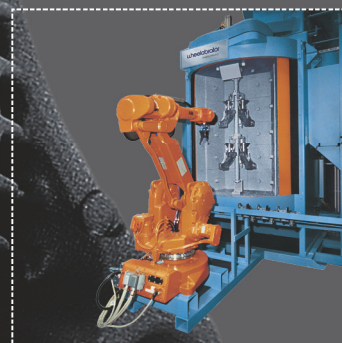
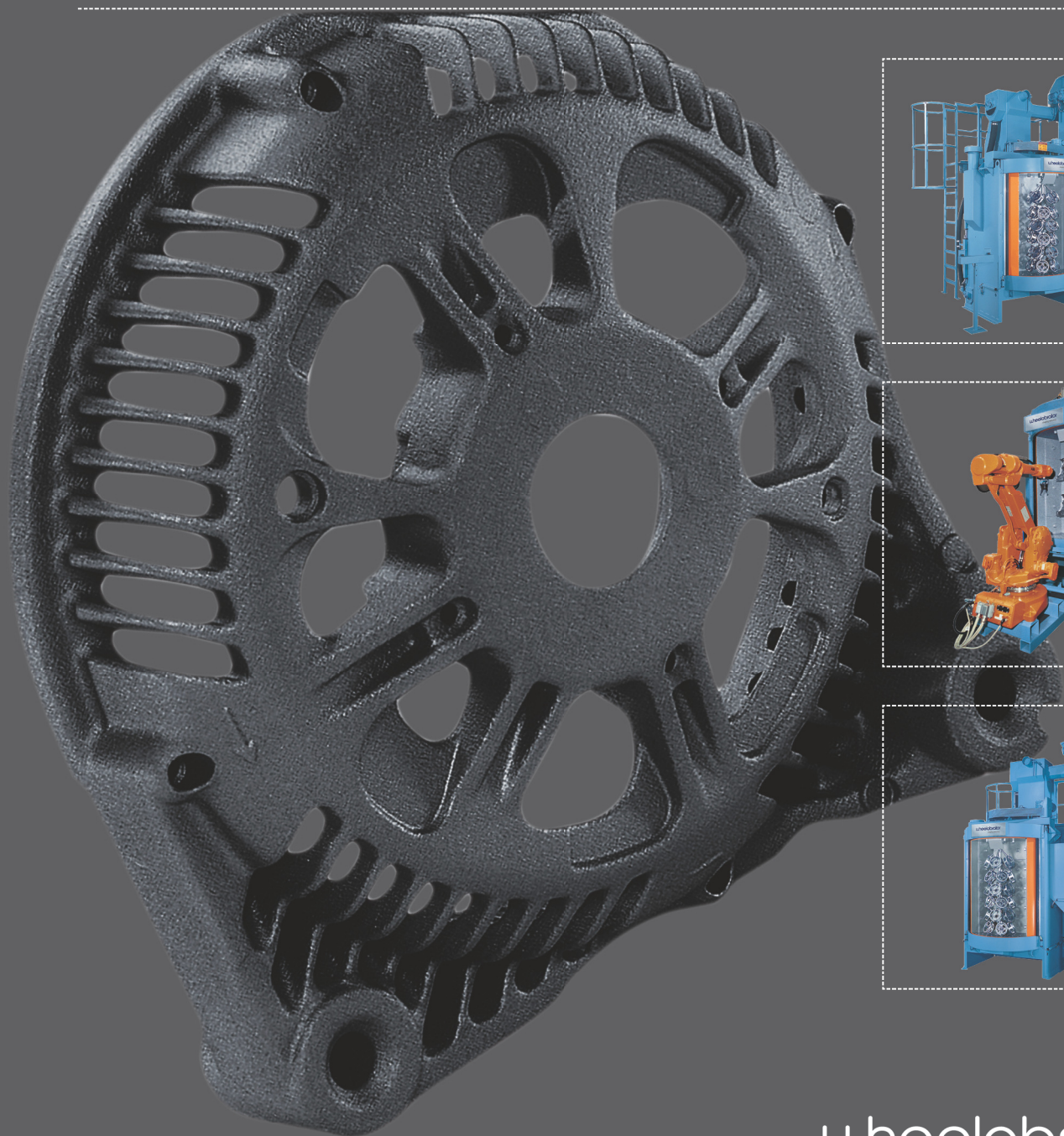


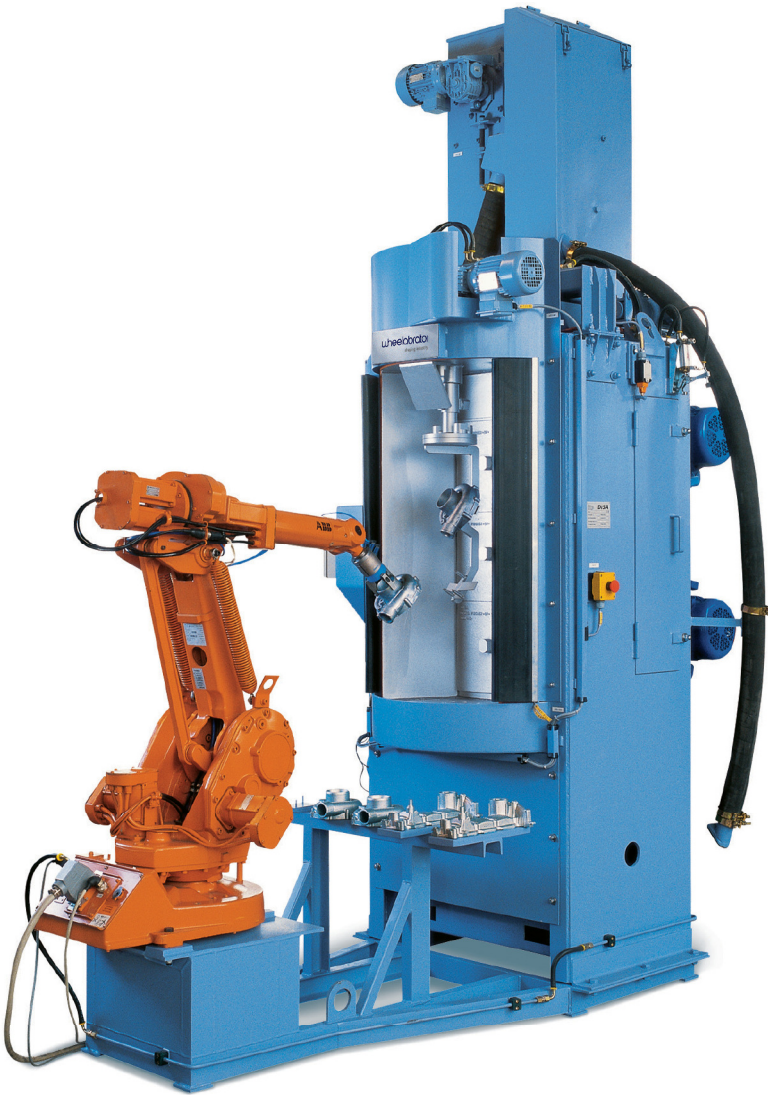


SPH Spinner-Hanger blast cleaning machine

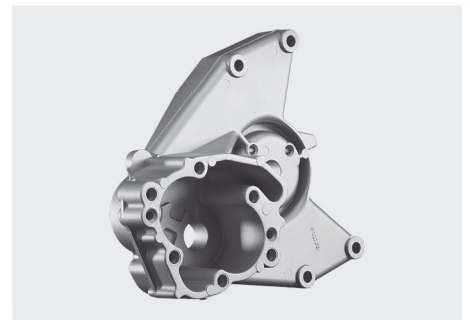
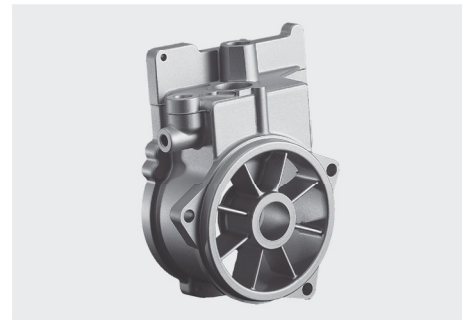
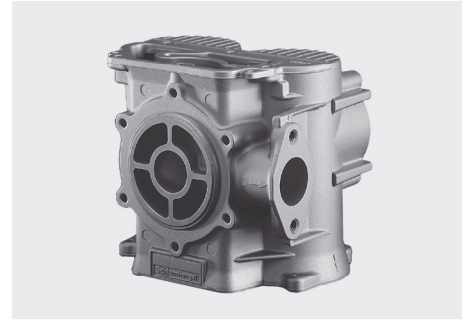


wheelabrator
shaping industry

Applications



Loading and unloading of SPH 2-5,5/12 with robot



Universal applications: Deburring, desanding, descaling

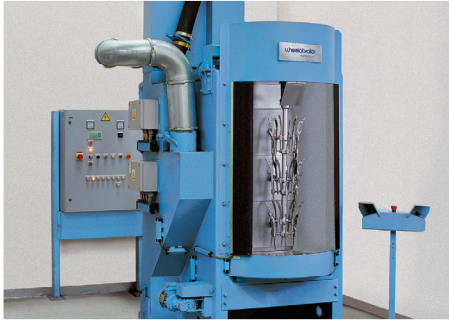
The SPH spinner-hanger blast cleaning machine is specifically suitable for surface treatment and deburring of aluminum parts, descaling of forgings, and desanding of castings, especially for those workpieces which are not suitable for tumbling because of their shape or size. Several models are

available with load capacities of up to 600 kg per hook.

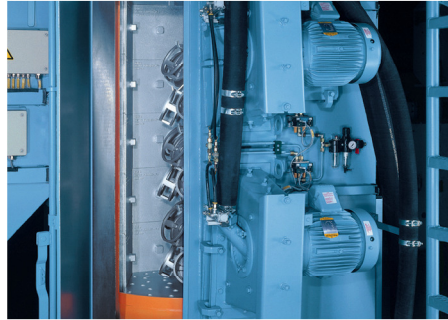
For automating operational sequences or integrating a shot blast machine in continuous production lines, loading and unloading can be performed without

operator assistance. In this case, an industrial robot is used which also serves to link the individual manufacturing cells. The equipment required for exact positioning of the spinner hook and the chamber is available as an option.

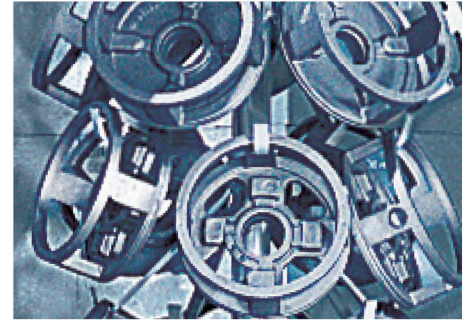
Design and operation



SPH 2-3/9, loading/unloading area



SPH 2-5,5/12, rear of machine with blast wheels, maintenance access door open



Design and sequence of operations

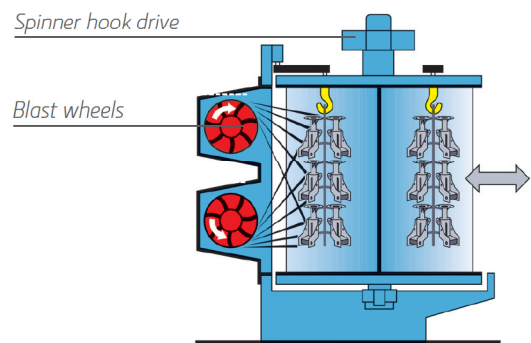
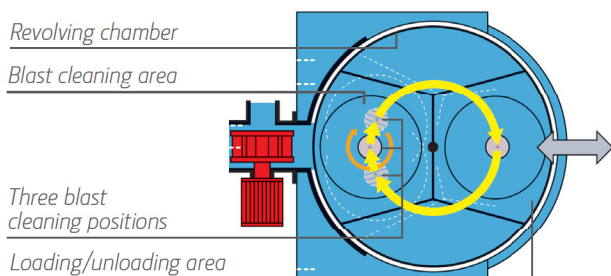
The machine does not require any foundation and consists mainly of the housing with the revolving blast chamber divided into two or three compartments, the blast wheel units, and the abrasive separating unit. Each compartment is equipped with a spinner hook to receive the hangers with the parts to be cleaned. The loading area of the machine is open, so that one compartment can be unloaded and re-loaded while parts are blast cleaned in the other compartment.

Whenever the chamber is revolving to its next position, the abrasive flow is interrupted until the chamber stops rotating. The hook – continuously rotating – can be indexed in front of the blast wheels through three different positions per blast cleaning cycle to avoid blast shadows. The abrasive is refed to the blast wheels after passing through the abrasive separating unit for removal of impurities.

SPH 3 - machines are equipped with servodriven hooks; they can be supplied with blow-off unit or air nozzle station.

Features

The blast cleaning compartments are lined with highly wear-resistant material. A unique seal design protects against abrasive leakage from the compartments during the blast cleaning process. Two safety switches along the edges of the loading/unloading opening ensure that the machine is completely turned off in case a workpiece gets jammed. A door on the rear of the machine gives access to the blast chamber and the blast wheels for maintenance and inspection purposes.



Efficiency and precision

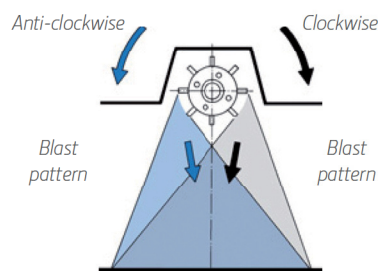
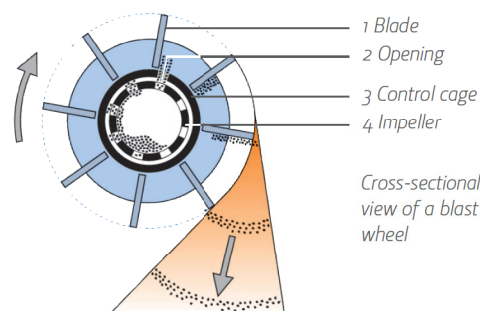


SPH 2-5,5/15A with robot loader

Wheelabrator blast wheels

Wheelabrator blast wheels are renowned for high capacity and maximum energy efficiency. These blast wheels come in various power ratings, for a high degree of flexibility. Due to the reversibility of the blast wheel rotation, the range of applications can be considerably extended.

The amount of abrasive can be adjusted from the operator's panel. The abrasive is mechanically pre-accelerated and delivered to the blast wheel in a continuous stream. This ensures optimal utilisation of the power from the drive motors. High wear resistant material ensures maximum service life of the blast wheel. Unique design features allow for rapid and simple replacement of wearparts.

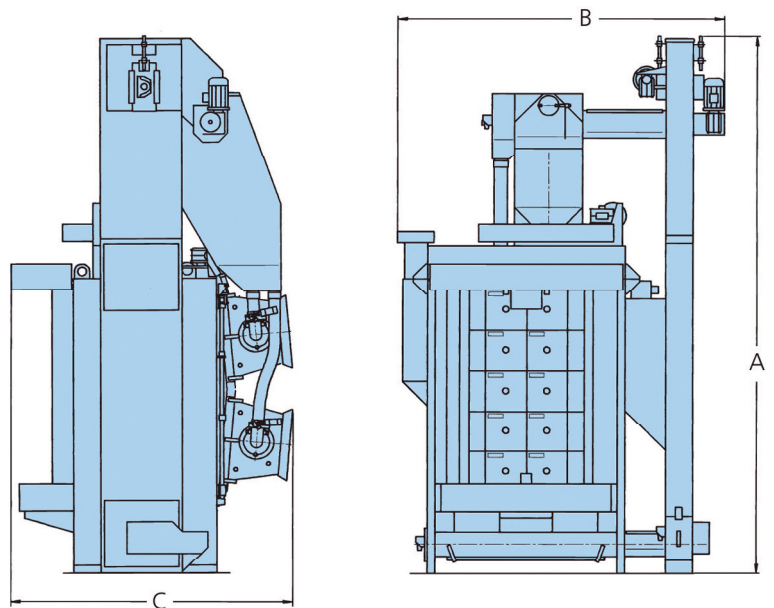


Technical Data

Type		SPH 2-3/9	SPH 2-5,5/12	SPH 2-8,5/15	SPH 3-6/11
Max. load capacity	kg	150	300	600	300
Max. envelope circle diameter	mm	300*	550*	850*	600
Max. hanger height	mm	900*	1200*	1500*	1100*
Number of blast wheels		2	2	2	2 - 4
Power per blast wheel	kW	3,75	5,5/7,5	7,5/11	5,5 - 15
Air required for dust collection	m³/h	1400	3400	5100	5200
Installed power, approx.	kW	8,60	13,1/17,1	20,7/27,7	45
Dimensions, approx.	A	mm	3360	4100	5440
	B	mm	1360	2440	3660
	C	mm	1420	2130	3050
Weight, approx.	kg	1830	3990	4960	9500

* depends on the shape of workpieces

The technical data is not binding and may be subject to change.





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Norican Group is the parent company of DISA and Wheelabrator.

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