

# Robot Peripherals

## Torch Cleaning Station "BRS"



### Connect & Clean ...

ABICOR BINZEL torch cleaning stations – the complete solution for reliable automatic servicing of torch heads. Quick and easy to install, just "Connect & Clean ...", the compact torch cleaning stations BRS stand for top reliability. Combined in a single station, no less than three systems guarantee optimally timed processes and an increase in plant availability. Many further features such as mounting stand and drip pan reduce installation costs.

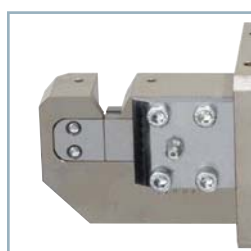
### Arguments that speak for themselves:

- Precise and effective cleaning for almost all robot welding torches
- Tried-and-trusted cutter principle, suitable even for heavy spatter adhesion
- Precise clamping of the gas nozzle fixes the torch in place during the cleaning process

### Application area:

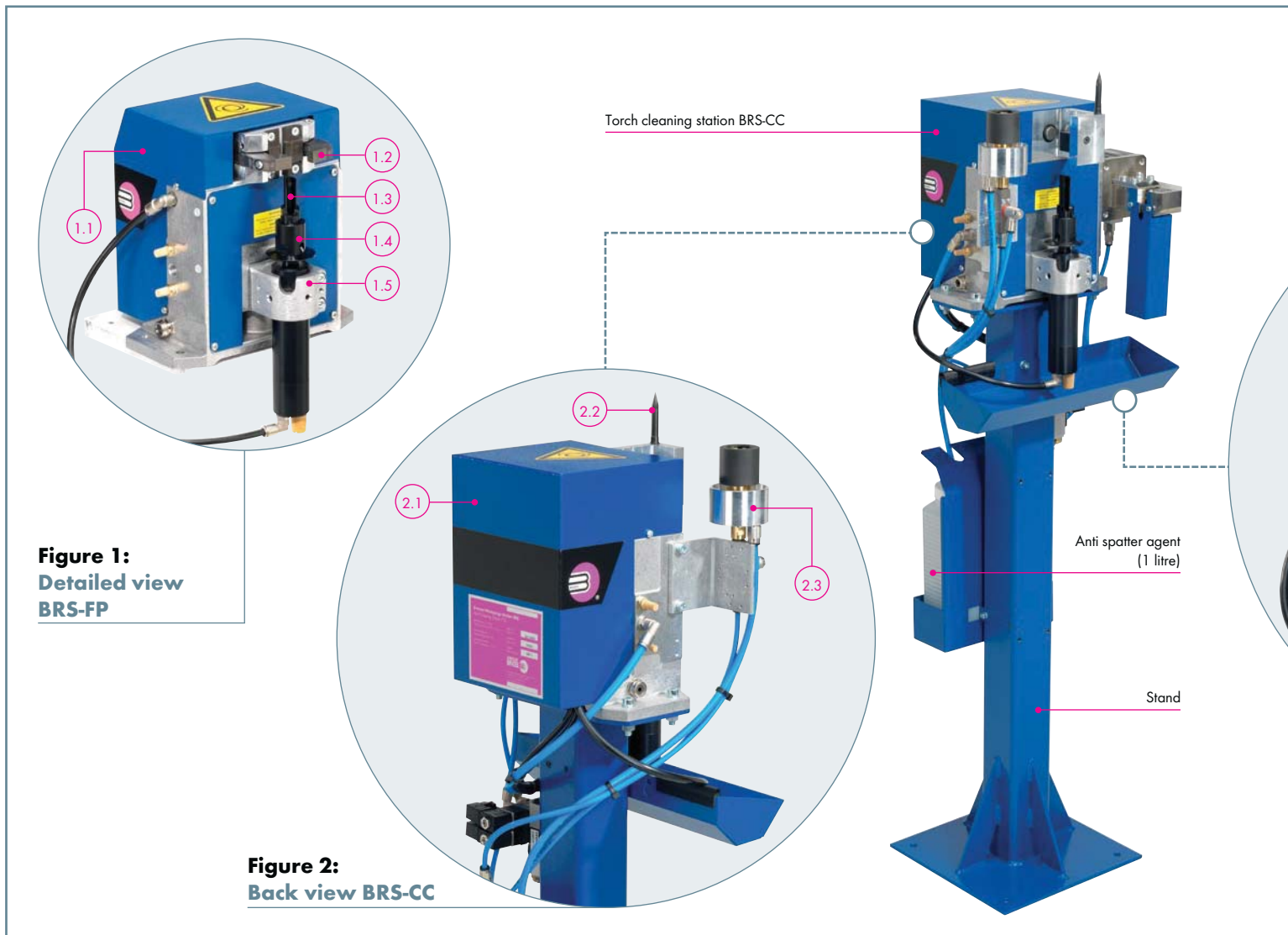


MIG/MAG welding torches for all common torch brands



# Torch Cleaning Station "BRS"

## System Overview & Technical Data



**Figure 1:**  
Detailed view  
BRS-FP

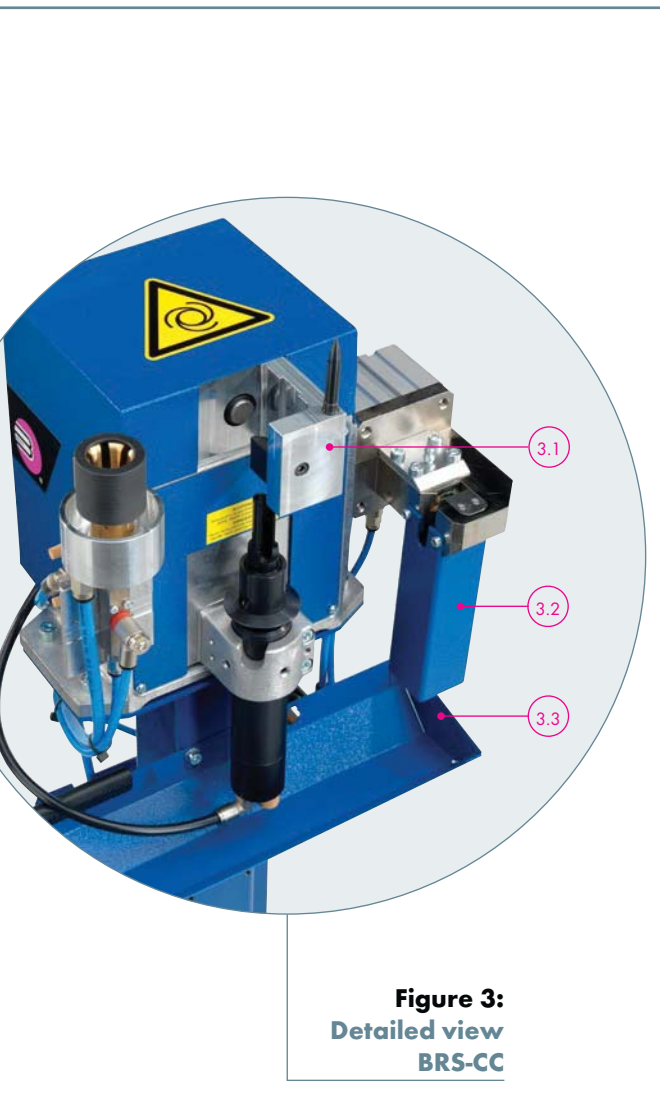
**Figure 2:**  
Back view BRS-CC

**Figure 1:**  
Detailed view BRS-FP

- 1.1 PCB (inside)  
for programmed work processes
- 1.2 Clamping brackets
- 1.3 Reamers for different torch makes
- 1.4 Reamer fitting, interchangeable
- 1.5 Guide block, stroke 50 mm

**Figure 2:**  
Back view BRS-CC

- 2.1 Cover
- 2.2 Test/TCP tip
- 2.3 Injector for the direct economical spraying of  
anti-spatter agent reduces spatter adhesion  
and extends servicing intervals



**Figure 3:**  
Detailed view  
BRS-CC

**Figure 3:**  
Detailed view BRS-CC

- 3.1 Prism for different torch/gas nozzle types
- 3.2 Wire cutting fixture "DAV" for a constant free wire end and better arc-start/touch sensing performance properties
- 3.3 Drip and wire cutting collection pan



#### Technical data:

##### General data

Total weight:	approx. 16 kg (incl. TMS-VI and DAV)
Ambient temperature:	+ 5°C to + 50°C
Air consumption:	approx. 380 l/min.
Pneumatic motor (Nominal speed):	– with lubricated air: approx. 650 rpm – with non-lubricated air: approx. 550 rpm

##### Pneumatic connection – manifold block

Compressed air supply:	G 1/4
Clear width:	min. Ø 6 mm
Nominal pressure:	6 bar
Operating pressure:	6–8 bar

##### Electrics – terminal block

Control:	4 inputs for triggering the 5/2 directional control valves
Control voltage:	24 V DC
Power consumption:	4.5 W
Output:	1 output from inductive proximity switch (pnp)
Operating voltage:	10 – 30 V DC
Tolerated residual ripple:	V <sub>ss</sub> < 10%
Continuous current:	max. 200 mA
Current consumption:	approx. 4 mA (24 V)
Drop in voltage:	approx. 1.2 V (200 mA)

##### Front injector "TMS-Vi"

Capacity of the bottle:	1 litre
-------------------------	---------

##### Wire cutting fixture "DAV"

Cutting rate at 6 bar:	– Solid wire: up to 1.6 mm – Flux cored wire: up to 3.2 mm
Cutting time:	0.5 sec.

# Torch Cleaning Station "BRS"

## Order Summary

Torch cleaning station "BRS"



No.	Type	Description	Part-No.
1	BRS-CC cpl.	with DAV / with stand	831.0490.1
	BRS-CC	without DAV / with stand	831.0550
	BRS-CC	standard (without accessories)	831.0570
2	BRS-LC	standard (without accessories)	831.0300
3	BRS-FP	standard (without accessories)	831.0260.1

# Torch Cleaning Station "BRS"

## Cutters & Clamping Prisms

### Torch series ABIROB® 350 GC

Torch type	with gas nozzle	Outer-Ø (mm)	NW (mm)	Length (mm)	with contact tip		Clamping prism Part-No.	Cutter Part-No.
	Type				Type	Size		
ABIROB® 350GC	145.0557	20.0	15.5	89.5	M6	Ø 8	831.0313	831.0491.1
	145.0558	20.0	12.0	89.5	M6	Ø 8	831.0313	831.0555.1
	145.0573	20.0	13.0	89.5	M6	Ø 8	831.0313	831.0420.1

### Torch series ABIROB® A

ABIROB® A300	145.0671.5	22.0	14.4	36.0	M6	Ø 8	831.0371	831.0709.1	
ABIROB® A360	145.0599	22.0	12.0	68.0	M6	Ø 8	831.0371	831.0604.1	
	145.0600	22.0	12.0	70.0	M6	Ø 8	831.0371	831.0604.1	
	145.0601	22.0	12.0	65.0	M6	Ø 8	831.0371	831.0604.1	
	145.0595	22.0	14.0	68.0	M6	Ø 8	831.0371	831.0592.1	
	145.0596	22.0	14.0	70.0	M6	Ø 8	831.0371	831.0618.1	
	145.0597	22.0	14.0	65.0	M6	Ø 8	831.0371	831.0593.1	
	145.0618	22.0	14.0	68.0	M6	Ø 8	831.0371	831.0592.1	
	145.0619	22.0	14.0	65.0	M6	Ø 8	831.0371	831.0593.1	
	145.0592	22.0	16.0	68.0	M6	Ø 8	831.0371	831.0487.1	
	145.0593	22.0	16.0	70.0	M6	Ø 8	831.0371	831.0487.1	
	145.0594	22.0	16.0	65.0	M6	Ø 8	831.0371	831.0589.1	
	ABIROB® A500	145.0589	28.0	13.0	75.0	M6	Ø 8	831.0318	831.0180.1
		145.0590	28.0	13.0	77.0	M6	Ø 8	831.0318	831.0180.1
		145.0591	28.0	13.0	72.0	M6	Ø 8	831.0318	831.0169.1
145.0586		28.0	14.0	75.0	M6	Ø 8	831.0318	831.0592.1	
145.0587		28.0	14.0	77.0	M6	Ø 8	831.0318	831.0618.1	
145.0588		28.0	14.0	72.0	M6	Ø 8	831.0318	831.0593.1	
145.0580		28.0	16.0	75.0	M8	Ø 10	831.0318	831.0488.1	
145.0581		28.0	16.0	77.0	M8	Ø 10	831.0318	831.0488.1	
145.0582		28.0	16.0	72.0	M8	Ø 10	831.0318	831.0591.1	
145.0583		28.0	16.0	75.0	M8	Ø 10	831.0318	831.0488.1	
145.0584	28.0	16.0	77.0	M8	Ø 10	831.0318	831.0488.1		
145.0585	28.0	16.0	72.0	M6	Ø 8	831.0318	831.0591.1		

### Torch series ABIROB® W

ABIROB® W300	145.0495	25.0	13.0	44.5	M6	Ø 8	831.0316	831.0169.1
	145.0564	25.0	13.0	48.5	M6	Ø 8	831.0316	831.0180.1
	145.0494	25.0	15.5	44.5	M6	Ø 8	831.0316	831.0576.1
ABIROB® W500	145.0479	25.0	13.0	75.5	M8	Ø 10	831.0316	831.0368.1
	145.0556	25.0	13.0	77.5	M8	Ø 10	831.0316	831.0368.1
	145.0466	25.0	15.5	72.0	M8	Ø 10	831.0316	831.0216.1
	145.0568	25.0	15.5	72.5	M8	Ø 10	831.0316	831.0216.1
	145.0553	25.0	15.5	75.5	M8	Ø 10	831.0316	831.0023.1
	145.0544	25.0	15.5	75.5	M8	Ø 10	831.0316	831.0023.1
	145.0480	25.0	15.5	77.0	M8	Ø 10	831.0316	831.0023.1
	145.0480	25.0	15.5	77.0	M8	Ø 10	831.0316	831.0023.1
ABIROB® W600	145.0689.5	30.0	18.0	92.0	M12	Ø 12	831.0319	831.0162.1
	145.0686.5	30.0	21.5	92.0	M12	Ø 12	831.0319	831.0746.1
	145.0687.5	30.0	21.5	86.0	M12	Ø 12	831.0319	831.0763.1
	145.0688.5	30.0	21.5	95.0	M12	Ø 12	831.0319	831.0764.1

# Torch Cleaning Station "BRS"

## Cutters & Clamping Prisms

### Torch series ROBO Standard

Torch type	with gas nozzle		Outer-Ø (mm)	NW (mm)	Length (mm)	with contact tip		Clamping prism Part-No.	Cutter Part-No.
	Type					Type	Size		
ROBO 455D	145.0134		25.0	13.0	67.5	M8	Ø 10	831.0316	831.0413.1
	145.0106		25.0	15.5	64.5	M8	Ø 10	831.0316	831.0216.1
	145.0089		25.0	15.5	67.5	M8	Ø 10	831.0316	831.0023.1
	145.0164		25.0	15.5	67.5	M8	Ø 10	831.0316	831.0023.1
ROBO 650TS	145.0574		30.0	18.0	84.0	M10	Ø 12	831.0319	831.0587.1
	145.0575		30.0	21.5	84.0	M10	Ø 12	831.0319	831.0547.1
	145.0578		30.0	18.0	78.0	M10	Ø 12	831.0319	on request

### Torch series ROBO WH

ROBO WH 242D	145.0135		21.0	13.0	62.0	M6	Ø 8	831.0314	831.0564.1
	145.0090		21.0	15.5	62.0	M6	Ø 8	831.0314	831.0563.1
ROBO WH W500	145.0479		25.0	13.0	75.5	M8	Ø 10	831.0316	831.0368.1
	145.0556		25.0	13.0	77.5	M8	Ø 10	831.0316	831.0368.1
	145.0466		25.0	15.5	72.0	M8	Ø 10	831.0316	831.0216.1
	145.0568		25.0	15.5	72.5	M8	Ø 10	831.0316	831.0216.1
	145.0553		25.0	15.5	75.5	M8	Ø 10	831.0316	831.0023.1
	145.0544		25.0	15.5	75.5	M8	Ø 10	831.0316	831.0023.1
	145.0480		25.0	15.5	77.0	M8	Ø 10	831.0316	831.0023.1
ROBO WH W600	145.0689.5		30,0	18.0	92.0	M12	Ø 12	831.0319	831.0162.1
	145.0686.5		30,0	21.5	92.0	M12	Ø 12	831.0319	831.0746.1
	145.0687.5		30,0	21.5	86.0	M12	Ø 12	831.0319	831.0763.1
	145.0688.5		30,0	21.5	95.0	M12	Ø 12	831.0319	831.0764.1

The standard clamping prisms and cutters listed here cannot be used in conjunction with the torch cleaning station BRS-FP. Please submit a separate request for these.