



CastoDyn® DS 8000

A user-friendly, advanced industrial thermal
spray coating system



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

CastoDyn® DS 8000

Operating Instructions The DS 8000 - designed for easy operation

Users will appreciate the CDS 8000's ergonomic layout, its light-weight (almost 40% less than comparable torches) and that no tools are needed to assemble or dismantle it. The CDS 8000 requires no specialist skills to operate.

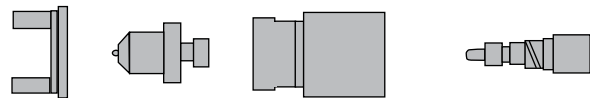
The only adjustable control is the valve used to set the acetylene flow; other controls are all simple on/off switches. The unique rapid shut-off lever offers improved safety and allows the torch to be relit without having to touch any other control.

Modular construction increases coating quality

Because the Castolin Eutectic 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 optimised to obtain the highest quality coatings from a particular group of Castolin Eutectic powders. Between them, the four SSMs enable the CDS 8000 to give excellent results across a full range of coating applications.

Dependable, predictable performances

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



Standard Spray Module (SSM)

Easily automated for larger applications

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



Stronger, with Castolin Eutectic

www.castolin.com www.eutectic.com

Castolin Eutectic's powders for anti-wearcoatings

For virtually every coating application, there is a Castolin Eutectic powder designed to provide the optimum solution. With its four Standard Spray Modules, the CDS 8000 can project all the powders in the product families listed here - a greater variety than any previous delivery system.

Eutalloy RW 12000 and 17000 (SSM 20)

Eutalloy RW powders are projected to form a deposit which is then heated to fuse its constituent particles. This produces a dense coating with a strong metallic diffusion bond with the base metal, giving Eutalloy RW products a good resistance to high pressure friction and high temperature oxidation. The Eutalloy RW family also provides protection from other forms of wear.

RotoTec 19000 (SSM 10)

RotoTec uses a "cold projection" process, so it can be used in cases where no distortion or change of metal structure in the base material can be tolerated. RotoTec deposits, applied onto a bonding layer, are easily machined to the required finish and have good self-lubrication properties. The family's main application is protection against friction, although individual RotoTec products also offer good resistance to other forms of wear.

ProXon 21000 (SSM 10)

Proxon powders are also projected "cold", but unlike RotoTec products, require no bonding layer and so can give 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 particle types of corrosion.

CastoPlast 31000 (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 28000 (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 characterised 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.



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CDS 8000 Kit & Accessories

The CDS 8000 kit consists of an aluminum carrying case containing a CDS 8000 torch and all the ancillary items needed to set it up, operate it safely and maintain it. To extend its range of applications, the CDS 8000 System features a number of optional accessories:

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

Castolin Eutectic powders technology - responsive to all needs

Drawing on its unrivaled experience in protective maintenance and repair coatings, Castolin Eutectic has developed its extensive range of powders, which can be quickly modified to produce a more effective solution to a particular requirement. The increasing number of industries using this advanced technology for a growing variety of jobs underlines the effectiveness of the "custom-built" approach.

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-atomised and water-atomised 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.*

0.1mm 21.5kV 6.00E2 2994/00 2107