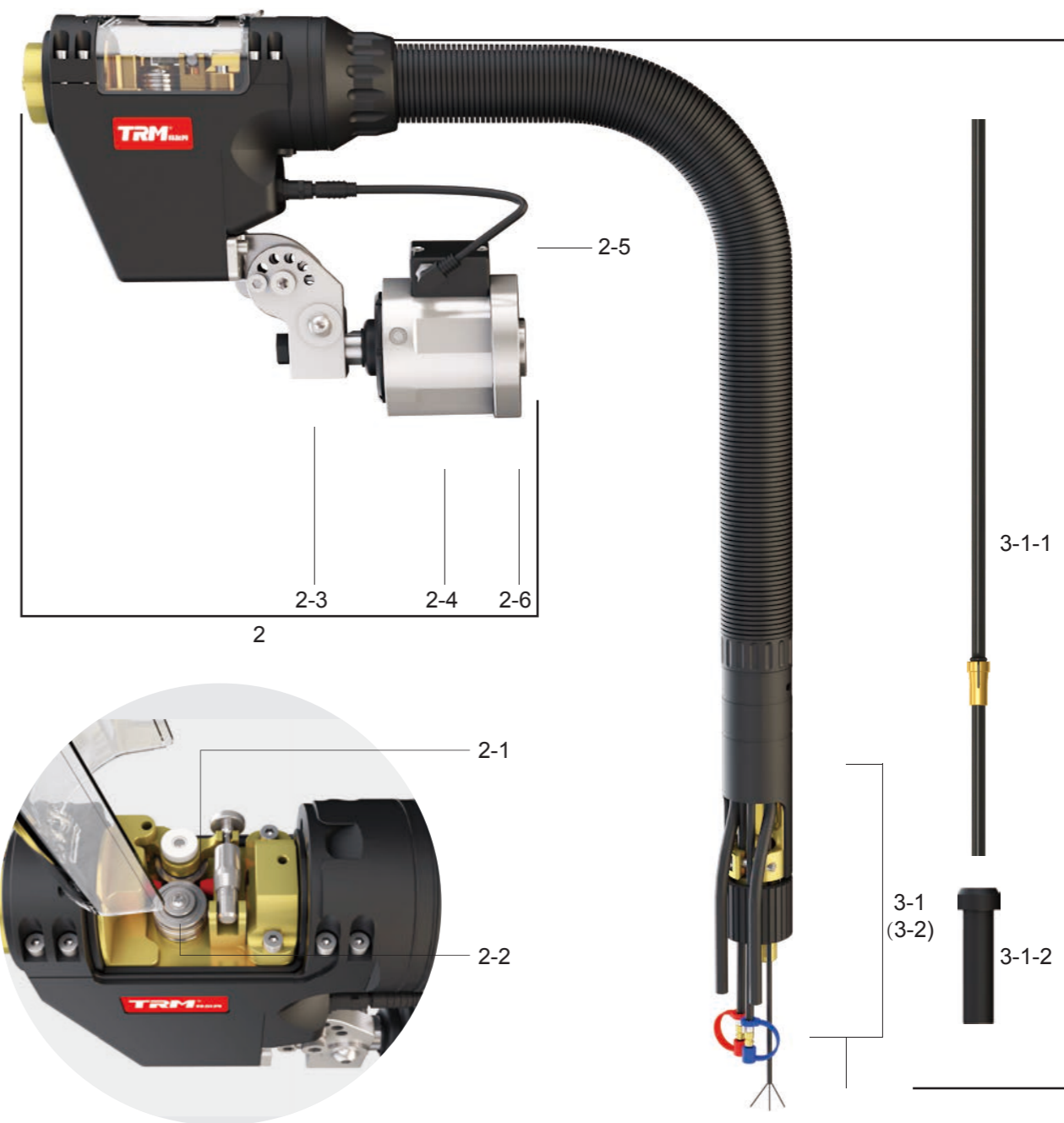
SERVO PUSH-PULL Robot Torch



- 1** Torch neck assembly **P05**
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SERVO PUSH-PULL Robot Torch



- 3** Cable assembly **P08**
- 3-1** cable with Euro connector **P08**
- 3-2** cable with Panasonic connector **P08**
- cable with Lincoln connector **P08**
- 4** Synchronic **P08**
- 5** Accessory box **P08**

ORDER GUIDE

| Order No. | Product Description |
|----------------|--|
| TRM613WPP | SERVO Push-pull torch |
| TRM613WPP—HQ—E | SERVO Push-pull torch(Euro connector) |
| TRM613WPP—HQ—L | SERVO Push-pull torch(Lincoln connector) |
| TRM613WPP—HQ—P | SERVO Push-pull torch(Panasonic connector) |

1.TORCH NECK ASSEMBLY

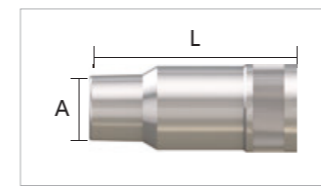
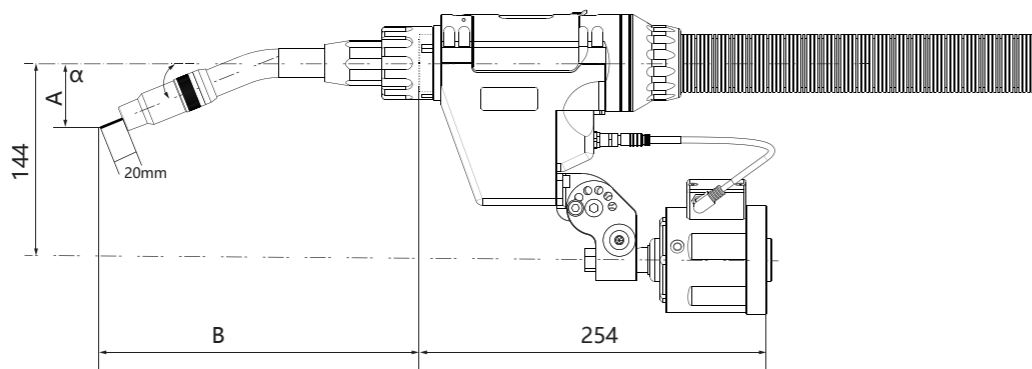


1-1. GOOSE NECK

| Order No. | Product Description |
|--------------|--------------------------------|
| TRM613W-22 | 22° , Straight length 37mm |
| TRM613W-22L | 22° , Straight length 162.8mm |
| TRM613W-45 | 45° , Straight length 24.75mm |
| TRM613W-45L | 45° , Straight length 124.75mm |
| TRM613W-45L1 | 45° , Straight length 221.6mm |

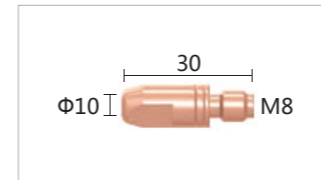
TCP DATA

| α | A | B | Angle | Neck part no |
|----------|--------|--------|-------|--------------|
| 22° | 50.2 | 247.45 | 22° | TRM613W-22 |
| 22° | 50.05 | 374 | 22° | TRM613W-22L |
| 45° | 107.56 | 235.86 | 45° | TRM613W-45 |
| 45° | 107.56 | 335.86 | 45° | TRM613W-45L |
| 45° | 109.87 | 435 | 45° | TRM613W-45L1 |



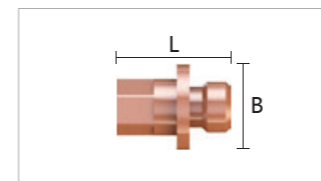
1-2. NOZZLE

| Order No. | Product Description | L (mm) | A (mm) |
|--------------|---------------------|--------|--------|
| TRM016-03-16 | Tip recess 0.7mm | 63.5 | Φ16 |



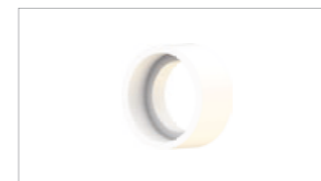
1-3. CONTACT TIP

| Order No. | Product Description |
|---------------|------------------------------|
| TRM035-02-08A | CUCRZR φ0.8mm Aluminium wire |
| TRM035-02-10A | CUCRZR φ1.0mm Aluminium wire |
| TRM035-02-12A | CUCRZR φ1.2mm Aluminium wire |
| TRM035-02-14A | CUCRZR φ1.4mm Aluminium wire |
| TRM035-02-16A | CUCRZR φ1.6mm Aluminium wire |



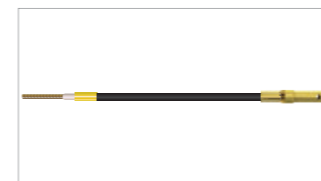
1-4. TIP HOLDER

| Order No. | Product Description | L (mm) | B (mm) |
|-----------|---------------------|--------|--------|
| TRM046-02 | M8 | 28 | M 8×1 |



1-5. INSULATOR

| Order No. | Product Description |
|-----------|---------------------|
| TRM028-01 | white |



1-6. NECK LINER

| Order No. | Product Description |
|---------------------|--|
| TRM158PP-12A-22TSG | For Aluminum / aluminum alloy wireφ0.8-1.2mm |
| TRM158PP-12A-22LTSG | For Aluminum / aluminum alloy wireφ0.8-1.2mm |
| TRM158PP-12A-45TSG | For Aluminum / aluminum alloy wireφ0.8-1.2mm |
| TRM158PP-12A-45LTSG | For Aluminum / aluminum alloy wireφ0.8-1.2mm |
| TRM158PP-16A-22TSG | For Aluminum / aluminum alloy wireφ1.4-1.6mm |
| TRM158PP-16A-22LTSG | For Aluminum / aluminum alloy wireφ1.4-1.6mm |
| TRM158PP-16A-45TSG | For Aluminum / aluminum alloy wireφ1.4-1.6mm |
| TRM158PP-16A-45LTSG | For Aluminum / aluminum alloy wireφ1.4-1.6mm |

1-7. WIRE GUIDE BUSHING

| Order No. | Product Description |
|-----------------|---------------------|
| TRM613WPP-06-22 | Wire Guide Bushing |



SERVO PUSH-PULL Robot Torch

2.TORCH BODY WITH SHOCK SENSOR



2-1. MAIN WIRE FEED ROLL

| Order No. | Product Description |
|-----------------|---|
| TRM651WPP-06-35 | wire feed rolls (0.8A) Aluminum / aluminum alloy wire |
| TRM651WPP-06-32 | wire feed rolls (1.0A) Aluminum / aluminum alloy wire |
| TRM651WPP-06-10 | wire feed rolls (1.2A) Aluminum / aluminum alloy wire |
| TRM651WPP-06-33 | wire feed rolls (1.4A) Aluminum / aluminum alloy wire |
| TRM651WPP-06-34 | wire feed rolls (1.6A) Aluminum / aluminum alloy wire |



2-2. AUXILIARY WIRE FEED ROLL

| Order No. | Product Description |
|-----------------|----------------------|
| TRM651WPP-06-23 | Driven roll (smooth) |



2-3. MOUNT ARM

| Order No. | Product Description |
|----------------|---------------------|
| TRM218-045-WPP | MOUNT ARM |



2-4. SHOCK SENSOR

| Order No. | Product Description |
|---------------|--|
| TRM313-01-N10 | Suitable for 22°/45° Standard Goose Neck |
| TRM313-01-N16 | Suitable for 22°L/45°L/45°L1 Extended neck |

Note: The parameters are shown in the list. When ordered separately, 5m signal line is included.

SHOCK SENSOR DATA SHEET

| ITEM | TRM313-01-N10 | TRM313-01-N16 |
|---|---------------------------------------|--|
| Size | Diameter $\phi 77$ /Height 103.7mm | Diameter $\phi 77$ /Height 103.7mm |
| Weight | 0.98kg | 0.98kg |
| Sensing Accuracy | 1°~1.5° | 1°~1.5° |
| Maximum deflection repeatability(400mm) | XY direction 8° | XY direction 4° |
| Trigger Force | 0.1~0.15mm | Within 0.15mm |
| IP protection level | About 60-70N in X/Y (400mm) direction | About 90-100N in X/Y (400mm) direction |
| Switching capacity | IP21 | IP21 |
| Ambient temperature | 0.1A/250VAC | 0.1A/250VAC |
| Relative Humidity | -10°C to +55°C | -10°C to +55°C |
| | 70% at 20 °C during operation | 70% at 20 °C during operation |



2-4. SPRING LINE

| Order No. | Product Description |
|-------------|--|
| 3.5.21.0677 | To connect shock sensor and torch body |

SERVO PUSH-PULL Robot Torch



2-5. INSULATION DISK

| Order No. | Product Description |
|---------------|--|
| TRM233-A31402 | Fanuc R-0iB、200iD KUKA KR5 R1400、KR10 R1420、KR8 R1620 STEP SA1400SA1800 ; Kawasaki RA05L ; 信捷等 |
| TRM233-A40252 | KUKA KR5 arc、KR6 arc、KR16 L6 arc GSK RH06、RH08 ; TRM231-A40252 Yasukawa MH6 那智MC20-01;钱江QR6-3 ABB IRB 1410、ABB IRB 1600 etc |
| TRM233-A56625 | Fanuc 100ic、M10iA ; Yasukawa MA1440、MH12、MA2010 |
| TRM233-A64572 | Fanuc M10iD |

Note: Including the installed screws

3.CABLE ASSEMBLY

3-1.CABLE WITH EURO CONNECTOR



3-1-1. LINER

| Order No. | Product Description |
|----------------|--|
| TRM153B-10A-18 | EURO type (Aluminium wire $\Phi 0.8-1.0\text{mm}$) |
| TRM153B-12A-18 | EURO type (Aluminium wire $\Phi 1.0-1.2\text{mm}$) |
| TRM153B-16A-18 | EURO type (Aluminium wire $\Phi 1.2-1.6\text{mm}$) |



3-1-2. LINER HOLDER

| Order No. | Product Description |
|-----------------|-------------------------------|
| TRM613WPP-08-12 | Aluminium wire $\Phi 0.8-1.6$ |

3-2.CABLE WITH REPLACEABLE CONNECTOR



3-2-1. CONNECTOR (LINCOLN / PANASONIC)

| Order No. | Product Description |
|-----------|--|
| TRM143-L2 | Lincoln Connector (external diameter D31.6mm) |
| TRM143-P2 | Panasonic Connector |



3-2-2. LINER

| Order No. | Product Description |
|----------------|---|
| TRM150P-08A-23 | LINCOLN/PANASONIC type (Aluminium wire $\Phi 0.8-1.0\text{mm}$) |
| TRM150P-12A-18 | LINCOLN/PANASONIC type (Aluminium wire $\Phi 1.0-1.2\text{mm}$) |
| TRM150P-16A-23 | LINCOLN/PANASONIC type (Aluminium wire $\Phi 1.2-1.6\text{mm}$) |



4. SYNCHRONIC

| Order No. | Product Description |
|--------------------|--|
| TRM613WPP-SYNC-01A | Synchronic(Including power cable and signal cable) |



5. ACCESSORY BOX

| Order No. | Product Description |
|-----------------|---------------------------|
| TRM613WPP-AP-01 | O-ring (3pcs), grease (1) |



TRM612WPP

SERVO PUSH-PULL

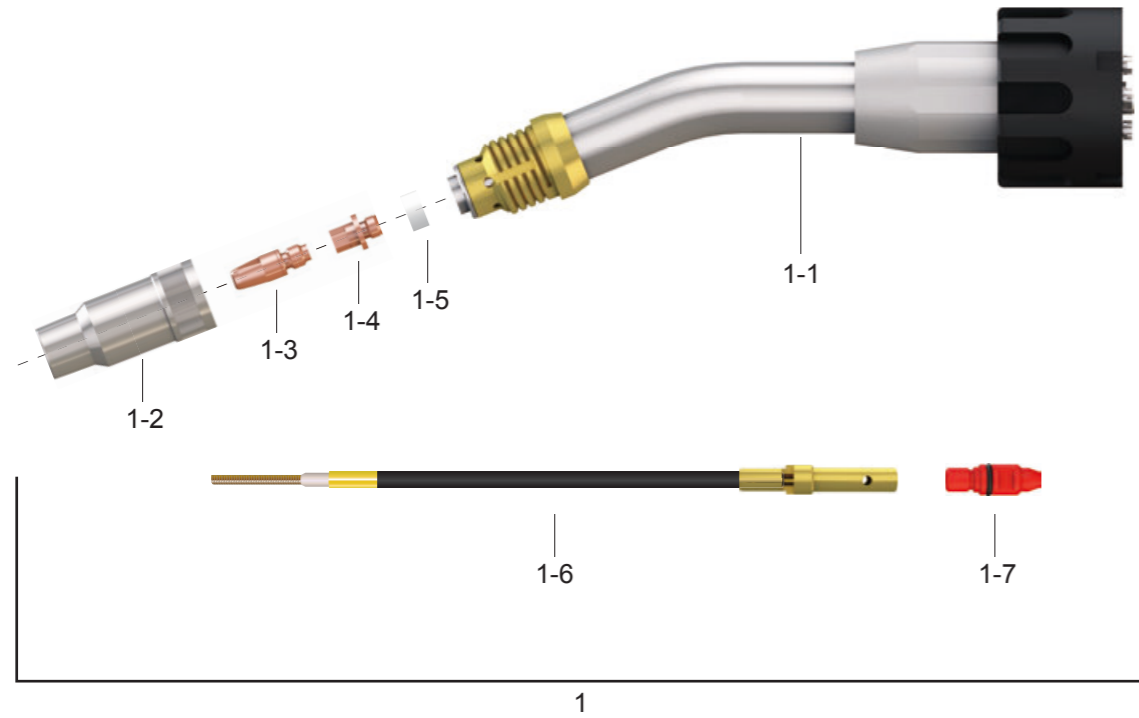


TECHNICAL DATA

| | |
|------------------|--|
| Cooling method | Water Cooled |
| Rating | 550A CO ₂ 500A Mixed Gas M21(ISO14175) |
| Duty cycle | 100% |
| Wire diameter | 0.8~1.6mm |
| Torch geometries | 22°, 45° |
| Wire feed speed | 0-25m/min |

- Compact and flexible structure with high reachability
- Servo motor with high-precision and quick-response
- European joint can be dismantled quickly, assembly is more convenient
- Be available for popular wire feeder connection like Panasonic, Lincoln and other common connectors.

SERVO PUSH-PULL Robot Torch



4

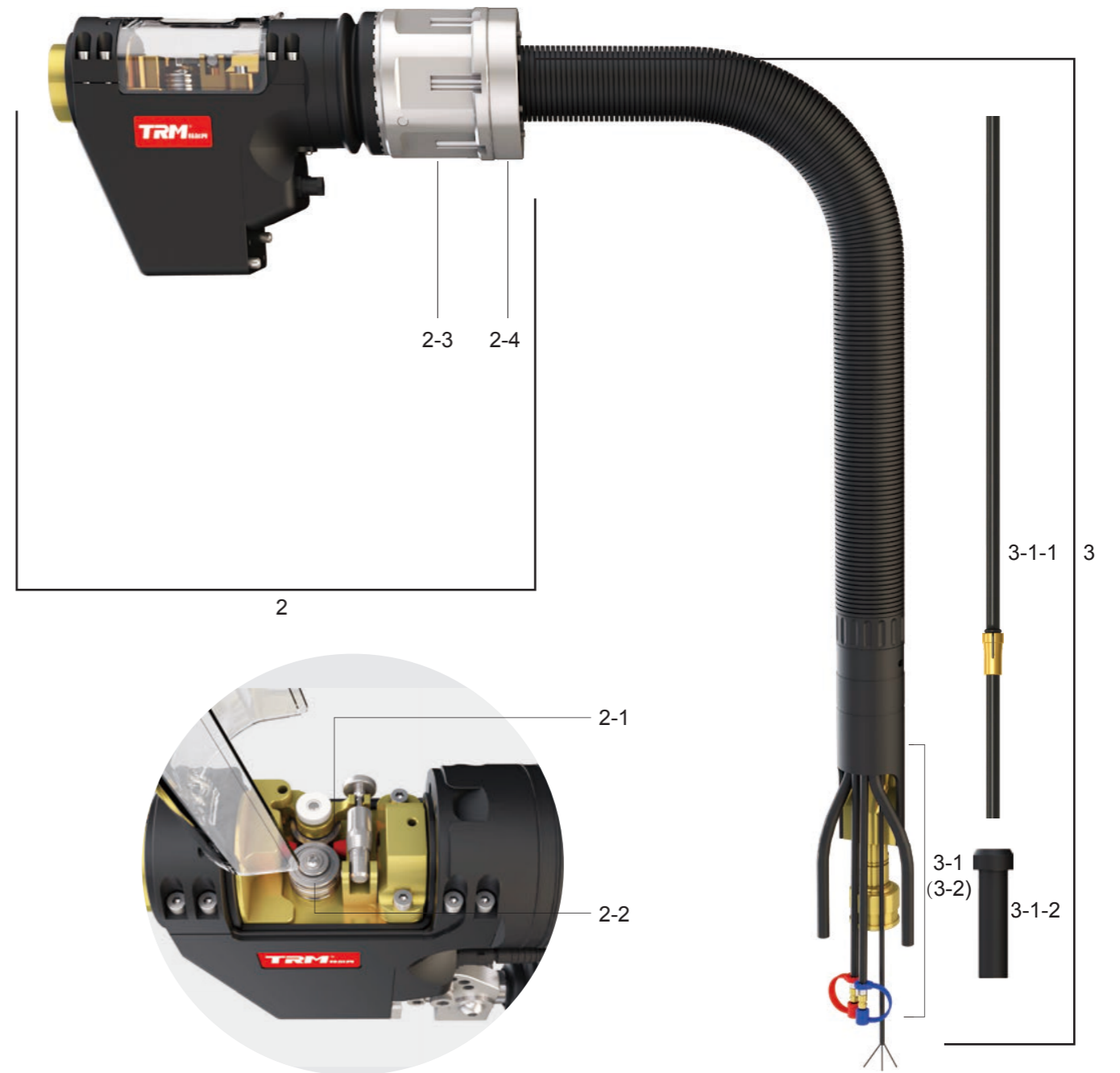


5

| | | |
|------------|---------------------|------------|
| 1 | Torch neck assembly | P13 |
| 1-1 | Goose Neck | P13 |
| 1-2 | Nozzle | P14 |
| 1-3 | Contact Tip | P14 |
| 1-4 | Tip Holder | P14 |
| 1-5 | insulator | P14 |
| 1-6 | Neck liner | P14 |
| 1-7 | Neck liner holder | P14 |

| | | |
|------------|------------------------------|------------|
| 1-8 | Wire Guide Bushing | P14 |
| 2 | Torch body with Shock Sensor | P15 |
| 2-1 | Main Wire Feed roll | P15 |
| 2-2 | Auxiliary wire feed roll | P15 |
| 2-3 | Shock Sensor | P15 |
| 2-4 | Insulation disk | P15 |

SERVO PUSH-PULL Robot Torch



| | | |
|------------|--------------------------------|------------|
| 3 | Cable assembly | P16 |
| 3-1 | cable with Euro connector | P16 |
| 3-2 | cable with Panasonic connector | P16 |
| | cable with Lincoln connector | P16 |
| 4 | Synchronic | P16 |
| 5 | Accessory box | P16 |

ORDER GUIDE

TRM612WPP

| Order No. | Product Description |
|----------------|--|
| TRM612WPP | SERVO Push-pull torch |
| TRM612WPP-HQ-E | SERVO Push-pull torch(Euro connector) |
| TRM612WPP-HQ-L | SERVO Push-pull torch(Lincoln connector) |
| TRM612WPP-HQ-P | SERVO Push-pull torch(Panasonic connector) |

1.TORCH NECK ASSEMBLY

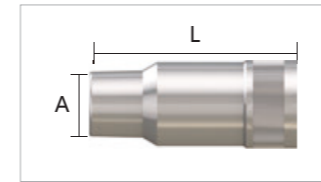
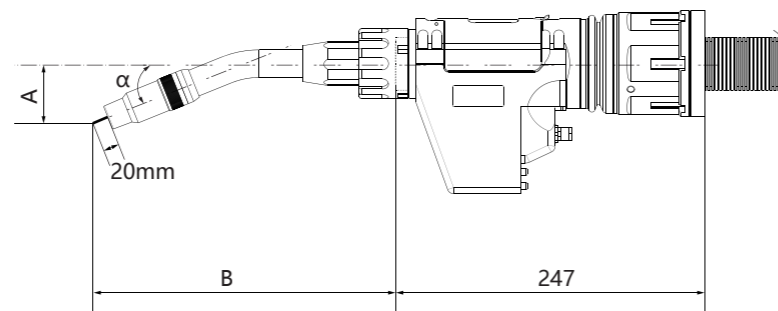


1-1. GOOSE NECK

| Order No. | Product Description |
|--------------|--------------------------------|
| TRM613W-22 | 22° , Straight length 37mm |
| TRM613W-22L | 22° , Straight length 162.8mm |
| TRM613W-45 | 45° , Straight length 24.75mm |
| TRM613W-45L | 45° , Straight length 124.75mm |
| TRM613W-45L1 | 45° , Straight length 221.6mm |

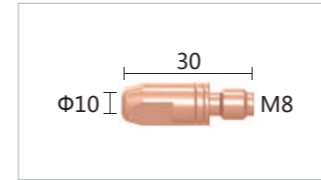
TCP DATA

| α | A | B | Angle | Neck part no |
|----------|--------|--------|-------|--------------|
| 22° | 50.2 | 247.45 | 22° | TRM613W-22 |
| 22° | 50.05 | 374 | 22° | TRM613W-22L |
| 45° | 107.56 | 235.86 | 45° | TRM613W-45 |
| 45° | 107.56 | 335.86 | 45° | TRM613W-45L |
| 45° | 109.87 | 435 | 45° | TRM613W-45L1 |



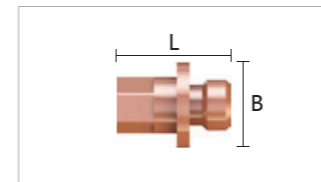
1-2. NOZZLE

| Order No. | Product Description | L (mm) | A (mm) |
|--------------|---------------------|--------|--------|
| TRM016-03-16 | Tip recess 0.7mm | 63.5 | Φ16 |



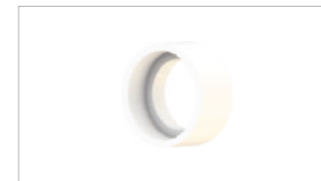
1-3. CONTACT TIP

| Order No. | Product Description |
|---------------|------------------------------|
| TRM035-02-08A | CUCRZR φ0.8mm Aluminium wire |
| TRM035-02-10A | CUCRZR φ1.0mm Aluminium wire |
| TRM035-02-12A | CUCRZR φ1.2mm Aluminium wire |
| TRM035-02-14A | CUCRZR φ1.4mm Aluminium wire |
| TRM035-02-16A | CUCRZR φ1.6mm Aluminium wire |



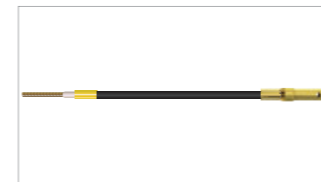
1-4. TIP HOLDER

| Order No. | Product Description | L (mm) | B (mm) |
|-----------|---------------------|--------|--------|
| TRM046-02 | M8 | 28 | M 8×1 |



1-5. INSULATOR

| Order No. | Product Description |
|-----------|---------------------|
| TRM028-01 | white |



1-6. NECK LINER

| Order No. | Product Description |
|---------------------|--|
| TRM158PP-12A-22TSG | For Aluminum / aluminum alloy wireφ0.8-1.2mm |
| TRM158PP-12A-22LTSG | For Aluminum / aluminum alloy wireφ0.8-1.2mm |
| TRM158PP-12A-45TSG | For Aluminum / aluminum alloy wireφ0.8-1.2mm |
| TRM158PP-12A-45LTSG | For Aluminum / aluminum alloy wireφ0.8-1.2mm |
| TRM158PP-16A-22TSG | For Aluminum / aluminum alloy wireφ1.4-1.6mm |
| TRM158PP-16A-22LTSG | For Aluminum / aluminum alloy wireφ1.4-1.6mm |
| TRM158PP-16A-45TSG | For Aluminum / aluminum alloy wireφ1.4-1.6mm |
| TRM158PP-16A-45LTSG | For Aluminum / aluminum alloy wireφ1.4-1.6mm |



1-7. WIRE GUIDE BUSHING

| Order No. | Product Description |
|-----------------|---------------------|
| TRM613WPP-06-22 | Wire Guide Bushing |

SERVO PUSH-PULL Robot Torch

2.TORCH BODY WITH SHOCK SENSOR



2-1. MAIN WIRE FEED ROLL

| Order No. | Product Description |
|-----------------|---|
| TRM651WPP-06-35 | wire feed rolls (0.8A) Aluminum / aluminum alloy wire |
| TRM651WPP-06-32 | wire feed rolls (1.0A) Aluminum / aluminum alloy wire |
| TRM651WPP-06-10 | wire feed rolls (1.2A) Aluminum / aluminum alloy wire |
| TRM651WPP-06-33 | wire feed rolls (1.4A) Aluminum / aluminum alloy wire |
| TRM651WPP-06-34 | wire feed rolls (1.6A) Aluminum / aluminum alloy wire |



2-2. AUXILIARY WIRE FEED ROLL

| Order No. | Product Description |
|-----------------|----------------------|
| TRM651WPP-06-23 | Driven roll (smooth) |



2-3. SHOCK SENSOR

| Order No. | Product Description |
|---------------|--|
| TRM316-01-N10 | Suitable for 22°/45° Standard Goose Neck |
| TRM316-01-N16 | Suitable for 22°L/45°L/45°L1 extended neck |

SHOCK SENSOR DATA SHEET

| ITEM | TRM316-01-N10 | TRM316-01-N16 |
|---|---|--|
| Size | Diameter φ85mm/Height 89mm | Diameter φ85mm/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 repeatability(400mm) | X/Y deflection approx. 10° Within 0.15mm | X/Y deflection approx. 6° 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 |



2-2. INSULATION DISK

| Order No. | Product Description |
|-------------------|--|
| TRM236-AMA1440 | Yasukawa MA1440/AR1440/MA2010/AR2010 ; Yasukawa MH12/MH24 ; FANUC M-10iA Series,M-20iA Series ; 摩卡MR Series ; 卡诺普RH Series ; 智昌中空 Series |
| TRM236-AM10ID | FANUC M-10iD Series,M-20iD Series |
| TRM236-AOTCAII-B4 | OTC AII-B4/B4L ; FD-B4/B4L |
| TRM236-ATM1400 | Panasonic TM1400/TM1800/TM2000 |
| TRM236-AIRB1520ID | ABB IRB1520ID |
| TRM236-ABA006N | Kawasaki BA006N,BA006L |
| TRM236-ARH06A2 | GSK RH06A2 |
| TRM236-AER6-1450H | ESTUN ER6-1450H |

Note: Including the installed screws

SERVO PUSH-PULL Robot Torch

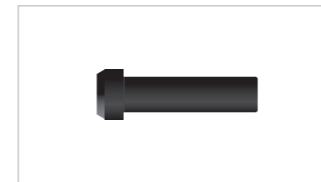
3.CABLE ASSEMBLY

3-1.CABLE WITH EURO CONNECTOR



3-1-1. LINER

| Order No. | Product Description |
|----------------|---------------------------------------|
| TRM153B-10A-18 | EURO type (Aluminium wire φ0.8-1.0mm) |
| TRM153B-12A-18 | EURO type (Aluminium wire φ1.0-1.2mm) |
| TRM153B-16A-18 | EURO type (Aluminium wire φ1.2-1.6mm) |



3-1-2. LINER HOLDER

| Order No. | Product Description |
|-----------------|---------------------------|
| TRM613WPP-08-12 | Aluminium wire φ0.8-1.6mm |

3-2.CABLE WITH REPLACEABLE CONNECTOR



3-2-1. CONNECTOR (LINCOLN/PANASONIC)

| Order No. | Product Description |
|-----------|---|
| TRM143-L2 | Lincoln large Connector (external diameter D31.6mm) |
| TRM143-P2 | Panasonic Connector |



3-2-2. LINER

| Order No. | Product Description |
|----------------|--|
| TRM150P-08A-23 | LINCOLN/PANASONIC type (Aluminium wire φ0.8-1.0mm) |
| TRM150P-12A-18 | LINCOLN/PANASONIC type (Aluminium wire φ1.0-1.2mm) |
| TRM150P-16A-23 | LINCOLN/PANASONIC type (Aluminium wire φ1.2-1.6mm) |



4. SYNCHRONIC

| Order No. | Product Description |
|--------------------|--|
| TRM613WPP-SYNC-01A | Synchronic(Including Power Cable And Signal Cable) |



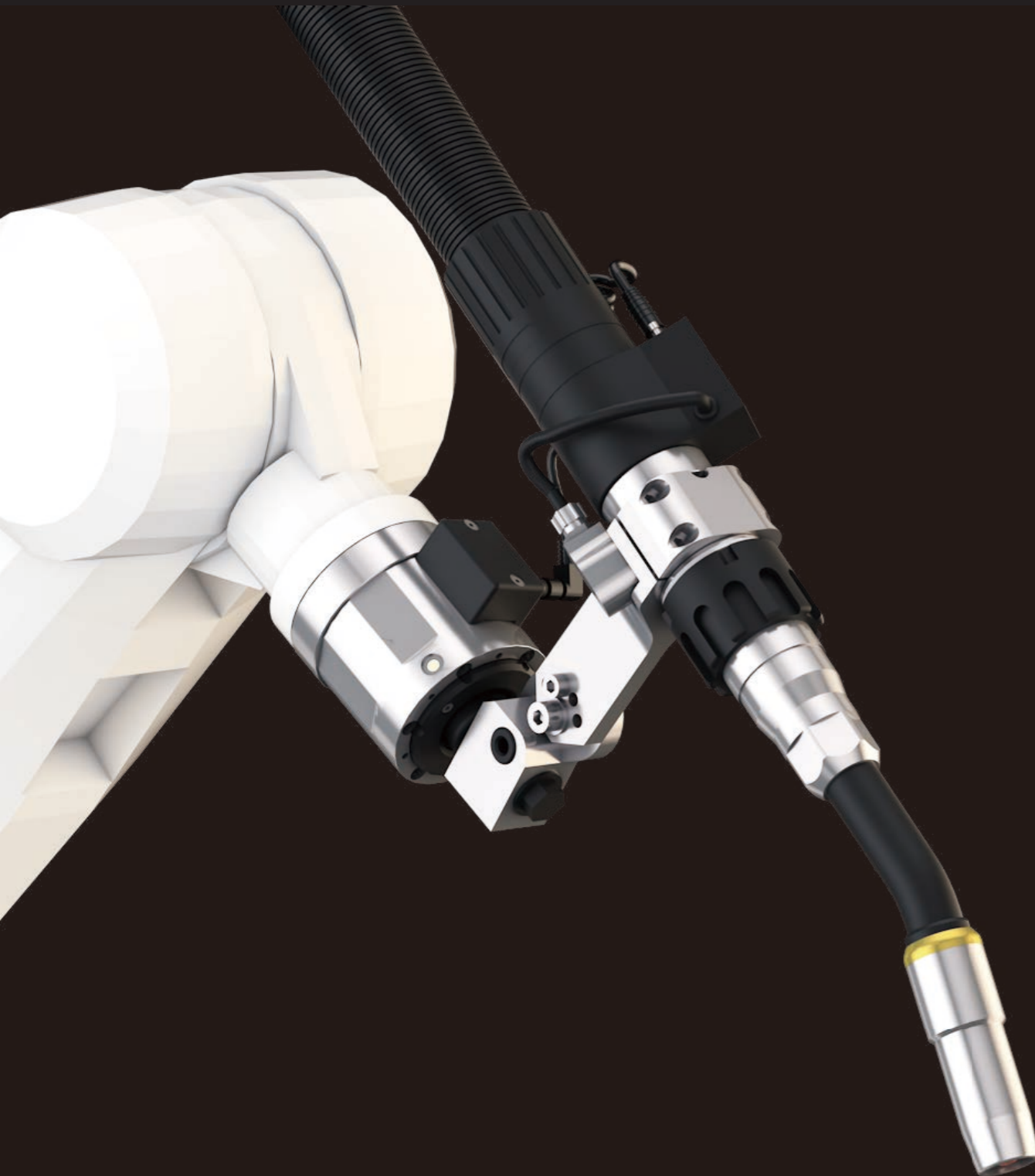
5. ACCESSORY BOX

| Order No. | Product Description |
|-----------------|---------------------------|
| TRM613WPP-AP-01 | O-ring (3pcs), grease (1) |



TRM651W

WATER COOLED

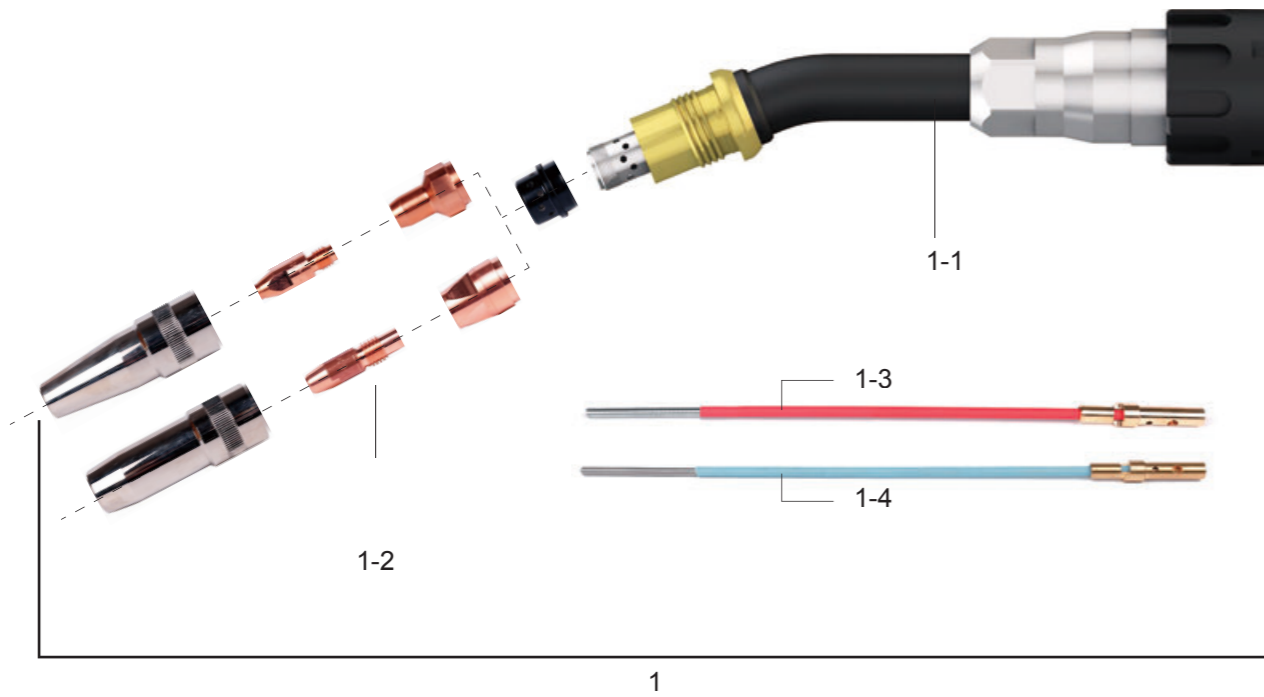


TECHNICAL DATA

| | |
|------------------|--|
| Cooling method | WATER COOLED |
| Rating | 600A CO ₂ 550A Mixed Gas M21(ISO14175) |
| Duty cycle | 100% |
| Wire diameter | 1.0~1.6mm |
| Torch geometries | 22° , 45° |

- Dual cooling with separate gas circuit
- Changeable goose neck with water stop function. Easy to change goose neck and do maintenance.
- With shock sensor, wire brake and gas nozzle locating functions.
- Many options for torch neck with different angle and length Standard Euro connector.

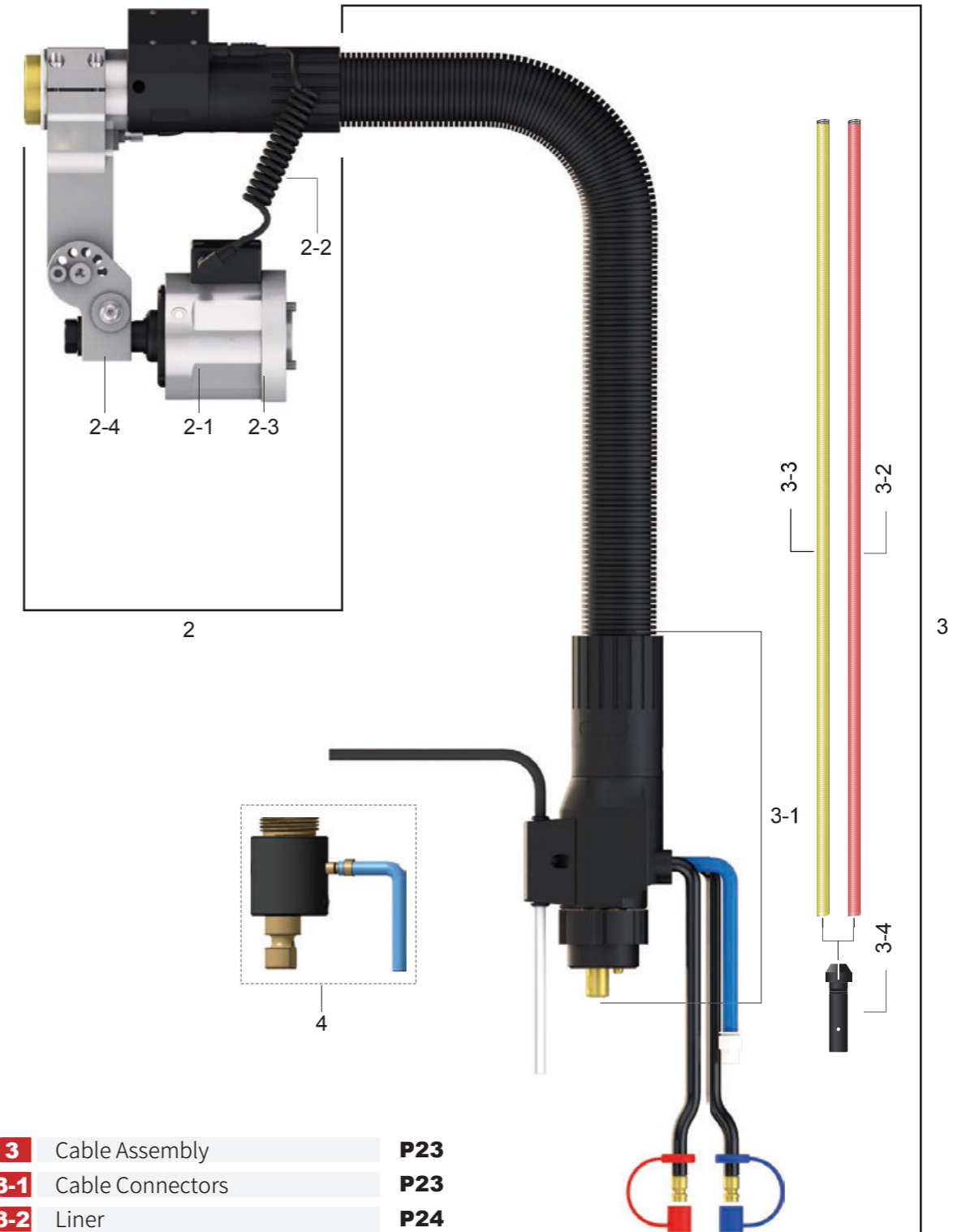
Water-cooled Robot Torch



- | | | |
|------------|----------------------|------------|
| 1 | Torch Neck Assembly | P21 |
| 1-1 | Goose Neck | P21 |
| 1-2 | Torch Consumables | P33 |
| 1-3 | Neck Liner (1.0-1.2) | P22 |
| 1-4 | Neck Liner (1.4-1.6) | P22 |

- | | | |
|------------|---------------------|------------|
| 2 | Anti-collision unit | P22 |
| 2-1 | Shock Sensor | P22 |
| 2-2 | shock sensor line | P23 |
| 2-3 | Insulation disk | P23 |
| 2-4 | Mount Arm | P23 |

Water-cooled Robot Torch



- | | | |
|------------|------------------|------------|
| 3 | Cable Assembly | P23 |
| 3-1 | Cable Connectors | P23 |
| 3-2 | Liner | P24 |
| 3-3 | Liner | P24 |
| 3-4 | Liner Holder | P24 |
| 4 | Adapter | P24 |

ORDER GUIDE

| Order No. | Product Description |
|---------------------|---|
| TRM651W | Over-arm water-cooled torch |
| TRM651W-HQ-E | Over-arm water-cooled torch(Euro connector) |

Note: For other types of interfaces, adapters shall be provided.

1. TORCH NECK ASSEMBLY

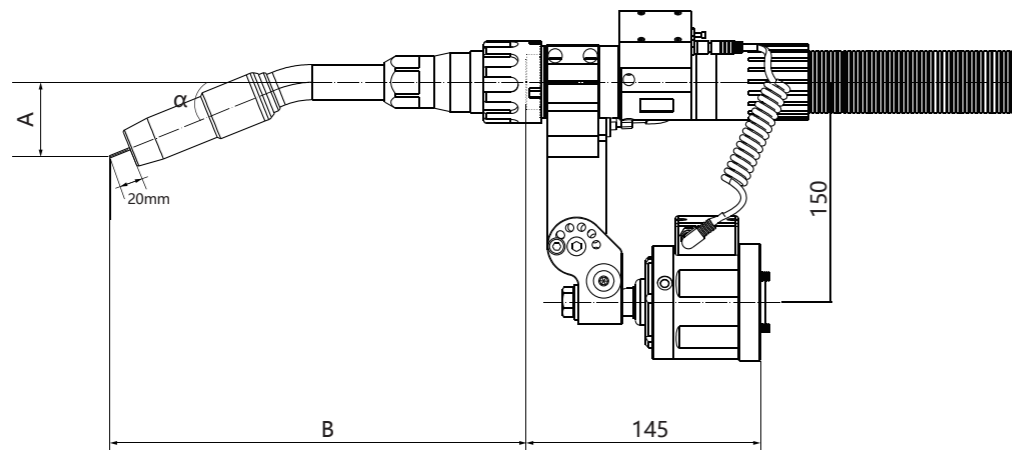


1-1. GOOSE NECK

| Order No. | Product Description |
|---------------------|------------------------------|
| TRM651W-22 | 22°, Straight length 49.6mm |
| TRM651W-22L | 22°, Straight length 149.6mm |
| TRM651W-22L3 | 22°, Straight length 345.8 |
| TRM651W-45 | 45°, Straight length 18.6mm |
| TRM651W-45L | 45°, Straight length 118.6mm |
| TRM651W-45L1 | 45°, Straight length 178.6mm |
| TRM651W-45L3 | 45°, Straight length 316mm |

TCP DATA

| α | A | B | Angle | Neck part no |
|----------|--------|-------|-------|--------------|
| 22° | 52.35 | 287.5 | 22° | TRM651W-22 |
| 22° | 52.35 | 387.4 | 22° | TRM651W-22L |
| 22° | 52 | 583 | 22° | TRM651W-22L3 |
| 45° | 114.57 | 254.6 | 45° | TRM651W-45 |
| 45° | 114.57 | 354.6 | 45° | TRM651W-45L |
| 45° | 114.57 | 414.6 | 45° | TRM651W-45L1 |
| 45° | 116.6 | 554 | 45° | TRM651W-45L3 |



1-3. NECK LINER

| Order No. | Product Description |
|---------------------|--|
| TRM158-12-25 | WIRE ϕ 1.0-1.2mm(22° And 45°neck) |
| TRM158-12-40 | WIRE ϕ 1.0-1.2mm(22°L/45°Lneck) |
| TRM158-12-45 | WIRE ϕ 1.0-1.2mm(45°L1neck) |



Note: Carbon steel welding cable section

1-4. NECK LINER

| Order No. | Product Description |
|---------------------|--|
| TRM158-16-25 | WIRE ϕ 1.4-1.6mm(22° And 45°neck) |
| TRM158-16-40 | WIRE ϕ 1.4-1.6mm(22°L/45°Lneck) |
| TRM158-16-45 | WIRE ϕ 1.4-1.6mm(45°L1neck) |



2. ANTI-COLLISION UNIT



2-1. SHOCK SENSOR

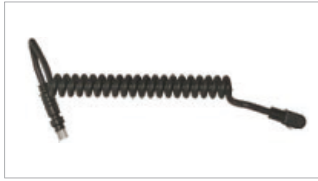
| Order No. | Product Description |
|----------------------|--|
| TRM313-01-N10 | Suitable for 22°/45° Standard Goose Neck |
| TRM313-01-N16 | Suitable for 22°L/45°L/45°L1 Extended neck |

Note: Refer to the list for detailed parameters. When ordering separately, MountArm and 5m signal cables shall be selected.

SHOCK SENSOR DATA SHEET

| ITEM | TRM313-01-N10 | TRM313-01-N16 |
|----------------------|---------------------------------------|--|
| Size | Diameter ϕ 77/Height 103.7mm | Diameter ϕ 77/Height 103.7mm |
| Weight | 0.98kg | 0.98kg |
| 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 |

Water-cooled Robot Torch



2-2. SPRING LINE

| Order No. | Product Description |
|-------------|--------------------------------|
| 3.5.11.0012 | Connect shock sensor and torch |



2-3. INSULATION DISK

| Order No. | Product Description |
|---------------|--|
| TRM233-A31402 | Fanuc R-0iB、200iD KUKA KR5 R1400、KR10 R1420、KR8 R1620 STEP SA1400SA1800; Kawasaki RA05L; 信捷等 |
| TRM233-A40252 | KUKA KR5 arc、KR6 arc、KR16 L6 arc GSK RH06、RH08; TRM231-A40252 Yasukawa MH6 那智MC20-01;钱江QJR6-3 ABB IRB 1410、ABB IRB 1600 etc |
| TRM233-A56625 | Fanuc 100ic、M10iA; Yasukawa MA1440、MH12、MA2010 |
| TRM233-A64572 | Fanuc M10iD |

Note: Including the installed screws

2-4. MOUNT ARM

| Order No. | Product Description |
|---------------|---------------------|
| TRM218-045-KT | Mount Arm |

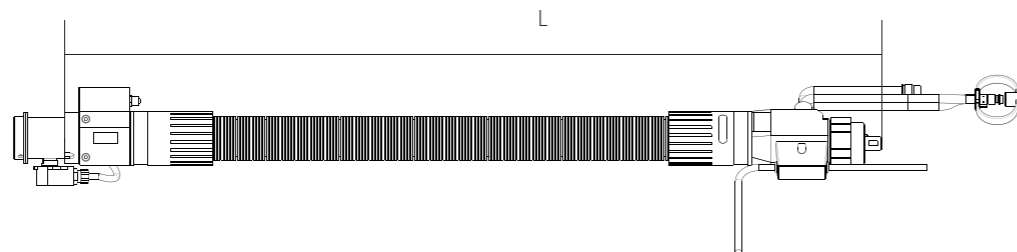


3. CABLE ASSEMBLY

3-1. CABLE ASSEMBLY

| Order No. | Product Description |
|---------------|---------------------|
| TRM651W-XXC8E | EURO CONNECTOR |

Note: XX—cable length.



Water-cooled Robot Torch

3-2. LINER

| Order No. | Product Description |
|---------------|-----------------------|
| TRM156B-12-23 | Wire Φ 1.0-1.2mm |



3-3. LINER

| Order No. | Product Description |
|---------------|-----------------------|
| TRM156B-16-23 | Wire Φ 1.4-1.6mm |



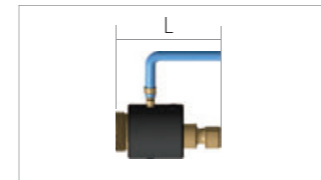
3-4. LINER HOLDER

| Order No. | Product Description |
|--------------|---------------------|
| TRM652W-E1-2 | Liner Holder |



4. ADAPTER

| Order No. | Product Description | L(mm) |
|--------------|------------------------------|-------|
| TRM149-EU-P1 | Adapt to Panasonic connector | 108 |
| TRM149-EU-L2 | Adapt to Lincoln connector | 100 |



5. O-RING& SILICONE GREASE

| Order No. | Product Description |
|------------|---------------------|
| TRM651W-PJ | O-Ring (3Pcs) |
| TM027055-A | Silicone Grease |





TRM652W

WATER COOLED

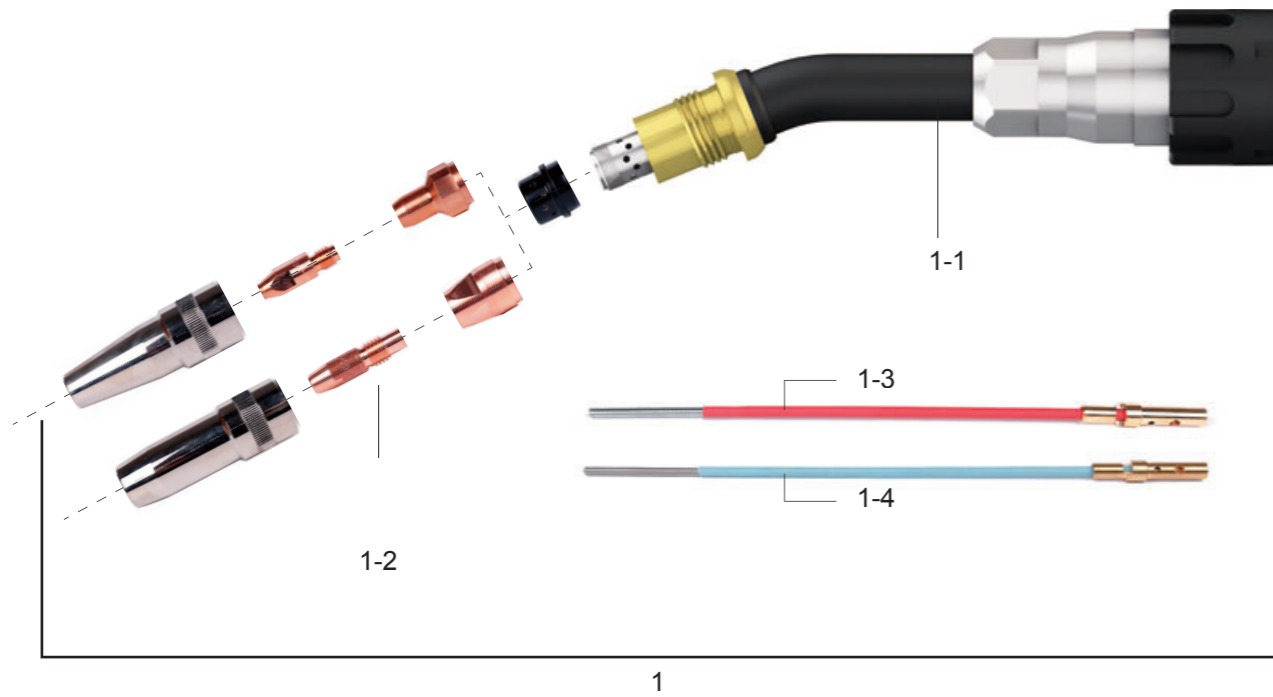


TECHNICAL DATA

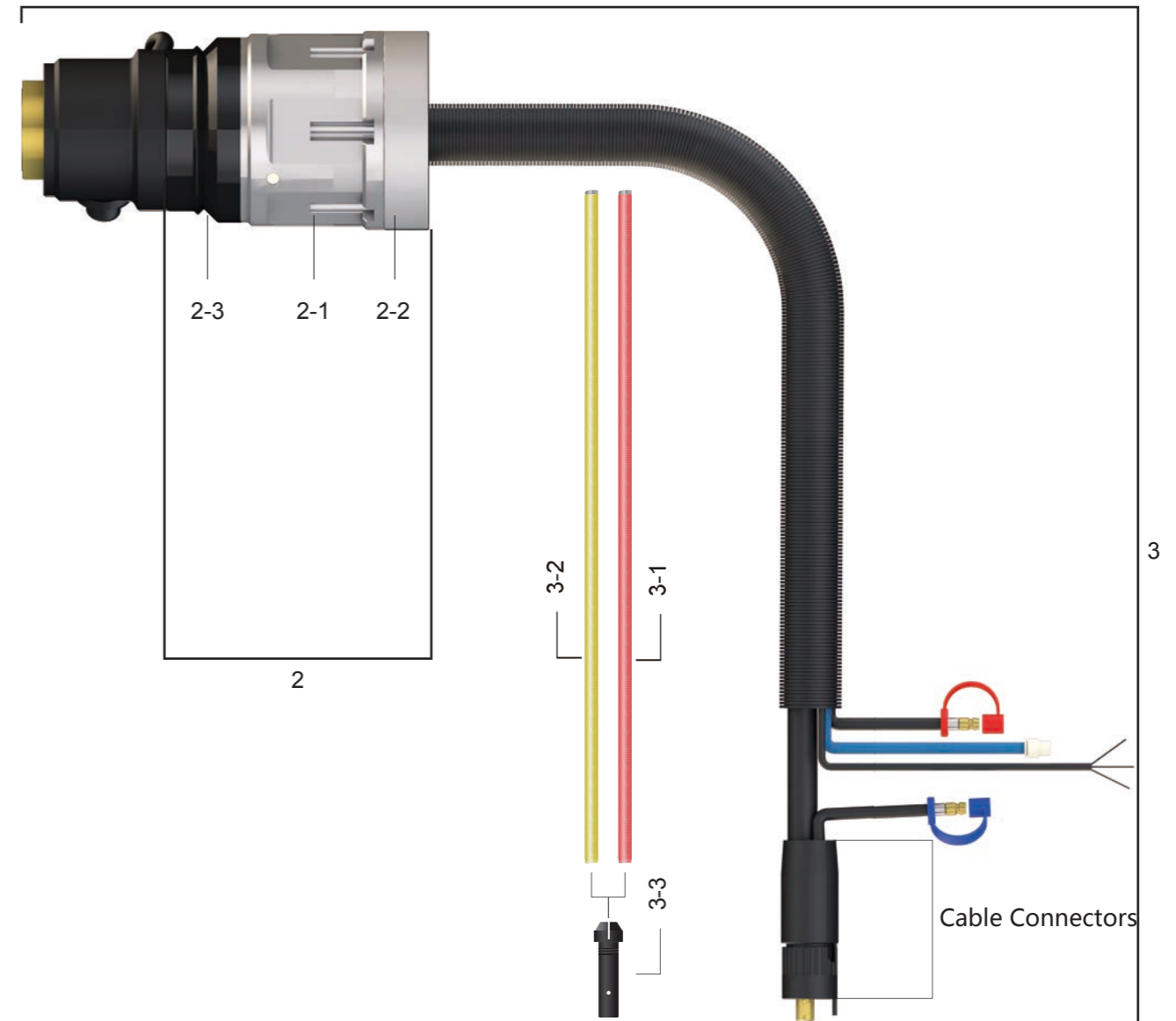
| | |
|------------------|---|
| Cooling method | WATER COOLED |
| Rating | 600A CO ₂ 550A Mixed Gas M21 (ISO14175) |
| Duty cycle | 100% |
| Wire diameter | 1.0~1.6mm |
| Torch geometries | 22° , 45° |

- Dual cooling with separate gas circuit
- Changeable goose neck with water stop function. Easy to change goose neck and do maintenance.
- With shock sensor, wire brake and gas nozzle locating functions.
- Many options for torch neck with different angle and length Standard Euro connector.

Water-cooled Robot Torch



Water-cooled Robot Torch



| | | | | | |
|------------|----------------------|------------|------------|---------------------|------------|
| 1 | Torch Neck Assembly | P29 | 2 | Anti-collision unit | P30 |
| 1-1 | Goose Neck | P29 | 2-1 | Shock Sensor | P30 |
| 1-2 | Torch Consumables | P33 | 2-2 | Insulation disk | P31 |
| 1-3 | Neck Liner (1.0-1.2) | P30 | 2-3 | Rubber dust cover | P31 |
| 1-4 | Neck Liner (1.4-1.6) | P30 | | | |

| | | |
|------------|----------------|------------|
| 3 | Cable Assembly | P31 |
| 3-1 | Liner | P31 |
| 3-2 | Liner | P31 |
| 3-3 | Liner Holder | P32 |

Water-cooled Robot Torch

ORDER GUIDE

| Order No. | Product Description |
|---------------------|--|
| TRM652W | Through-arm water-cooled torch |
| TRM652W—HQ—E | Through-arm water-cooled torch(Euro connector) |

1.TORCH NECK ASSEMBLY

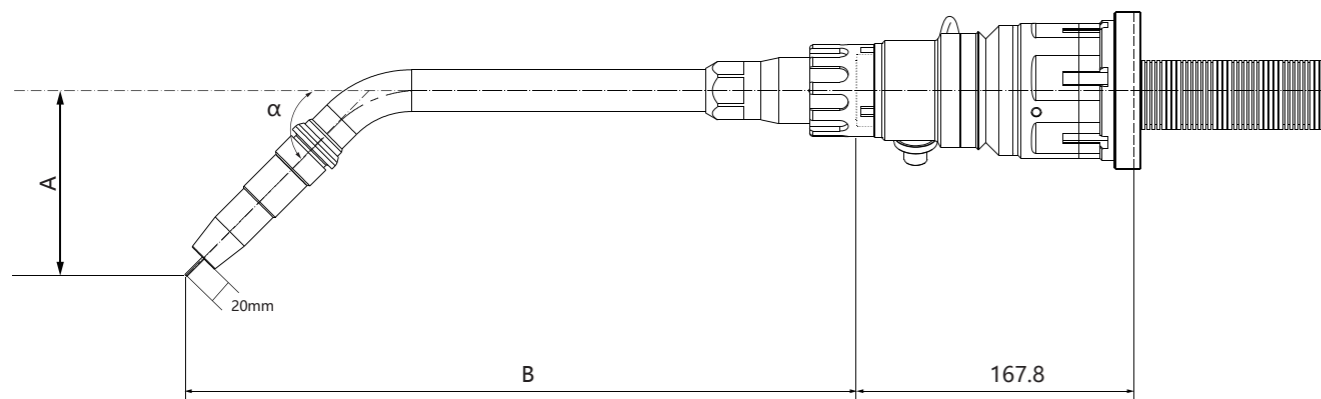


1-1. GOOSE NECK

| Order No. | Product Description |
|---------------------|------------------------------|
| TRM651W-22 | 22°, Straight length 49.6mm |
| TRM651W-22L | 22°, Straight length 149.6mm |
| TRM651W-22L3 | 22°, Straight length 345.8 |
| TRM651W-45 | 45°, Straight length 18.6mm |
| TRM651W-45L | 45°, Straight length 118.6mm |
| TRM651W-45L1 | 45°, Straight length 178.6mm |
| TRM651W-45L3 | 45°, Straight length 316mm |

TCP DATA

| α | A | B | Angle | Neck part no |
|----------|--------|-------|-------|--------------|
| 22° | 52.35 | 287.5 | 22° | TRM651W-22 |
| 22° | 52.35 | 387.4 | 22° | TRM651W-22L |
| 22° | 52 | 583 | 22° | TRM651W-22L3 |
| 45° | 114.57 | 254.6 | 45° | TRM651W-45 |
| 45° | 114.57 | 354.6 | 45° | TRM651W-45L |
| 45° | 114.57 | 414.6 | 45° | TRM651W-45L1 |
| 45° | 116.6 | 554 | 45° | TRM651W-45L3 |



Water-cooled Robot Torch

1-3. NECK LINER

| Order No. | Product Description |
|---------------------|--|
| TRM158-12-25 | WIRE ϕ 1.0-1.2mm(22° And 45°neck) |
| TRM158-12-40 | WIRE ϕ 1.0-1.2mm(22°L/45°Lneck) |
| TRM158-12-45 | WIRE ϕ 1.0-1.2mm(45°L1neck) |



Note: Carbon steel welding cable section

1-4. NECK LINER

| Order No. | Product Description |
|---------------------|--|
| TRM158-16-25 | WIRE ϕ 1.4-1.6mm(22° And 45°neck) |
| TRM158-16-40 | WIRE ϕ 1.4-1.6mm(22°L/45°Lneck) |
| TRM158-16-45 | WIRE ϕ 1.4-1.6mm(45°L1neck) |



2.ANTI-COLLISION UNIT



2-1. SHOCK SENSOR

| Order No. | Product Description |
|----------------------|--|
| TRM316-01-N10 | Suitable for 22°/45° Standard Goose Neck |
| TRM316-01-N16 | Suitable for 22°L/45°L/45°L1 extended neck |

SHOCK SENSOR DATA SHEET

| ITEM | TRM316-01-N10 | TRM316-01-N16 |
|---|---|--|
| Size | Diameter ϕ 85mm/Height 89mm | Diameter ϕ 85mm/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 repeatability(400mm) | X/Y deflection approx. 10° Within 0.15mm | X/Y deflection approx. 6° 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 |

Water-cooled Robot Torch



2-2. INSULATION DISK

| Order No. | Product Description |
|--------------------------|--|
| TRM236-AMA1440 | Yasukawa MA1440/AR1440/MA2010/AR2010 ; Yasukawa MH12/MH24 ; FANUC M-10iA Series,M-20iA Series ; 摩卡MR Series ; 卡诺普RH Series ; 智昌中空 Series |
| TRM236-AM10ID | FANUC M-10iD Series,M-20iD Series |
| TRM236-AOTCAII-B4 | OTC AII-B4/B4L ; FD-B4/B4L |
| TRM236-ATM1400 | Panasonic TM1400/TM1800/TM2000 |
| TRM236-AIRB1520ID | ABB IRB1520ID |
| TRM236-ABA006N | Kawasaki BA006N,BA006L |
| TRM236-ARH06A2 | GSK RH06A2 |
| TRM236-AER6-1450H | ESTUN ER6-1450H |

Note: Including the installed screws



2-3. RUBBER DUST COVER

| Order No. | Product Description |
|-------------------------|------------------------|
| TRM652W-061-8-10 | blackRubber dust cover |

3. CABLE ASSEMBLY

3-1. LINER

| Order No. | Product Description |
|----------------------|-----------------------|
| TRM156B-12-23 | WIRE ϕ 1.0-1.2mm |

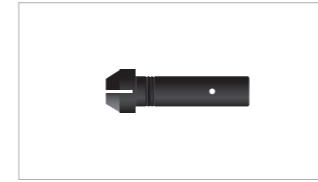


3-2. LINER

| Order No. | Product Description |
|----------------------|-----------------------|
| TRM156B-16-23 | WIRE ϕ 1.4-1.6mm |

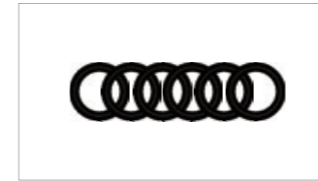


Water-cooled Robot Torch



3-3. LINER HOLDER

| Order No. | Product Description |
|---------------------|---------------------|
| TRM652W-E1-2 | Liner holder |



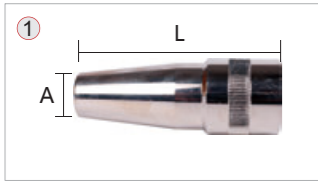
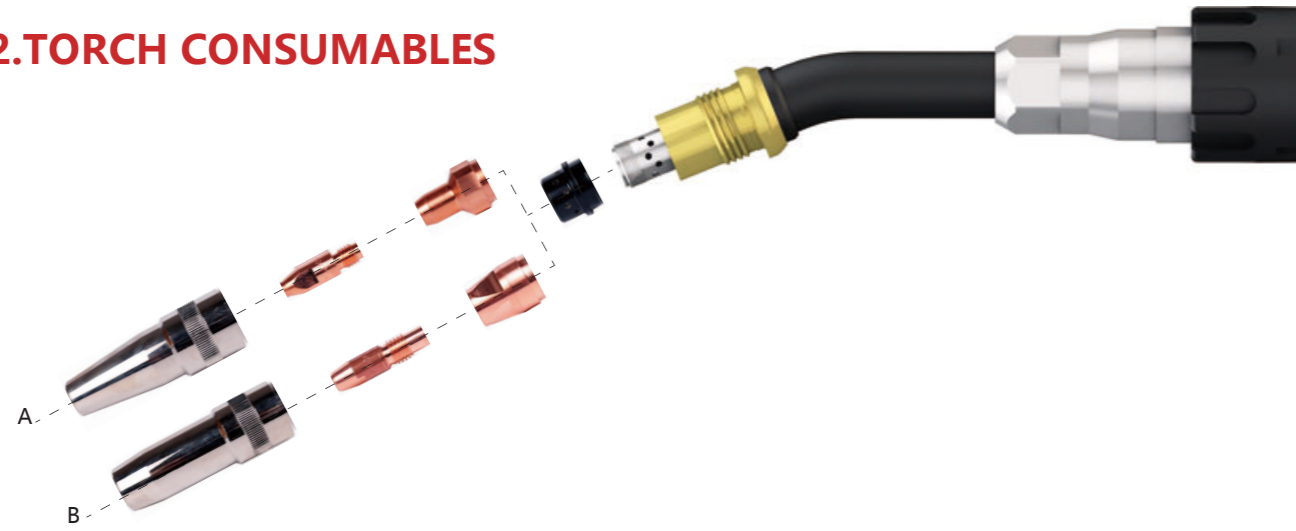
4. O-RING& SILICONE GREASE

| Order No. | Product Description |
|-------------------|---------------------|
| TRM651W-PJ | O-Ring (3Pcs) |
| TM027055-A | Silicone Grease |



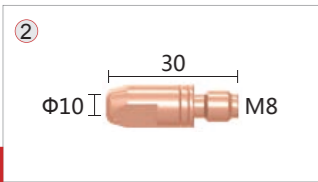
Suitable for TRM651W/TRM652W

1-2.TORCH CONSUMABLES



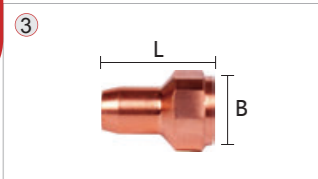
A.NOZZLE

| Order No. | Product Description | L (mm) | A (mm) |
|--------------|---------------------|--------|--------|
| TRM017-01-16 | Tip flush | 92 | Φ16 |



A.CONTACT TIP

| Order No. | Product Description |
|--------------|---------------------|
| TRM035-03-10 | M8 φ1.0 (long life) |
| TRM035-03-12 | M8 φ1.2 (long life) |
| TRM035-03-14 | M8 φ1.4 (long life) |
| TRM035-03-16 | M8 φ1.6 (long life) |



A.TIP HOLDER

| Order No. | Product Description | L (mm) | B (mm) |
|-----------|---------------------|--------|--------|
| TRM047-02 | M8 | 28 | M 10×1 |



GAS DIFFUSER

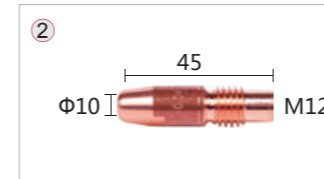
| Order No. | Product Description |
|-----------|---------------------|
| TRM029-01 | black |

Suitable for TRM651W/TRM652W



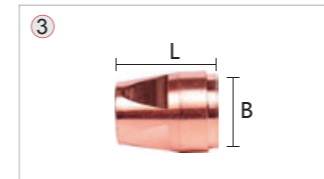
B.NOZZLE

| Order No. | Product Description | L (mm) | A (mm) |
|----------------|---------------------|--------|--------|
| TRM017-01-18 | Tip flush | 92 | Φ18 |
| TRM017-01-21.5 | Tip flush | 92 | Φ21.5 |
| TRM017-02-21.5 | Tip stick out +6 | 86 | Φ21.5 |
| TRM017-03-21.5 | Tip recess-3 | 95 | Φ21.5 |



B.CONTACT TIP

| Order No. | Product Description |
|--------------|----------------------|
| TRM037-03-10 | M12 φ1.0 (long life) |
| TRM037-03-12 | M12 φ1.2 (long life) |
| TRM037-03-14 | M12 φ1.4 (long life) |
| TRM037-03-16 | M12 φ1.6 (long life) |



B.TIP HOLDER

| Order No. | Product Description | L (mm) | B (mm) |
|-----------|---------------------|--------|--------|
| TRM047-01 | M12 | 28 | M 16×1 |



GAS DIFFUSER

| Order No. | Product Description |
|-----------|---------------------|
| TRM029-01 | black |

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易损件



TRM613W

WATER COOLED

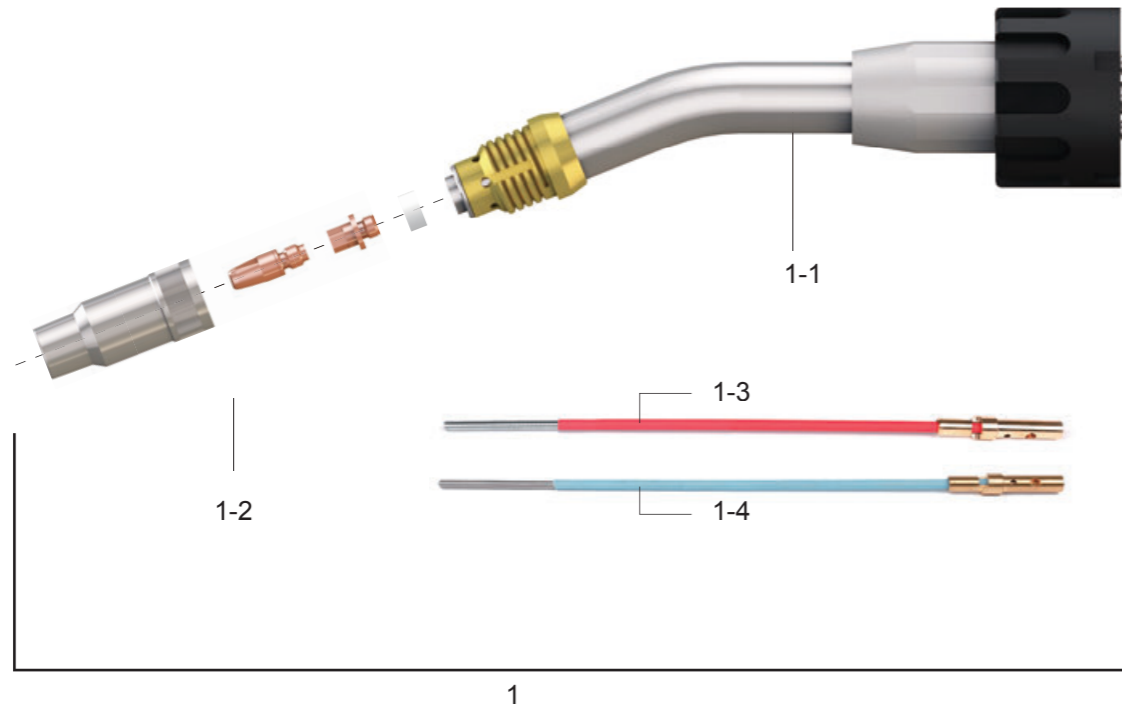


TECHNICAL DATA

| | |
|------------------|--|
| Cooling method | WATER COOLED |
| Rating | 550A CO ₂ 500A Mixed Gas M21(ISO14175) |
| Duty cycle | 100% |
| Wire diameter | 1.0~1.6mm |
| Torch geometries | 22° , 45° |

- Dual cooling with separate gas circuit
- Changeable goose neck with water stop function. Easy to change goose neck and do maintenance.
- With shock sensor, wire brake and gas nozzle locating functions.
- Many options for torch neck with different angle and length Standard Euro connector.

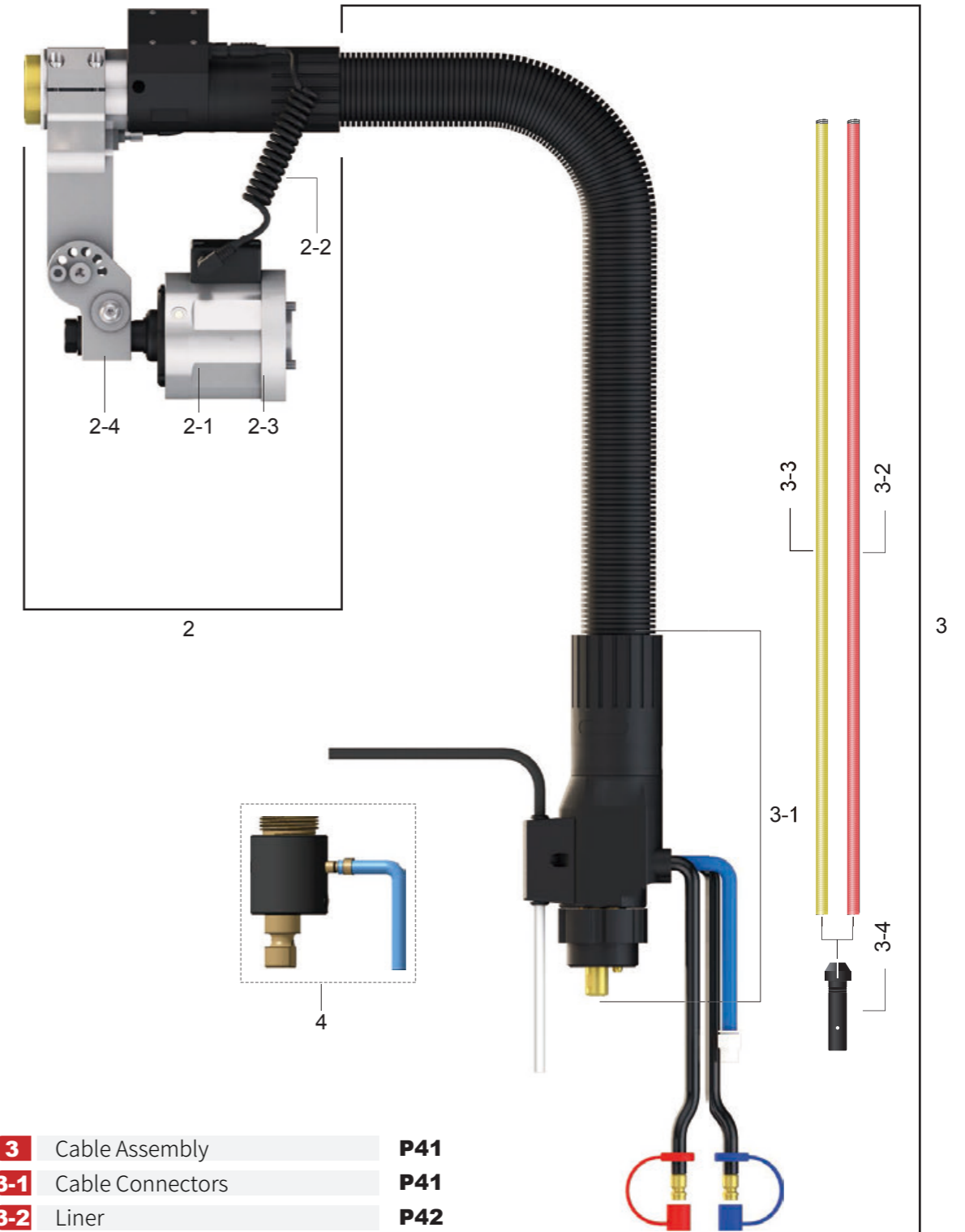
Water-cooled Robot Torch



| | | |
|------------|----------------------|------------|
| 1 | Torch Neck Assembly | P39 |
| 1-1 | Goose Neck | P39 |
| 1-2 | Torch Consumables | P51 |
| 1-3 | Neck Liner (1.0-1.2) | P40 |
| 1-4 | Neck Liner (1.4-1.6) | P40 |

| | | |
|------------|---------------------|------------|
| 2 | Anti-collision unit | P40 |
| 2-1 | Shock Sensor | P40 |
| 2-2 | shock sensor line | P41 |
| 2-3 | Insulation disk | P41 |
| 2-4 | Mount Arm | P41 |

Water-cooled Robot Torch



| | | |
|------------|------------------|------------|
| 3 | Cable Assembly | P41 |
| 3-1 | Cable Connectors | P41 |
| 3-2 | Liner | P42 |
| 3-3 | Liner | P42 |
| 3-4 | Liner Holder | P42 |
| 4 | Adapter | P42 |

ORDER GUIDE

| Order No. | Product Description |
|---------------------|---|
| TRM613W | Over-arm water-cooled torch |
| TRM613W—HQ—E | Over-arm water-cooled torch(Euro connector) |

Note: For other types of interfaces, adapters shall be provided.

1. TORCH NECK ASSEMBLY

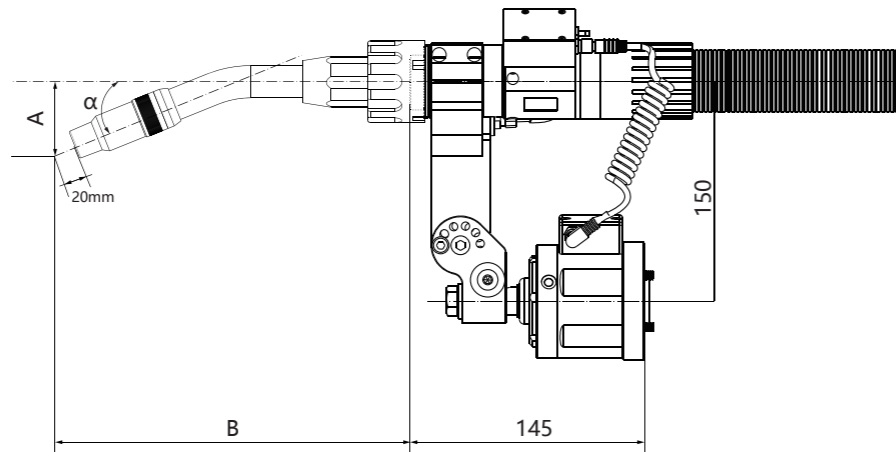


1-1. GOOSE NECK

| Order No. | Product Description |
|---------------------|--------------------------------|
| TRM613W-22 | 22° , Straight length 37mm |
| TRM613W-22L | 22° , Straight length 162.8mm |
| TRM613W-45 | 45° , Straight length 24.75mm |
| TRM613W-45L | 45° , Straight length 124.75mm |
| TRM613W-45L1 | 45° , Straight length 221.6mm |
| TRM613W-45L2 | 45° , Straight length 302mm |

TCP DATA

| α | A | B | Angle | Neck part no |
|----------|--------|--------|-------|--------------|
| 22° | 50.2 | 247.45 | 22° | TRM613W-22 |
| 22° | 50.05 | 374 | 22° | TRM613W-22L |
| 45° | 107.56 | 235.86 | 45° | TRM613W-45 |
| 45° | 107.56 | 335.86 | 45° | TRM613W-45L |
| 45° | 109.87 | 435 | 45° | TRM613W-45L1 |
| 45° | 105 | 511 | 45° | TRM613W-45L2 |



1-3. NECK LINER

| Order No. | Product Description |
|---------------------|--|
| TRM158-12-25 | WIRE ϕ 1.0-1.2mm(22° And 45°neck) |
| TRM158-12-40 | WIRE ϕ 1.0-1.2mm(22°L/45°Lneck) |
| TRM158-12-45 | WIRE ϕ 1.0-1.2mm(45°L1neck) |



Note: Carbon steel welding cable section

1-4. NECK LINER

| Order No. | Product Description |
|---------------------|--|
| TRM158-16-25 | WIRE ϕ 1.4-1.6mm(22° And 45°neck) |
| TRM158-16-40 | WIRE ϕ 1.4-1.6mm(22°L/45°Lneck) |
| TRM158-16-45 | WIRE ϕ 1.4-1.6mm(45°L1neck) |



2.ANTI-COLLISION UNIT



2-1. SHOCK SENSOR

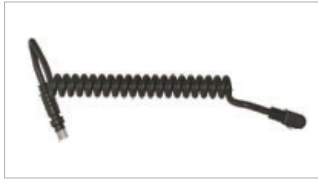
| Order No. | Product Description |
|----------------------|---|
| TRM313-01-N10 | Suitable for22°/45°Standard Goose Neck |
| TRM313-01-N16 | Suitable for22°L/45°L/45°L1 Extended neck |

Note: Refer to the list for detailed parameters. When ordering separately, MountArm and 5m signal cables shall be selected.

SHOCK SENSOR DATA SHEET

| ITEM | TRM313-01-N10 | TRM313-01-N16 |
|---|---------------------------------------|--|
| Size | Diameter ϕ 77/Height 103.7mm | Diameter ϕ 77/Height 103.7mm |
| Weight | 0.98kg | 0.98kg |
| Sensing Accuracy | 1°~1.5° | 1°~1.5° |
| Maximum deflection repeatability(400mm) | XY direction 8° 0.1~0.15mm | XY direction 4° 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 |

Water-cooled Robot Torch



2-2. SPRING LINE

| Order No. | Product Description |
|-------------|------------------------------------|
| 3.5.11.0012 | To connect shock sensor with torch |



2-3. INSULATION DISK

| Order No. | Product Description |
|---------------|--|
| TRM233-A31402 | Fanuc R-0iB、200iD KUKA KR5 R1400、KR10 R1420、KR8 R1620 STEP SA1400SA1800; Kawasaki RA05L; 信捷等 |
| TRM233-A40252 | KUKA KR5 arc、KR6 arc、KR16 L6 arc GSK RH06、RH08; TRM231-A40252 Yasukawa MH6 那智MC20-01;钱江QJR6-3 ABB IRB 1410、ABB IRB 1600 etc |
| TRM233-A56625 | Fanuc 100ic、M10iA; Yasukawa MA1440、MH12、MA2010 |
| TRM233-A64572 | Fanuc M10iD |

Note: Including the installed screws

2-4. MOUNT ARM

| Order No. | Product Description |
|---------------|---------------------|
| TRM218-045-KT | Mount Arm |

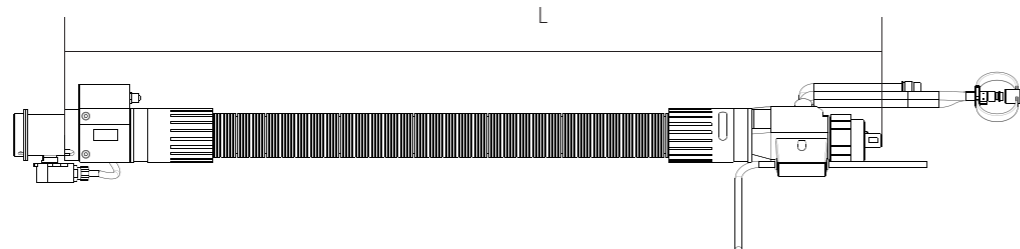


3. CABLE ASSEMBLY

3-1. CABLE ASSEMBLY

| Order No. | Product Description |
|---------------|---------------------|
| TRM651W-XXC8E | EURO CONNECTOR |

Note: XX—cable length.



Water-cooled Robot Torch

3-2. LINER

| Order No. | Product Description |
|---------------|-----------------------|
| TRM156B-12-23 | Wire Φ 1.0-1.2mm |



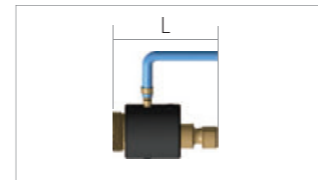
3-3. LINER

| Order No. | Product Description |
|---------------|-----------------------|
| TRM156B-16-23 | Wire Φ 1.4-1.6mm |



3-4. LINER HOLDER

| Order No. | Product Description |
|--------------|---------------------|
| TRM652W-E1-2 | Liner Holder |



4. ADAPTER

| Order No. | Product Description | L(mm) |
|--------------|------------------------------|-------|
| TRM149-EU-P1 | Adapt to Panasonic connector | 108 |
| TRM149-EU-L2 | Adapt to Lincoln connector | 100 |



5. O-RING& SILICONE GREASE

| Order No. | Product Description |
|------------|---------------------|
| TRM651W-PJ | O-Ring (3Pcs) |
| TM027055-A | Silicone Grease |





TRM612W

WATER COOLED

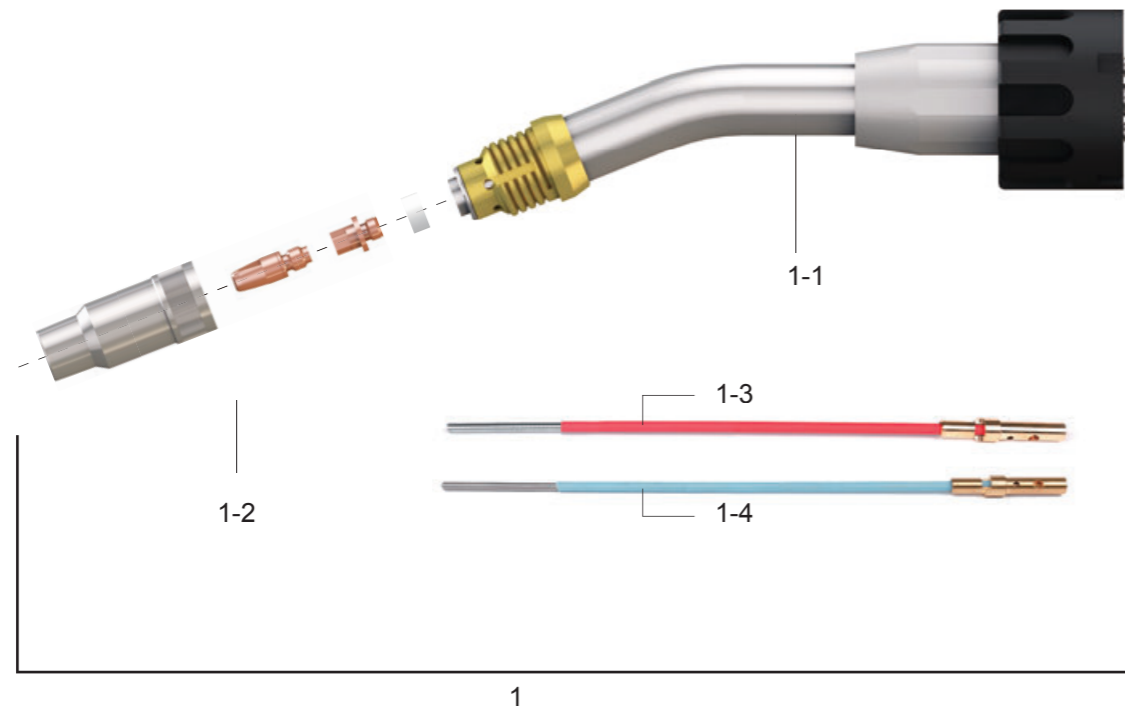


TECHNICAL DATA

| | |
|------------------|---|
| Cooling method | WATER COOLED |
| Rating | 550A CO ₂ 500A Mixed Gas M21 (ISO14175) |
| Duty cycle | 100% |
| Wire diameter | 1.0~1.6mm |
| Torch geometries | 22° , 45° |

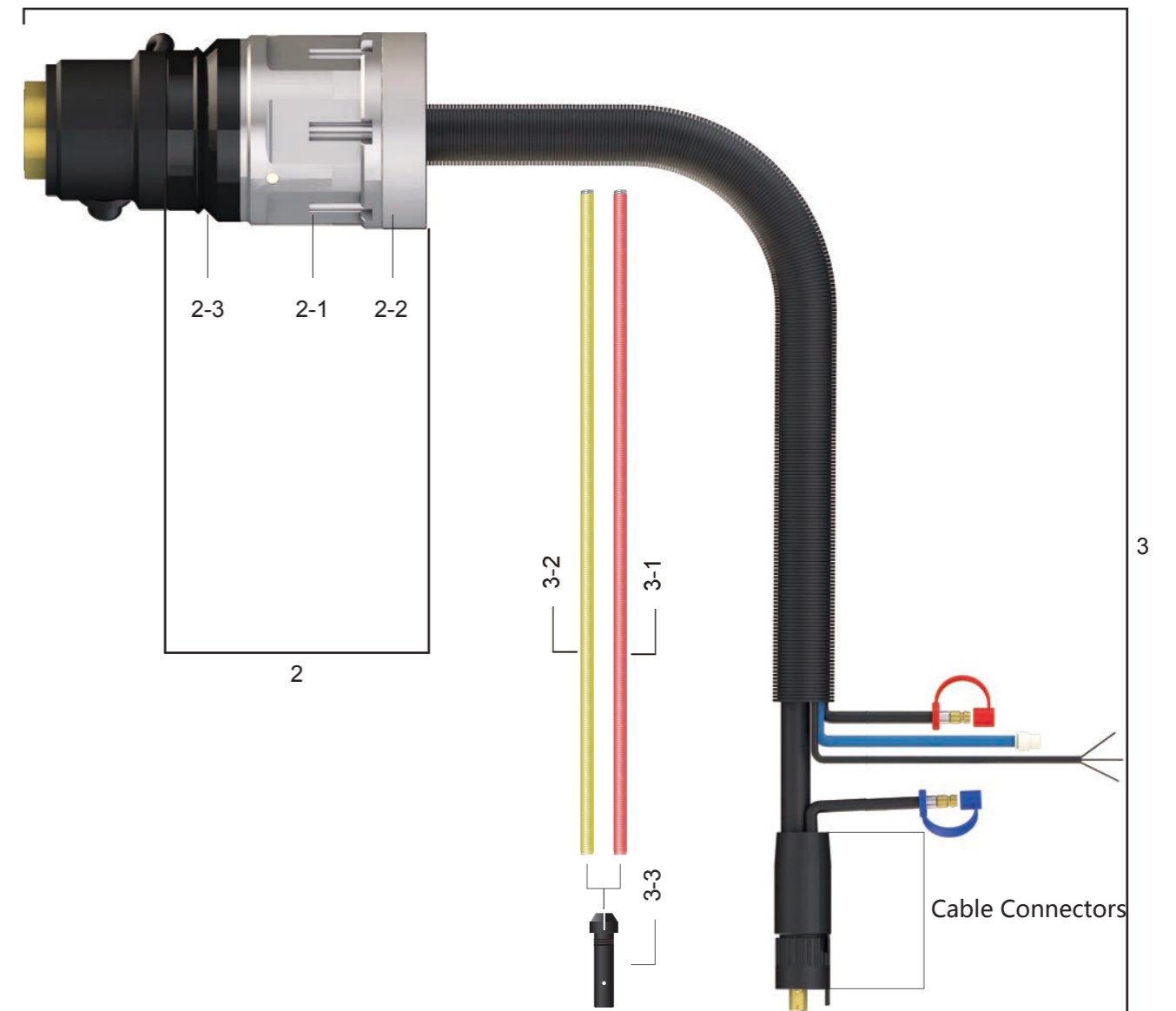
- Dual cooling with separate gas circuit
- Changeable goose neck with water stop function. Easy to change goose neck and do maintenance.
- With shock sensor, wire brake and gas nozzle locating functions.
- Many options for torch neck with different angle and length Standard Euro connector.

Water-cooled Robot Torch



| | | | | | |
|------------|----------------------|------------|------------|---------------------|------------|
| 1 | Torch Neck Assembly | P49 | 2 | Anti-collision unit | P50 |
| 1-1 | Goose Neck | P49 | 2-1 | Shock Sensor | P50 |
| 1-2 | Torch Consumables | P50 | 2-2 | Insulation disk | P51 |
| 1-3 | Neck Liner (1.0-1.2) | P50 | 2-3 | Rubber dust cover | P51 |
| 1-4 | Neck Liner (1.4-1.6) | P50 | | | |

Water-cooled Robot Torch



| | | |
|------------|----------------|------------|
| 3 | Cable Assembly | P51 |
| 3-1 | Liner | P51 |
| 3-2 | Liner | P51 |
| 3-3 | Liner Holder | P51 |

ORDER GUIDE

| Order No. | Product Description |
|---------------------|--|
| TRM612W | Through-arm water-cooled torch |
| TRM612W—HQ—E | Through-arm water-cooled torch(Euro connector) |

1. TORCH NECK ASSEMBLY

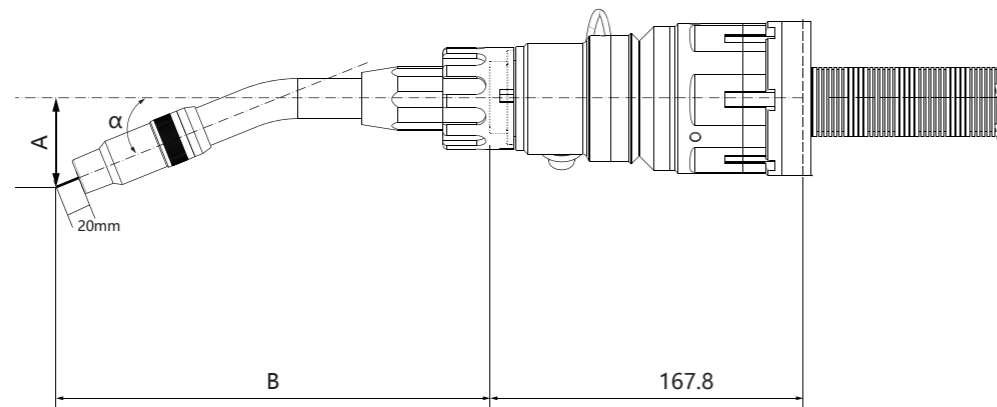


1-1. GOOSE NECK

| Order No. | Product Description |
|---------------------|--------------------------------|
| TRM613W-22 | 22° , Straight length 37mm |
| TRM613W-22L | 22° , Straight length 162.8mm |
| TRM613W-45 | 45° , Straight length 24.75mm |
| TRM613W-45L | 45° , Straight length 124.75mm |
| TRM613W-45L1 | 45° , Straight length 221.6mm |
| TRM613W-45L2 | 45° , Straight length 302mm |

TCP DATA

| α | A | B | Angle | Neck part no |
|----------|--------|--------|-------|--------------|
| 22° | 50.2 | 247.45 | 22° | TRM613W-22 |
| 22° | 50.05 | 374 | 22° | TRM613W-22L |
| 45° | 107.56 | 235.86 | 45° | TRM613W-45 |
| 45° | 107.56 | 335.86 | 45° | TRM613W-45L |
| 45° | 109.87 | 435 | 45° | TRM613W-45L1 |
| 45° | 105 | 511 | 45° | TRM613W-45L2 |



1-3. NECK LINER

| Order No. | Product Description |
|---------------------|--|
| TRM158-12-25 | WIRE ϕ 1.0-1.2mm(22° And 45°neck) |
| TRM158-12-40 | WIRE ϕ 1.0-1.2mm(22°L/45°Lneck) |
| TRM158-12-45 | WIRE ϕ 1.0-1.2mm(45°L1neck) |



Note: Carbon steel welding cable section

1-4. NECK LINER

| Order No. | Product Description |
|---------------------|--|
| TRM158-16-25 | WIRE ϕ 1.4-1.6mm(22° And 45°neck) |
| TRM158-16-40 | WIRE ϕ 1.4-1.6mm(22°L/45°Lneck) |
| TRM158-16-45 | WIRE ϕ 1.4-1.6mm(45°L1neck) |



2.ANTI-COLLISION UNIT



2-1. SHOCK SENSOR

| Order No. | Product Description |
|----------------------|--|
| TRM316-01-N10 | Suitable for 22°/45° Standard Goose Neck |
| TRM316-01-N16 | Suitable for 22°L/45°L/45°L1 Extended neck |

SHOCK SENSOR DATA SHEET

| ITEM | TRM316-01-N10 | TRM316-01-N16 |
|----------------------|---|---|
| Size | Diameter ϕ 85mm/Height 89mm | Diameter ϕ 85mm/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 |

Water-cooled Robot Torch



2-2. INSULATION DISK

| Order No. | Product Description |
|--------------------------|--|
| TRM236-AMA1440 | Yasukawa MA1440/AR1440/MA2010/AR2010 ; Yasukawa MH12/MH24 ; FANUC M-10iA Series,M-20iA Series ; 摩卡MR Series ; 卡诺普RH Series ; 智昌中空 Series |
| TRM236-AM10ID | FANUC M-10iD Series,M-20iD Series |
| TRM236-AOTCAII-B4 | OTC AII-B4/B4L ; FD-B4/B4L |
| TRM236-ATM1400 | Panasonic TM1400/TM1800/TM2000 |
| TRM236-AIRB1520ID | ABB IRB1520ID |
| TRM236-ABA006N | Kawasaki BA006N,BA006L |
| TRM236-ARH06A2 | GSK RH06A2 |
| TRM236-AER6-1450H | ESTUN ER6-1450H |

Note: Including the installed screws



2-3. RUBBER DUST COVER

| Order No. | Product Description |
|-------------------------|------------------------|
| TRM652W-061-8-10 | blackRubber dust cover |

3. CABLE ASSEMBLY

3-1. LINER

| Order No. | Product Description |
|----------------------|-----------------------|
| TRM156B-12-23 | WIRE ϕ 1.0-1.2mm |

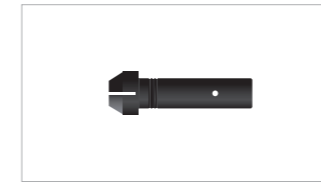


3-2. LINER

| Order No. | Product Description |
|----------------------|-----------------------|
| TRM156B-16-23 | WIRE ϕ 1.4-1.6mm |

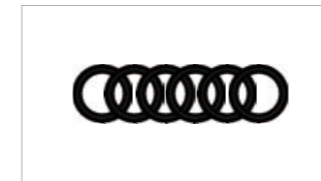


Water-cooled Robot Torch



3-3. LINER HOLDER

| Order No. | Product Description |
|---------------------|---------------------|
| TRM652W-E1-2 | Liner holder |



4. O-RING& SILICONE GREASE

| Order No. | Product Description |
|-------------------|---------------------|
| TRM651W-PJ | O-Ring (3Pcs) |
| TM027055-A | Silicone Grease |





TRM501(P)

AIR-COOLED



TECHNICAL DATA

TRM501

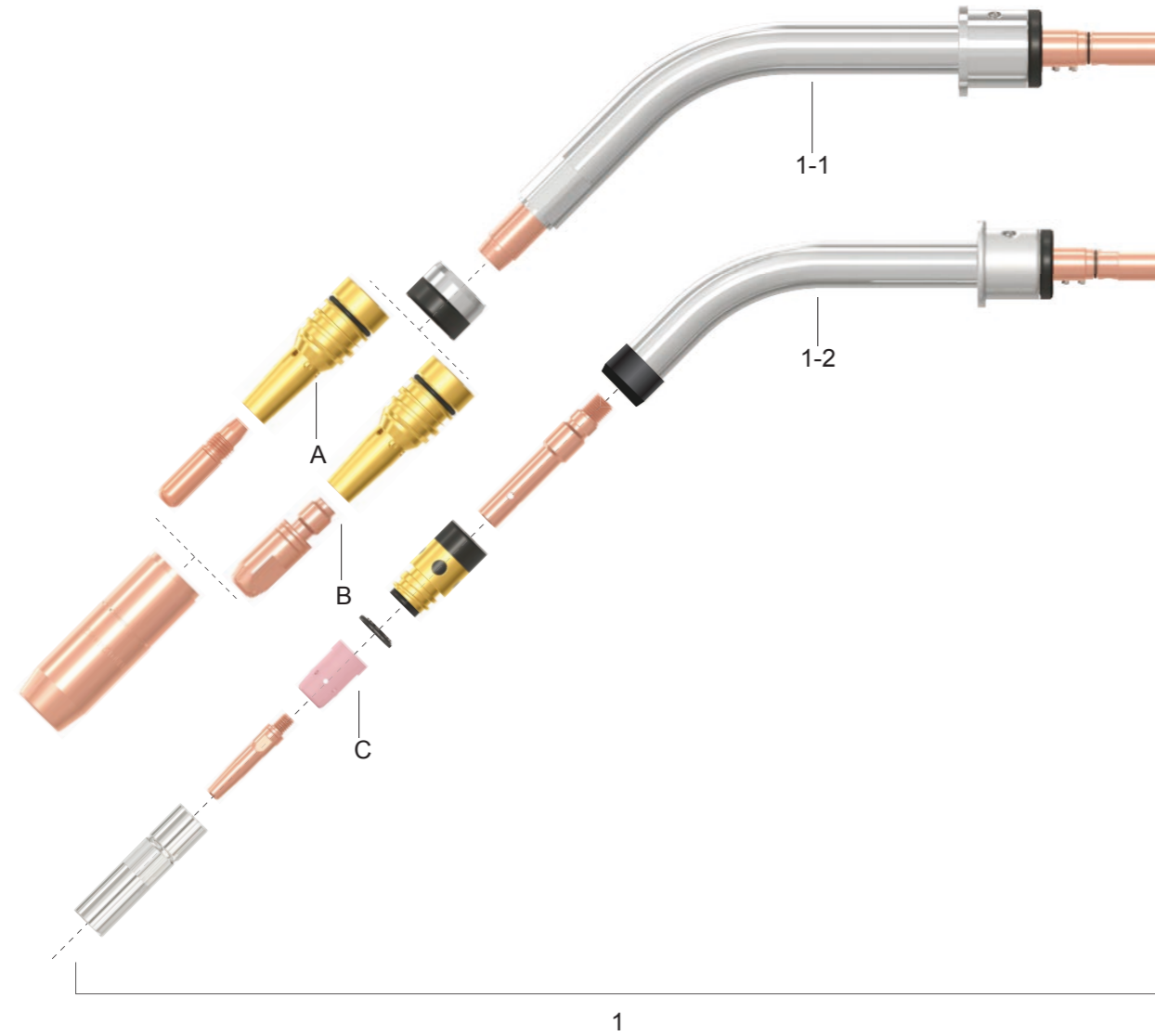
| | |
|------------------|--|
| Cooling method | AIR COOLING |
| Rating | 500A CO ₂ 385A Mixed Gas M21(ISO14175) |
| Duty cycle | 100% |
| Wire diameter | 0.8~1.6mm |
| Torch geometries | 22°, 35°, 45°, 60° |

TRM501P

| | |
|------------------|----------------------|
| Cooling method | Air cooling |
| Rating | 350A CO ₂ |
| Duty cycle | 100% |
| Wire diameter | 0.8~1.2mm |
| Torch geometries | 31°, 45° |

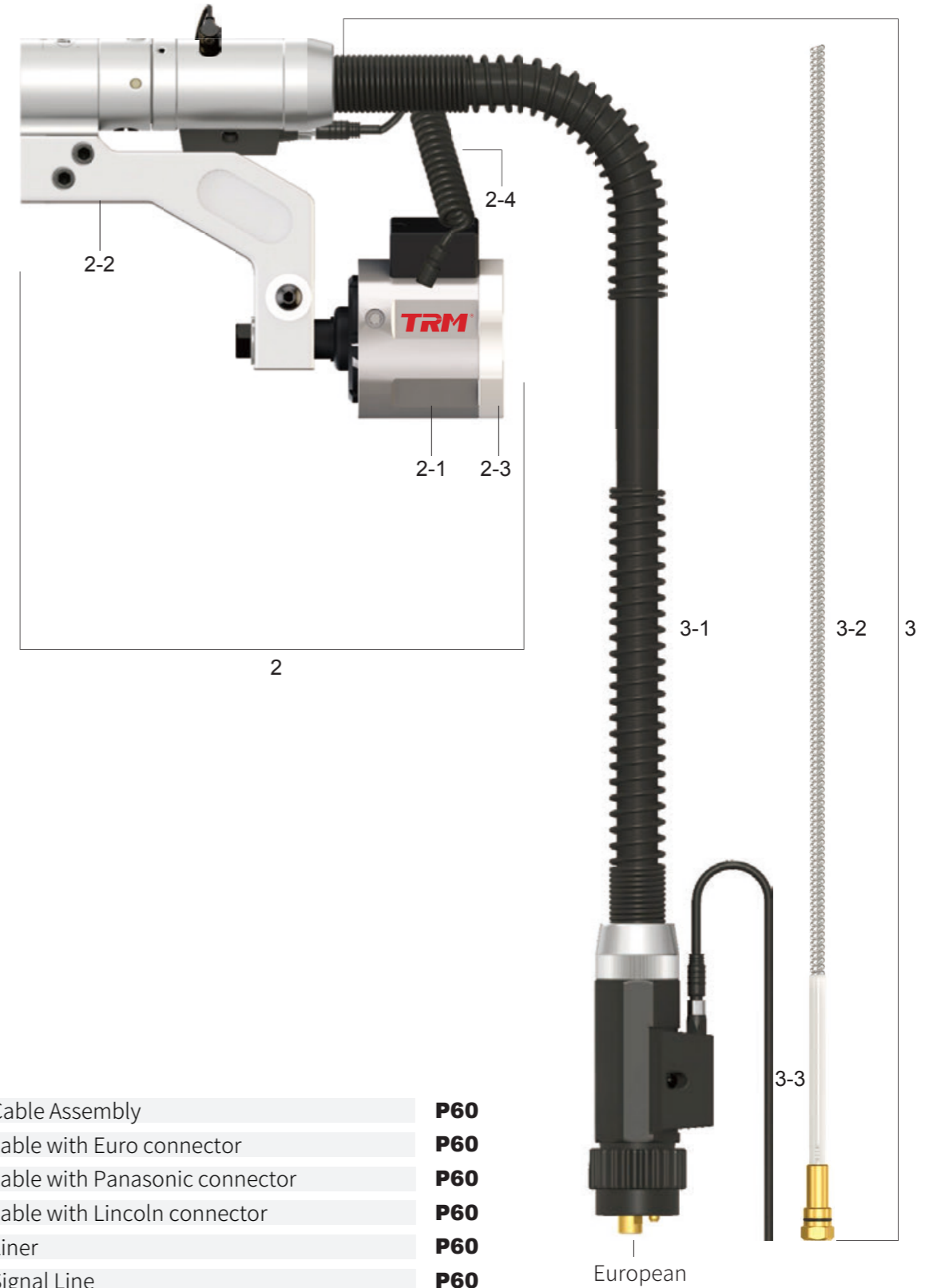
- Quick-change gun tube. Strong and durable torch body with aviation hard aluminium
- With shock sensor, optional wire brake function
- Multiple options for goose neck and nozzle for different working conditions
- Be available for popular wire feeder connection like: Lincoln[®], Panasonic[®] and European style etc.

Air-cooled Robot Torch



| | | | | | |
|------------|-------------------------------------|------------|------------|---------------------|------------|
| 1 | Torch neck assembly | P57 | 2 | Anti-collision unit | P58 |
| 1-1 | Goose Neck (American/European type) | P57 | 2-1 | Shock Sensor | P59 |
| 1-2 | Goose Neck (Japanese type) | P58 | 2-2 | Mounting Arm | P59 |
| A | Torch consumables (American type) | P85 | 2-3 | Insulation Disk | P59 |
| B | Torch consumables (European type) | P86 | 2-4 | Spring Line | P59 |
| C | Torch consumables (Japanese) | P87 | | | |

Air-cooled Robot Torch



| | | |
|------------|--------------------------------|------------|
| 3 | Cable Assembly | P60 |
| 3-1 | cable with Euro connector | P60 |
| | cable with Panasonic connector | P60 |
| | cable with Lincoln connector | P60 |
| 3-2 | Liner | P60 |
| 3-3 | Signal Line | P60 |

TRM501(P)

TRM501(P)

ORDER GUIDE

| Order No. | Product Description |
|--------------------|---|
| TRM501 | Over-arm Air-cooled torch |
| TRM501-HQ-E | Over-arm Air-cooled torch (Euro connector) |
| TRM501-HQ-P | Over-arm Air-cooled torch (Panasonic connector) |
| TRM501-HQ-L | Over-arm Air-cooled torch (Lincoln connector) |

1. GOOSE NECK ASSEMBLY

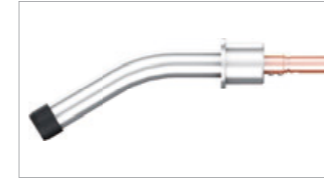
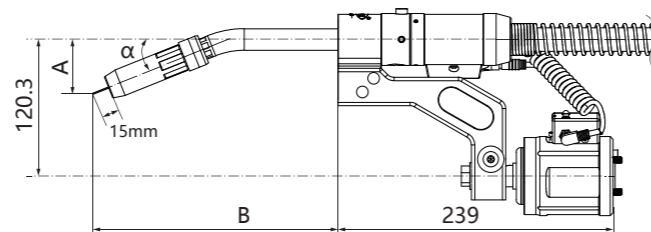


1-1. GOOSE NECK

| Order No. | Product Description |
|---------------------|--|
| TRM501-22 | Goose neck(American style, 22°, one-touch quick change) |
| TRM501-22L | Goose neck(American style, 22°L, one-touch quick change) |
| TRM501-35L-A | Goose neck(American style, 35°L, one-touch quick change) |
| TRM501-45 | Goose neck(American style, 45°, one-touch quick change) |
| TRM501-45L | Goose neck(American style, 45°L, one-touch quick change) |
| TRM501-45L1 | Goose neck(American style, 45°L, one-touch quick change) |
| TRM501-45L2 | Goose neck(American style, 45°L, one-touch quick change) |
| TRM501-60 | Goose neck(American style, 60°, one-touch quick change) |

TCP DATA

| α | A | B | Angle | Neck part no |
|----------|--------|--------|-------|--------------|
| 22° | 46.84 | 285.84 | 22° | TRM501-22 |
| 22° | 46.78 | 342.91 | 22° | TRM501-22L |
| 35° | 117.76 | 300.96 | 35° | TRM501-35L-A |
| 45° | 100.23 | 238.27 | 45° | TRM501-45 |
| 45° | 120.23 | 285.19 | 45° | TRM501-45L |
| 45° | 120.23 | 340.19 | 45° | TRM501-45L1 |
| 45° | 120.23 | 390.19 | 45° | TRM501-45L2 |
| 60° | 133.59 | 236.52 | 60° | TRM501-60 |

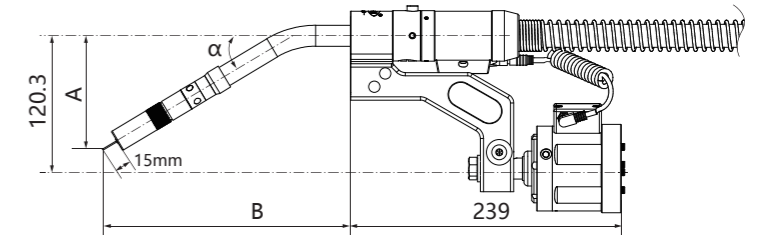


1-2. GOOSE NECK

| Order No. | Product Description |
|---------------------|--|
| TRM501-P31-B | Goose neck(Japanese style, 31°, one-touch quick change) |
| TRM501-P31L | Goose neck(Japanese style, 31°L, one-touch quick change) |
| TRM501-P45L | Goose neck(Japanese style, 45°L, one-touch quick change) |
| TRM501-P45L1 | Goose neck(Japanese style, 45°L, one-touch quick change) |

TCP DATA

| α | A | B | Angle | Neck part no |
|----------|--------|--------|-------|--------------|
| 31° | 84.04 | 265.2 | 31° | TRM501-P31-B |
| 31° | 84.04 | 433.7 | 31° | TRM501-P31L |
| 45° | 103.06 | 268.01 | 45° | TRM501-P45L |
| 45° | 103.06 | 323.01 | 45° | TRM501-P45L1 |



2. ANTI-COLLISION UNIT



2-1. SHOCK SENSOR

| Order No. | Product Description |
|----------------------|---|
| TRM313-01-N10 | Suitable for Standard Goose Neck and L/L1 |
| TRM313-01-N16 | Suitable for L2 and more length or with additional device |

Note: Refer to the list for detailed parameters. When ordering separately, MountArm and 5m signal cables shall be selected.

SHOCK SENSOR DATA SHEET

| ITEM | TRM313-01-N10 | TRM313-01-N16 |
|---|---------------------------------------|--|
| Size | Diameter ϕ 77/Height 103.7mm | Diameter ϕ 77/Height 103.7mm |
| Weight | 0.98kg | 0.98kg |
| Sensing Accuracy | 1°~1.5° | 1°~1.5° |
| Maximum deflection repeatability(400mm) | XY direction 8° | XY direction 4° |
| Trigger Force | 0.1~0.15mm | Within 0.15mm |
| IP protection level | About 60-70N in X/Y (400mm) direction | About 90-100N in X/Y (400mm) direction |
| Switching capacity | IP21 | IP21 |
| Ambient temperature | 0.1A/250VAC | 0.1A/250VAC |
| Relative Humidity | -10°C to +55°C | -10°C to +55°C |
| | 70% at 20 °C during operation | 70% at 20 °C during operation |

Air-cooled Robot Torch



2-2-1. MOUNTING ARM

| Order No. | Product Description |
|----------------|-------------------------------|
| TRM216-045-105 | Standard ; Mounting size 35mm |



2-2-2. MOUNTING ARM

| Order No. | Product Description |
|-------------|---------------------|
| TRM211-045L | Optional |

Note: See the list for TCP size.



2-3. INSULATION DISK

| Order No. | Product Description |
|---------------|--|
| TRM233-A31402 | Fanuc R-0iB、200iD KUKA KR5 R1400、KR10 R1420、KR8 R1620 STEP SA1400SA1800; Kawasaki RA05L; 信捷等 |
| TRM233-A40252 | KUKA KR5 arc、KR6 arc、KR16 L6 arc GSK RH06、RH08; TRM231-A40252 Yasukawa MH6 那智MC20-01;钱江QJR6-3 ABB IRB 1410、ABB IRB 1600 etc |
| TRM233-A56625 | Fanuc 100ic、M10iA; Yasukawa MA1440、MH12、MA2010 |
| TRM233-A64572 | FANUC M10iD |

Note: Including the installed screws



2-4. SPRING LINE

| Order No. | Product Description |
|-------------|------------------------------------|
| 3.5.11.0012 | To connect shock sensor with torch |

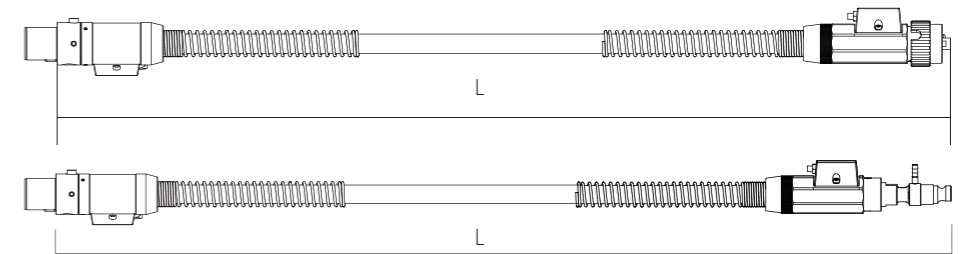
Air-cooled Robot Torch

3. CABLE ASSEMBLY

3-1. CABLE ASSEMBLY

| Order No. | Product Description |
|--------------|--|
| TRM501-XXC5E | Cable assembly,EURO (xx represents the length, 11=1.1 m) |
| TRM501-XXC5P | Cable assembly,panasonic connector |
| TRM501-XXC5L | Cable assembly,lincoln connector |
| TRM501-XXC7E | Cable assembly,EURO(with wire brake, xx represents the length, 11=1.1 m) |
| TRM501-XXC7P | Cable assembly,panasonic connector |
| TRM501-XXC7L | Cable assembly,lincoln connector |

Note: XX-cable length.



3-2. LINER

| Order No. | Product Description |
|--------------|---|
| TRM150-08-23 | One piece, Overall length=2.3m, (steel) wire0.8-0.9 |
| TRM150-12-23 | One piece, Overall length=2.3m, (steel) wire1.0-1.2 |
| TRM150-16-23 | One piece, Overall length=2.3m, (steel) wire1.4-1.6 |



3-3. SIGNAL LINE

| Order No. | Product Description |
|-------------|-----------------------------------|
| 3.5.11.0015 | Connect torch back end with robot |



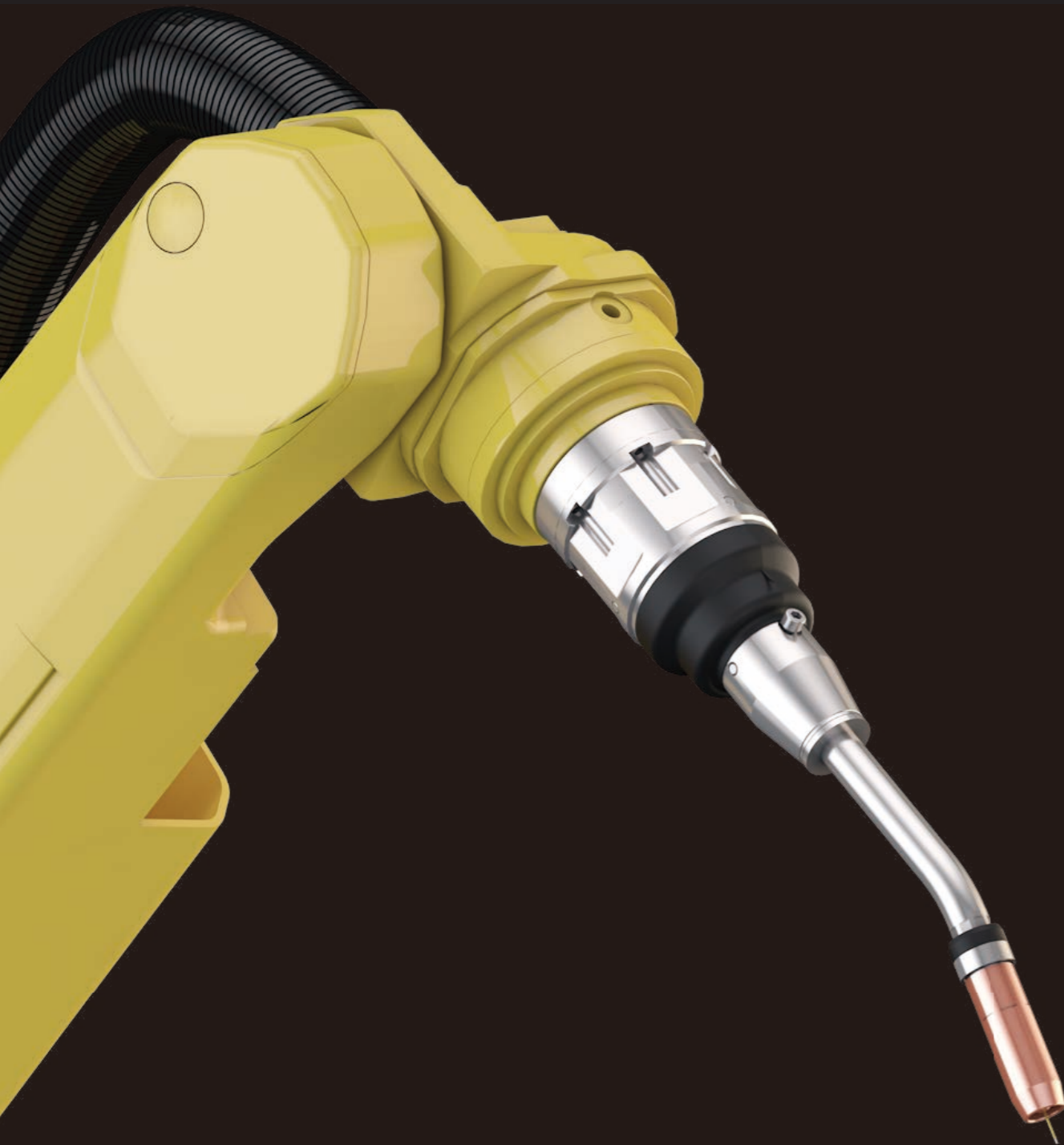
TRM501(P)

TRM501(P)



TRM508

AIR-COOLED

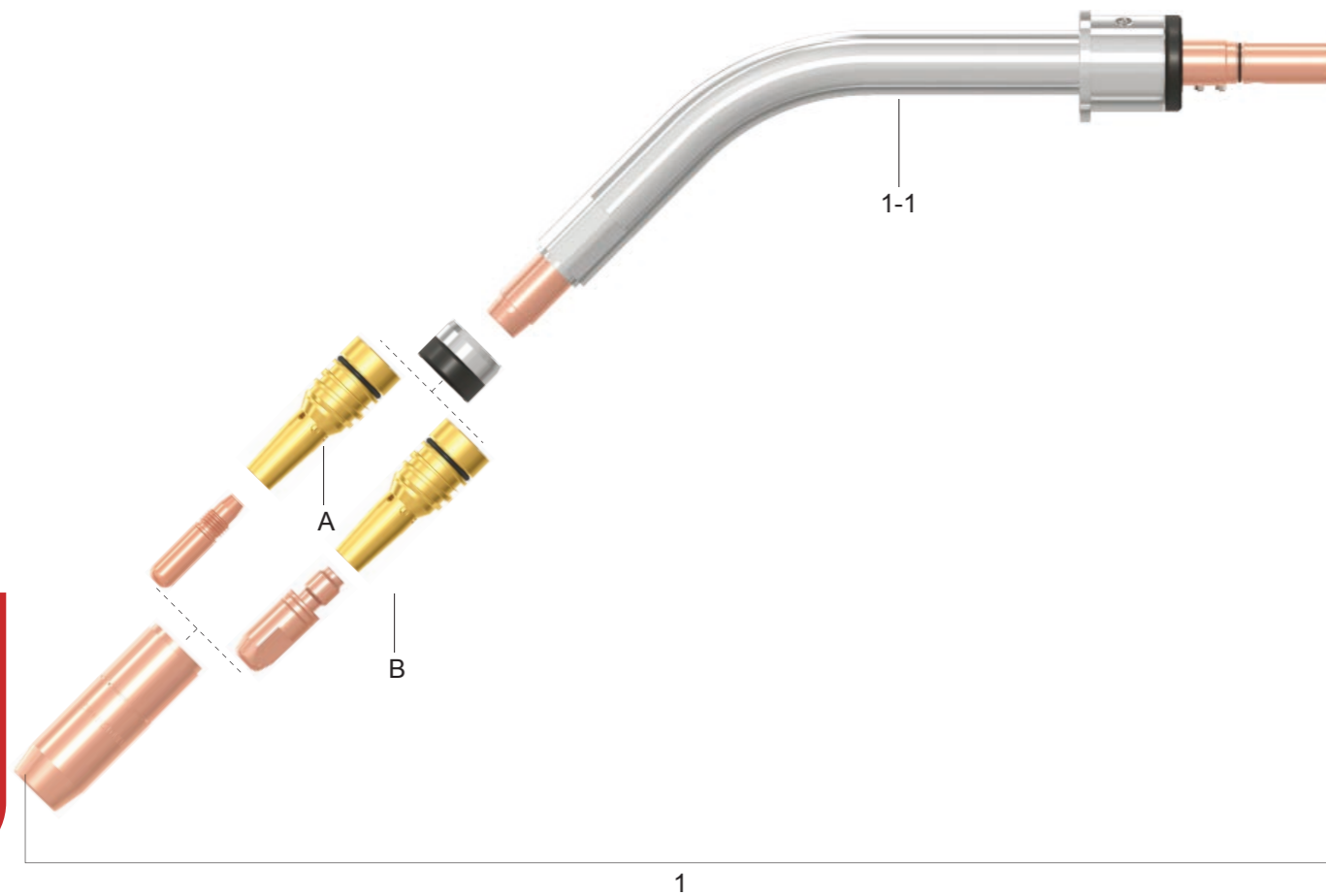


TECHNICAL DATA

| | |
|------------------|---|
| Cooling method | Air cooling |
| Rating | 500A CO ₂ 350A Mixed Gas M21 (ISO14175) |
| Duty cycle | 100% |
| Wire diameter | 0.8~1.6mm |
| Torch geometries | 22°, 35°, 45°, 60° |

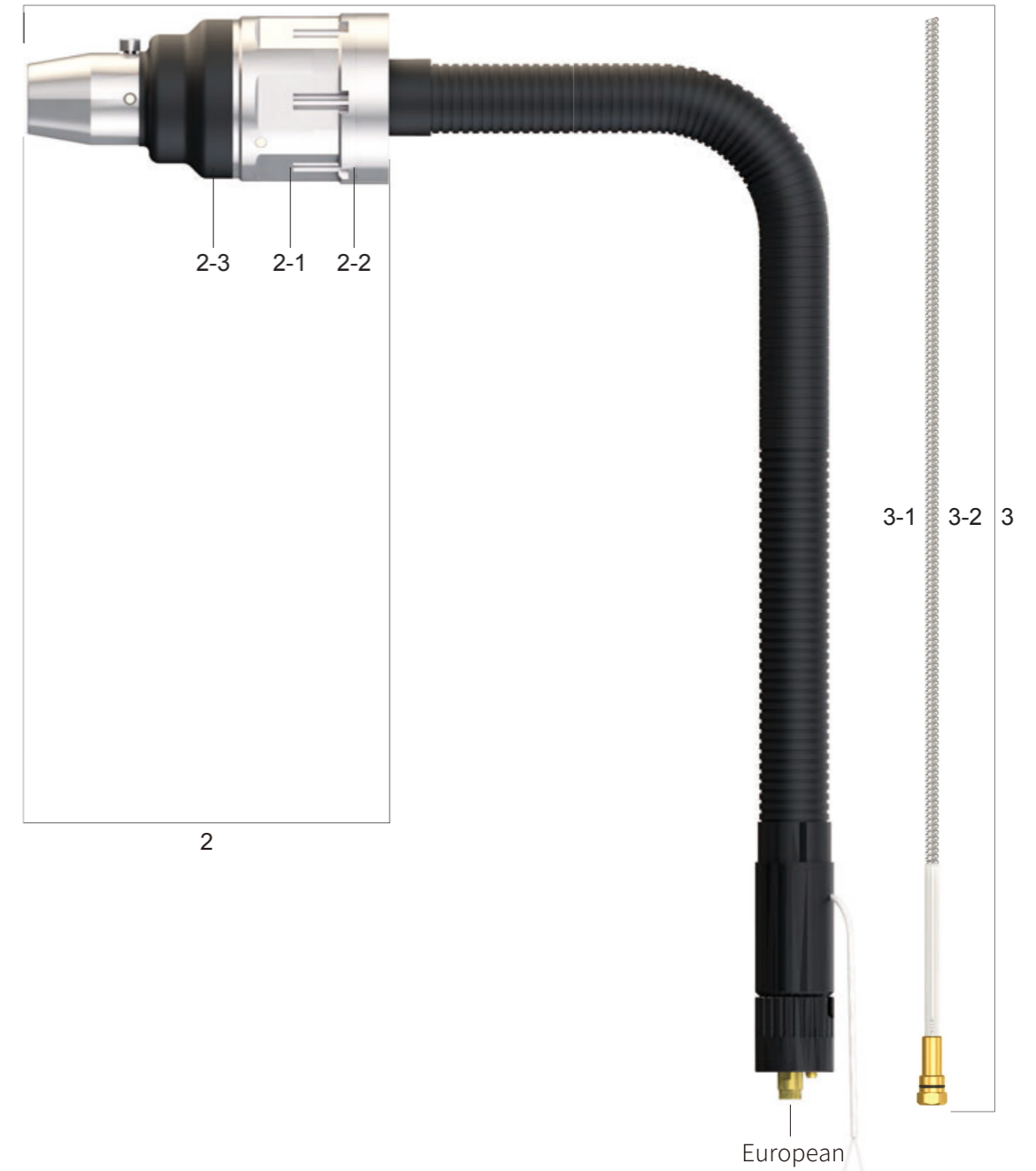
- Quick-change gun tube. Imported cable and low-stress rotation design extend the cable life. With shock sensor;
- Multiple options for goose neck and gas nozzle for different working conditions
- Be available for popular wire feeder connection like: Lincoln[®], Panasonic[®] and European style etc.

Air-cooled Robot Torch



| | | | | | |
|------------|-------------------------------------|------------|------------|---------------------|------------|
| 1 | Torch neck assembly | P65 | 2 | Anti-collision unit | P66 |
| 1-1 | Goose Neck (American/European type) | P65 | 2-1 | Shock Sensor | P66 |
| A | Torch consumables(American type) | P85 | 2-2 | Insulation Disk | P66 |
| B | Torch consumables(European type) | P86 | 2-3 | Rubber Dust Cover | P67 |

Air-cooled Robot Torch



| | | |
|------------|--------------------------------|------------|
| 3 | Cable Assembly | P67 |
| 3-1 | cable with Euro connector | P67 |
| | cable with Panasonic connector | P67 |
| | cable with Lincoln connector | P67 |
| 3-2 | Liner | P67 |

ORDER GUIDE

2.ANTI-COLLISION UNIT

| Order No. | Product Description |
|--------------------|---|
| TRM508 | Through-arm air-cooled torch包 |
| TRM508—HQ—E | Through-arm air-cooled torch(Euro connector) |
| TRM508—HQ—P | Through-arm air-cooled torch(Panasonic connector) |
| TRM508—HQ—L | Through-arm air-cooled torch(Lincoln connector) |

1.GOOSE NECK ASSEMBLY

2-1. SHOCK SENSOR



| Order No. | Product Description |
|----------------------|--|
| TRM316-01-N6 | Built-in hollow SHOCK SENSOR (standard goose neck) |
| TRM316-01-N10 | Built-in hollow SHOCK SENSOR (L/L1 goose neck) |

SHOCK SENSOR DATA SHEET

| ITEM | TRM316-01-N6 | TRM316-01-N10 |
|---|---|---|
| Size | Diameter φ85mm/Height 89mm | Diameter φ85mm/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 repeatability(400mm) | X/Y deflection approx. 10° | X/Y deflection approx. 10° |
| Trigger Force | Within 0.15mm | Within 0.15mm |
| IP protection level | About 30-45N in X/Y (400mm) direction | About 60-70N in X/Y (400mm) direction |
| Switching capacity | IP21 | IP21 |
| Ambient temperature | 10A/250VAC | 10A/250VAC |
| Relative Humidity | -10 °C to + 55 °C | -10°C to +55°C |
| | 70% at 20 °C during operation | 70% at 20 °C during operation |

1-1. GOOSE NECK



| Order No. | Product Description |
|---------------------|--|
| TRM501-22 | Goose neck(American style, 22°, one-touch quick change) |
| TRM501-22L | Goose neck(American style, 22°L, one-touch quick change) |
| TRM501-35L-A | Goose neck(American style, 35°L, one-touch quick change) |
| TRM501-45 | Goose neck(American style, 45°, one-touch quick change) |
| TRM501-45L | Goose neck(American style, 45°L, one-touch quick change) |
| TRM501-45L1 | Goose neck(American style, 45°L, one-touch quick change) |
| TRM501-45L2 | Goose neck(American style, 45°L, one-touch quick change) |
| TRM501-60 | Goose neck(American style, 60°, one-touch quick change) |

TCP DATA

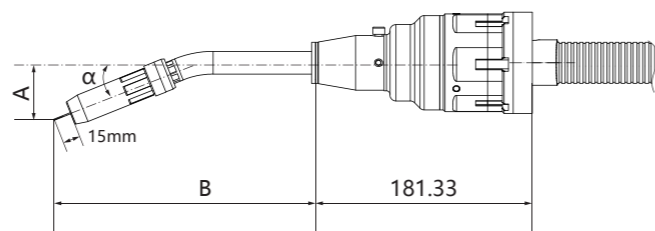
| α | A | B | Angle | Neck part no |
|-----|--------|--------|-------|--------------|
| 22° | 46.84 | 285.84 | 22° | TRM501-22 |
| 22° | 46.78 | 342.91 | 22° | TRM501-22L |
| 35° | 117.76 | 300.96 | 35° | TRM501-35L-A |
| 45° | 100.23 | 238.27 | 45° | TRM501-45 |
| 45° | 120.23 | 285.19 | 45° | TRM501-45L |
| 45° | 120.23 | 340.19 | 45° | TRM501-45L1 |
| 45° | 120.23 | 390.19 | 45° | TRM501-45L2 |
| 60° | 133.59 | 236.52 | 60° | TRM501-60 |



2-2. INSULATION DISK

| Order No. | Product Description |
|--------------------------|--|
| TRM236-AMA1440 | Yasukawa MA1440/AR1440/MA2010/AR2010 ; Yasukawa MH12/MH24 ; FANUC M-10iA Series,M-20iA Series ; 摩卡MR Series ; 卡诺普RH Series ; 智昌中空 Series |
| TRM236-AM10ID | FANUC M-10iD Series,M-20iD Series |
| TRM236-AOTCAII-B4 | OTC AII-B4/B4L ; FD-B4/B4L |
| TRM236-ATM1400 | Panasonic TM1400/TM1800/TM2000 |
| TRM236-AIRB1520ID | ABB IRB1520ID |
| TRM236-ABA006N | Kawasaki BA006N,BA006L |
| TRM236-ARH06A2 | GSK RH06A2 |
| TRM236-AER6-1450H | ESTUN ER6-1450H |

Note: Including the installed screws



TRM508

TRM508



TRM352P

AIR-COOLED

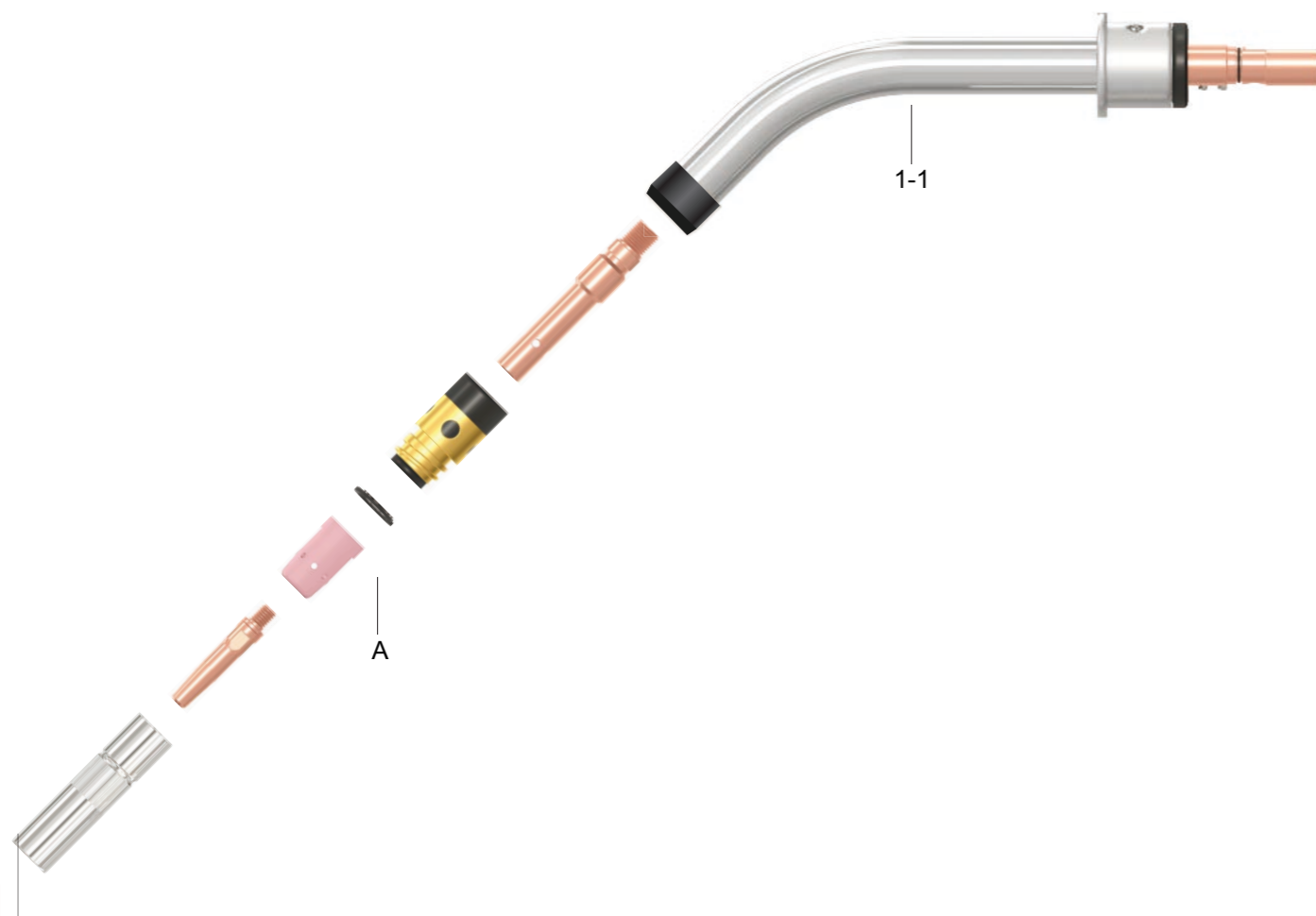


TECHNICAL DATA

| | |
|------------------|---|
| Cooling method | Air cooling |
| Rating | 350A CO ₂ 270A Mixed Gas M21 (ISO14175) |
| Duty cycle | 100% |
| Wire diameter | 0.8~1.2mm |
| Torch geometries | 31°, 45° |

- Quick-change gun tube. Imported cable and low-stress rotation design extend the cable life. With shock sensor;
- Multiple options for goose neck and gas nozzle for different working conditions
- Be available for popular wire feeder connection like: Lincoln[®], Panasonic[®] and European style etc.

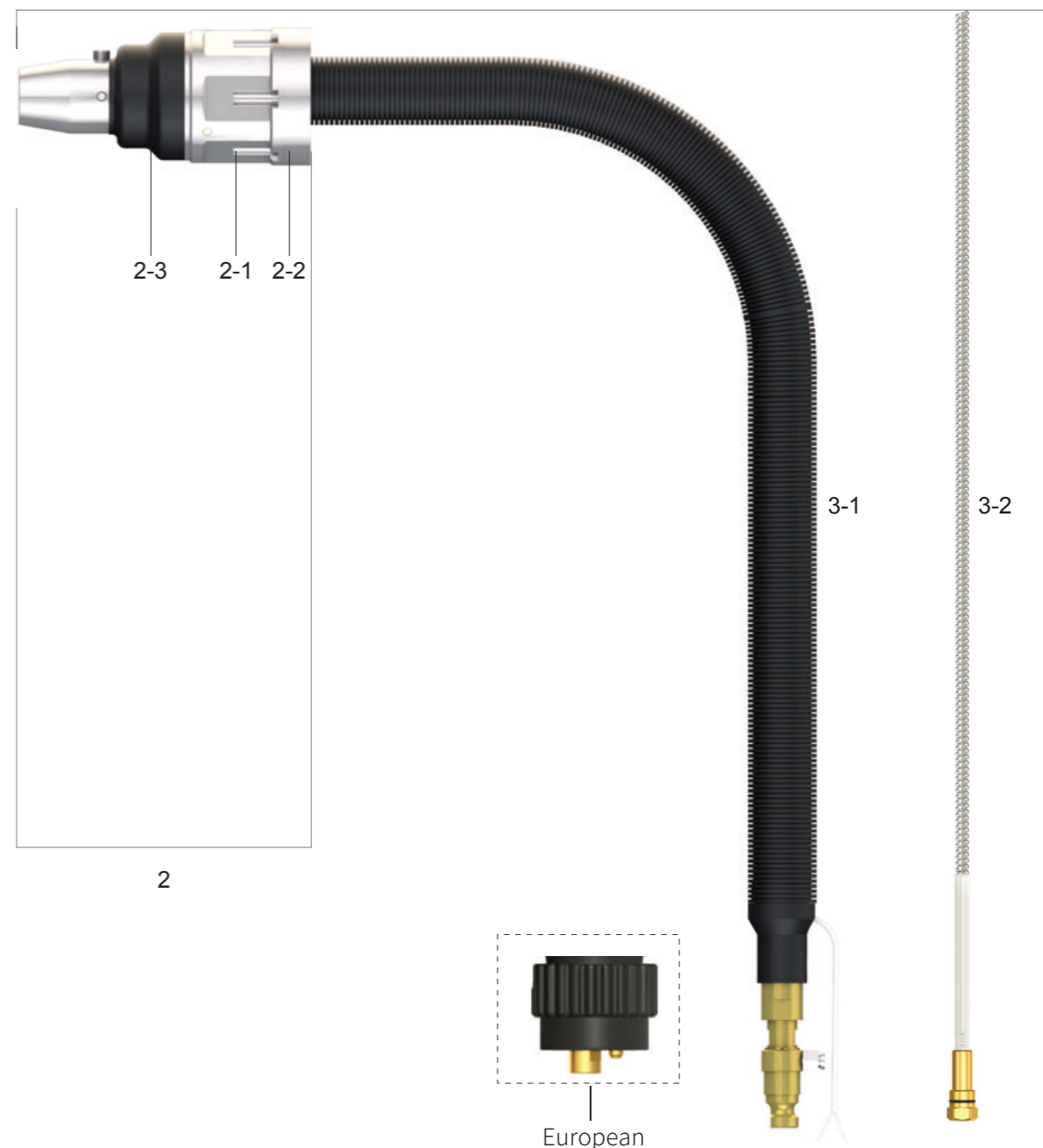
Air-cooled Robot Torch



1

- | | | | |
|---|------------|------------------------------|------------|
| 1 Torch neck assembly | P73 | 2 Anti-collision unit | P74 |
| 1-1 Goose Neck (Japanese type) | P73 | 2-1 Shock Sensor | P74 |
| A Torch consumables(Japanese type) | P87 | 2-2 Insulation Disk | P74 |
| | | 2-3 Rubber Dust Cover | P75 |

Air-cooled Robot Torch



2

- | | |
|--------------------------------------|------------|
| 3 Cable Assembly | P75 |
| 3-1 cable with Euro connector | P75 |
| cable with Panasonic connector | P75 |
| 3-2 Liner | P75 |

European

ORDER GUIDE

2.ANTI-COLLISION UNIT

| Order No. | Product Description |
|---------------------|---|
| TRM352P | Through-arm air-cooled torch |
| TRM352P—HQ—E | Through-arm air-cooled torch(Euro connector) |
| TRM352P—HQ—P | Through-arm air-cooled torch(Panasonic connector) |



2-1. SHOCK SENSOR

| Order No. | Product Description |
|----------------------|--|
| TRM316-01-N6 | Built-in hollow SHOCK SENSOR (standard goose neck) |
| TRM316-01-N10 | Built-in hollow SHOCK SENSOR (L/L1 goose neck) |

1.GOOSE NECK ASSEMBLY

SHOCK SENSOR DATA SHEET



1-2. GOOSE NECK

| Order No. | Product Description |
|---------------------|---|
| TRM501-P31-B | Goose neck(Japanese style, 31°, one-touch quick change) |
| TRM501-P31L | Goose neck(Japanese style, 31°L, one-touch quick change) |
| TRM501-P45L | Goose neck(Japanese style, 45°L, one-touch quick change) |
| TRM501-P45L1 | Goose neck(Japanese style, 45°L1, one-touch quick change) |

| ITEM | TRM316-01-N6 | TRM316-01-N10 |
|---|---|---|
| Size | Diameter φ85mm/Height 89mm | Diameter φ85mm/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 repeatability(400mm) | X/Y deflection approx. 10° Within 0.15mm | X/Y deflection approx. 10° 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 |

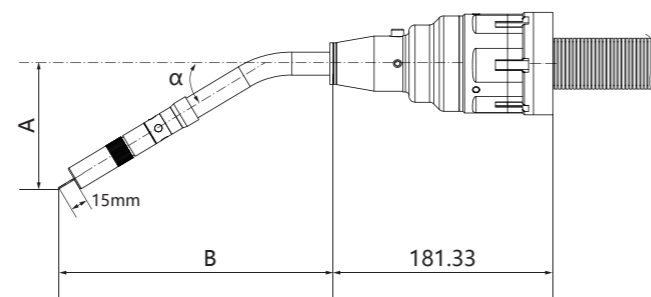
TCP DATA

| α | A | B | Angle | Neck part no |
|-----|--------|--------|-------|--------------|
| 31° | 84.04 | 265.2 | 31° | TRM501-P31-B |
| 31° | 84.04 | 433.7 | 31° | TRM501-P31L |
| 45° | 103.06 | 268.01 | 45° | TRM501-P45L |
| 45° | 103.06 | 323.01 | 45° | TRM501-P45L1 |



2-2. INSULATION DISK

| Order No. | Product Description |
|--------------------------|--|
| TRM236-AMA1440 | Yasukawa MA1440/AR1440/MA2010/AR2010 ; Yasukawa MH12/MH24 ; FANUC M-10iA Series,M-20iA Series ; 摩卡MR Series ; 卡诺普RH Series ; 智昌中空 Series |
| TRM236-AM10ID | FANUC M-10iD Series,M-20iD Series |
| TRM236-AOTCAII-B4 | OTC AII-B4/B4L ; FD-B4/B4L |
| TRM236-ATM1400 | Panasonic TM1400/TM1800/TM2000 |
| TRM236-AIRB1520ID | ABB IRB1520ID |
| TRM236-ABA006N | Kawasaki BA006N,BA006L |
| TRM236-ARH06A2 | GSK RH06A2 |
| TRM236-AER6-1450H | ESTUN ER6-1450H |



Note: Including the installed screws



TRM351(P)

AIR-COOLED



TECHNICAL

DATA

TRM351

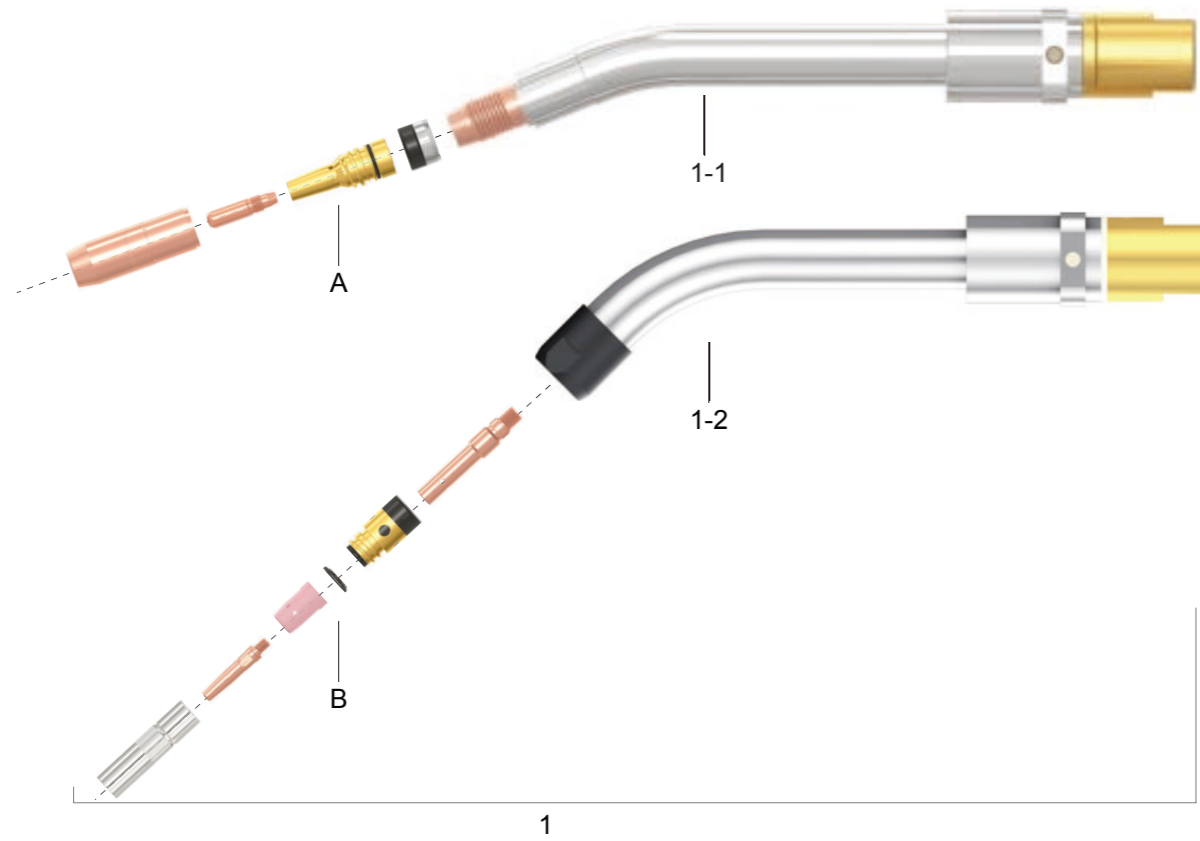
| | |
|------------------|--|
| Cooling method | AIR COOLING |
| Rating | 350A Co ₂ 300AMixed GasM21(ISO14175) |
| Duty cycle | 100% |
| Wire diameter | 0.8~1.2mm |
| Torch geometries | 22°, 45° |

TRM351P

| | |
|------------------|--|
| Cooling method | AIR COOLING |
| Rating | 350A Co ₂ 300AMixed GasM21(ISO14175) |
| Duty cycle | 100% |
| Wire diameter | 0.8~1.2mm |
| Torch geometries | 45° |

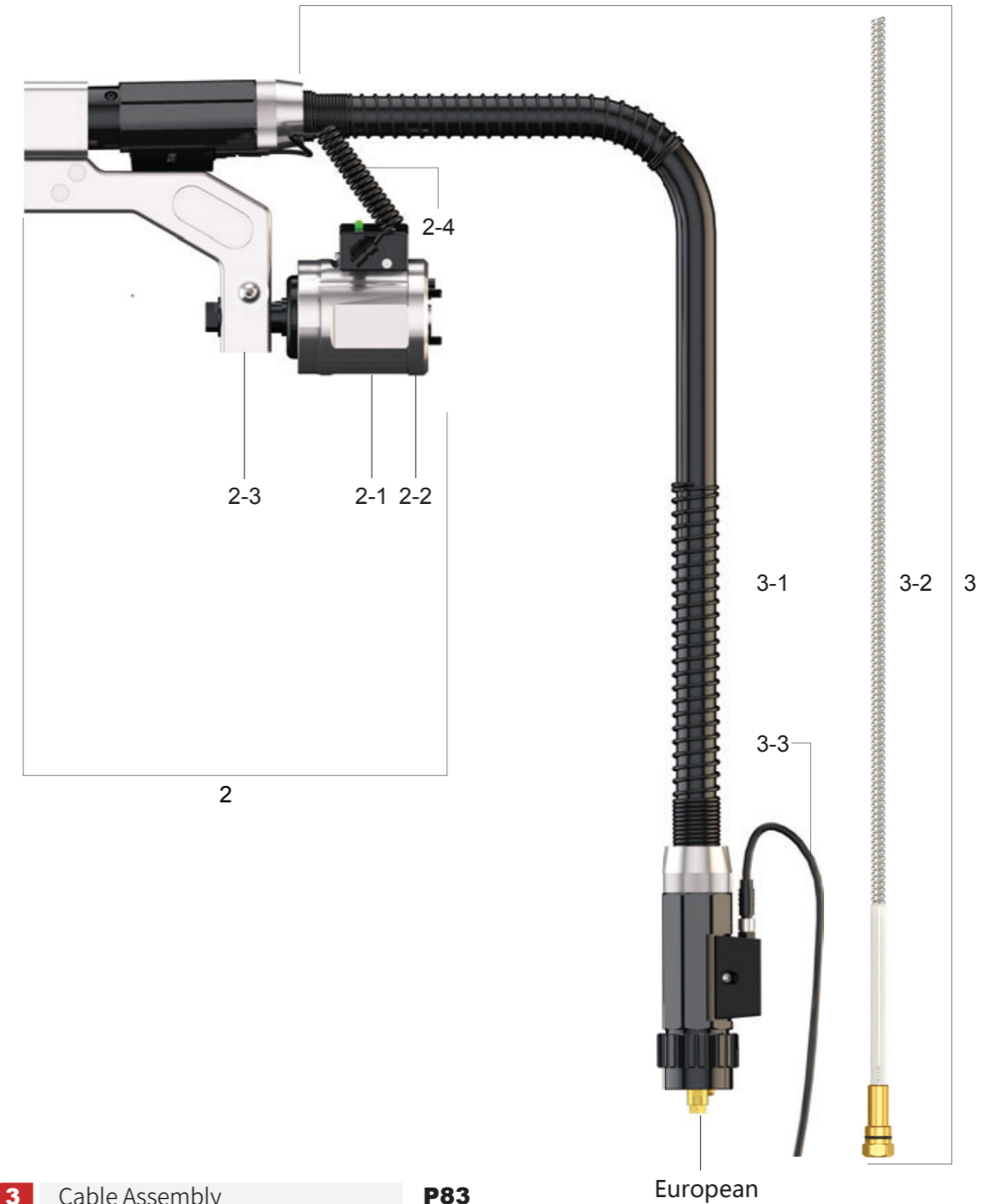
- Economical model with light weight;
- Patented by changing quickly the installation position to increase reachability of torch;
- Both American and Japanese style consumables are available.

Air-cooled Robot Torch



| | | | | | |
|------------|-----------------------------------|------------|------------|---------------------|------------|
| 1 | Torch neck assembly | P81 | 2 | Anti-collision unit | P82 |
| 1-1 | Goose Neck (American type) | P81 | 2-1 | Shock Sensor | P82 |
| 1-2 | Goose Neck (Japanese type) | P82 | 2-2 | Mounting Arm | P83 |
| A | Torch Consumables(American type) | P85 | 2-3 | Insulation Disk | P83 |
| B | Torch consumables (Japanese type) | P87 | 2-4 | Spring Line | P83 |

Air-cooled Robot Torch



| | | |
|------------|--------------------------------|------------|
| 3 | Cable Assembly | P83 |
| 3-1 | cable with Euro connector | P83 |
| | cable with Panasonic connector | P83 |
| | cable with Lincoln connector | P83 |
| 3-2 | Liner | P84 |
| 3-3 | Signal Line | P84 |

ORDER GUIDE

| Order No. | Product Description |
|--------------------|---|
| TRM351 | Over-arm Air-cooled torch |
| TRM351—HQ—E | Over-arm Air-cooled torch (Euro connector) |
| TRM351—HQ—P | Over-arm Air-cooled torch (Panasonic connector) |
| TRM351—HQ—L | Over-arm Air-cooled torch (Lincoln connector) |

1. GOOSE NECK ASSEMBLY

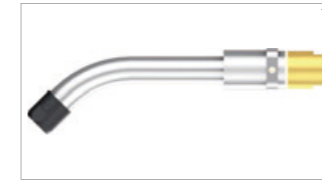
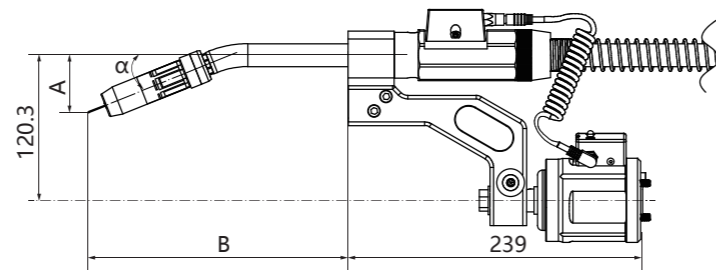


1-1. GOOSE NECK

| Order No. | Product Description |
|--------------------|---|
| TRM351-22 | Goose neck(American style , 22°) |
| TRM351-22L2 | Goose neck(American style , 22°extension) |
| TRM351-45 | Goose neck(American style , 45°) |
| TRM351-45L | Goose neck(American style , 45°extension) |
| TRM351-45L2 | Goose neck(American style , 45°extension) |

TCP DATA

| α | A | B | Angle | Neck part no |
|----------|-------|-------|-------|--------------|
| 22° | 46.8 | 243.5 | 22° | TRM351-22 |
| 22° | 46.78 | 388.2 | 22° | TRM351-22L2 |
| 45° | 100.3 | 196.2 | 45° | TRM351-45 |
| 45° | 120.3 | 282.9 | 45° | TRM351-45L |
| 45° | 120.3 | 348.2 | 45° | TRM351-45L2 |
| 180° | 0 | 230.9 | 180° | TRM351-180 |

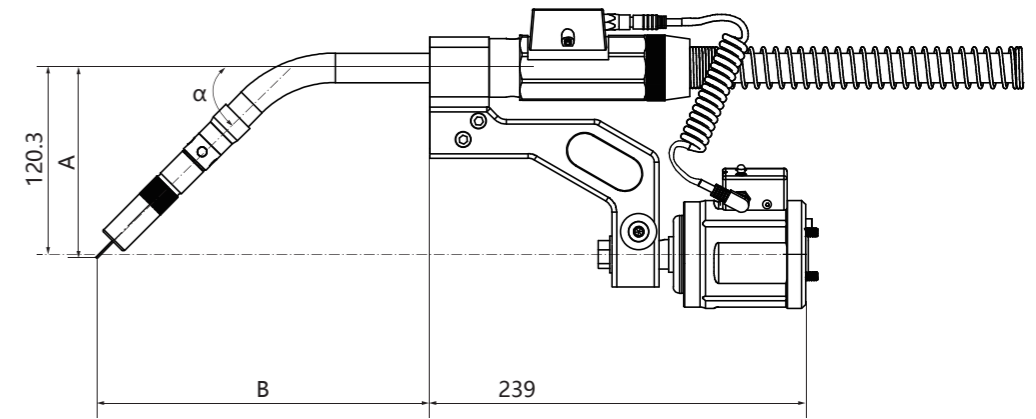


1-2. GOOSE NECK

| Order No. | Product Description |
|---------------------|--|
| TRM351-P45L | Goose neck(Japanese style , 45°extension) |
| TRM351-P45L1 | Goose neck(Japanese style , 45°extension L1) |

TCP DATA

| α | A | B | Angle | Neck part no |
|----------|-------|--------|-------|--------------|
| 45° | 93.86 | 216.76 | 45° | TRM351-P45L |
| 45° | 93.86 | 274.86 | 45° | TRM351-P45L1 |



2. ANTI-COLLISION UNIT



2-1. SHOCK SENSOR

| Order No. | Product Description |
|----------------------|--|
| TRM313-01-N10 | Suitable for 22°/45° standard Goose Neck |
| TRM313-01-N16 | Suitable for 22°L/45°L/45°L1 and other Extended Goose Neck |

Note: Please refer to the list for the parameters. When ordering separately, a supporting bracket and 5m signal cable are required.

SHOCK SENSOR DATA SHEET

| ITEM | TRM313-01-N10 | TRM313-01-N16 |
|---|---------------------------------------|--|
| Size | Diameter ϕ 77/Height 103.7mm | Diameter ϕ 77/Height 103.7mm |
| Weight | 0.98kg | 0.98kg |
| Sensing Accuracy | 1°~1.5° | 1°~1.5° |
| Maximum deflection repeatability(400mm) | XY direction 8° | XY direction 4° |
| Trigger Force | 0.1~0.15mm | Within 0.15mm |
| IP protection level | About 60-70N in X/Y (400mm) direction | About 90-100N in X/Y (400mm) direction |
| Switching capacity | IP21 | IP21 |
| Ambient temperature | 0.1A/250VAC | 0.1A/250VAC |
| Relative Humidity | -10°C to +55°C | -10°C to +55°C |
| | 70% at 20 °C during operation | 70% at 20 °C during operation |

TRM351(P)

TRM351(P)

Air-cooled Robot Torch



2-2. MOUNTING ARM

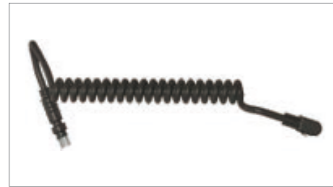
| Order No. | Product Description |
|------------------|--|
| ① TRM216-045-351 | Standard; Mounting size 35mm |
| ② TRM213-022 | Use with TRM351-22 Goose Neck (22°) |
| ③ TRM213-045L | Use with TRM351-45L/45L1/45L2 Goose Neck (45°) |



2-3. INSULATION DISK

| Order No. | Product Description |
|---------------|--|
| TRM233-A31402 | Fanuc R-0iB、200iD KUKA KR5 R1400、KR10 R1420、KR8 R1620 STEP SA1400SA1800; Kawasaki RA05L; 信捷等 |
| TRM233-A40252 | KUKA KR5 arc、KR6 arc、KR16 L6 arc GSK RH06、RH08; TRM231-A40252 Yasukawa MH6 那智MC20-01;钱江QJR6-3 ABB IRB 1410、ABB IRB 1600 etc |
| TRM233-A56625 | Fanuc 100ic、M10iA; Yasukawa MA1440、MH12、MA2010 |
| TRM233-A64572 | FANUC M10iD |

Note: Including the installed screws



2-4. SPRING LINE

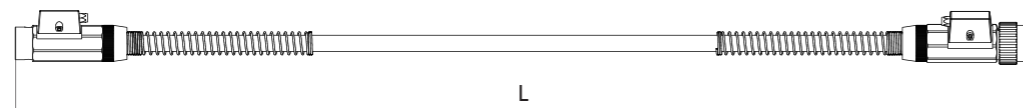
| Order No. | Product Description |
|-------------|------------------------------------|
| 3.5.11.0012 | To connect shock sensor with torch |

3. CABLE ASSEMBLY

3-1. CABLE ASSEMBLY(INCLUDING THE TIP)

| Order No. | Product Description |
|--------------|--------------------------------|
| TRM351-XXC5E | cable with Euro connector |
| TRM351-XXC5P | cable with Panasonic connector |
| TRM351-XXC5L | cable with Lincoln connector |

Note: XX-cable length.



Air-cooled Robot Torch

3-2. LINER

| Order No. | Product Description |
|--------------|---|
| TRM150-08-23 | One piece, Overall length=2.3m, (steel) wire0.8-0.9 |
| TRM150-12-23 | One piece, Overall length=2.3m, (steel) wire1.0-1.2 |
| TRM150-16-23 | One piece, Overall length=2.3m, (steel) wire1.4-1.6 |

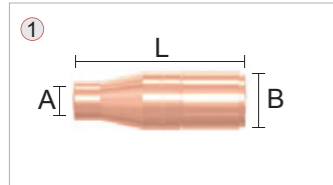
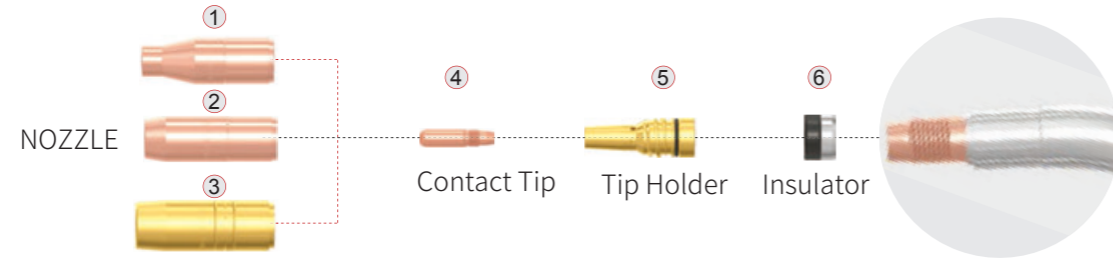


3-3. SIGNAL LINE

| Order No. | Product Description |
|-------------|-----------------------------------|
| 3.5.11.0015 | Connect torch back end with robot |

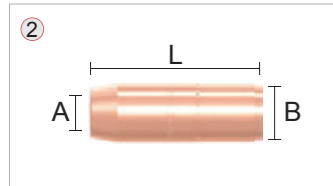
Torch consumables

AMERICAN TYPE



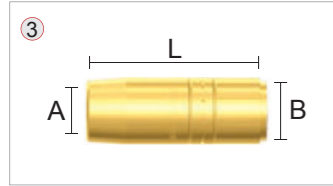
NOZZLE(350A CO₂)

| Order No. | Product Description |
|---------------------|---|
| 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 recess3.2 |
| TRM012-18-50 | L=66.8, A=Φ13, B=Φ24, Contact Tip stick out 3.2 |



NOZZLE(400A CO₂)

| Order No. | Product Description |
|---------------------|---|
| 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 recess3.2 |
| TRM012-18-62 | L=66.8, A=Φ16, B=Φ24, Contact Tip stick out 3.2 |



NOZZLE(500A CO₂)

| Order No. | Product Description |
|----------------------|---|
| TRM012-26-B75 | L=73.2, A=Φ19, B=Φ27, Contact Tip recess3.2 brass |
| TRM012-24-60 | L=70.0, A=Φ16, B=Φ27, Contact Tip flush, Copper |
| TRM012-26-62 | L=73.2, A=Φ16, B=Φ27, Contact Tip recess3.2, Copper |
| TRM012-28-62 | L=66.8, A=Φ16, B=Φ27, Contact Tip stick out 3.2, Copper |

CONTACT TIP

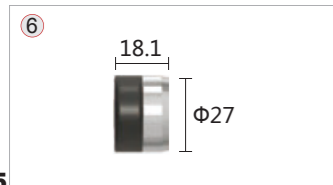
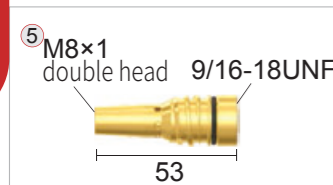
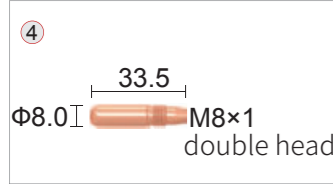
| Order No. | Product Description |
|---------------------|-----------------------------|
| TRM032-2-R08 | CUCRZR, Φ0.8mm wire (steel) |
| TRM032-2-R09 | CUCRZR, Φ0.9mm wire (steel) |
| TRM032-2-R10 | CUCRZR, Φ1.0mm wire (steel) |
| TRM032-2-R12 | CUCRZR, Φ1.2mm wire (steel) |
| TRM032-2-R14 | CUCRZR, Φ1.4mm wire (steel) |
| TRM032-2-R16 | CUCRZR, Φ1.6mm wire (steel) |

TIP HOLDER

| Order No. | Product Description |
|-------------------|---------------------|
| TRM042-01 | R series, Brass |
| TRM042-01C | R series, Copper |

INSULATOR

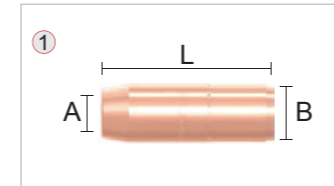
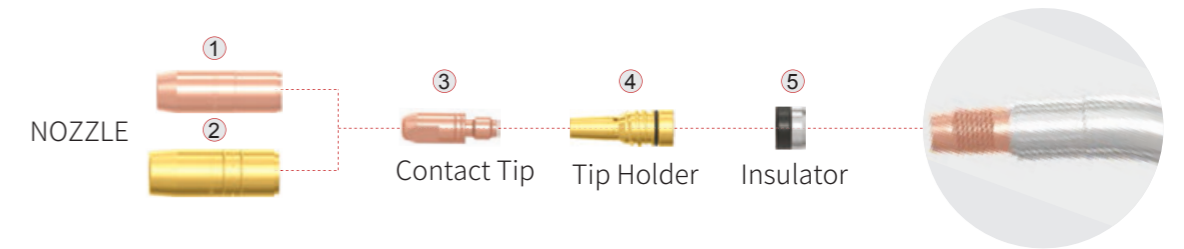
| Order No. | Product Description |
|-------------------|---------------------|
| TRM501-05R | R series |



Torch consumables

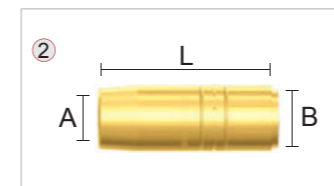
EUROPEAN TYPE

350A CO₂



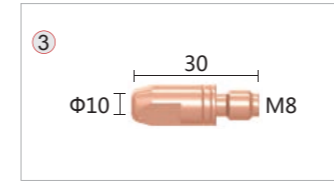
NOZZLE

| Order No. | Product Description |
|---------------------|---|
| 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 recess3.2 |
| TRM012-18-62 | L=66.8, A=Φ16, B=Φ24, Contact Tip stick out 3.2 |



NOZZLE

| Order No. | Product Description |
|----------------------|---|
| TRM012-26-B75 | L=73.2, A=Φ19, B=Φ27, Contact Tip recess3.2 brass |
| TRM012-24-60 | L=70.0, A=Φ16, B=Φ27, Contact Tip flush, Copper |
| TRM012-26-62 | L=73.2, A=Φ16, B=Φ27, Contact Tip recess3.2, Copper |
| TRM012-28-62 | L=66.8, A=Φ16, B=Φ27, Contact Tip stick out 3.2, Copper |



CONTACT TIP

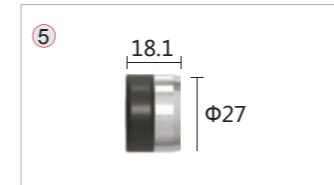
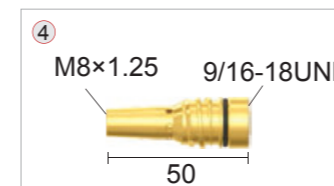
| Order No. | Product Description |
|---------------------|-----------------------------|
| TRM035-02-08 | CUCRZR, Φ0.8mm wire (steel) |
| TRM035-02-10 | CUCRZR, Φ1.0mm wire (steel) |
| TRM035-02-12 | CUCRZR, Φ1.2mm wire (steel) |
| TRM035-02-14 | CUCRZR, Φ1.4mm wire (steel) |
| TRM035-02-16 | CUCRZR, Φ1.6mm wire (steel) |

TIP HOLDER

| Order No. | Product Description |
|------------------|---------------------|
| TRM042-04 | Copper |

INSULATOR

| Order No. | Product Description |
|-------------------|---------------------|
| TRM501-05R | R series |





SC220ASE

PNEUMATIC CLEANING STATION



Wire Cutting



Cleaning



Oil spray



TCP location

TECHNICAL DATA

| | |
|------------------------------|--|
| Air input | clean compressed air with lubricant oil 5.5-8bar |
| Operating Temperature | -5°C-+50°C |
| Air consumption | About 10L/S |
| Pneumatic motor | About 580rpm / maximum torque 8N.m |
| Control voltage | 24V DC |
| Control current | I _{max} =0.15A |
| Anti-spatter liquid capacity | 250ml |
| Wire cutting ability | Solid wire: max1.6mm Flux-cored wire: max 3.2mm |
| Cutting time | About 0.5 seconds |

- Clamp max. 32mm OD nozzle. No need to change V-block;
- High precision and rigidity of pneumatic motor with high torque, which helps to remove heavy spatters. With overload protection to achieve long lifetime;
- The special filter element can effectively filter oil, water and impurities in the gas path, and improve the lifetime of the equipment;
- Spraying in closed space, Waste oil can be collected and recycled;
- With TCP tip

SC220ASE pneumatic cleaning station



1-1

1-2

ORDER GUIDE

1-1.PNEUMATIC CLEANING STATION

| Order No. | Product Description |
|-------------|---|
| SC220ASE-Z2 | Use for robotic torch to remove spatters and cut Off excessive welding wire (height :1070mm)with stand. |

1.2.PNEUMATIC CLEANING STATION

| Order No. | Product Description |
|-----------|--|
| SC220ASE | Use for Robotic torch to removespatters andcut off excessive welding wire (height : 347mm)without stand. |

SC220ASE pneumatic cleaning station



ANTI-SPATTER LIQUID

| Order No. | Product Description |
|-----------|---------------------------|
| SC221A-PS | 250ml anti-spatter liquid |



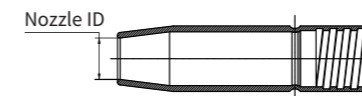
WIRE CUTTER

| Order No. | Product Description |
|-----------|------------------------------------|
| SC200A-JS | cut off the excessive welding wire |



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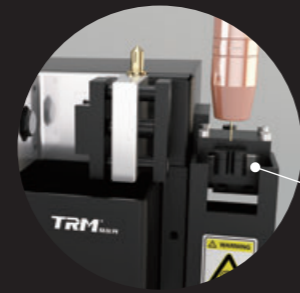
| Order No. | Product Description |
|-------------|--|
| ANC-0907-40 | Apply for nozzle inner dia.10, contact tip external dia.6 |
| ANC-1007-40 | Apply for nozzle inner dia.11, contact tip external dia.6 |
| ANC-1107-40 | Apply for nozzle inner dia.12, contact tip external dia.6 |
| ANC-1207-40 | Apply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





SC221A

PNEUMATIC CLEANING STATION



Wire Cutting



Cleaning



Oil spray



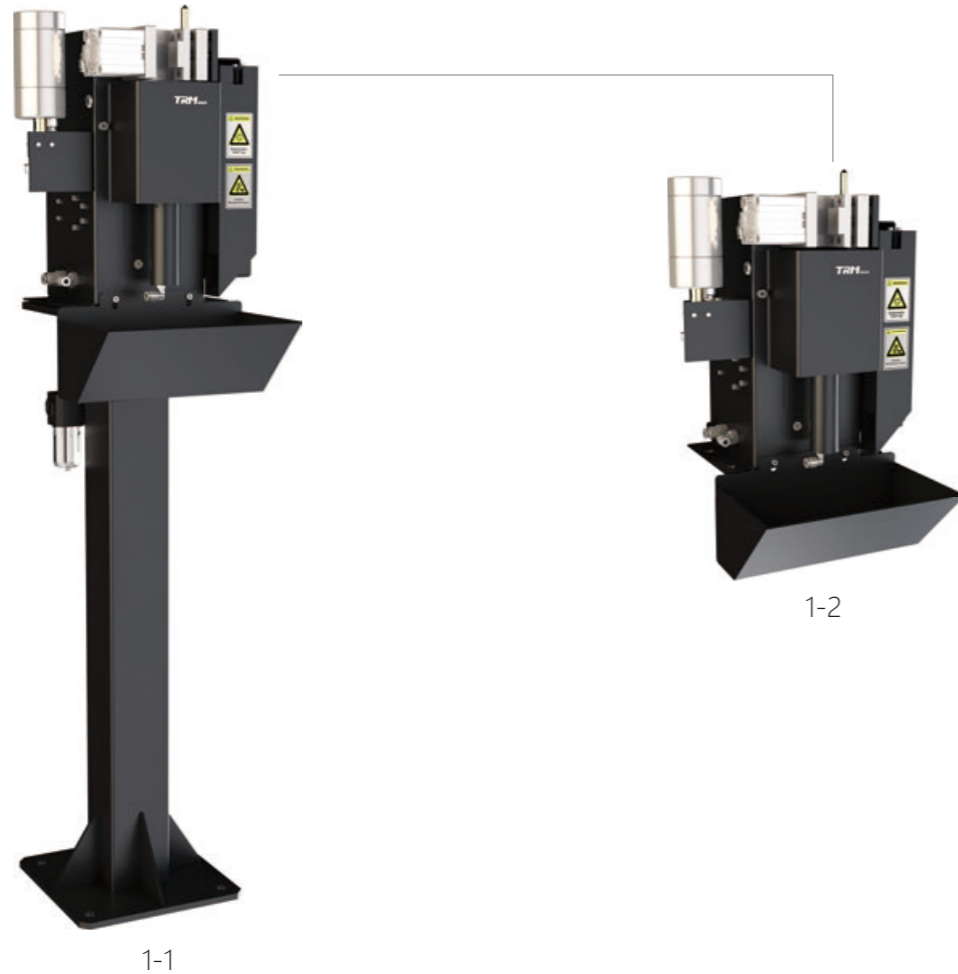
TCP location

TECHNICAL DATA

| | |
|------------------------------|--|
| Air input | clean compressed air with lubricant oil 5.5-8bar |
| Operating Temperature | -5°C-+50°C |
| Air consumption | About 10L/S |
| Pneumatic motor | About 650rpm / maximum torque 9N.m |
| Control voltage | 24V DC |
| Control current | I _{max} =0.15A |
| Anti-spatter liquid capacity | 250ml |
| Wire cutting ability | Solid wire: max1.6mm Flux-cored wire: max 3.2mm |
| Cutting time | About 0.5 seconds |

- Clamp max. 32mm OD nozzle. No need to change V-block;
- High precision and rigidity of pneumatic motor with high torque, which helps to remove heavy spatters. With overload protection to achieve long lifetime;
- Nozzle clamp cylinder return delay: Return after reamer leaves nozzle, effectively protect torch from damage;
- The special filter element can effectively filter oil, water and impurities in the gas path, and improve the lifetime of the equipment;
- With TCP tip;
- Spraying in closed space, Waste oil can be collected and recycled.

SC221A pneumatic cleaning station



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1-2

ORDER GUIDE

1-1. PNEUMATIC CLEANING STATION

| Order No. | Product Description |
|-----------|---|
| SC221A-Z2 | Use for Robotic torch to remove spatters and cut off excessive welding wire (height :1090mm)with stand. |

1-2.PNEUMATIC CLEANING STATION

| Order No. | Product Description |
|-----------|---|
| SC221A | Use for Robotic torch to removespatters andcut off excessive welding wire (height :347mm)without stand. |

SC221A pneumatic cleaning station



ANTI-SPATTER LIQUID

| Order No. | Product Description |
|-----------|---------------------------|
| SC221A-PS | 250ml anti-spatter liquid |

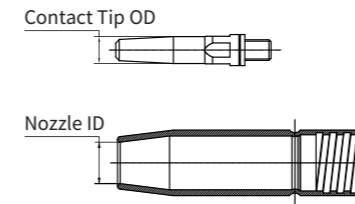


WIRE CUTTER

| Order No. | Product Description |
|-----------|------------------------------------|
| SC200A-JS | cut off the excessive welding wire |



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



SC230A SE

PNEUMATIC CLEANING STATION



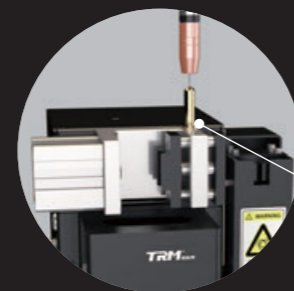
Wire Cutting



Cleaning



Oil spray



TCP location

TECHNICAL DATA

| | |
|------------------------------|--|
| Air input | clean compressed air with lubricant oil 5.5-8bar |
| Operating Temperature | -5°C-+50°C |
| Air consumption | About 10L/S |
| Pneumatic motor | About 650rpm / maximum torque 8N.m |
| Control voltage | 24V DC |
| Control current | I _{max} =0.15A |
| Anti-spatter liquid capacity | 500ml |
| Wire cutting ability | Solid wire: max1.6mm Flux-cored wire: max 3.2mm |
| Cutting time | About 0.5 seconds |

- Hold gas nozzle with max. OD 32mm. No need to change V-block;
- High torque and rigidity of pneumatic motor removes heavy spatters. Long lifetime with overload protection;
- Cleaning and spraying at the same procedure, to save the time;
- Spraying device is placed inside, avoiding accidental damage.

SC230A SE pneumatic cleaning station



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1-2

ORDER GUIDE

1-1. PNEUMATIC CLEANING STATION

| Order No. | Product Description |
|-----------|---|
| SC230A-Z2 | Use for Robotic torch to remove spatters and cut off excessive welding wire (height :1090mm)with stand. |

1-2.PNEUMATIC CLEANING STATION

| Order No. | Product Description |
|-----------|--|
| SC230A | Use for Robotic torch to removespatters andcut off excessive welding wire (height : 347mm)without stand. |

SC230A SE pneumatic cleaning station



ANTI-SPATTER LIQUID

| Order No. | Product Description |
|-----------|---------------------------|
| SC200A-PS | 500ml anti-spatter liquid |

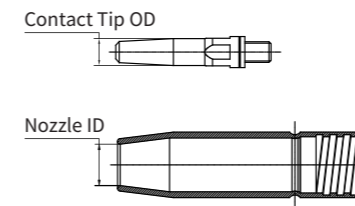


WIRE CUTTER

| Order No. | Product Description |
|-----------|------------------------------------|
| SC200A-JS | cut off the excessive welding wire |



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



SC230A

PNEUMATIC CLEANING STATION



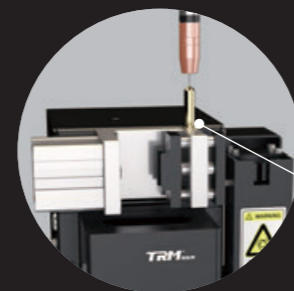
Wire Cutting



Cleaning



Oil spray



TCP location

TECHNICAL DATA

| | |
|------------------------------|--|
| Air input | clean compressed air with lubricant oil 5.5-8bar |
| Operating Temperature | -5°C-+50°C |
| Air consumption | About 10L/S |
| Pneumatic motor | About 650rpm / maximum torque 9N.m |
| Control voltage | 24V DC |
| Control current | I _{max} =0.15A |
| Anti-spatter liquid capacity | 500ml |
| Wire cutting ability | Solid wire: max1.6mm Flux-cored wire: max 3.2mm |
| Cutting time | About 0.5 seconds |

- Hold gas nozzle with max. OD 32mm. No need to change V-block;
- High torque and rigidity of pneumatic motor removes heavy spatters. Long lifetime with overload protection;
- Nozzle clamp cylinder return delay:Return after reamer leaves nozzle, effectively protect torch from damage Spraying devie is placed inside, avoiding accidental damage;
- Special filter device can filter oil, water and impurities in gas path, improving the lifetime;
- Cleaning and spraying at the same procedure, to save the time.

SC230A pneumatic cleaning station



1-1

1-2

ORDER GUIDE

1-1. PNEUMATIC CLEANING STATION

| Order No. | Product Description |
|-----------|---|
| SC230A-Z2 | Use for Robotic torch to remove spatters and cut off excessive welding wire (height :1090mm)with stand. |

1-2.PNEUMATIC CLEANING STATION

| Order No. | Product Description |
|-----------|--|
| SC230A | Use for Robotic torch to removespatters andcut off excessive welding wire (height : 347mm)without stand. |

SC230A pneumatic cleaning station



ANTI-SPATTER LIQUID

| Order No. | Product Description |
|-----------|---------------------------|
| SC200A-PS | 500ml anti-spatter liquid |

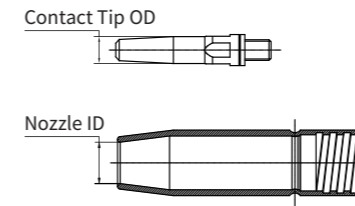


WIRE CUTTER

| Order No. | Product Description |
|-----------|------------------------------------|
| SC200A-JS | cut off the excessive welding wire |



REAMER



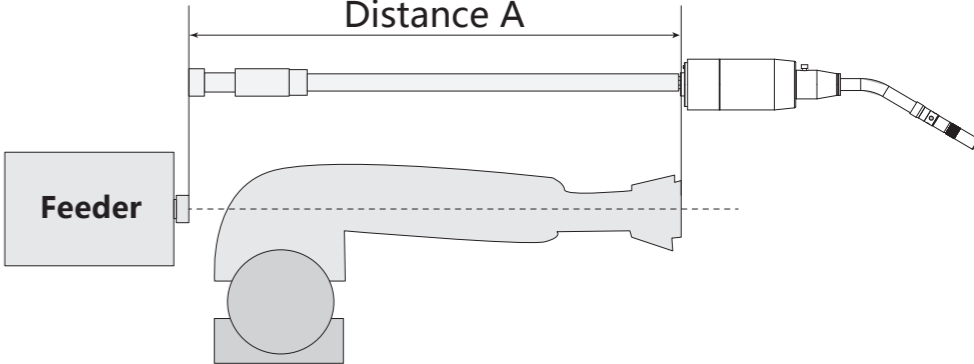
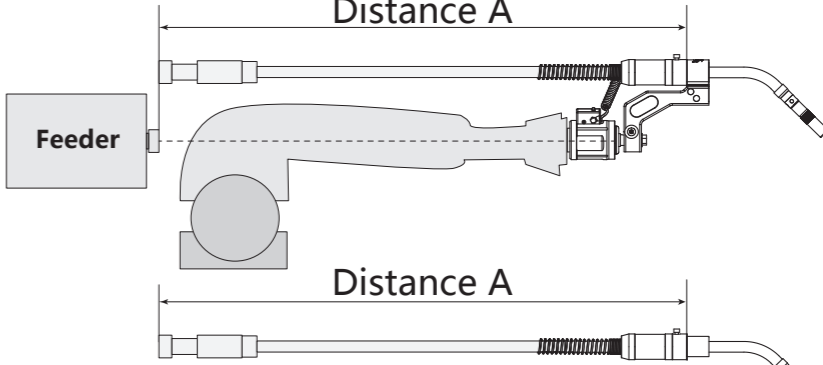
| Order No. | Product Description |
|-------------|--|
| ANC-0907-40 | Apply for nozzle inner dia.10, contact tip external dia.6 |
| ANC-1007-40 | Apply for nozzle inner dia.11, contact tip external dia.6 |
| ANC-1107-40 | Apply for nozzle inner dia.12, contact tip external dia.6 |
| ANC-1207-40 | Apply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

We really need your kind assist to finish the below information before sales send you offer

| Customer Code | Customer name | Customer classification |
|---------------|---------------|--|
| | | <input type="checkbox"/> Distributor <input type="checkbox"/> Integrator <input type="checkbox"/> End user |

Basic information

| | | |
|---------------------------|--|--|
| Robot | Brand | Model |
| | | |
| Feeder | Brand | Model |
| | Torch connection <input type="checkbox"/> Euro central connector <input type="checkbox"/> suitable for Lincoln <input type="checkbox"/> suitable for Fronius <input type="checkbox"/> suitable for Miller <input type="checkbox"/> suitable for Panasonic <input type="checkbox"/> suitable for OTC <input type="checkbox"/> Others | |
| Welder | Brand | Model |
| | | |
| Welding parameters | Material, thickness | <input type="checkbox"/> Carbon steel <input type="checkbox"/> aluminum <input type="checkbox"/> Stainless steel <input type="checkbox"/> Others |
| | Wire-diameter | |
| | Welding Current | |
| | Pulse | <input type="checkbox"/> YES <input type="checkbox"/> NO |
| | Gas | <input type="checkbox"/> CO ₂ <input type="checkbox"/> Mixed Gas |
| Welding torch | Cooling method | <input type="checkbox"/> Gas cooled <input type="checkbox"/> Water cooled |
| | TRM Torch model | |
| | Shork Sensor | <input type="checkbox"/> YES <input type="checkbox"/> NO |
| | Wire brake function | <input type="checkbox"/> YES <input type="checkbox"/> NO |
| | Goose neck | <input type="checkbox"/> Standard <input type="checkbox"/> 22° <input type="checkbox"/> 31° <input type="checkbox"/> 36° <input type="checkbox"/> 45° <input type="checkbox"/> 60° <input type="checkbox"/> 180° <input type="checkbox"/> Customized design Remarks: _____ TRM Part NO. : _____ |
| | Nozzle | <input type="checkbox"/> Flush <input type="checkbox"/> Recess <input type="checkbox"/> Stick-out <input type="checkbox"/> Bottle <input type="checkbox"/> Cylinder <input type="checkbox"/> Tapered Special needs: _____ TRM Part NO. : _____ |
| | | |

| | |
|---|---|
| Contact tip | <input type="checkbox"/> E-Cu <input type="checkbox"/> CuCrZr <input type="checkbox"/> Others _____ |
| | <input type="checkbox"/> JAN <input type="checkbox"/> EUR <input type="checkbox"/> US |
| Torch mount | <input type="checkbox"/> 45° <input type="checkbox"/> 90° <input type="checkbox"/> Others _____ |
| Thru-arm  Distance A = mm | |
| Cable Assembly | the distance A must be determined from the centered mounting position of the wire feeder |
| over-arm  Distance A = mm | |
| Synchroscope (Push pull gun) | <input type="checkbox"/> Need <input type="checkbox"/> No need |
| working condition | <input type="checkbox"/> 110V <input type="checkbox"/> 220V |
| | <input type="checkbox"/> 50HZ <input type="checkbox"/> 60HZ |
| Cleaning station | Type <input type="checkbox"/> Pneumatic <input type="checkbox"/> Electrical |
| | Nozzle inner dia. |
| | Contact tip outer dia. |
| | Reamer part no. |
| Special needs: | |
| Others | <input type="checkbox"/> TRM <input type="checkbox"/> Neutral <input type="checkbox"/> Customized Special needs: _____ |