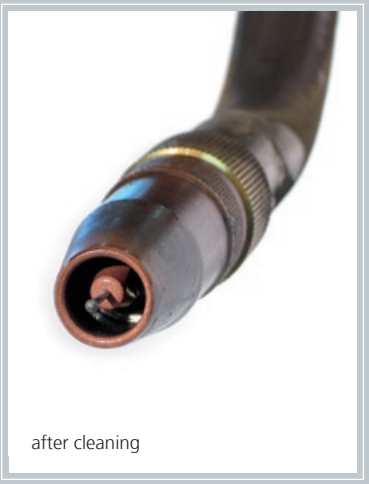
TBi Industries

TBi JetStream
Automatic Torch Cleaning Station

- Increased productivity of the robot cell
- Better quality through optimal shield gas coverage
- Perfect cleaning results with tandem torches

before cleaning



after cleaning

Cleans gas nozzle, contact tip, tip holder and gas diffuser in one step, no scheduled manual cleaning needed.

Ordering information

TBi JetStream, 230 V AC*	531P101210
TBi JetStream, 230 V AC* with filling-level sensor	531P101209
Abrasive (25 kg)	392P000002
TBi FineSpray Spraying unit* incl. mounting kit for TBi JetStream	531P101215
TBi TipClean anti-spatter fluid (5 l)	392P000007

* Please order rubber seals separately, see reverse sides of the brochures TBi JetStream and TBi FineSpray.

CE

System overview

A	Opening with ring gasket for the torch head (gas nozzle is not clamped)
B	Enclosed cleaning chamber with rotating jet nozzle
C	Collection chamber for removed particles
D	Integrated device controller
E	Reservoir for abrasive agent (removable)
F	Reservoir for consumed abrasive agent and spatter (removable)

Technical data

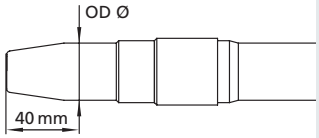
TBi JetStream - automatic torch cleaning station

Supply voltage	230 V AC/I_{max} 6 A
Compressed air supply	6 - 10 bar
Safety class	I according to EN 61140
Dimensions (l x w x h) (without spraying unit)	460 x 400 x 1210 mm
Weight (without spraying unit)	approx. 65 kg
Technical specification	conform with CE regulations
Option	filling-level sensor for abrasive agent

Ordering information - rubber seals (for TBi JetStream only)

OD Ø of the gas nozzle	Suitable for TBi welding torches	Part. No.
20 mm	TBi RM 42G/W	531P102385
24 mm	TBi RM 60G/W, RM 62G/W, RM 80W	531P102209
26 mm	TBi RM 50G/W, RM 52G/W	531P102383
27 mm	TBi RM 70G, RM 90W	531P102384
oval 24 x 40 mm	TBi TD 20 / TD 22	531P102236

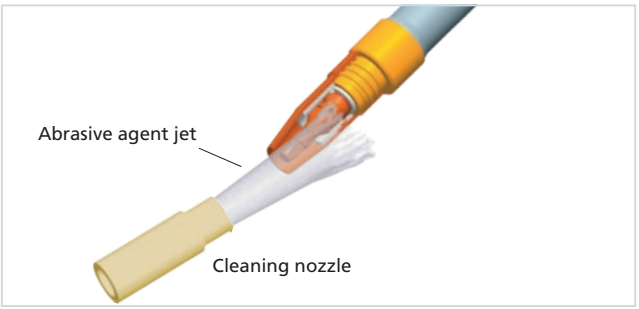
How to measure the OD Ø



The OD Ø must be measured 40 mm from the front of the nozzle.

For other gas nozzle dimensions, please contact our sales team.

Functional principle



Torch cleaning with a particle jet

The particle jet is able to clean the complete torch head (gas nozzle, contact tip, tip holder and insulator) gently and without burrs, the effect of anti spatter liquid is greatly enhanced. The cleaning intervals can be increased while at the same time producing better quality due to the always reliable gas shielding. Short term amortization of the system will be achieved due to the increased productivity of the robot cell.

TBi Spraying unit (accessory)

- Applies anti spatter liquid evenly and sparingly.
- Closed system prevents contamination of the robot cell.

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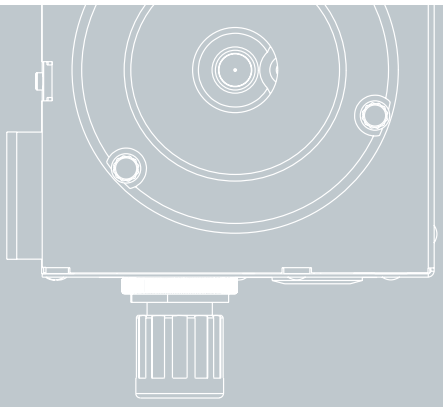
TBi Industries

TBi FineSpray
Spraying Unit



- Minimized usage of anti-spatter fluid
- Optimum protection of the robot torch
- Increased work safety due to a clean welding cell

Advantages

- Application of anti-spatter fluid evenly all over the torch head
- Avoids the formation of drops on the torch head and thereby possible welding defects
- Considerably lower maintenance and cleaning expenses in the welding cell

Ordering information

TBi FineSpray spraying unit*	531P101256
Mounting kit for TBi JetStream	513P101310
TBi TipClean anti-spatter fluid (5l)	392P000007

* Please order rubber seals separately, see reverse side.

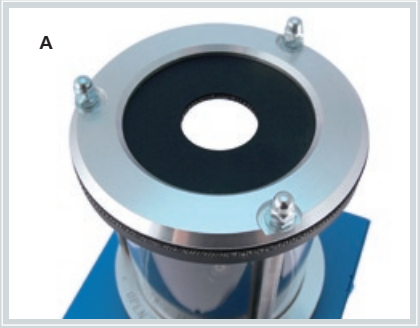
Technical data

TBi FineSpray spraying unit for robot torches

Function	Minimal quantity spray application inside a closed chamber. No pollution of the environment.
Compatible torches	MIG/MAG robot welding torches, tandem welding torches
Permitted anti-spatter fluid	TBi TipClean, other products on request
Consumption	One fill of the fluid container (500 ml) for up to 2.500 spray applications
Control	Connection to a potential-free contact or digital output. The spraying duration is programmed via the robot control system.
Compressed air connection	5 - 10 bar, dry and oil-free
Operating voltage	24 V / DC
Dimensions (LxWxH)	125 x 120 x 400 mm

CE

Overview

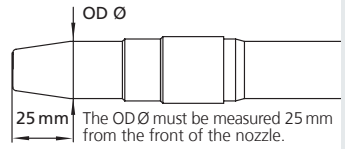


A Rubber cover with opening for torch head
B Closed spraying chamber
C Spraying nozzle
D Container for anti-spatter fluid (500 ml)
E Collection container for excess anti-spatter fluid
F Manual activation of the spraying operation
G Pressure regulator
H Manometer (indicates the spraying pressure)

Ordering information - rubber seals (for TBi FineSpray only)

OD Ø of the gas nozzle	Suitable for TBi welding torches	Part. No.
≤ 21 mm	TBi RM 42G/W	531P102387
21 - 25 mm	TBi RM 60G/W, RM 62G/W, RM 80W	531P102308
25 - 28 mm	TBi RM 50G/W, RM 52G/W, RM 70G, RM 90W	531P102386
oval 24 x 40 mm	TBi TD 20 / TD 22	531P102382

How to measure the OD Ø



For other gas nozzle dimensions, please contact our sales team.

Mode of operation

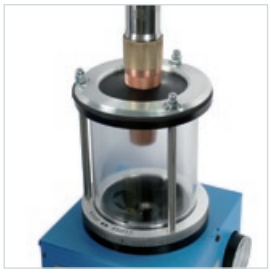
After cleaning, the torch head is inserted into the TBi FineSpray unit and sprayed with an exact quantity of anti-spatter fluid in order to reduce the re-adherence of spatter. The transparent spraying chamber can easily be taken off for cleaning.

The precise spraying process developed by TBi reduces considerably the consumption of anti-spatter fluid. One fill of the fluid container (500 ml) is enough for up to 2.500 spray applications. The spraying is initiated via the robot control system. This way, the spraying duration and therefore the quantity of anti-spatter fluid can be controlled accurately.

The TBi FineSpray prevents contamination of the robot cell as the dispersed fluid remains inside the closed spraying chamber. Besides the direct cost savings for anti-spatter fluid, we also contribute actively to the protection of the environment.

An optimal supplement to the TBi JetStream

The anti-spatter fluid can only guarantee an effective protection after an optimal cleaning of the torch. For that reason, we recommend to use the TBi FineSpray as supplement to the automatic torch cleaning unit TBi JetStream. But also for existing systems with conventional reamer cleaning, you can benefit by retrofitting the TBi FineSpray unit into the welding cell.



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