

Mobile blasting machines



The DSM 4 mobile blasting machine combined with enclosed cabinet for processing small components with complex surface.



The DSM 4 type

dimensions	length 1050 mm, width 550 mm, height 1500 mm
weight	146 kg
air consumption	4.5 m ³ /min. at pressure 7 bar
working nozzle	Ø 6,4 mm of hard metal
blasting head	Ø 75 mm
working hose	7 m length, max. 14 m
pressurised abrasive hopper	28 l - 120 kg of alloy blasting grit - 70 kg of emery (corundum) or glass beads
abrasive	abrasive grain size from 0.01 to 1.5 mm, the recommended grain size for SA 2.5 surface is 0.2 - 0.4 mm. Consumption - 120 kg of basic filling, maximum loss of abrasive 5 kg/hour (broken grains of abrasive in the form of dust that is separated on the filters).
abrasive dispenser	continuously adjustable
pressure regulation	fine pressure regulator 0 - 12 bar with a pressure gauge
drawn-off volume	6 m ³ /min
suction air source	injector with a silencer (or alternatively a vacuum pump)
filter surface	8 m ²
filtering agent	polyester staple
filter cleaning	air blast generated by manual pressure valve
noise level	≤ 85 dB in the distance 1 m from the equipment
dust ratio in the exhaust air	≤ 3 mg/Nm ³

References:

- ZVVZ, a.s., Milevsko
- ŽOS Nymburk, a.s.
- Pars nova a.s., Šumperk
- Sandvik Chomutov a.s.
- Potrubí Praha a.s.
- Krnovské opravny a strojírny s.r.o., Krnov
- Železiarne Podbrezová a.s.
- ŠKODA Výzkum, s.r.o., Plzeň
- Legios a.s. Louny
- Streicher spol. s r.o., Plzeň



Shot blasting machines

with closed cycle and abrasive recycling

- 20 years in the business - guaranteed quality
- high and stable performance
- extensive knowledge - consulting services
- environmentally friendly operation

wide choice for all types of operations ►►

Stationary blasting chambers

The ARC-H a.s. company designs and manufactures stationary blasting chambers, blasting cabinets and mobile blasting machines. When processing serial components, the blasting chamber is equipped with robotised unit which makes the processing faster and more effective. Due to own designing services, we are able to meet our clients' specific requirements and needs.



Multi-funnel blasting chamber with magnetic separator suitable for use with metallic or non-metallic abrasives for blasting of conventional structural steel, alloy and stainless steel. ▲



Typical layout of technological equipment with separately standing filtering unit, abrasive hopper and two blasting containers. ▼



Special mobile multi-funnel trolley design eliminating the possibility of soiling the surrounding of the equipment by the abrasive while unloading or handling the processed components in front of the chamber. ▲

Multi-funnel blasting chamber situated in the light-production facility with double roof design assuring dust-free recycling of the drawn-off exhaust air. ▶



Technology implementation: ČZ Strakonice, a.s. | Sokolovské strojírny Sokolov, a.s., Cheb Division | Krmovské opravny a strojírny s.r.o., Krmov | ŠKODA JS a.s., Plzeň | ZVZ, a.s., Milevsko | Pars nova a.s. | ŽOS Trnava a.s. | Altech mobility s.r.o. | LOSTR a.s., Louny

Solution with integrated filter and abrasive collector. The fan outlets are fitted with silencers and additional filter cartridges in order to meet the requirement of the residual dust content in air not exceeding 1mg/Nm³. The chamber is divided into two separate sections in order to safe electricity in case of processing smaller components.



Mobile trolleys driven by an under-surface chain conveyor. One trolley is equipped with a turning table. ▲

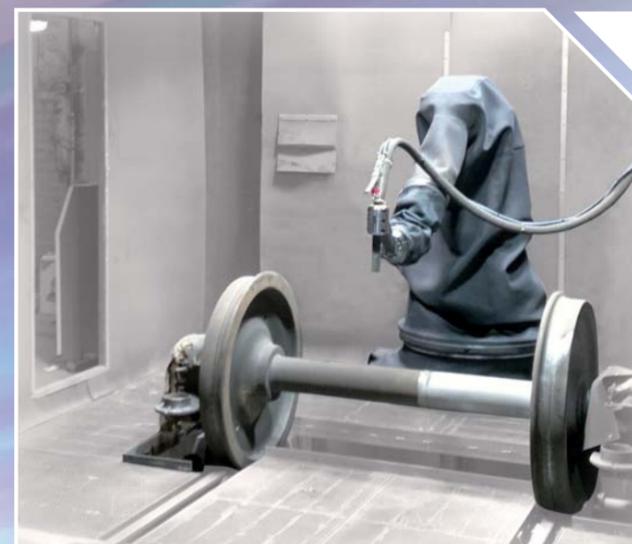
Multi-funnel blasting chamber of a non-standard layout allowing installation on a site with restricted space. ▶



Special multi-funnel floor used for drawing-off the abrasive and its consequent recycling. ▲



Robotised blasting chambers



When processing serial components, the process can be mechanised in order to achieve higher productivity and effectiveness. It reduces the operating costs and the time needed for the abrasive cleaning cycle.

