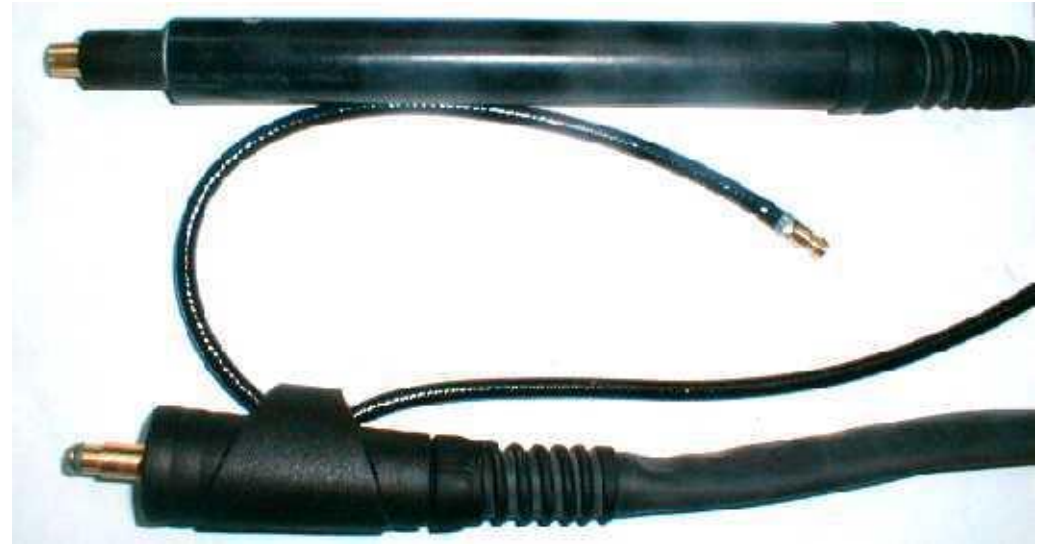




Mechanized TIG welding torches

Automatic welding torch

- F++ connection
- Automatic tube with $\varnothing$ 32mm suitable for all robot cold wire feedings
- Protection hose connection same as for TIG-manual torch
- Wide dimensioned PVC-hoses for current water cable and water return



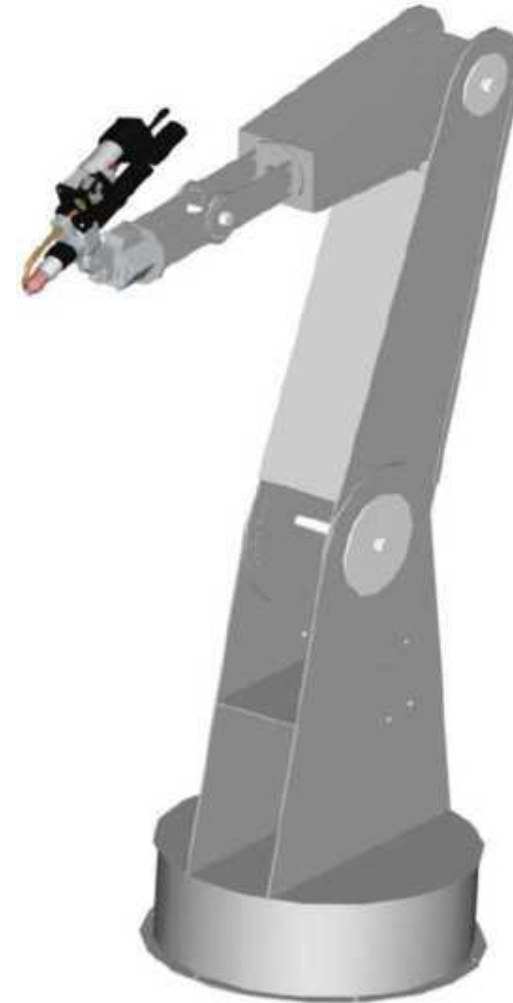
Technical data TIG automatic welding torches

According to EN 60974-7

Welding torch	Welding current at AC	Welding current at DC	Duty Cycle	Electrode diameter
TTG2200-M	180A	220A	35%	1,0 - 4,0 mm
TTW4000-M	350A	400A	60%	1,0 - 4,0 mm

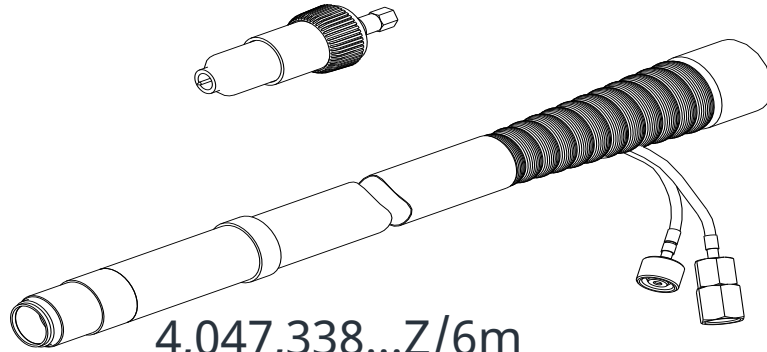
TIG Robot welding torch

- Modular construction
- Changeable torch head
- Pre-adjusting device for electrodes
- Cold wire feeder Push and Pull



TIG Robot welding torch

34,0350,2020



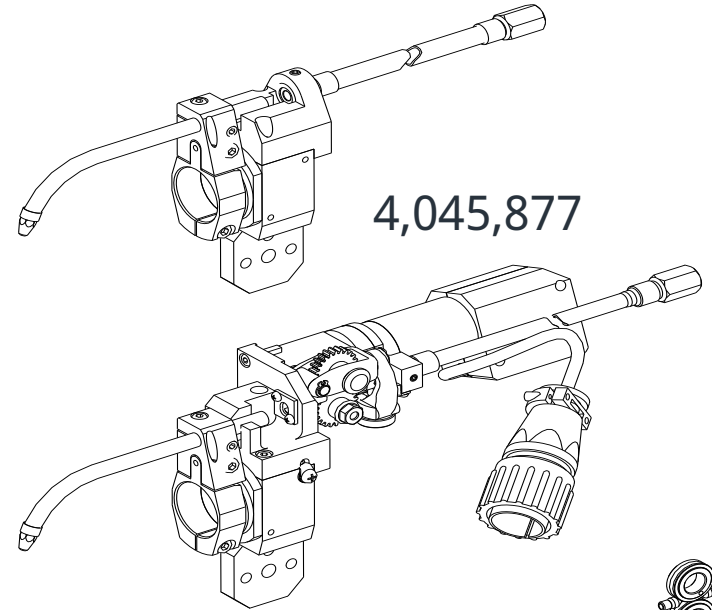
4,047,338...Z/6m

4,047,339...Z/8m

4,047,372...F++/6m

4,047,373...F++/8m

4,045,877



4,045,878

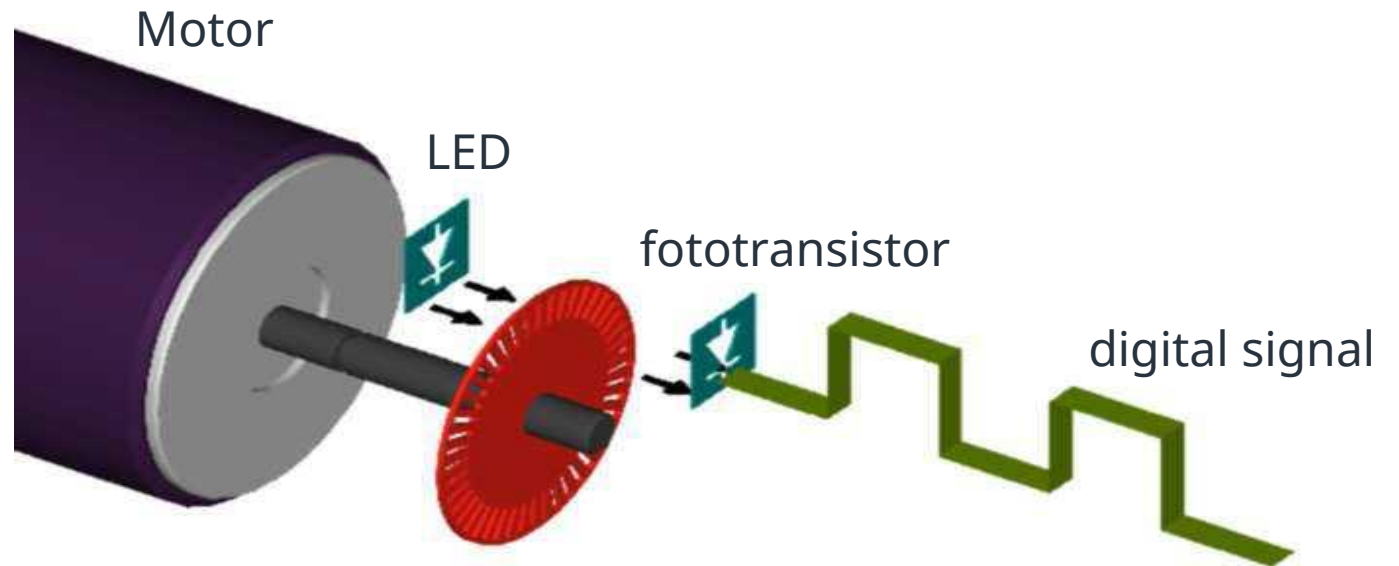
Cold wire feeding Pull

- Three different motors (0-5m/min, 0-11m/min and 0-22m/min)
- High performance driving device
- Digital transmitter
- Cold wire feeder 3x90° mountable
- Wire feeding tube pivoted



Digital transmitter

- Precisely controlled speed
- No tolerances of components
- No temperature effects
- Steady wire transport



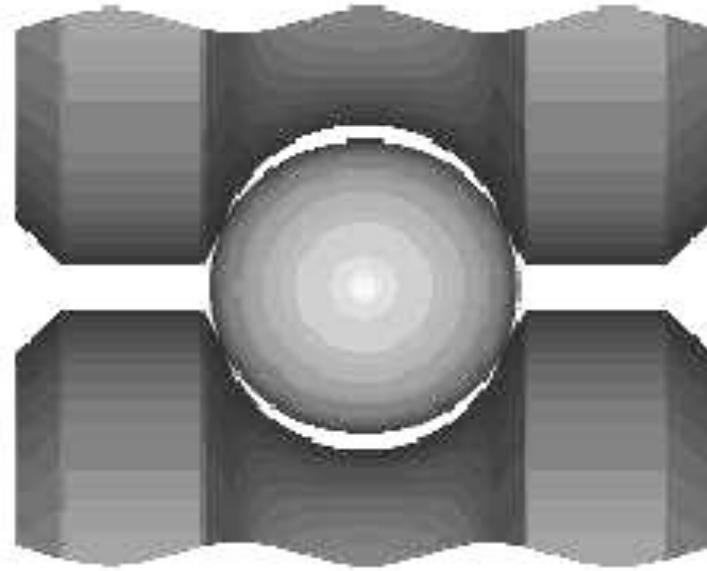
Wire feed rollers

- Driving and pressure roll toothed
- Roll diameter 23mm
- Driving roll with two grooves
- Combination grooves – driving roll



Combination groove

- Combination of semi-circular groove and combination groove
- 4 pressure points
- 30% improved power transmission
- Suitable for all wire materials



Cold wire feeding Push

- Up to a maximum wire feeder hose length of 3m
- Cold wire feeder 3x90° mountable
- Wire feeding tube pivoted



Without cold wire feeding

- Applicable without cold wire feeder



Changeable torch head

- In each case only one gas lens for all electrode diameters
- Pre-adjustable electrode
- Precise electrode position



Robot hose pack

- Connection for robot torch body
- F++ central connector
- Plastic half shells with corrugated hose connection
- High flexible, wide dimensioned rubber hoses for current water cable and water return



Robacta TTW4500

Robot welding torch

- 330 A AC / 450 A DC at 60% Duty cycle
- Electrode: 1,6 – 4,8mm
- Length 6m / 8m
- Robot compatible holder → precise TCP
- Modular configuration KD, HD, Drive
- Same TCP as Robacta PTW 1500



Robacta TTW5500

Robot welding torch

- 4,047,499 Robacta TTW5500 F++/6m
- 4,047,500 Robacta TTW5500 F++/8m

- Robot compatible holder → precise TCP
- Modular configuration KD, HD, Drive

Technical data acc. to EN 60974-7:

- AC 390 A 100% duty cycle
- DC 550 A 100% duty cycle



Different torch body angles

/ Robacta TTW4500 17°

Article numbers:

4,047,472 Robacta TTW4500 F++/1,35m

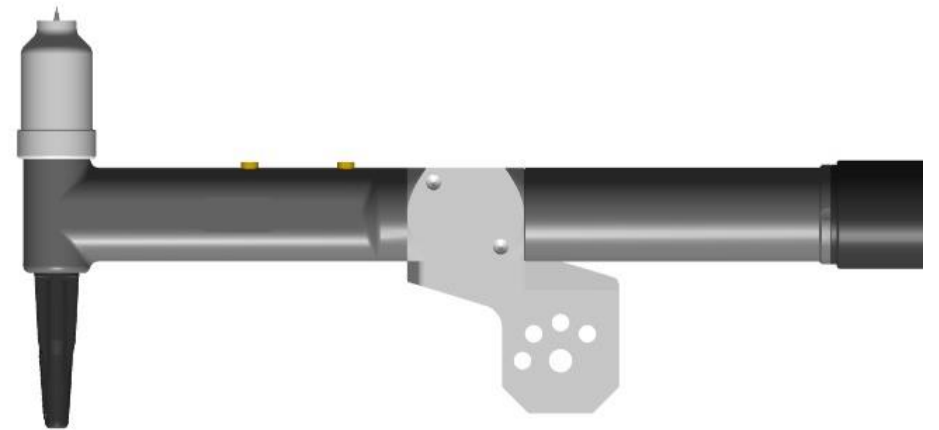
4,047,442 Robacta TTW4500 F++/6,0m

4,047,443 Robacta TTW4500 F++/8,0m



/ Robacta TTW4500 90°

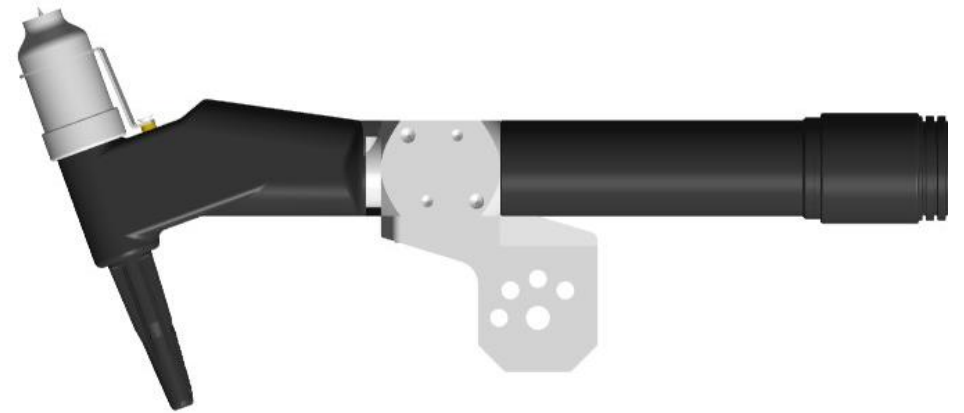
Project: like 4,047,xxx but with special torch body angle 90°



Different torch body angles

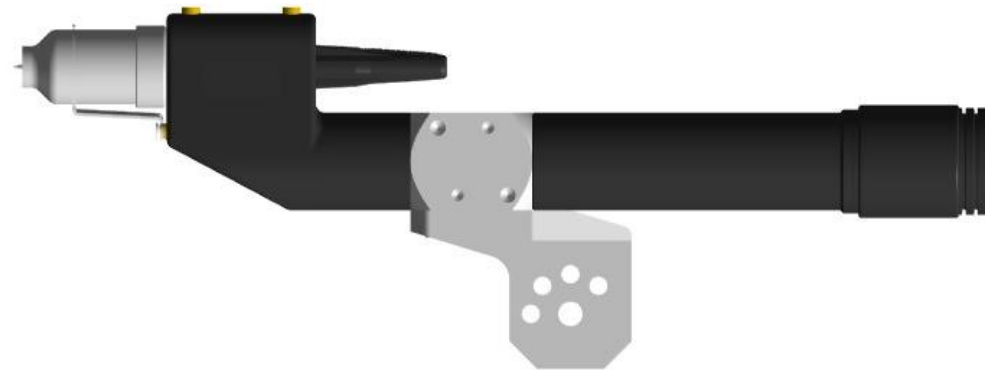
/ Robacta TTW4500 70°

Project: wie 4,047,xxx but with special torch body angle 70°



/ Robacta TTW4500 0°

Project: wie 4,047,xxx but with special torch body angle 0°



Technical data acc. to EN 60974-7

watercooled	Welding current AC	Welding current DC	Duty cycle	Electrode diameter
Robacta TTW 4000	400A	400A	60%	1,0 - 4,0 mm
Robacta TTW 4500	450A	450A	60%	1,0 - 4,0 mm
Robacta TTW 5500	390A	550A	100%	3,2 – 6,4 mm

Options

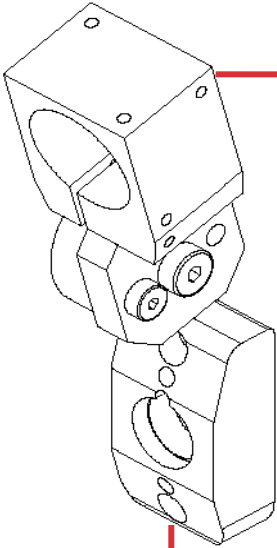
Pre-adjusting device for electrodes

- To adjust the electrode

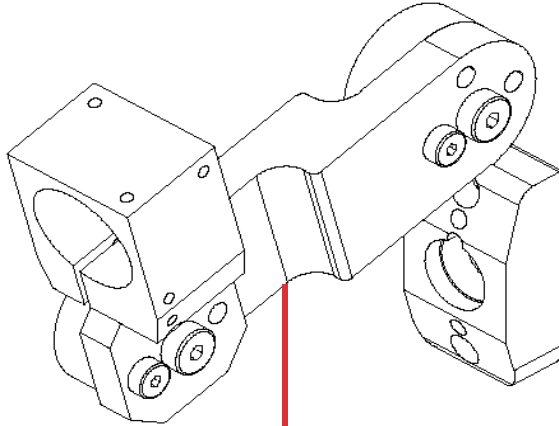


Holding clamps

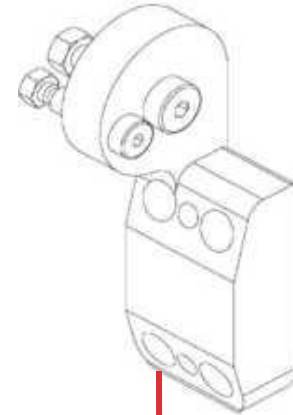
42,0201,0135
Holding clamp WIG RO KD



42,0201,1644 Mounting
for Binzel CAT,
Dinse DIX SASS



42,0201,1651 120mm
42,0201,1652 140mm
42,0201,1525 160mm
Extension



42,0201,1526
Mounting Motoman

WIG PAP

TIG Torch Robacta TTW 4500 PAP

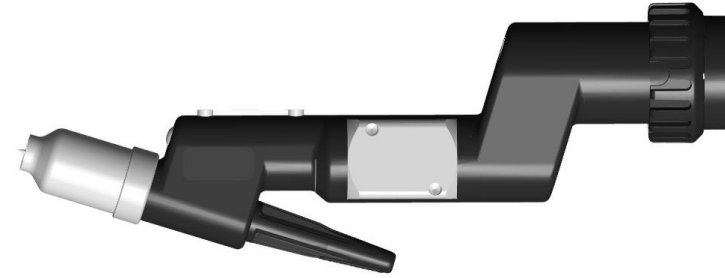
- **Robacta TTW 4500 PAP**
- Art.No. 44,0350,3034
 - 450A DC- 60% duty cycle
 - 320A AC 60% duty cycle
 - Electrode: 1,6/2,4/3,2*/4,0/4,8mm
 - Changeable torch body
 - Optional cold wire feeding



Different torch body angles

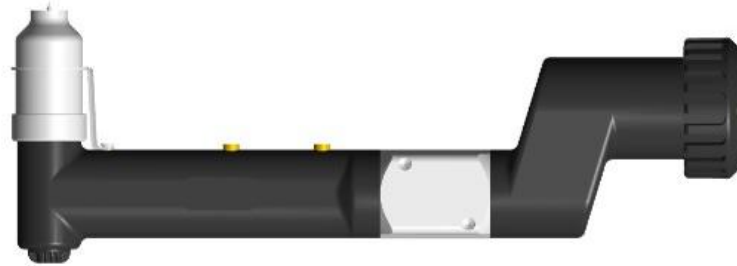
- **Robacta TTW4500 PAP 17°**

Article number: 44,0350,3034



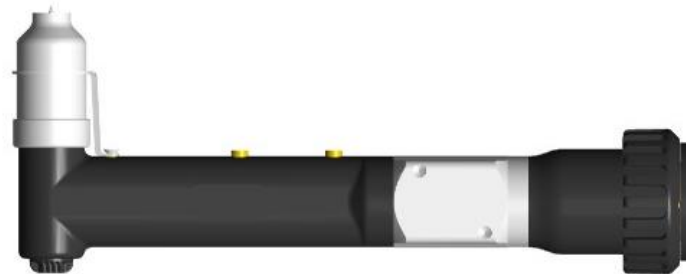
- **Robacta TTW4500 PAP 90°**

Article number: 44,0350,3247



- **Robacta TTW4500 PAP 90° straight**

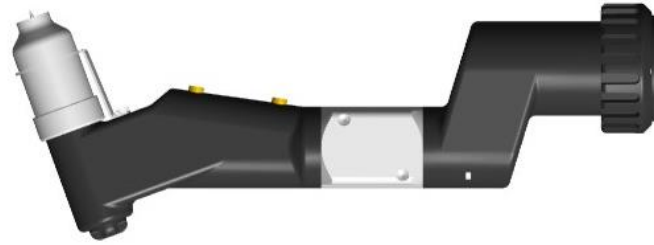
Article number: 44,0350,3246



Different torch body angles

- **Robacta TTW4500 PAP 70°**

Article number: 44,0350,3887



- **Robacta TTW4500 PAP 70° straight**

Article number: 44,0350,3886



- **Robacta TTW4500 PAP 0°**

Article number: 44,0350,3892



TIG Torch Robacta TTW 5500 PAP

- **Robacta TTW 5500 PAP**
- Art.No. 44,0350,2909
 - 550A DC- 100% duty cycle
 - 390A AC 100% duty cycle
 - Electrode: 4,0/4,8*/6,4mm
 - Changeable torch body
 - Optional cold wire feeding



Hose pack Plasma / TIG PAP

- **Robacta W/CB-PAP/TIG-Plasma/6m**
- Art.Nr..4,047,671
 - One hose pack for all kinds of robots
 - Cold wire feeding is integrated
 - Useable for WIG and Plasma applications



Crashbox

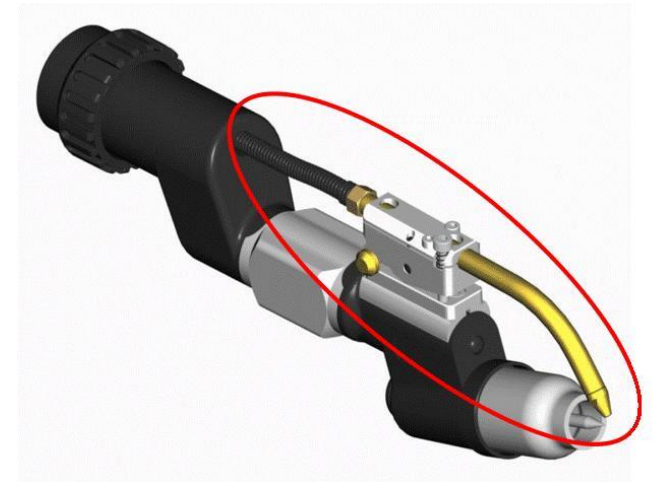
CrashBox PAP

Art.No.:44,0350,2748



Cold wire feeding

- **Cold wire feeding holding lock swivel**
- Art.No.:44,0350,2910
- Wire feeding
- Optional for PTW 3500 PAP and TTW 5500 PAP



Torch holding clamp

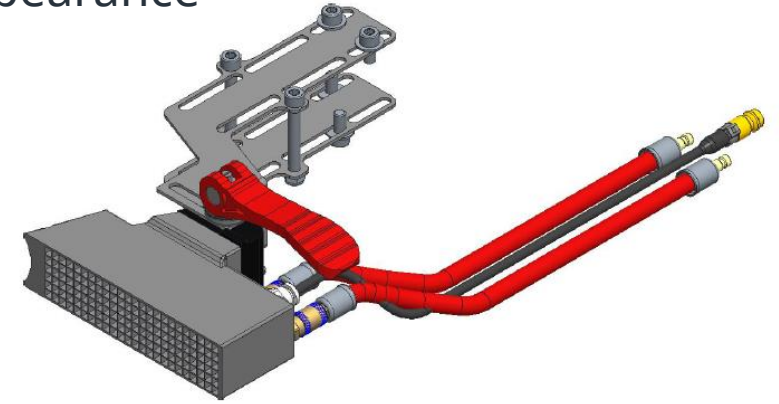
- **Holding clamp TIG/Plasma PAP**
- Art.No.: 44,0350,5014
 - Holding clamp hosepack for PTW 1500/3500 PAP and TTW 4500/5500 PAP
 - Bracket for conventional robots and mechanized applications.



Drag gas nozzles

Drag gas nozzles

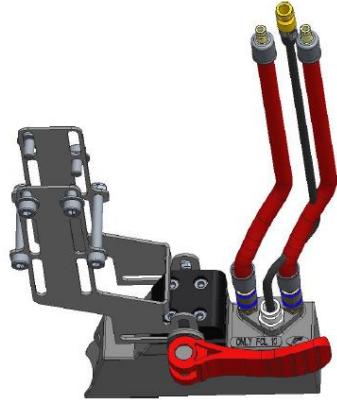
- Flow-optimized drag gas nozzle for optimum seam quality and appearance
- Watercooled drag gas nozzle
- No sealing lips that needs to be replaced
- Lever for moving the body into a different position
- Easy consumable change
- Improved visibility of the welding point
- Lower gas consumption through optimized flow channels (3D printing)
- **Suitable for torch bodies with 0° and 17° / conventional and PAP**
 - ArcTig: TTW 7200 ArcTig (circumferential welds only with gas nozzle 44,0350,1579) / TTW 3600 ArcTig
 - WIG: Robacta TTW 4500 / Robacta TTW 5500
 - Plasma: Robacta PTW 1500 / PTW 3500 (only without external watercooling)



Variants

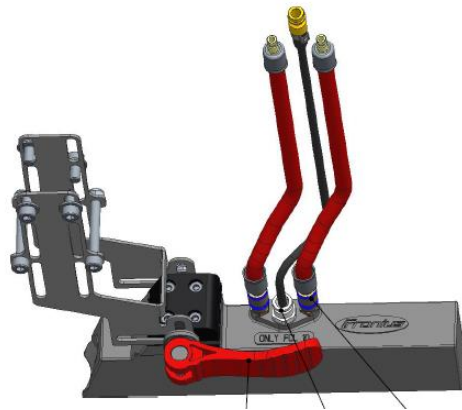
Drag gas nozzle with length 100mm

44,0350,0751 drag gas nozzle
100x27x43 r17



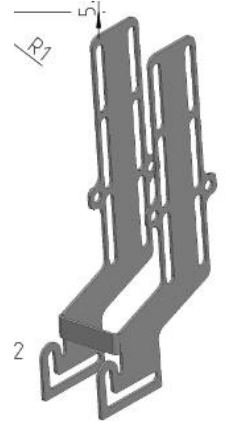
Drag gas nozzle with length 180mm

44,0350,0677 drag gas nozzle
180x27x43 r17



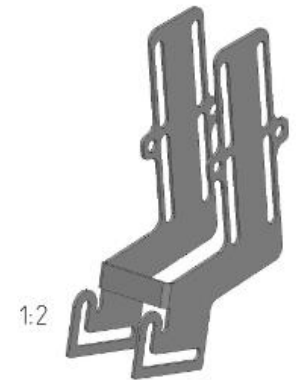
Holder for 0° torch body

42,1200,0256 holder for
torch body 0°



Holder for 17° torch body

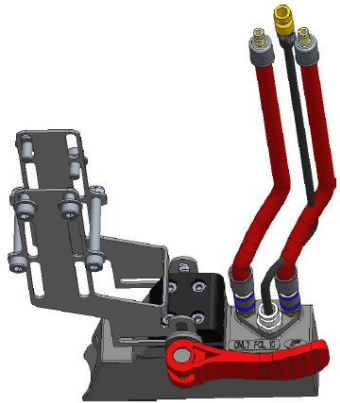
42,1200,0390 holder for
torch body 17°



Variants for circumferential welds

Drag gas nozzle with length 100mm

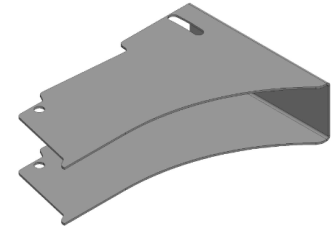
44,0350,0751 drag gas nozzle 100x27x43 r17



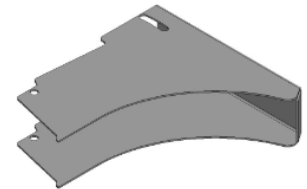
Holder for 0° torch body
42,1200,0556 holder for 0° torch body



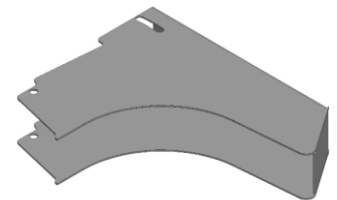
42,1200,0557
8inch/ 222mm



42,1200,0558
6inch/ 168mm



42,1200,0559
4inch/ 115mm



Holder for 17° torch body
42,1200,0584 Holder for 17° torch body

Other diameters available on request between 115mm and 222mm



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