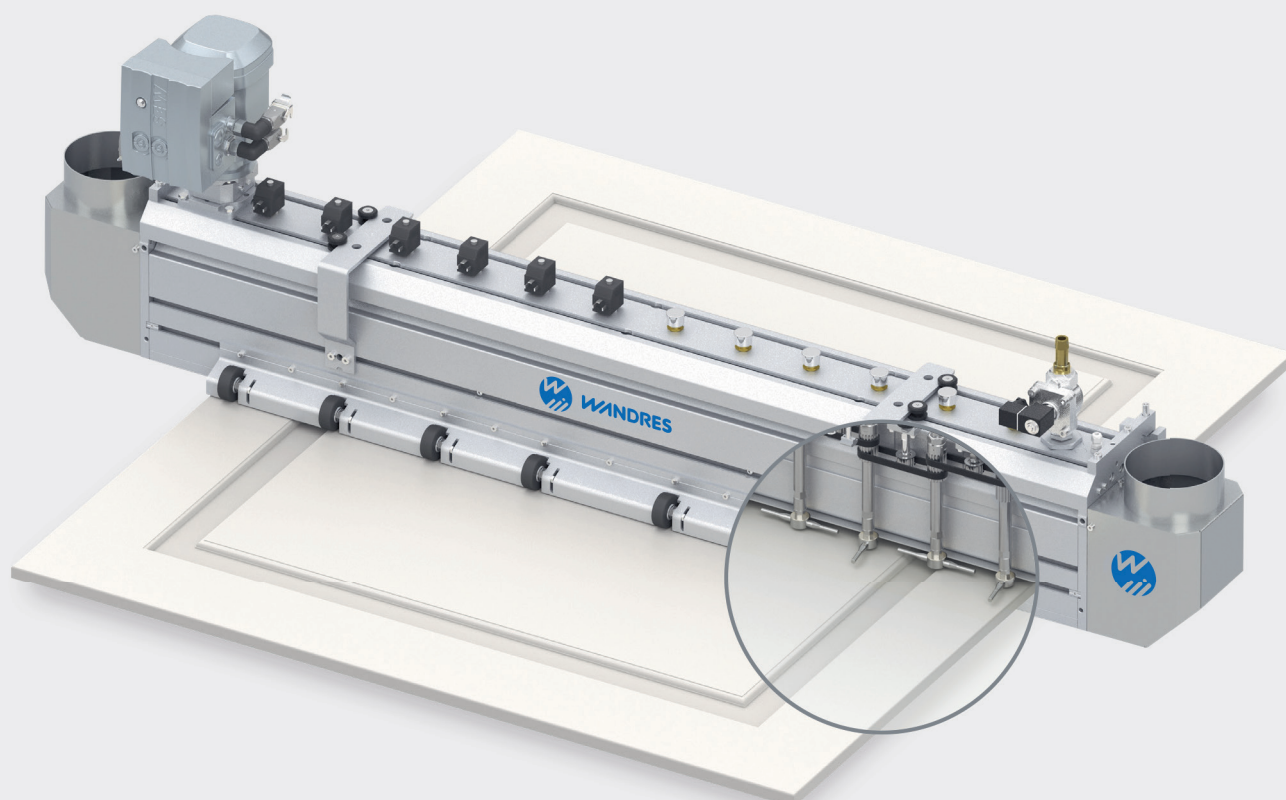


C-Line

Tornado Channel

TKRO 200, TKRO 205, TKRU 205

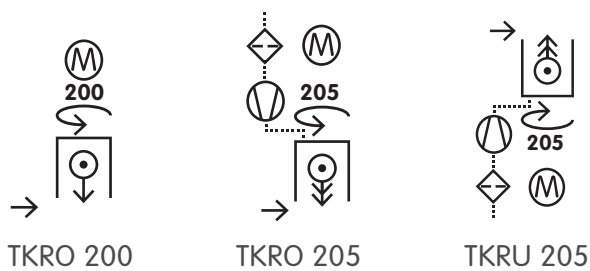


Cleaning of sanded or structured surfaces



Tornado nozzles

Technical details and dimensions



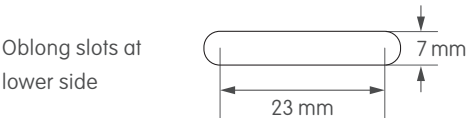
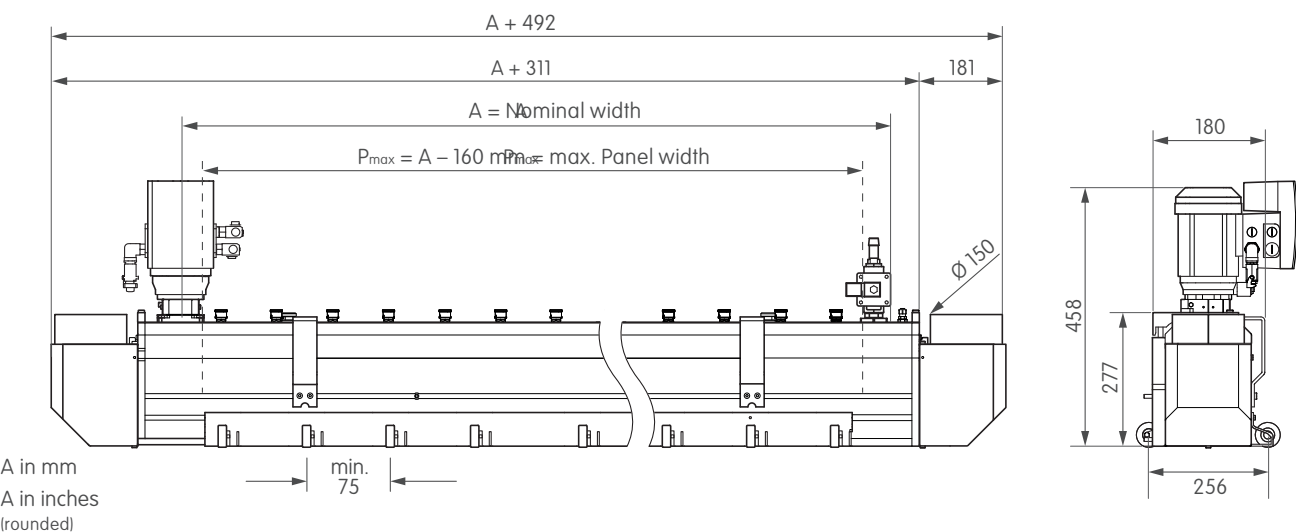
U-shaped channel with angles at the infeed and at the outfeed to guide the air

Electrically driven, rotating compressed **air nozzles** with mechanical or electrical individual valves

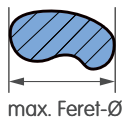
Suction connections Ø 150 mm facing upwards

1 x **incoming compressed air regulator** for compressed air supply including filter, pressure regulator and on-off valve

Option: Side channel blower
with TKRO 205 for cleaning from above
with TKRU 205 for cleaning from below

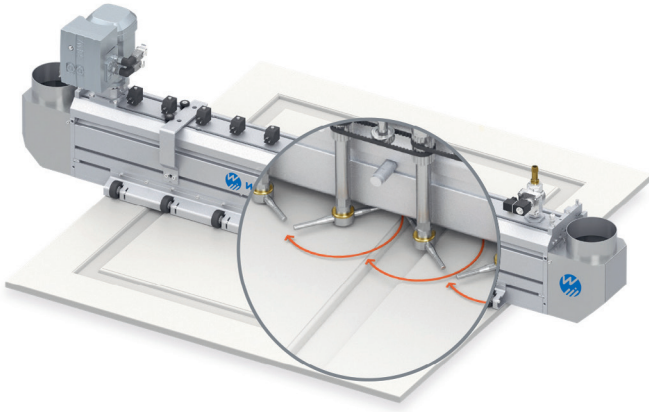


Suitable for particles with max. Feret Ø 7 mm

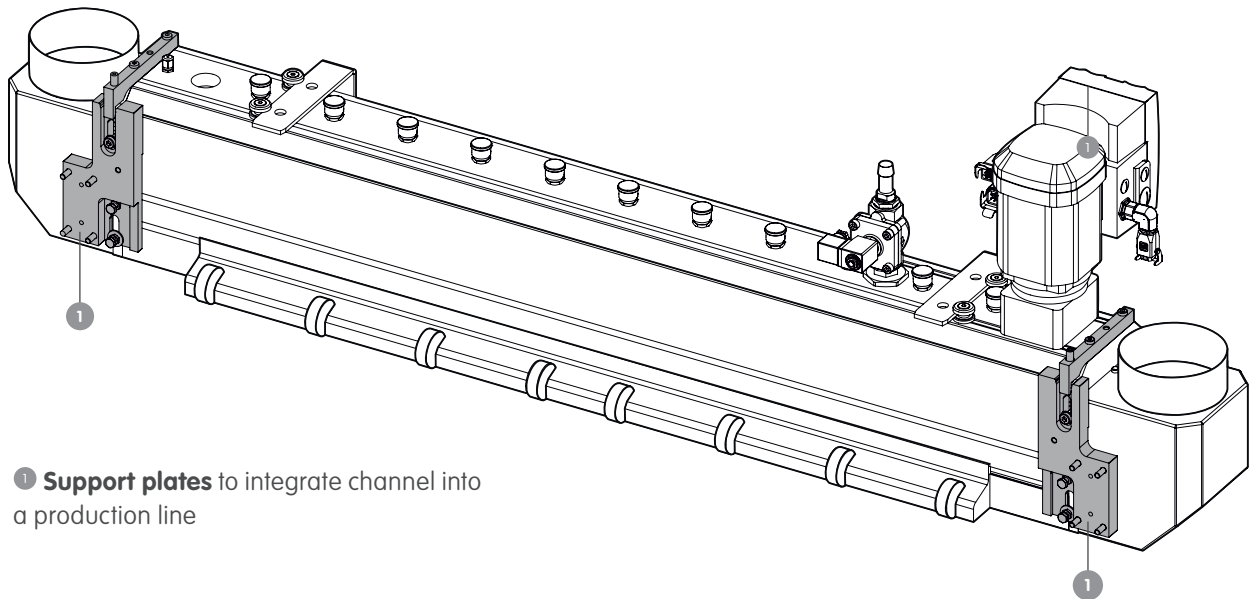


Complete cleaning

Tornado nozzles



The rotating Tornado nozzles are synchronised electrically and driven via timing belts. They rotate at a constant high speed. Compressed air exits the Tornado nozzles with at several times the speed of sound. This air jet removes particles and dust from flat and structured surfaces. The contaminating debris are propelled towards the suction systems. Cleaning areas of the nozzles overlap, so that the complete surface is cleaned in an extremely efficient manner.



① **Support plates** to integrate channel into a production line

Nominal width

A in mm	400	520	650	700	850	900	1000	1100	1200	1300	1400	1500	1650	1700
N° of Tornado Nozzles	3	4	5	5	6	7	8	9	9	10	11	12	13	14

A in mm	1750	1900	2000	2100	2200	2300	2500	2700	2750	2800	2900	3000	3200	3400
N° of Tornado Nozzles	14	15	16	17	18	19	21	22	23	23	24	25	27	28

Technical data

Drive Tornado nozzles	1 x 0.75 kW SEW MOVIMOT Motor, IP 54, UL-compatible
Compressed air connection	1 x 3/4" internal thread; 6 bar
Compressed air consumption	n x 94 l/min; n = number of Tornado Nozzles (see above)
Compressed air quality	Purity classes compressed air ISO 8573-1:2010 [6:4:3] (at 20 °C 1 bar) filtered ($C_p \leq 5 \text{ mg/m}^3$), dry (pressure dew point $\leq 3 \text{ °C}$), oil-free ($C_o \leq 1 \text{ mg/m}^3$)
Suction	A < 1200 mm: 1 x Ø 150 mm; 1 x 1.800 m³/h A ≥ 1200 mm: 2 x Ø 150 mm; 2 x 1.800 m³/h A ≥ 2300 mm: 3 x Ø 150 mm; 3 x 1.800 m³/h
Transport speed	max. 30 m/min, otherwise residual particles are possible
Minimum panel dimensions	$L_{\min} = 300 \text{ mm}$; $P_{\min} = 75 \text{ mm}$
Maximum panel width	$P_{\max} = A - 160 \text{ mm}$
Distance to surface	TCD = 4 mm

Exemplary values, the exact values can be found in the specifications.

