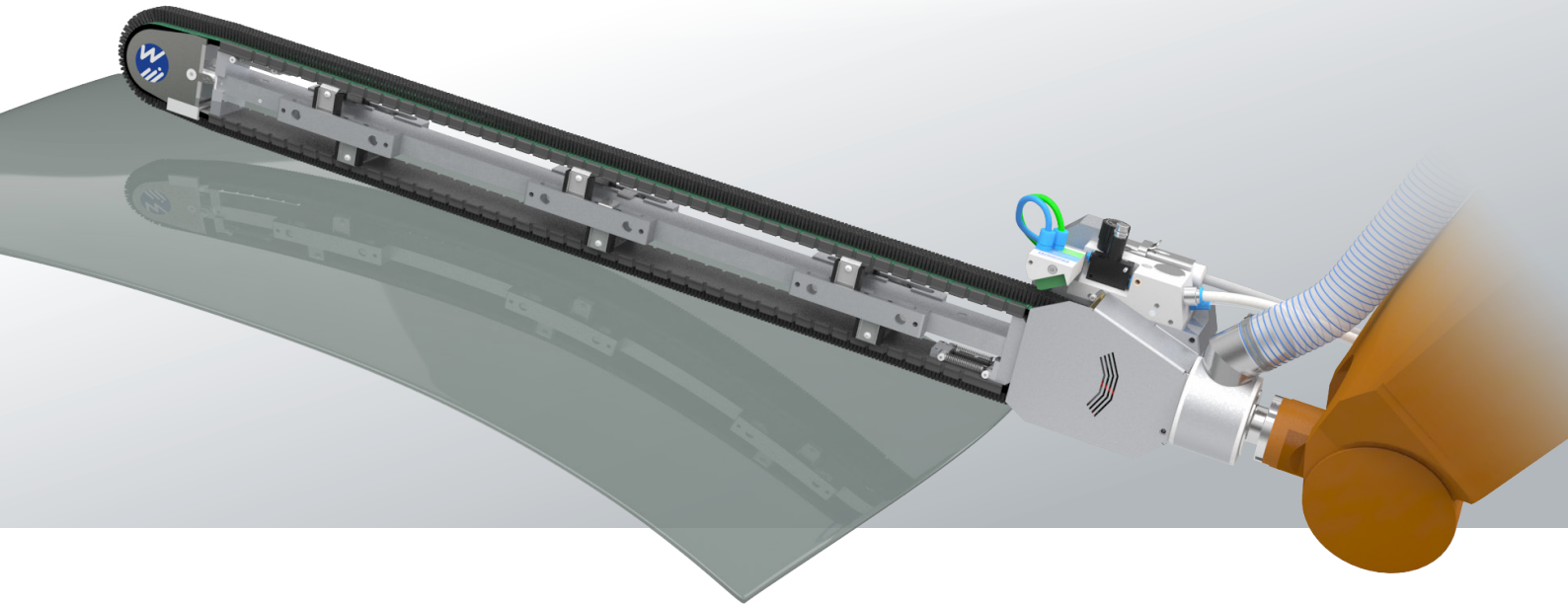




Robot Sword Brush Taurus TR 46..



Brief description

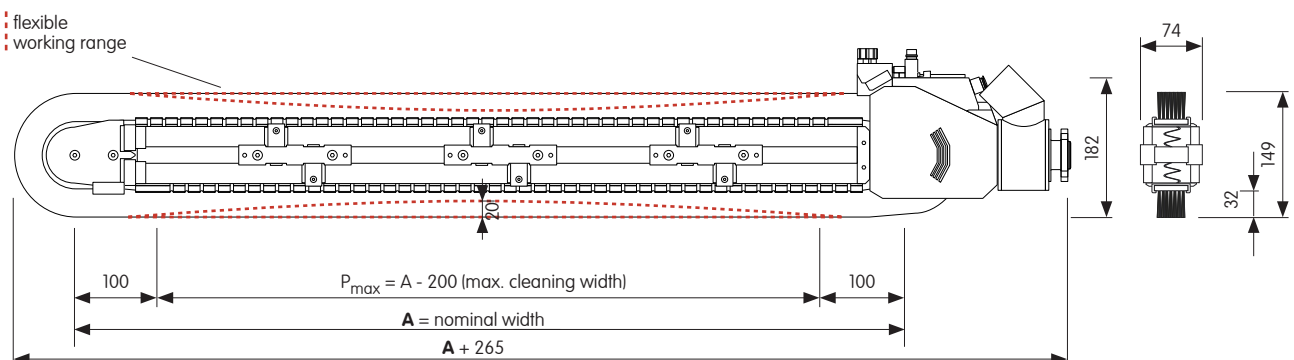
The Robot Sword Brush Taurus TR 46.. is ideal to clean convex surfaces such as complex moulded parts made of polycarbonate. As the surface remains dry, it may be lacquered, laminated or coated immediately after the cleaning process.

The circulating linear brush is spring-mounted on both sides thus providing for two flexible product contact areas. If nominal width is 650 mm, the machine has an overall weight of just under 10 kg only.

The tips of the brush filaments are micro-moistened with Ingromat®, an antistatic cleaning liquid that provides for an effective removal of even very fine dust particles.

Technical details

- 1 x Robot Sword Brush TR 46/11/A with spring-mounted linear brush guide
- Ingromat® cleaning system including an Ingromat® regulator and filter unit IRT 46.. (standard)
- Control and pneumatic cabinet (option)
- 1 x brushless direct current motor
- 1 x robot flange according to customer's specifications



Values in mm

Ordering example

Order no. 1451-007 describes Robot Sword Brush Taurus TR 46/11/1000 with 32 mm filaments and a flexible working range of $P_{max} = A - 200 \text{ mm} = 800 \text{ mm}$.

Order no.

TR 46..

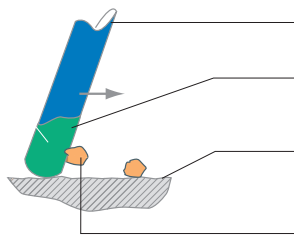


BL = 32 mm Ø = 0.2 mm 1451 -	BL = 19 mm Ø = 0.127 mm 1450 -	Nominal width A in mm	Nominal width A in inches
- 004	- 004	520	20.47
- 005	- 005	650	25.59
- 007	- 007	1000	39.37
- 009	- 009	1300	51.18

Further nominal widths available upon request.

BL = filament length
Ø G = diameter of brush filaments

**Functioning
Ingromat system**



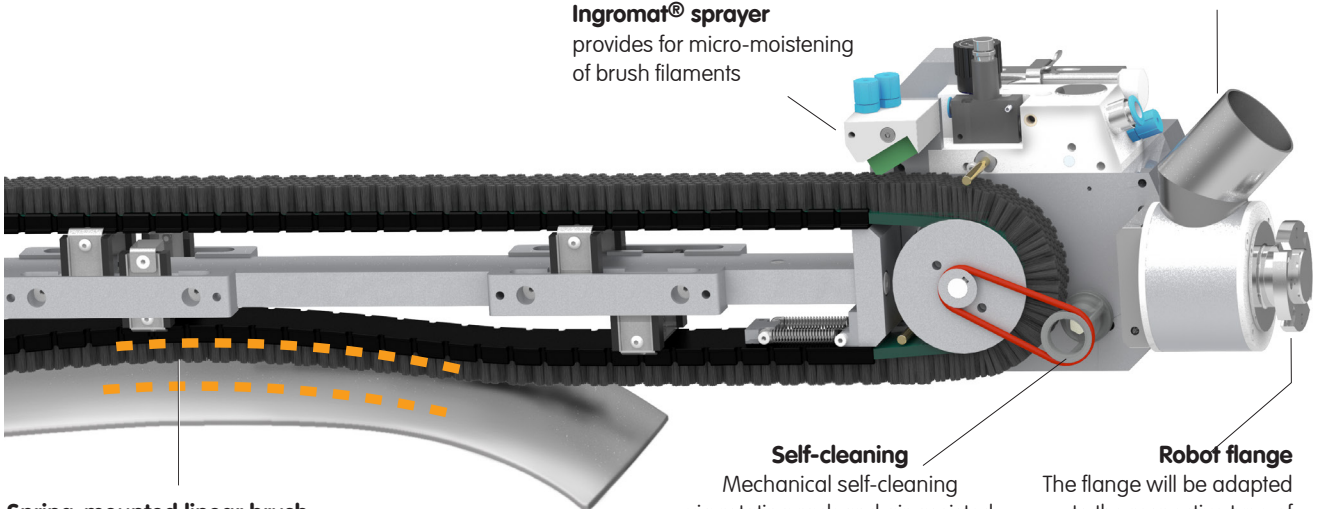
Individual brush filament
Ingromat®-microfilm (shown in green for clarity)
The surface remains dry and is effectively cleaned
Capillary adhesive forces cause very fine particles to cling to the brush filament

Rotatable suction connection

Particles are removed by the exhaust air volume flow. The rotatable mounting relieves strain on suction hose if robot arm moves.

Ingromat® sprayer

provides for micro-moistening of brush filaments



Spring-mounted linear brush

guides on each side of the Robot Sword Brush yield high-end cleaning results for convex surfaces.

Self-cleaning
Mechanical self-cleaning via rotating rack and air-assisted cleaning via compressed air nozzles

Robot flange
The flange will be adapted to the respective type of robot according to the customer's specifications



TR 46..



Technical data

Electrical details

Brush drive motor	brushless direct current motor
Voltage	48 V DC
Output	90 W
Protection	IP 55

Pneumatic details

Compressed air consumption	180 l/min, (continuous operation)
Compressed air quality	filtered (particle size < 40 µm), oil free (residual oil < 1.5 mg/m ³ at 24° C)
Compressed air connection	Ø 10 mm; 6 bar

Acoustic emission

approx. 75 dB (A)

Suction requirements

Suction connection	1 x Ø 50 mm, rotatable mounting
Suction volume flow	3 m ³ /min (recommended flow velocity 25 m/

Fluidics

Ingromat® hose connection	1 x Ø 6 mm
Ingromat® consumption	0.2 – 0.5 l/h

Linear brush

Linear brush type	Quadro R7 with sanded and rounded filament tips
Filament material	Polyamide 6.12
Filament length BL	32 mm, 19 mm
Filament diameter G	0.127 mm; 0.2 mm
Equipment	plasma degreased linear brush for delicate, subsequent processes such as converting or lacquering; brushes are packed twice

Technical information is subject to changes

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