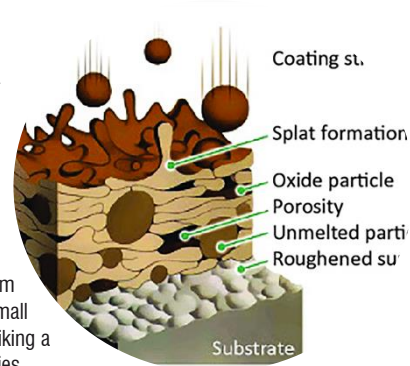


What is a thermal spray coating?

A coating produced by a process in which molten or semi-molten particles are applied by impact onto a substrate.

A common feature of all thermal spray coatings is their lenticular or lamellar grain structure resulting from the rapid solidification of small globules, flattened from striking a cold surface at high velocities.



Feedstock		
Any electrically conductive material in wire form may be sprayed with the two-wire arc spray process. Typical wire sizes are listed below:		
14 gauge	.062"	1/16"
11 gauge	.091"	3/32"

TECHNICAL SPECIFICATIONS:

Mains Voltage	400 V ±15%, 3P 50/60Hz	
Primary Current	I _{max}	37A
	I _{eff}	29A
Setting Range	16.5 V / 50 A - 39 V / 500 A	
Permissible Load	60% Duty Cycle	39V / 500 A
	100% Duty Cycle	33.4 V / 387 A
Open-Circuit Voltage	70 VDC	
Operating Temperature	-10 °C to + 40°C	
Power Factor	0.93 (at maximum current)	
Efficiency	85% (at maximum current)	
Compress Air (CDA) Requirement	83CFM @ 100 psi	
Dimensions (LxWxH)	935 x 620 x 1203 mm	
Weight (kg)	Power Source	58 Kg
	Control Console	20 Kg
Insulation Class	F	
Enclosure Class	IP21	

Dura-Metal®

DM 500-AS

Twin Wire Arc Spray System



The DM 500-AS Twin Wire Arc Spray System

Control costs and operator fatigue with the DM 500-AS high-performance "pull" arc spray system. Wire pull method allows to complete use of all the wire, unlike push only system. Low running costs, high spray rates and efficiency make it a good tool for spraying extensive areas or a large number of parts.

For application specific guidance on proper spraying procedures and parameters, please contact us tech.support@durametal-alloy.com



Imagine having the power and flexibility of a 500 amp spray arc spray system with one-fifth the maintenance costs of conventional pull system. You are not dreaming. The **DM 500-AS Arc Spray System** from Dura-Metal Group offers unmatched performance and unbeatable power.

This specially designed system minimizes operator fatigue and lowers maintenance costs due to the lightweight gunhead that features no moving parts.

Imagine again replacing the consumable wire guides in less than a minute using no tools with the exclusive **Quick-change contact tip**. The **Quick-change** four drive roll per wire System features either U-groove rolls for the drive rollers and groove rollers on the tensioner, slip-free wire feeding. Provided specialized tools need for drive roll or wire diameter changes.

Expect optimal airflow and atomization with a variety of air caps and nozzle positioner that are designed to produce the correct spray pattern for any job.

DM 500-AS Control Console

Input Supply: 110 – 230VAC 50/60Hz (from DM500 AS Power source)
Fully PLC controlled, Fault Alarm (Air Low) monitoring, High Velocity spray option for dense and fine coatings.
Easy to control welding voltage and wire feed speed

Voltage Display Adjust

Voltage range is 16.5 V to 39 V with the fine adjust potentiometer.

Status LED

Ready, Air Fault and High Velocity Spray mode

Wire Feed Stock Assembly

Can be flexible mounted either in cart or in stand and placed nearer to the spray torch.
Motor driven wire feed roll as an improved wire feeding designed for pull system.
Wire tensioner feed back sensor to maintain the wire tensioner for smoothening of wire feeding movement through the spray torch with the pull drive system. Quick-change of the wire spool with the spool engage/disengage lock feature for new load spool.

DM 500-AS Spray Torch

Light weight spray torch, robust, and newly designed compact heavy-duty industrial drive system.
Provides both application and production versatility.
Quick connect connector of wire feed hose from console or wire feed stock assembly.

Control Switch Selector Mode
Local / Remote Mode

Pressure Regulator
Air motor pressure and air spray pressure adjustment

Wire Speed Feed Adjust Meter
Air Flow monitoring as reference for set air motor speed flow control from spray torch

DM 500-AS Power Supply
Rugged and Reliable Inverter.

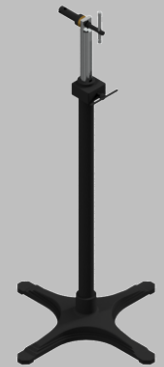
Robust and powerful, easy settings, flexibility, energy efficient, safety and reliability.
DM500 AS power supply is a heavy duty, fan cooled, IGBT based inverter based power source for welding. It has a mains voltage tolerance to suit extreme working conditions and has a high duty cycle for continuous operation.

The DM 500-AS has simple and user-friendly control console, constructed to maintain a high power factor and efficiency, thus keeping the energy cost to a minimum without affecting the coating quality. The DM500 AS conform to the International standards that ensure the reliability and safe use of these equipment. These units are equipped with overheating and mains over/under voltage protection that will temporarily switch off the machines automatically to prevent any potential damage that the components might sustain.

DM 500-AS Control Console
(Control Components)



DM 500-AS Arc Spray Torch Stand



DM 500-AS Arc Spray Wire Feed Stock Stand (Optional)



DM 500-AS Arc Spray Torch



DM 500-AS Consumables

