

SURFACE FINISHING EQUIPMENT GROUP

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Blast Nozzles DS-18



Nozzles shown from left to right
Boron Alloy, Silicon Nitride, Angled full size, angled small, straight small, wet head (upper right)

Use of the correct Blast Nozzle is essential for an efficient blasting operation. Consideration must be given for the factors shown below.

TYPE:

- Shape – a venturi nozzle will create a wide blast pattern and increase abrasive velocity as much as 100% for a given pressure. This can give a 40% increase in productivity compared to straight bore nozzles. A straight nozzle will give a narrow, concentrated blast pattern for precision work.
- Bore Size - a large bore nozzle will allow high production rates only if the volume and pressure of the air supply from the compressor is sufficient. If the nozzle bore does not match the compressor output the media will not leave the nozzle at high enough velocity to ensure blasting efficiency resulting in wasted abrasive and slowed rates.
- Type – most nozzles are 180° straight, but special nozzles with 1 or more angled outlets are available for applications such as blasting pipes.

NOZZLE MATERIAL:

Consideration must be given for the trade-off between purchase cost and nozzle durability. As the nozzle wears, the air requirement increases and if the air supply is not sufficient, pressure will drop and blasting efficiency will reduce. The abrasive being used will also effect nozzle wear. Abrasives such as aluminium oxide, and steel grit will wear a nozzle faster than iron silicate / calcium silicate.

- Boron Alloy – low cost, Ideal for contractors using expendable abrasives only due to high wear.
- Silicon Nitride –our standard high performance Syclone venturi nozzles are designed to give many advantages over alternative materials. They offer service life and durability similar to tungsten carbide, typically 20 times more wear resistant than boron alloy, are only about half the weight of tungsten carbide, and resist shatter better than silicon carbide. Complete with protective polyurethane jacket.
- Tungsten Carbide – normally used for pressure blast cabinet nozzles

WETBLAST HEAD:

- The Wetblast attachment fixes to the end of the blast nozzle and injects water into the abrasive stream as it leaves the nozzle. This suppresses dust, but as efficiently as our Satblast System were the abrasive is fully saturated.

Note : These products provide optimum and safe performance only when used in accordance with manufacturer's instructions, with suitably trained operators, and when provided with adequate recommended power requirements.