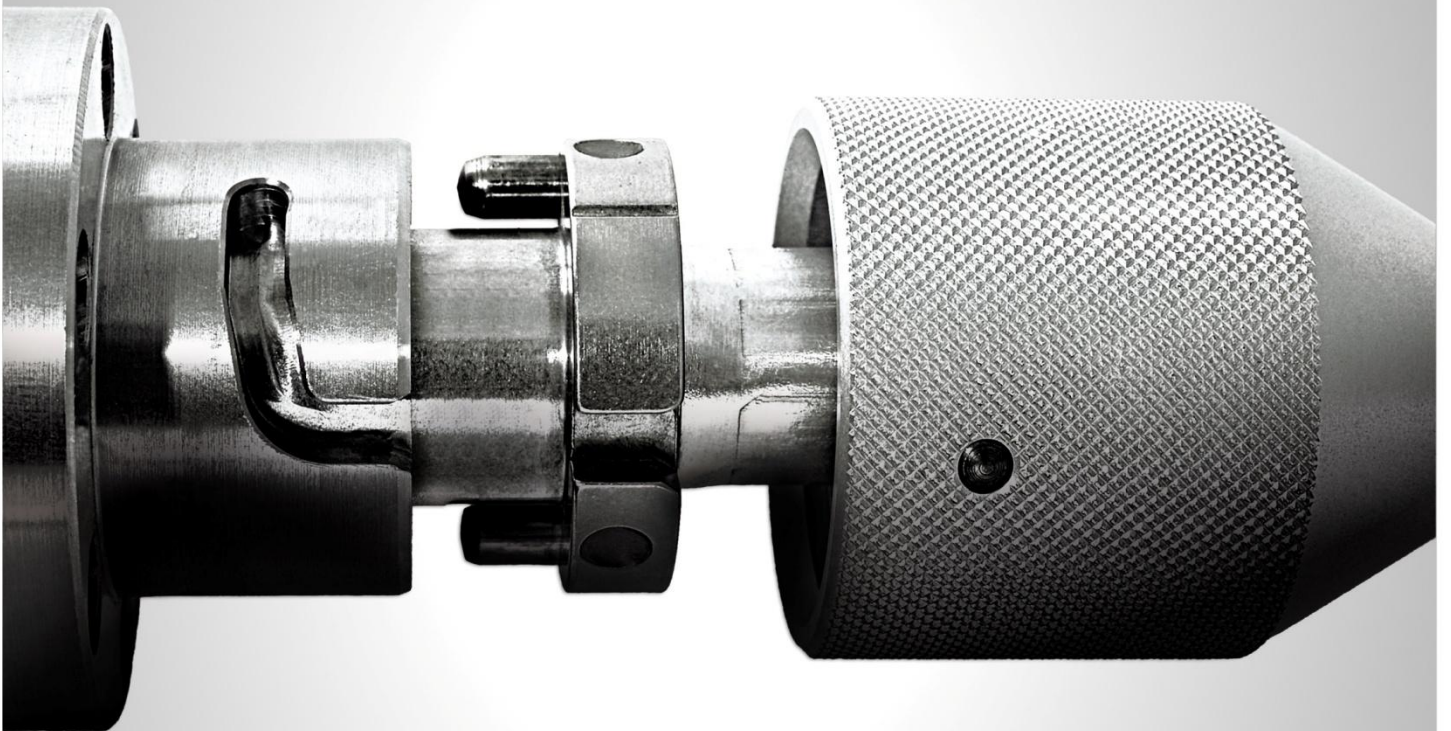











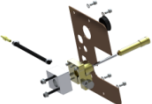
Made for Robots.

Power Clutch Retrofit

Cost optimized modernization of welding torch systems



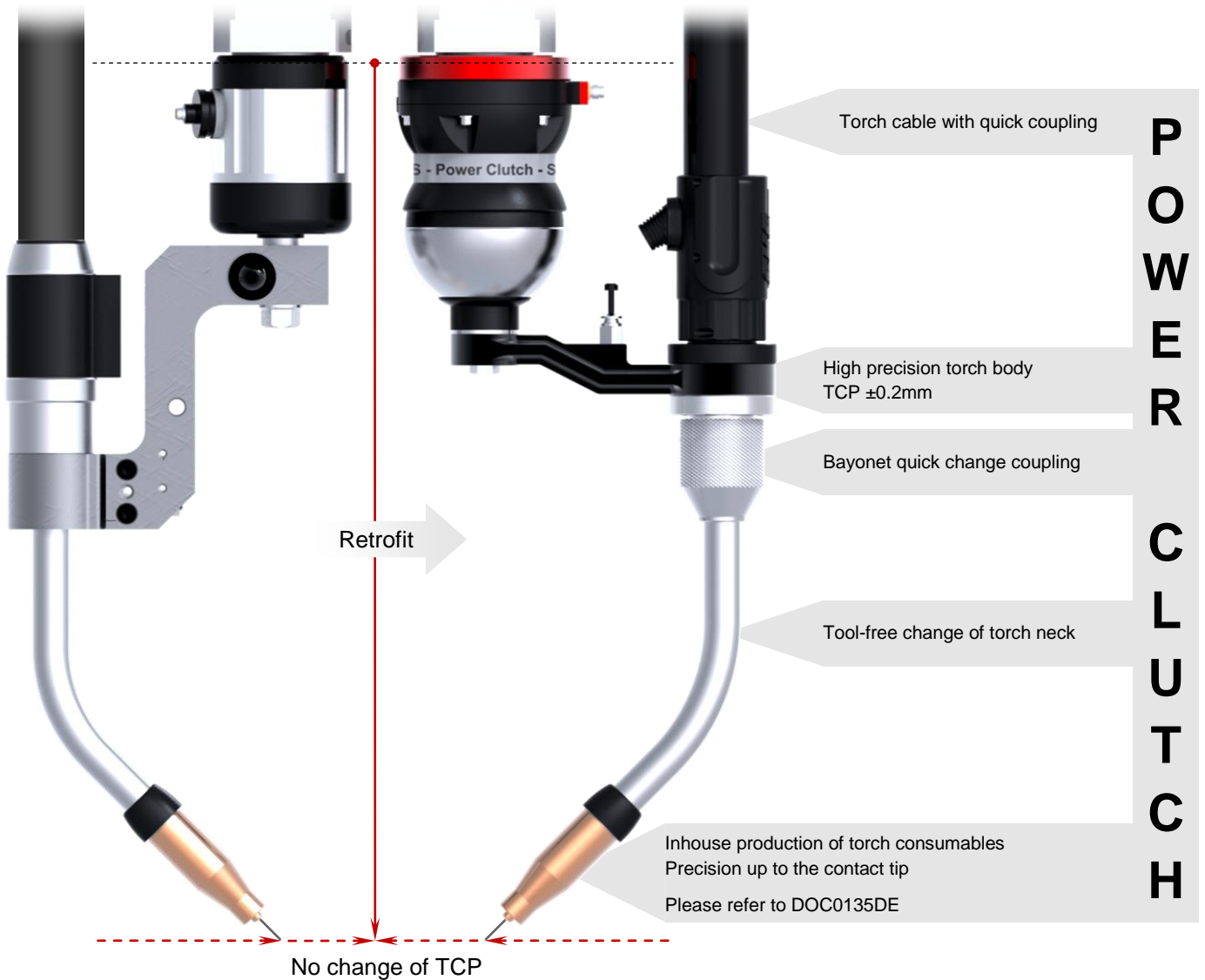
Content

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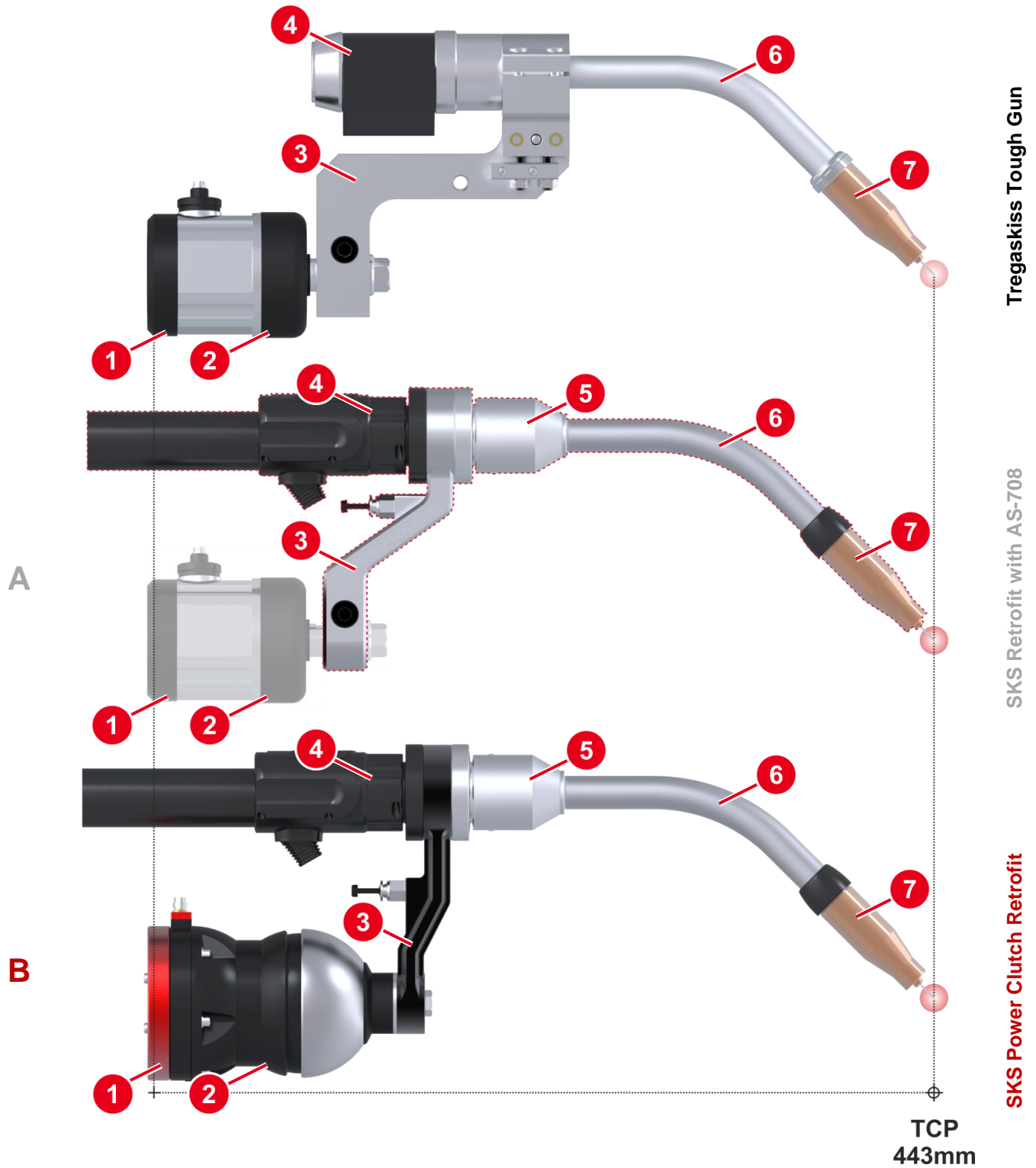
Introduction

New SKS Power Clutch retrofit concepts for modernization of components allow easy update of existing welding systems. Modernization of system offers comprehensive advantages by increasing system availability and cost savings, e.g. maintenance, storage, usage, energy.

Results: increase in product quality and system efficiency.



Retrofit for Torch Systems with Torch Neck type Q24B



Possible retrofiting

Retrofit A: Retrofitting while maintaining existing collision protection AS-708

Retrofit B: Complete retrofitting of torch system including collision protection Power Clutch™

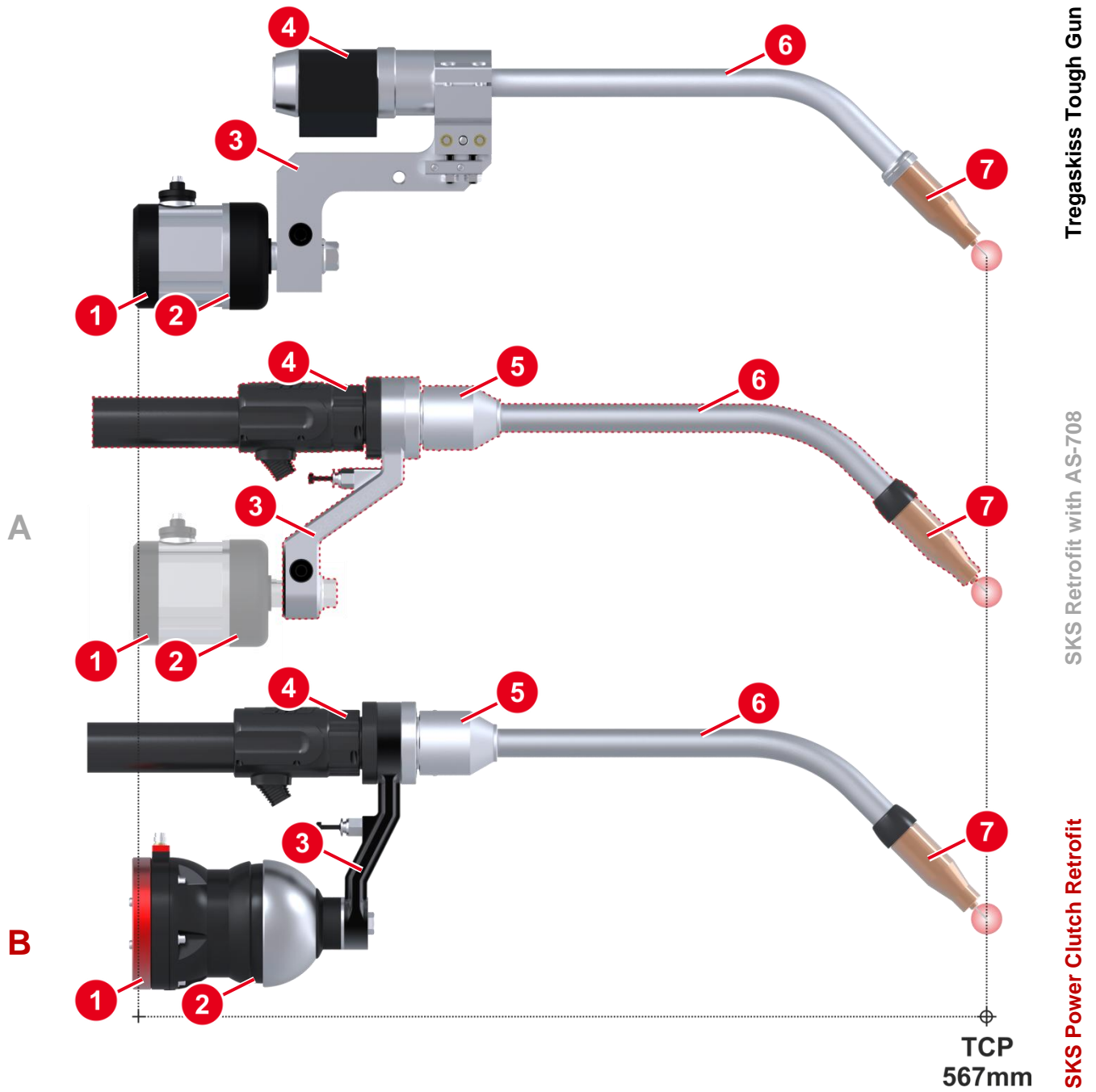
Retrofit for Torch Systems with Torch Neck type Q24B

Parts List

| | Tregaskiss Tough Gun | SKS Retrofit with AS-708 A | SKS Power Clutch Retrofit B |
|---|--|--|--|
| 1 | Robot specific connection flange | Robot specific connection flange | Robot specific connection flange |
| | 542045400 (or similar) | To be maintained | 63-4-1 (or similar) |
| 2 | TG collision protection | TG collision protection | Power Clutch collision protection |
| | AS-708 | To be maintained | 71-17 |
| 3 | TG mouning arm | Retrofit mounting arm for TG | Retrofit torch body for SKS |
| | AS-306-36-3 | 62-5-9-405-Q24B | 62-5-1-Q24B |
| 4 | TG torch cable | SKS torch cable | SKS torch cable |
| | E513-2.5* | 61-5-075 | 61-5-075 |
| | E513-3* | 61-5-09 | 61-5-09 |
| | E513-3.5* | 61-5-10 | 61-5-10 |
| | E513-4* | 61-5-12 | 61-5-12 |
| | E513-5* | 61-5-15 | 61-5-15 |
| | E513-6* | 61-5-18 | 61-5-18 |
| | E513-7* | 61-5-20 | 61-5-20 |
| | E513-8* | 61-5-24 | 61-5-24 |
| | P513-2.5 | 61-5-075 | 61-5-075 |
| | P513-3 | 61-5-09 | 61-5-09 |
| | P513-3.5 | 61-5-10 | 61-5-10 |
| | P513-4 | 61-5-12 | 61-5-12 |
| | P513-5 | 61-5-15 | 61-5-15 |
| | P513-6 | 61-5-18 | 61-5-18 |
| | P513-7 | 61-5-20 | 61-5-20 |
| | P513-8 | 61-5-24 | 61-5-24 |
| 5 | Bayonet clamping cap | Bayonet clamping cap | Bayonet clamping cap |
| | - | 71-3-24 | 71-3-24 |
| 6 | TG torch neck | SKS torch neck | SKS torch neck |
| | 405-Q24B | 58-4-345-450-1 | 58-4-345-450-1 |
| 7 | Consumables | Consumables | Consumables |
| | Please refer to Overview Torch Front End DOC0135EN | Please refer to Overview Torch Front End DOC0135EN | Please refer to Overview Torch Front End DOC0135EN |

* Conversion of torch connector to Power Pin connector required. Please refer to pages 14 + 15

Retrofit for Torch Systems with Torch Neck type Q048



Possible retrofiting

Retrofit A: Retrofitting while maintaining existing collision protection AS-708

Retrofit B: Complete retrofitting of torch system including collision protection Power Clutch™

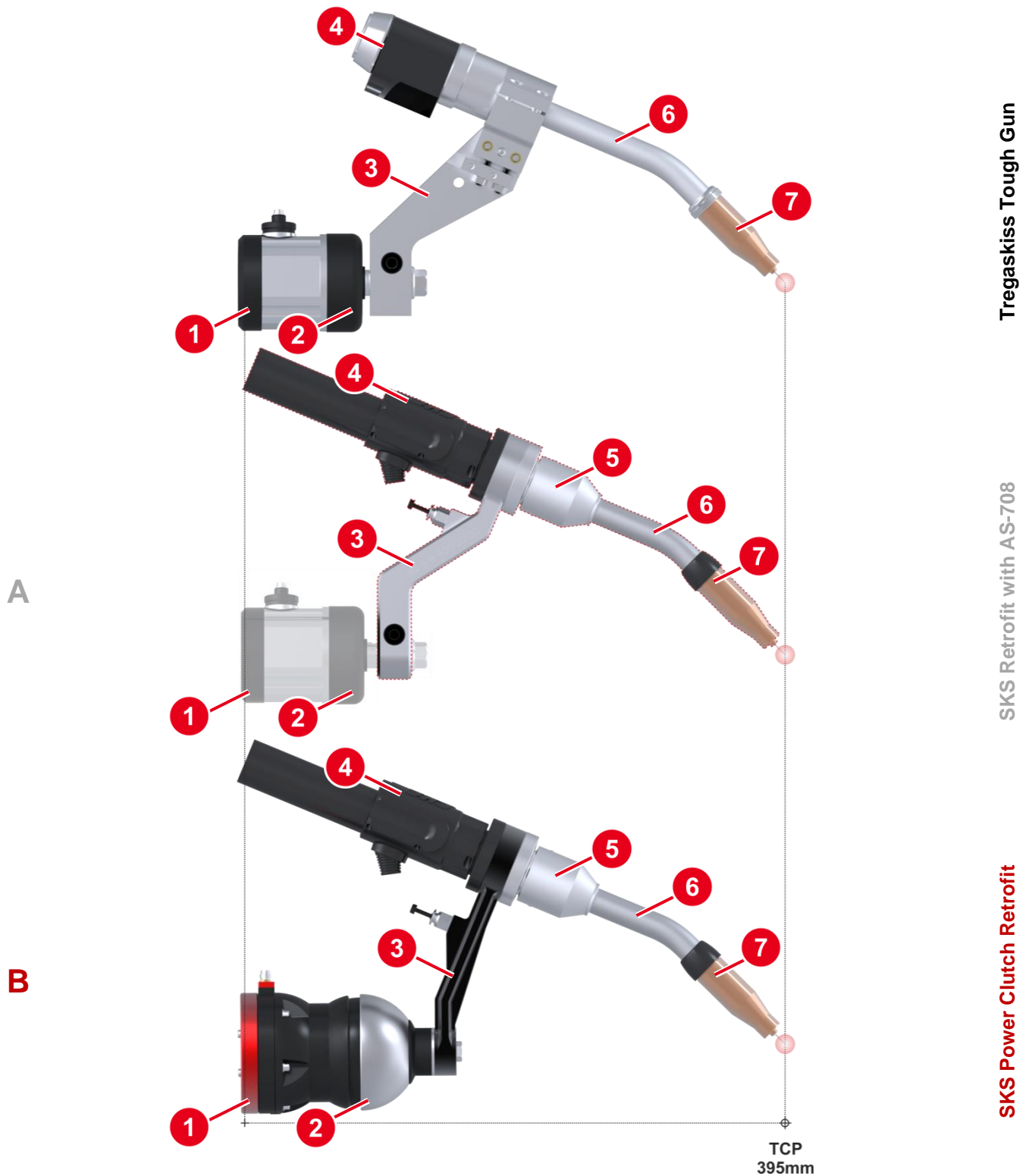
Retrofit for Torch Systems with Torch Neck type Q048

Parts List

| | Tregaskiss Tough Gun | SKS Retrofit with AS-708 A | SKS Power Clutch Retrofit B |
|---|--|--|--|
| 1 | Robot specific connection flange | Robot specific connection flange | Robot specific connection flange |
| | 542045400 (or similar) | To be maintained | 63-4-1 (or similar) |
| 2 | TG collision protection | TG collision protection | Power Clutch collision protection |
| | AS-708 | To be maintained | 71-17 |
| 3 | TG mouning arm | Retrofit mounting arm for TG | Retrofit torch body for SKS |
| | AS-306-36-3 | 62-5-9-405-Q048 | 62-5-1 |
| 4 | TG torch cable | SKS torch cable | SKS torch cable |
| | E513-2.5* | 61-5-075 | 61-5-075 |
| | E513-3* | 61-5-09 | 61-5-09 |
| | E513-3.5* | 61-5-10 | 61-5-10 |
| | E513-4* | 61-5-12 | 61-5-12 |
| | E513-5* | 61-5-15 | 61-5-15 |
| | E513-6* | 61-5-18 | 61-5-18 |
| | E513-7* | 61-5-20 | 61-5-20 |
| | E513-8* | 61-5-24 | 61-5-24 |
| | P513-2.5 | 61-5-075 | 61-5-075 |
| | P513-3 | 61-5-09 | 61-5-09 |
| | P513-3.5 | 61-5-10 | 61-5-10 |
| | P513-4 | 61-5-12 | 61-5-12 |
| | P513-5 | 61-5-15 | 61-5-15 |
| | P513-6 | 61-5-18 | 61-5-18 |
| | P513-7 | 61-5-20 | 61-5-20 |
| | P513-8 | 61-5-24 | 61-5-24 |
| 5 | Bayonet clamping cap | Bayonet clamping cap | Bayonet clamping cap |
| | - | 71-3-24 | 71-3-24 |
| 6 | TG torch neck | SKS torch neck | SKS torch neck |
| | 405-Q24B | 58-4-345-567-1 | 58-4-345-567-1 |
| 7 | Consumables | Consumables | Consumables |
| | Please refer to Overview Torch Front End DOC0135EN | Please refer to Overview Torch Front End DOC0135EN | Please refer to Overview Torch Front End DOC0135EN |

* Conversion of torch connector to Power Pin connector required. Please refer to pages 14 + 15

Retrofit for Torch Systems with Torch Neck type 22QC



Possible retrofitting

Retrofit A: Retrofitting while maintaining existing collision protection AS-708

Retrofit B: Complete retrofitting of torch system including collision protection Power Clutch™

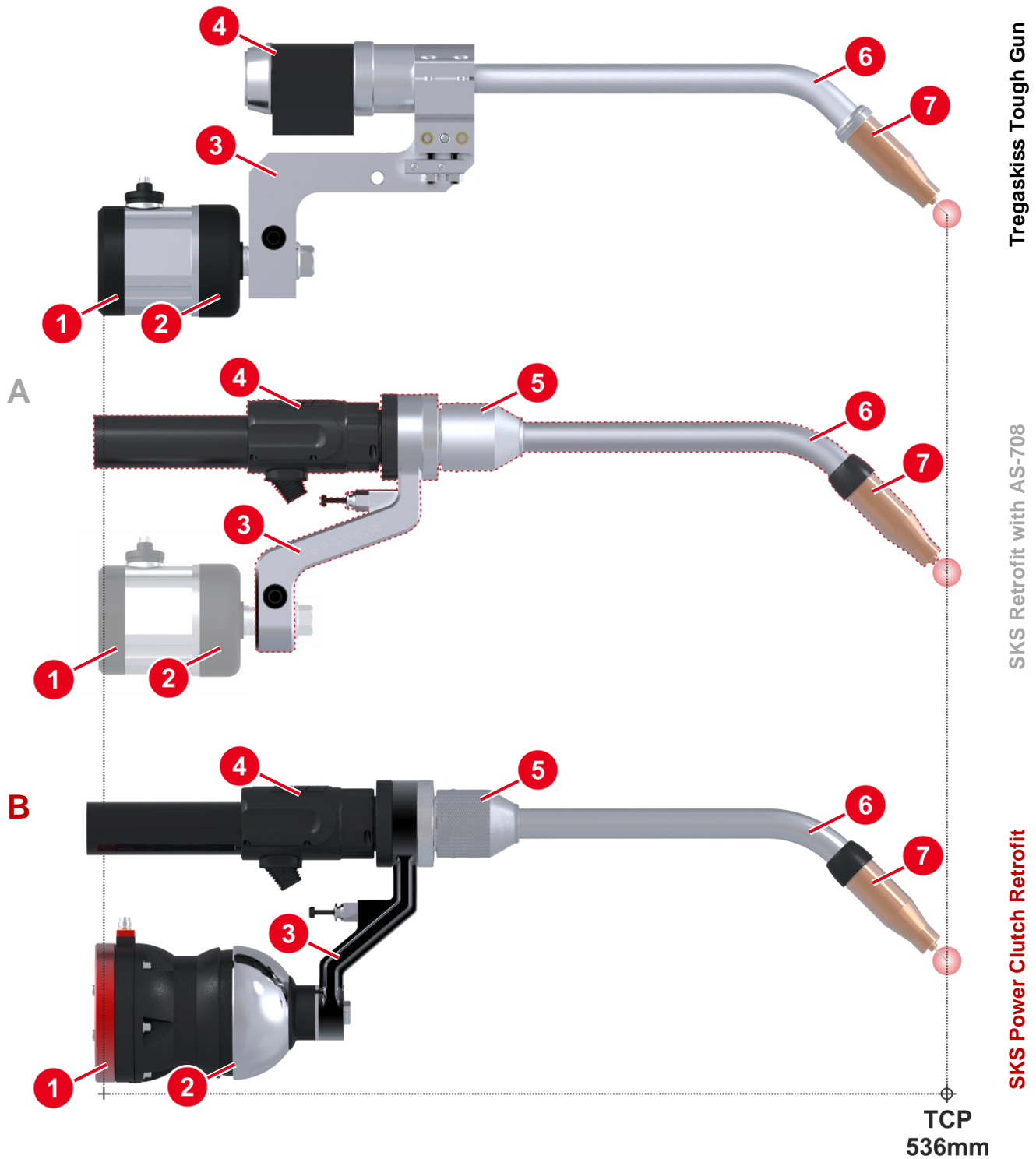
Retrofit for Torch Systems with Torch Neck type 22QC

Parts List

| | Tregaskiss Tough Gun | SKS Retrofit with AS-708 A | SKS Power Clutch Retrofit B |
|---|--|--|--|
| 1 | Robot specific connection flange | Robot specific connection flange | Robot specific connection flange |
| | 542045400 (or similar) | To be maintained | 63-4-1 (or similar) |
| 2 | TG collision protection | TG collision protection | Power Clutch collision protection |
| | AS-708 | To be maintained | 71-17 |
| 3 | TG mouning arm | Retrofit mounting arm for TG | Retrofit torch body for SKS |
| | AS-306-46-2 | 62-5-9-405-22QC | 62-5-1-22QC |
| 4 | TG torch cable | SKS torch cable | SKS torch cable |
| | E513-2.5* | 61-5-075 | 61-5-075 |
| | E513-3* | 61-5-09 | 61-5-09 |
| | E513-3.5* | 61-5-10 | 61-5-10 |
| | E513-4* | 61-5-12 | 61-5-12 |
| | E513-5* | 61-5-15 | 61-5-15 |
| | E513-6* | 61-5-18 | 61-5-18 |
| | E513-7* | 61-5-20 | 61-5-20 |
| | E513-8* | 61-5-24 | 61-5-24 |
| | P513-2.5 | 61-5-075 | 61-5-075 |
| | P513-3 | 61-5-09 | 61-5-09 |
| | P513-3.5 | 61-5-10 | 61-5-10 |
| | P513-4 | 61-5-12 | 61-5-12 |
| | P513-5 | 61-5-15 | 61-5-15 |
| | P513-6 | 61-5-18 | 61-5-18 |
| | P513-7 | 61-5-20 | 61-5-20 |
| | P513-8 | 61-5-24 | 61-5-24 |
| 5 | Bayonet clamping cap | Bayonet clamping cap | Bayonet clamping cap |
| | - | 71-3-24 | 71-3-24 |
| 6 | TG torch neck | SKS torch neck | SKS torch neck |
| | 405-Q24B | 58-1-22-350-1 | 58-1-22-350-1 |
| 7 | Consumables | Consumables | Consumables |
| | Please refer to Overview Torch Front End DOC0135EN | Please refer to Overview Torch Front End DOC0135EN | Please refer to Overview Torch Front End DOC0135EN |

* Conversion of torch connector to Power Pin connector required. Please refer to pages 14 + 15

Retrofit for Torch Systems with Torch Neck type Q006



Possible retrofitting

Retrofit A: Retrofitting while maintaining existing collision protection AS-708

Retrofit B: Complete retrofitting of torch system including collision protection Power Clutch™

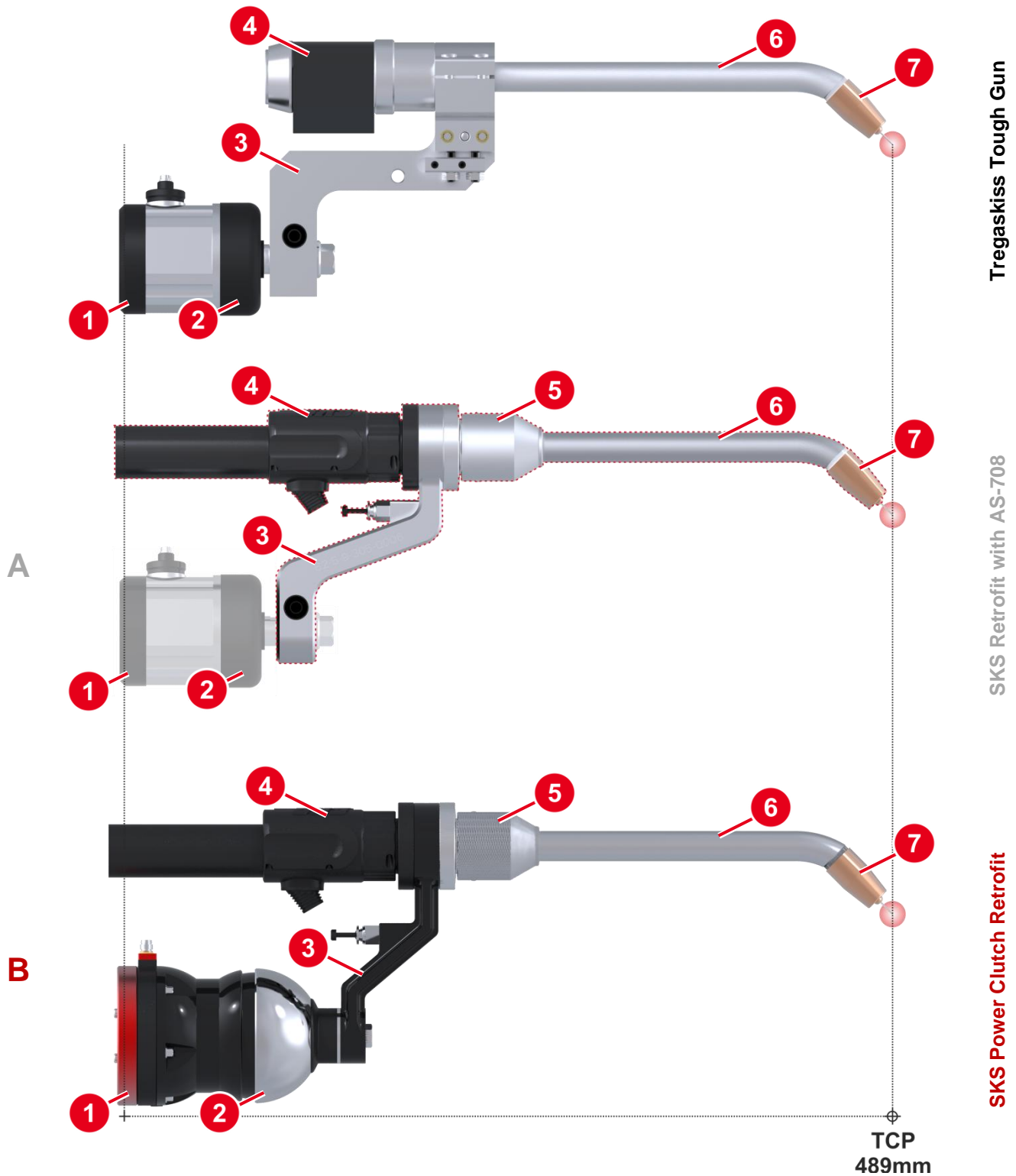
Retrofit for Torch Systems with Torch Neck type Q006

Parts List

| | Tregaskiss Tough Gun | SKS Retrofit with AS-708 A | SKS Power Clutch Retrofit B |
|---|--|--|--|
| 1 | Robot specific connection flange | Robot specific connection flange | Robot specific connection flange |
| | 542045400 (or similar) | To be maintained | 63-4-1 (or similar) |
| 2 | TG collision protection | TG collision protection | Power Clutch collision protection |
| | AS-708 | To be maintained | 71-17 |
| 3 | TG mouning arm | Retrofit mounting arm for TG | Retrofit torch body for SKS |
| | AS-306-36-3 | 62-5-9-305-Q006 | 62-5-1-Q006 |
| 4 | TG torch cable | SKS torch cable | SKS torch cable |
| | E513-2.5* | 61-5-075 | 61-5-075 |
| | E513-3* | 61-5-09 | 61-5-09 |
| | E513-3.5* | 61-5-10 | 61-5-10 |
| | E513-4* | 61-5-12 | 61-5-12 |
| | E513-5* | 61-5-15 | 61-5-15 |
| | E513-6* | 61-5-18 | 61-5-18 |
| | E513-7* | 61-5-20 | 61-5-20 |
| | E513-8* | 61-5-24 | 61-5-24 |
| | P513-2.5 | 61-5-075 | 61-5-075 |
| | P513-3 | 61-5-09 | 61-5-09 |
| | P513-3.5 | 61-5-10 | 61-5-10 |
| | P513-4 | 61-5-12 | 61-5-12 |
| | P513-5 | 61-5-15 | 61-5-15 |
| | P513-6 | 61-5-18 | 61-5-18 |
| | P513-7 | 61-5-20 | 61-5-20 |
| | P513-8 | 61-5-24 | 61-5-24 |
| | 5 | Bayonet clamping cap | Bayonet clamping cap |
| - | | 71-3-24 | 71-3-24 |
| 6 | TG torch neck | SKS torch neck | SKS torch neck |
| | 405-Q24B | 58-1-45-450-1 | 58-1-45-450-1 |
| 7 | Consumables | Consumables | Consumables |
| | Please refer to Overview Torch Front End DOC0135EN | Please refer to Overview Torch Front End DOC0135EN | Please refer to Overview Torch Front End DOC0135EN |

* Conversion of torch connector to Power Pin connector required. Please refer to pages 14 + 15

Retrofit for Torch Systems with Torch Neck type Q006k



Possible retrofitting

Retrofit A: Retrofitting while maintaining existing collision protection AS-708

Retrofit B: Complete retrofitting of torch system including collision protection Power Clutch™

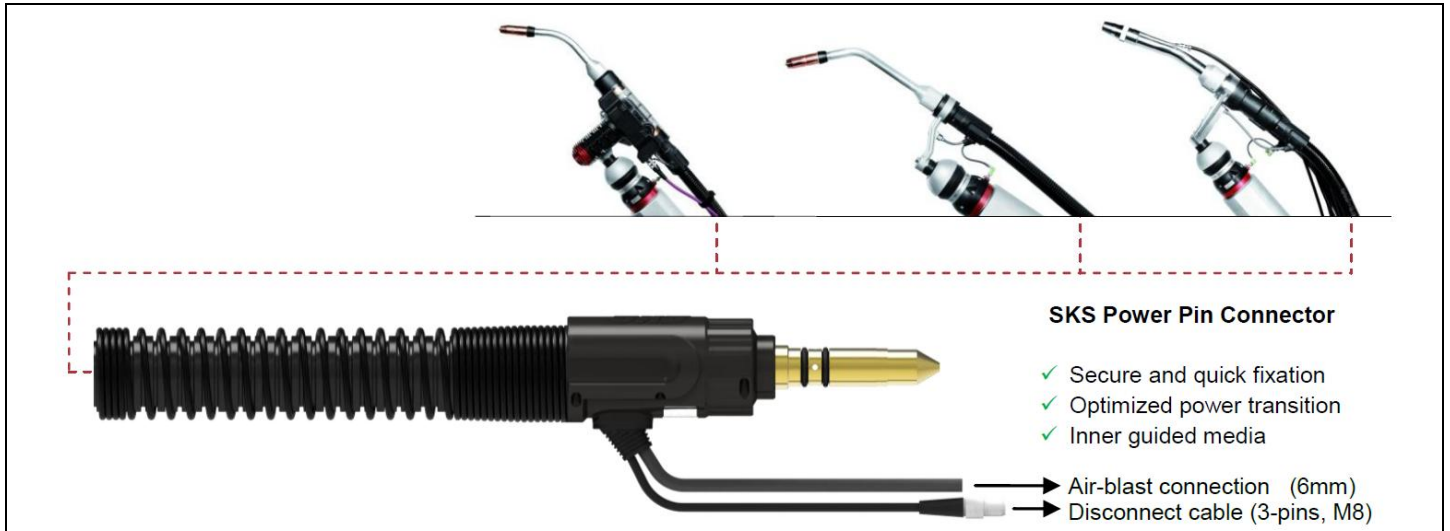
Retrofit for Torch Systems with Torch Neck type Q006k

Parts List

| | Tregaskiss Tough Gun | SKS Retrofit with AS-708 A | SKS Power Clutch Retrofit B |
|---|--|--|--|
| 1 | Robot specific connection flange | Robot specific connection flange | Robot specific connection flange |
| | 542045400 (or similar) | To be maintained | 63-4-1 (or similar) |
| 2 | TG collision protection | TG collision protection | Power Clutch collision protection |
| | AS-708 | To be maintained | 71-17 |
| 3 | TG mouning arm | Retrofit mounting arm for TG | Retrofit torch body for SKS |
| | AS-306-36-3 | 62-5-9-305-Q006 | 62-5-1-Q006 |
| 4 | TG torch cable | SKS torch cable | SKS torch cable |
| | E513-2.5* | 61-5-075 | 61-5-075 |
| | E513-3* | 61-5-09 | 61-5-09 |
| | E513-3.5* | 61-5-10 | 61-5-10 |
| | E513-4* | 61-5-12 | 61-5-12 |
| | E513-5* | 61-5-15 | 61-5-15 |
| | E513-6* | 61-5-18 | 61-5-18 |
| | E513-7* | 61-5-20 | 61-5-20 |
| | E513-8* | 61-5-24 | 61-5-24 |
| | P513-2.5 | 61-5-075 | 61-5-075 |
| | P513-3 | 61-5-09 | 61-5-09 |
| | P513-3.5 | 61-5-10 | 61-5-10 |
| | P513-4 | 61-5-12 | 61-5-12 |
| | P513-5 | 61-5-15 | 61-5-15 |
| | P513-6 | 61-5-18 | 61-5-18 |
| | P513-7 | 61-5-20 | 61-5-20 |
| | P513-8 | 61-5-24 | 61-5-24 |
| 5 | Bayonet clamping cap | Bayonet clamping cap | Bayonet clamping cap |
| | - | 71-3-24 | 71-3-24 |
| 6 | TG torch neck | SKS torch neck | SKS torch neck |
| | 405-Q24B | 58-1-145-400-1 | 58-1-145-400-1 |
| 7 | Consumables | Consumables | Consumables |
| | Please refer to Overview Torch Front End (QK and QK ceraMIG™) DOC0135EN | Please refer to Overview Torch Front End (QK and QK ceraMIG™) DOC0135EN | Please refer to Overview Torch Front End (QK and QK ceraMIG™) DOC0135EN |

* Conversion of torch connector to Power Pin Connector required. Please refer to pages 14 + 15

Power Pin Torch Connector



Conversion of wire feeders

Conversion of wire feeders

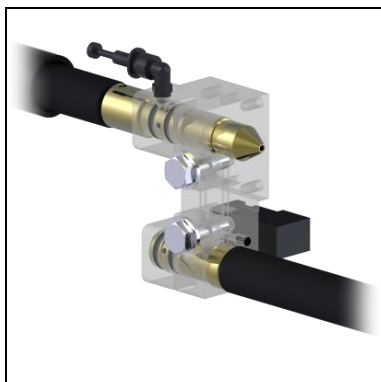
Existing SKS wire feeders from QD series as well as from other manufacturers can easily be updated with the power pin connector. For simple conversion SKS provides corresponding conversion kits including screws, adapter panels, torch adapters and detailed conversion manuals.



Torch cable with Power Pin

Torch Cables with Power Pin connector

SKS torch cables are highly flexible coaxial cables with 72mm² cross-section. Lower resistances of torch components lead to improved energy transfer to the process resulting in higher process stability. SKS Power Pin provides secure fixation and reliable transmission of electricity and gas. Disconnection cable connected to safety clutch and air-blast hose are integrated in torch cable. Additional protection springs mounted on both cable ends ensure defined cable guiding avoiding cable damages.





Power Pin connector block

Transmission of electricity and gas

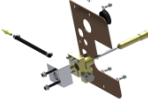
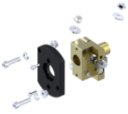
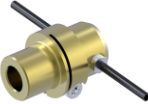
SKS Power Pin ensures secure transmission of power and gas. Power is transmitted over entire surface of the Power Pin reducing contact resistances. Gas is conducted within the Power Pin, thus ensuring a secure flow of gas.

Conversion of Wire Feeders to Power Pin Connector

Conversion of SKS wire feeders to Power Pin connector

| Description | Part Number |
|--|---|
| Conversion Kit for SKS wire feeder Q590D/Q591D from Dinse central connector to SKS Power Pin | 541029300-URTG  |
| Conversion Kit for SKS wire feeder Q590D/Q591D from Euro connector to SKS Power Pin | 541029200-URTG  |

Conversion of non SKS wire feeders to Power Pin connector

| | |
|--|--|
| Conversion Kit for Fronius wire feeder VR1500 from Dinse central connector / Euro connector to SKS Power Pin | 95-4  |
| Conversion Kit for ESAB wire feeder A314E-PIB from Euro connector to SKS Power Pin | 95-12  |
| Conversion Kit for Lincoln wire feeder Autodrive 4R90 from Lincoln Pin to SKS Power Pin | 95-11-1  |



www.sks-welding.com