

BINZEL. The right welding torch for every job.

The welding torches belonging to this range of products are used for automatic arc-gas welding using both inert and active gases. They have a universal application and are suitable for all welding positions.

The standard unit is a water-cooled neck either straight or with a 22° or 45° bend with WH torch body, cable assembly with integral airblast hose and central adaptor for connection to the machine.

550 A mixed gases 82/18

(DIN 32 562) 100% duty cycle

Wire sizes: 1.0-1.6 mm

Motor: up to 42 V DC

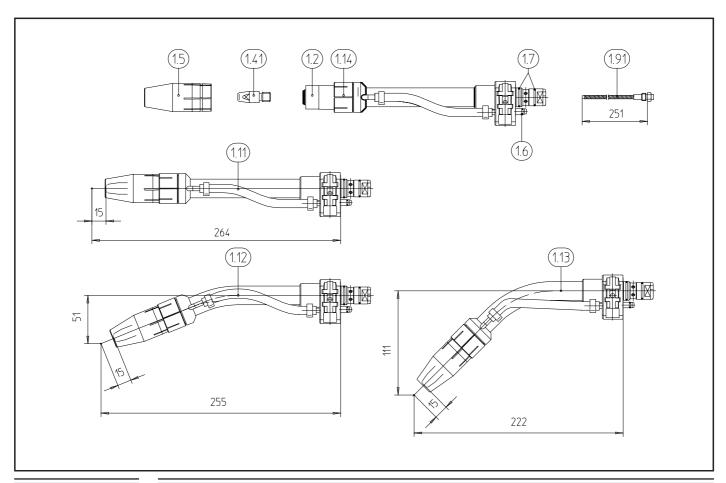
Gearbox: i=17, 1:1standard,

different motor/gearboxes

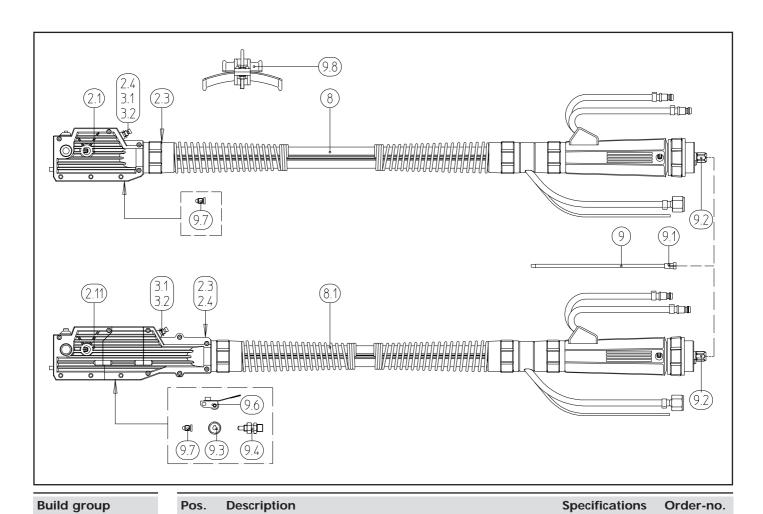
to special order

When pulse welding, reduce rating by 35%.





1.11 1.12 1.13 1.14	Swan neck ROBO WH 650, straight Swan neck ROBO WH 650, sensor, straight Swan neck ROBO WH 650, 22° Swan neck ROBO WH 650, sensor, 22° Swan neck ROBO WH 650, 45° Swan neck ROBO WH 650, sensor, 45° Nozzle clamping ring		962.0421 962.0566 962.0422 962.0567 962.0423
1.12 1.13	Swan neck ROBO WH 650, sensor, straight Swan neck ROBO WH 650, 22° Swan neck ROBO WH 650, sensor, 22° Swan neck ROBO WH 650, 45° Swan neck ROBO WH 650, sensor, 45°		962.0566 962.0422 962.0567 962.0423
1.13	Swan neck ROBO WH 650, 22° Swan neck ROBO WH 650, sensor, 22° Swan neck ROBO WH 650, 45° Swan neck ROBO WH 650, sensor, 45°		962.0422 962.0567 962.0423
1.13	Swan neck ROBO WH 650, sensor, 22° Swan neck ROBO WH 650, 45° Swan neck ROBO WH 650, sensor, 45°		962.0567 962.0423
	Swan neck ROBO WH 650, 45° Swan neck ROBO WH 650, sensor, 45°		962.0423
	Swan neck ROBO WH 650, sensor, 45°		
1.14			
1.14	Nozzle clamping ring		962.0568
	E E E		944.0020
1.2	Nozzle insulator high heat resistant	10 pcs.	146.0056
1.41	Contact tip M10 CuCrZr, Ø 1.0, 35 mm	10 pcs.	140.0348
	Contact tip M10 CuCrZr, Ø 1.2, 35 mm	10 pcs.	140.0481
	Contact tip M10 CuCrZr, Ø 1.4, 35 mm	10 pcs.	140.0547
	Contact tip M10 CuCrZr, Ø 1.6, 35 mm	10 pcs.	140.0616
1.5	Gas nozzle NW 16, conical, 71 mm	10 pcs.	145.0444
	Gas nozzle NW 16, conical, 71 mm	10 pcs.	145.0445
	Gas nozzle NW 16, conical, 71 mm	10 pcs.	145.0446
1.6	O-ring 3.5 x 1.2 mm	20 pcs.	165.0062
1.7	O-ring 15.0 x 1.5 mm	20 pcs.	165.0015
1.91	Neck liner for wire ^{¹)} Ø 1.0 - 1.2 mm		962.0435
	Neck liner for wire ¹⁾ Ø 1.4 - 1.6 mm		962.0425
	Neck liner for wire ²⁾ Ø 1.0 mm		962.0439
	Neck liner for wire ²⁾ Ø 1.2 - 1.6 mm		962.0429
	1.41 1.5 1.6 1.7	1.41 Contact tip M10 CuCrZr, Ø 1.0, 35 mm Contact tip M10 CuCrZr, Ø 1.2, 35 mm Contact tip M10 CuCrZr, Ø 1.4, 35 mm Contact tip M10 CuCrZr, Ø 1.4, 35 mm Contact tip M10 CuCrZr, Ø 1.6, 35 mm 1.5 Gas nozzle NW 16, conical, 71 mm Gas nozzle NW 16, conical, 71 mm Gas nozzle NW 16, conical, 71 mm 1.6 O-ring 3.5 x 1.2 mm 1.7 O-ring 15.0 x 1.5 mm 1.91 Neck liner for wire¹¹ Ø 1.0 - 1.2 mm Neck liner for wire²¹ Ø 1.4 - 1.6 mm Neck liner for wire²¹ Ø 1.0 mm	1.41 Contact tip M10 CuCrZr, Ø 1.0, 35 mm Contact tip M10 CuCrZr, Ø 1.2, 35 mm 10 pcs. Contact tip M10 CuCrZr, Ø 1.4, 35 mm 10 pcs. Contact tip M10 CuCrZr, Ø 1.6, 35 mm 10 pcs. Contact tip M10 CuCrZr, Ø 1.6, 35 mm 10 pcs. Gas nozzle NW 16, conical, 71 mm 10 pcs. Gas nozzle NW 16, conical, 71 mm 10 pcs. Gas nozzle NW 16, conical, 71 mm 10 pcs. Gas nozzle NW 16, conical, 71 mm 20 pcs. 1.6 O-ring 3.5 x 1.2 mm 20 pcs. 1.7 O-ring 15.0 x 1.5 mm 20 pcs. 1.91 Neck liner for wire¹¹ Ø 1.0 - 1.2 mm Neck liner for wire²¹ Ø 1.4 - 1.6 mm Neck liner for wire²² Ø 1.0 mm



Cable assembly
ROBO WH and
ROBO WHPP

1 03.	Description	Specifications	Oraci-no.	
2.1	Housing ROBO-WH body cpl.		960.0003	
2.11	Housing ROBO-WHPP body cpl.		961.0003	
2.3	Cable support connector		960.0022	
2.4	Panel mounted socket, 3-pole		175.0051	
w/o. fig	v/o. fig. Component-WH, consisting of: manuel neck change tool,			
	screw M3x10 (6 pcs.), grease, silicon free (10g)			
	Component-WHPP, consisting of: manuel neck change tool,		961.0226	
	screw M3x10 (6 pcs.), grease, silicon free (10g), fuse incl. ho	using		
3.1	Wire inch push button switch		185.0024	
3.2	Сар		185.0035	
8	Cable assembly cpl. WH, 1.00 m	liquid cooled	964.2119	
	Cable assembly cpl. WH, 1.20 m	liquid cooled	964.2120	
	Cable assembly cpl. WH, 1.50 m	liquid cooled	964.2121	
	Cable assembly cpl. WH, 2.00 m	liquid cooled	964.2122	
	Cable assembly cpl. WH, 2.50 m	liquid cooled	964.2123	
	Cable assembly cpl. WH, 3.00 m	liquid cooled	964.2124	
8.1	Cable assembly cpl. WHPP, 2.00 m	liquid cooled	964.3122	
	Cable assembly cpl. WHPP, 3.00 m	liquid cooled	964.3124	
	Cable assembly cpl. WHPP, 4.00 m	liquid cooled	964.3125	

Build group	Pos.	Description	Specifications	Order-no.
Cable assembly	9.3	Drive Roll for Ø 1.0 mm alu. wire		961.0018
ROBO WH and		Drive Roll for Ø 1.2 mm alu. wire		961.0019
ROBO WHPP		Drive Roll for Ø 1.4 mm alu. wire		961.0058
		Drive Roll for \varnothing 1.6 mm alu. wire		961.0020
		Universal Drive Roll for Ø 1.0 mm		961.0227
		Universal Drive Roll for Ø 1.2 mm		961.0228
		Universal Drive Roll for Ø 1.4 mm		961.0279
		Universal Drive Roll for Ø 1.6 mm		961.0267
	9.4	Inlet guide insulated		961.0238
	9.6	Pressure roll cpl.		961.0010
	9.7	Outlet guide insulated		960.0151
Guide spiral liner /	9	Guide spiral liner blank 2.5/4.5 with collet	for 3.00 m	122.0056
core liner		Guide spiral liner blank 2.5/4.5 with collet	for 5.00 m	122.0063
		Guide spiral liner blank 2.0/4.5 with collet	for 3.00 m	122.0031
		Guide spiral liner blank 2.0/4.5 with collet	for 5.00 m	122.0039
		Teflon core liner 2.7/4.7 yellow with collet and o-ring	for 3.00 m	126.0039
		Teflon core liner 2.7/4.7 yellow with collet and o-ring	for 5.00 m	126.0045
		Teflon core liner 2.0/4.0 red with collet and o-ring	for 3.00 m	126.0021
		Teflon core liner 2.0/4.0 red with collet and o-ring	for 5.00 m	126.0028
		Carbon Teflon core liner 1.5/4.0 with collet and o-ring	for 3.00 m	127.0002
		Carbon Teflon core liner 1.5/4.0 with collet and o-ring	for 5.00 m	127.0004
		Carbon Teflon core liner 2.0/4.0 with collet and o-ring	for 3.00 m	127.0005
		Carbon Teflon core liner 2.0/4.0 with collet and o-ring	for 5.00 m	127.0008
		Polyamid core liner 2.0/4.0 with collet and o-ring	for 3.00 m	128.0012
		Polyamid core liner 2.0/4.0 with collet and o-ring	for 5.00 m	128.0016
		Polyamid core liner 2.3/4.7 with collet and o-ring	for 3.00 m	128.0020
		Polyamid core liner 2.3/4.7 with collet and o-ring	for 5.00 m	128.0030
	9.1	Collet for core liner, Ø 4.0 mm	20 pcs.	131.0001
		Collet for core liner, Ø 4.7 mm	20 pcs.	131.0002
	9.2	Nut M10x1	10 pcs.	501.0082
	w/o. fi	g. O-ring Ø 3.5 x 1.5 mm	20 pcs.	165.0008
	w/o. fi	g. Guide tube for liner ≤ Ø 4.0 mm	up to 200 mm	129.xxxx
Accessories	9.8	Cable hanger		191.0039
	w/o. fi	g. Alignment jig WH 650		837.0099
		Programming tip M10; TCP 15 mm		837.0117
		Spanner	10 pcs.	191.0001
		Sharpener for plastic liner	·	191.0064
		Hose cutter		191.0062
		Blades for hose cutter	10 pcs.	191.0063

Order information

We recommend that with the inital order for each cable assembly, two torch necks are purchased. Only with a spare neck can downtime associated with consummable servicing be kept to a minimum. It is also advisable to check each neck in the appropriate alignment jig before use.

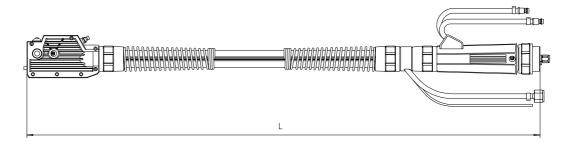
Control cable is supplied without connector, wire inching is realized by the 10-pol control cable.

When ordering ROBO WH 650 or ROBO WHPP 650, please specify:

- · wire material
- · wire diameter
- · length of cable assembly

Additional declaration for ROBO WHPP 650:

- · details of wire feeder
- manufacturer
- · date of construction
- type
- · special features



Overall length L=3.15 m, with 3.0 m ROBO WH cable assembly Overall length L=3.20 m, with 3.0 m ROBO WHPP cable assembly

Attaching the cable assembly to the robot

To ensure that the cable assembly is securely attached to the robot, please use the BINZEL ATS-CAT torch mount with suitable extensions and brackets to meet your TCP requirements.

Welding & cutting brought to the point.

Alexander Binzel Schweisstechnik GmbH & Co. KG

Postfach 10 01 53 · D-35331 Gießen Tel.: ++49 (0) 64 08 / 59-0 Fax: ++49 (0) 64 08 / 59-141 Internet: www.binzel-abicor.com