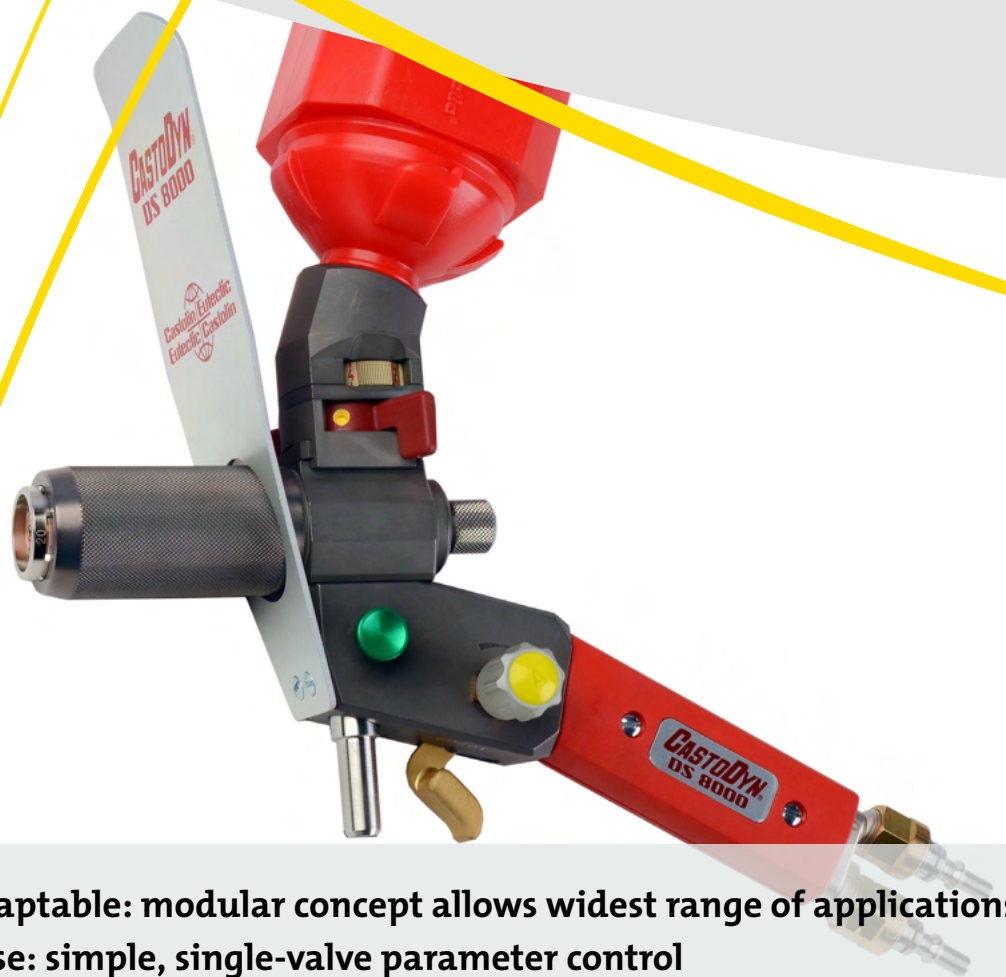




A user-friendly, advanced industrial
thermal spray coating system

CastoDyn® DS 8000



- **Highly adaptable:** modular concept allows widest range of applications
- **Easy-to-use:** simple, single-valve parameter control
- **Light and robust:** suitable for all users, small workshops to large factories

CastoDyn® DS 8000

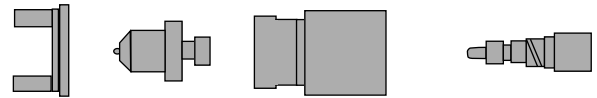
The DS 8000 - Designed for Easy Operation

Users will appreciate the CDS 8000's ergonomic layout, its light-weight design (almost 40% less than comparable torches) and ease of assembly and disassembly - no special tools required.

The CDS 8000 is easy to operate. The only adjustable control is the valve used to set the acetylene flow; all other controls are simple on/off switches. The unique rapid shut-off lever offers improved safety and allows the torch to be relit without having to touch any other control.

Modular Construction Increases Coating Quality

Because the Eutectic Castolin powder families vary considerably in their physical characteristics, four quickly interchangeable Standard Spray Modules (SSM's) have been developed for the CDS 8000. Each SSM is optimized to obtain the highest quality coatings from a particular group of powders. Between them, the four SSMs enable the CDS 8000 to give excellent results across a full range of coating applications.



Standard Spray Module (SSM)

Dependable, Predictable Performance

The CDS 8000 is built with CNC precision-machined components for reliable operation. Carefully calibrated holes drilled through synthetic rubies give very precise flow rates, producing extremely accurate and consistent coatings - time after time.

Easily Automated for Large Applications

Industrial users can easily combine the CDS 8000 with various automation systems, allowing its power and precision to be utilized on even the largest applications, whether OEM, repair or preventive maintenance. An external powder feeder can be connected to support continuous coating operations.



Powders for Protective Coatings

For virtually every coating application, there is a Eutectic Castolin powder designed to provide the optimum solution. With its four Standard Spray Modules, the CDS 8000 can deliver all the powders in the product families listed.

Eutalloy RW 12000 and 23000 (SSM 20)

Eutalloy RW powders are propelled at high speed forming a deposit which is then fused to produce a dense coating with a strong metallic diffusion bond with the base metal. This results in a coating with good resistance to high pressure friction, high temperature oxidation and other forms of wear.

RotoTec 29000 (SSM 10)

RotoTec is applied as a “cold process”, for applications where distortion to the base metal must be kept to a minimum. RotoTec deposits require a bonding layer, are easily machined, and have good self-lubrication properties. The RotoTec family of powders is designed for protection against friction, although individual RotoTec products also offer good resistance to other forms of wear.

ProXon 21000 (SSM 10)

Proxon powders are applied as a “cold process”, but unlike RotoTec products, require no bonding layer, so they produce thinner coatings. This “one-step” procedure makes the ProXon range simple and quick to apply. ProXon’s principal use is against high-speed friction, while its homogeneous deposit also gives improved protection against corrosion.

Eutectic 5018 (SSM 40)

CastoPlast allows all manner of base materials, concrete, brick, stone and glass as well as metal, to be coated with thermoplastic polymers. Providing excellent protection against all kinds of corrosion, CastoPlast also blocks ultra-violet light and are available in a wide variety of colors.

MetaCeram 25000 (SSM 30)

The CDS 8000 offers an economic alternative to plasma spraying systems for applying MetaCeram powders. These contain inert ceramic materials or refractory metals and are tailored for particular applications. They can be polished to a very smooth finish and offer protection against intense abrasive friction, very high temperatures, molten glass and combustion gases.

LT 29000 (SSM 40)

The LT family of alloys is characterized by low fusion temperatures. LT features good resistance to atmospheric corrosion and is very suitable for use in oil-lubricated environments such as engine bearings.



CastoDyn[®] DS 8000

CDS 8000 Kit & Accessories

The CDS 8000 kit consists of an aluminum carrying case containing a CDS 8000 torch and the parts required for set-up, safe operation and maintenance.

To extend its range of applications are the following optional accessories:

- SF Lance; simultaneous fusion attachment for high deposition rate with excellent yield. Designed for use with only Eutalloy SF powders.
- an extension neck for coating internal surfaces
- a fusion torch with a range of tips
- gas hoses with quick connections
- a compressed air control unit

Eutectic Powders Technology - Responsive to all Needs

Drawing on its unrivaled experience in protective maintenance and repair coatings, the company has developed an extensive range of powders, which can be "custom built" to produce a more effective coating to meet a customer's specific requirements.

Total Quality Assurance

Quality assurance begins with the careful selection of suitable raw materials and continues throughout the manufacturing process.

On-line inspection is conducted at all stages from reception to final packaging. Castolin Eutectic's factories can make experimental batches, integrating on-going R&D into the production process. Both our gas-atomized and water-atomized powder plants have EN ISO 9001 or 9002 approvals.



*Aluminium suitcase
CDS 8000, robust and
practical*

*Seen here enlarged 450 times, the
Eutectic powders particles have specific
characteristics adapted to their
intended application.*



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