

### Water Joint Lite torch system

- ✓ Supports robots internal collision detection
- ✓ Media coupling endless rotatable
- ✓ No torsional stress of the torch cable
- ✓ Bayonet quick change system for easy and fast installation / maintenance
- ✓ Precision parts optimized for joining of thin metal sheets
- ✓ Thousandfold proven in industry
- ✓ For all robots with inner cable dress
- ✓ 420A at 60% duty cycle / 40°C
- ✓ TCP accuracy  $\pm 0.2\text{mm}$  (at TCP 400mm)
- ✓ Supports quick load liners



**1 Torch cable for Power Joint Lite Torch**

Part-No.	Robot
61-80-1800-1	IRB 1600iD
61-80-2600-15-1	IRB 2600iD 15-185
61-80-2600-8-1	IRB 2600iD 8-200
61-80-100-1	Arc Mate 100iC
61-80-100-6-1	Arc Mate 100iC 6L
61-80-120-1	Arc Mate 120iC
61-80-120-10-1	Arc Mate 120iC 10L
61-80-100-6-1	KR5 arc HW
On request	KR16 arc HW
61-80-16L8-1	KR16 L8 arc HW
61-80-1400-1	MA1400
61-80-1400-1	VA1400
61-80-1440-1	MA1440
On request	MA1550
61-80-1800-1	MA1800
61-80-1900-1	MA1900
61-80-2010-1	MA2010

**2 Mounting kit for Power Joint**

Part-No.	Robot
71-80-1600-1	IRB 1600iD
On request	IRB 2600iD 15-185
On request	IRB 2600iD 8-200
71-80-1000-1	Arc Mate 100iC
71-80-1000-1	Arc Mate 100iC 6L
71-80-1200-1	Arc Mate 120iC
71-80-1000-1	Arc Mate 120iC-10L
71-80-1500-1	KR5 arc HW
On request	KR16 L8 arc HW
On request	KR16 arc HW
71-80-1400-1	MA1400
71-80-1400-1	VA1400
71-80-2010-1	MA1440
On request	MA1550
71-80-1800-1	MA1800
71-80-1400-1	MA1900
71-80-2010-1	MA2010

**3 Water Joint Module**

Part-No.	Robot
71-80-100	IRB 1600iD
71-80-200	IRB 2600iD 15-185
71-80-200	IRB 2600iD 8-200
71-80-100	Arc Mate 100iC
71-80-100	Arc Mate 100iC 6L
71-80-200	Arc Mate 120iC
71-80-100	Arc Mate 120iC-10L
71-80-100	KR5 arc HW
Auf Anfrage	KR16 L8 arc HW
Auf Anfrage	KR16 arc HW
71-80-100	MA1400
71-80-100	VA1400
71-80-300	MA1440
71-80-300	MA1550
71-80-200	MA1800
71-80-100	MA1900
71-80-300	MA2010

**4 SKS collision protection Power Joint Lite**

Part-No.	
71-10	

**5 Liner for SKS torch system**

Part-No.	Length	Wire Ø (Stahl)
415-35-6Q	1.8m	0.8-1.0 mm
415-35-10Q	3.0m	0.8-1.0 mm
415-116-6Q	1.8m	1.2-1.6 mm
415-116-10Q	3.0m	1.2-1.6 mm
415-26		End sleeve for liner
Part-No.	Length	Wire Ø (Al)
91-68-47025-25E	Per m.	1.0-1.6 mm
44-30-7		End sleeve
61-2-0-2-7		End cap

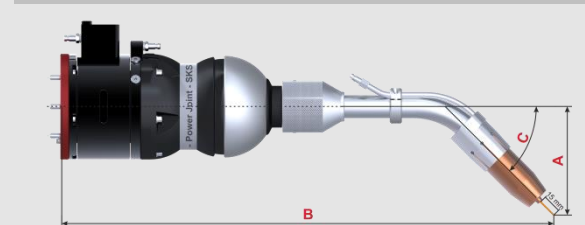
**6 Water conduit flow and return for cooling jacket (3.5m self-adjusting)**

Part-No.	
71-8-16	

**7 Water conduit flow and return for connection Water Joint**

Part-No.	
71-8-0-7	

**8 Torch neck (single wire) - water-cooled -**



Part-No.	A	B	C
58-427-00-500-1	0 mm	499.0 mm	0°
58-127-22-350-1	45 mm	410.0 mm	22°
58-127-22-400-1	45 mm	460.0 mm	22°
58-127-45-350-1	90 mm	410.0 mm	45°
58-427-345-450-1	120 mm	448.5 mm	45°

**9 Heavy duty retaining head Power Lock standard**

Part-No.	
43-9-2	

**10 Contact tip Power Lock**

Part-No.	Material	Wire Ø
40-4-7-0.8E	Cu-ETP	0.8 mm
40-4-7-0.9E	Cu-ETP	0.9 mm
40-4-7-1.0E	Cu-ETP	1.0 mm
40-4-7-1.2E	Cu-ETP	1.2 mm
40-4-7-0.8S	CuCrZr	0.8 mm
40-4-7-0.9S	CuCrZr	0.9 mm
40-4-7-1.0S	CuCrZr	1.0 mm
40-4-7-1.2S	CuCrZr	1.2 mm
40-4-7-1.4S	CuCrZr	1.4 mm
40-4-7-1.6S	CuCrZr	1.6 mm
40-4-7-1.2AL	CuCrZr	1.2 mm
40-4-7-1.6AL	CuCrZr	1.6 mm

**11 Gas nozzle with thread** [All measurements in mm]



Part-No.	41-9-13-BF	401-6-50-G	401-81-62-G	41-9-16-TF	401-6-62-G
Ø in mm	13	13	16	16	16
Shape	bottle	tapered	tapered	tapered	tapered
Length	flush	long	short	flush	long
Type	Heavy duty	Heavy duty	Heavy duty	Heavy duty	Heavy duty