



DuraJet HV 3000

High Velocity Oxy-Fuel (HVOF) system



Product Information

The DuraJet HV 3000 Powder thermal spray system melts metallizing powder by heat generated through combustion of fuel gas and oxygen. The metallizing powder is fed at a regulated rate of speed to a flame-spraying torch that may be hand-held or motion-controlled. A continuous flow of compressed air surrounds the flame, atomizes the molten metal and disperses it over the surface of the object to be coated. The spraying torch may be guided by hand for spraying large or intricate pieces; for production work the torch may be mounted to programmable equipment, such as an x-y manipulator or robotic arm.

The DuraJet HV 3000 Powder torch combines a patented gas valve with unique flame pattern that results in greatest efficiency for depositing high-density coatings.

The DuraJet HV 3000 Powder spray system applies powder sprayed coatings to almost any grit-blasted surface, whether metal, wood or plastics. Laboratory testing and evaluation facilities at the company provide customers with recommendations and parameters to assure optimal spray yield and coatings of the highest quality.

Unlike water-cooled HVOF systems the HV 3000 Powder uses compressed air as a cooling agent, eliminating weight and easing operating conditions.



The HV-3000G Torch is simple, rugged and lightweight. The Torch is air cooled and requires no water cooling. Air, oxygen and fuel gas flows are controlled with a patented 3-position rotary valve assembly. The torch is easily lit in the start position and then switched to full flows. The gas head has a patented design that provides efficient combustion, rapid melting of the powder and acceleration of the molten droplets to very high velocities. The torch handle is removable for machine mounted operation.

The HV-3000C Console is used to adjust and monitor the gas flows. It is built in a sturdy NEMA 12 enclosure that can be conveniently carried like a suitcase. The Console is very easy to use, with only a flowmeter, pressure regulator and gauge for each of the three gases (fuel, oxygen and air). All internal plumbing is stainless steel tubing and there are no electrical circuits in the Console. Hoses for the torch and gas supplies are furnished, each with a different connector to prevent any confusion.



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The HV Powder Feeder is a controlled, pressurized unit that produces accurate, repeatable feed rates. The powder feeder is primarily for High Velocity Oxygen Fuel (HVOF) thermal spray systems, but can be used for combustion powder & plasma. Its small size makes it a portable powder feeder, which is convenient for onsite work.

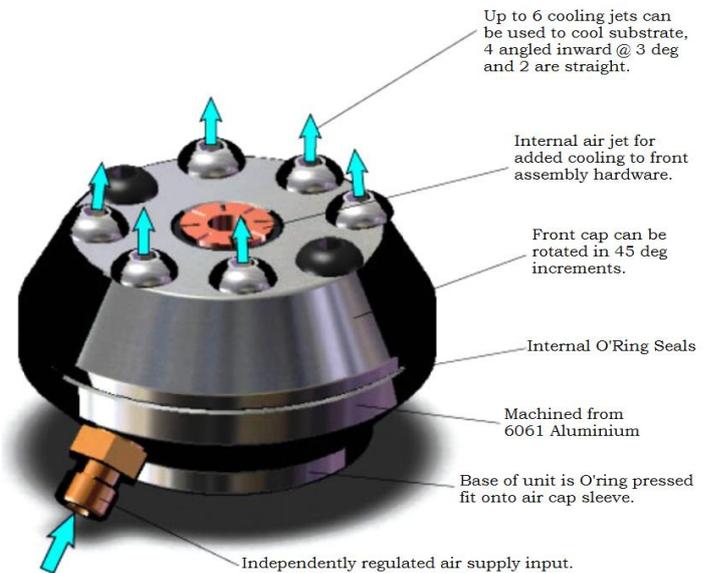
The feeder operates on a volumetric feed principle where slots in a powder wheel at the base of the pressurized canister fill with powder. As the powder wheel rotates past the exit port, the powder is metered into the powder hose and carried to the spray gun in the gas stream. The speed of the powder wheel governs the rate at which powder is delivered to the gun.

The feeder has its own regulator, flow meter, pressure gauge and digital RPM tach built in. The feeder uses the same consumables as the Praxair 1264.

The HV-3000G also comes with a new and innovative CoolHead Adaptor. This is the latest product for the HV Torch.

This component slides directly over the existing air cap nozzle. Using an independently regulated air line, its primary function is to cool the Gas Head Assembly, thus extending the life of the internal components thus improving the deposition efficiency.

The air is then exhausted through a variable configuration of cooling tubes used to cool down the substrate that's being sprayed. A multi-function gadget wrapped into a single product!



GENERAL	
WARRANTY	1 year warranty on Torch, Powder Hopper & control console
SHIPPING	Ex stock / 4 - 6 weeks for basic system
BACK UP UNIT AVAILABILITY	Yes
TRAINING	Yes
TECHNICAL SUPPORT	Yes
APPLICATION DEVELOPMENT	Free consultation

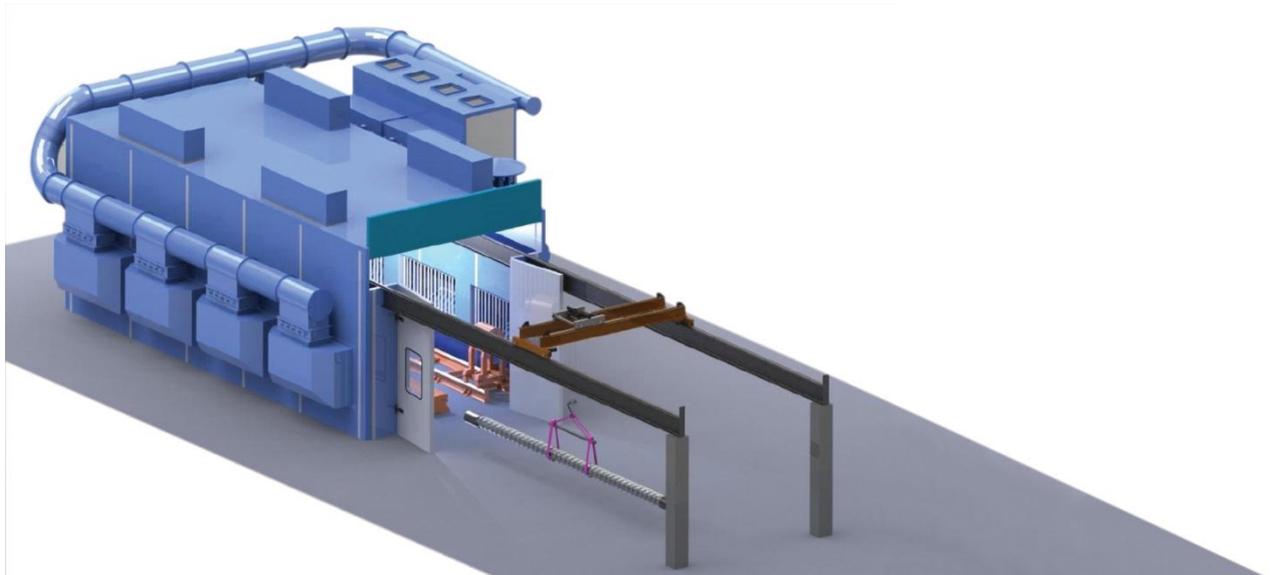


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Semi or fully-automated work handling systems are design & customize built for different applications

Dura-Metal range of machinery and equipment are well known in the market for their reliability and quality. We have designed and manufactured a wide range of semi-automated and fully automated production machinery and equipment & fixtures for welding and cladding applications. Our experienced mechatronics design engineers / technicians are trained to assist customers in their productivity and quality enhancement through innovative machinery design and implementation.



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