



CS METAL EUROPE  
We Steel

# COMPANY **PROFILE**

Hitachi Metals  
has now become

**PROTERIAL**

AUTHENTICALLY  
Japan Made

# WE STEEL



# Supporting Global innovation

C.S. Metal Europe is located in Bedizzole, not far from Brescia (Italy) and it was founded in 2018.

Research and Development (R&D) of Specialty steel is at the core of our company. We aim to be an important reference for companies who want to stay up to date with the latest technological innovations of the current market. Thanks to a wide range of excellent materials and a long-term experience, we are able to satisfy all the requests of our customers and to deliver a fast, accurate and reliable customer service.

As we believe our customers deserve the best, we want to lead us on a voyage to excellence and continuous improvement. Our mission is to become the main reference in Specialty Tool Steels industry in Italy and abroad, applying our personal values: innovation, integrity, professionalism and team work.



# Vision Mission Value

Honesty brings  
excellent steel



## VISION

To be a leader in the Tool Steel Industry, admired for our products and contributing to shaping the future.

## MISSION

To be the region's Steel Industry leader, by developing our talent, fostering our high performing culture, striving for operational excellence, and safeguarding Health, Safety & Environment

## VALUE

- Caring
- Respect
- Excellence
- Integrity
- Teamwork
- Values Shape Our
- Behavior and Decision Making

## STRATEGY

- Commitment to European Vision
- Operational Excellence
- Integrated Business Portfolio
- Market Driver
- High Performing Organization



## CS METAL EUROPE

Italian company based in Bedizzole (Brescia)  
specialized In tool steel business.  
Our position is strategic for Italian  
manufacturing industries.

Where  
we are  
Strategic position



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Yasugi (Yamate) works



Yasugi (Kaigan) works



# We respect the environment to build a green future

Green is more than a color.  
It is a philosophy

We take care about the environment and we use renewable resources for the production of our steel. We want to encourage the value of innovation in technology as we believe it is the best way to improve our customer service. Thanks to this choice we have obtained "Verde Dentro" sustainability certificate.





# Quality Management System

Business process



Organizzazione con Sistema di Gestione certificato ISO 9001

In order to ensure our high standards over the long term and to be able to react to changing requirements quickly and appropriately, CS Metal Europe has committed to a true process management system.

We are continuously working on improving our service and processes.

The CS Metal Europe quality management system will be certified to ISO 9001 next September 2021 by INTERTEK.



**intertek**  
Total Quality. Assured.

**CERTIFICATO DI REGISTRAZIONE**

Il presente certifica che il Sistema di Gestione di:  
**CS METAL EUROPE SRL**  
sede principale: Via Benaco 86, - 25081 Bedizzole (BS) / Italia  
è stato riconosciuto da Intertek conforme ai requisiti della norma:  
**UNI EN ISO 9001:2015**

Il Sistema di Gestione è applicabile a:  
Distribuzione di acciai da utensili e speciali. Taglio a misura metalli.

IAF: 29 - 17

La validità del presente certificato è subordinata a sorveglianza periodica annuale.

Numero di registrazione:  
2117013  
Data di Prima Emissione:  
19 Ottobre 2021  
Data di Decisione di Certificazione:  
19 Ottobre 2021  
Data di Emissione corrente:  
19 Ottobre 2021  
Data di Scadenza:  
18 Ottobre 2024

**ACCREDIA**  
ISO 9001  
SOG N° 0444  
Membro degli Accordi di Mutuo Riconoscimento EA, IAF e ILAC  
Signatary of EA, IAF and ILAC Mutual Recognition Agreements

**intertek**  
Calin Moldovean  
Presidente, Business Assurance  
Intertek Italia S.p.A.  
Via Miglioli, 2/A  
20063 Cernusco sul Naviglio (MI)  
ITALIA

Intertek Italia S.p.A. è un Organismo di Certificazione accreditato da ACCREDIA per ISO 9001 con numero di registrazione 0444. Nel rilascio del presente certificato, Intertek non si assume alcuna responsabilità nei confronti di terzi né nei confronti del Cliente e solo in conformità con l'eventuale Accordo di Certificazione. La validità del presente certificato è subordinata al mantenimento della conformità ai requisiti richiesti per l'ottenimento del certificato. Informazioni puntuali e aggiornate circa la validità ed eventuali variazioni intervenute nello stato della certificazione di cui al presente certificato possono essere verificate via e-mail al seguente indirizzo: [certifications@intertek.it](mailto:certifications@intertek.it) o telefonando al numero 02.86766000. Il Certificato è di proprietà di Intertek Italia S.p.A. alla quale deve essere restituito su richiesta.



# Company facts and figures

## Our numbers

**6000 mq<sup>2</sup>**

Warehouse

**34**

Cutting machines

**4000**

Stock tons

**12**

Employees

**1200 mq<sup>2</sup>**

Offices

**1**

Technical Department

**6**

Sales staff / Financial dpt

**3**

Logistic trucks

**5**

Production Staff

**Europe**

Sales area

**8 (max. 20 Ton)**

Cranes

**Training**

knowledge



# The value of our Brand

DY® Specialty Steel:  
Nothing but performance

CS METAL EUROPE SRL provides innovative solutions using high-quality materials in order to reach the best performance. We supply different kind of **DY® SPECIALTY STEEL**, according the usage and the products the steel is intended for. **DY®** is a trade mark that guarantee best quality products, certified according to EN10204.3.1 standards.

**DY® SPECIALTY STEEL**  
NOTHING BUT PERFORMANCE

  
**DY® COLD**  
Cold Work Tool Steel

  
**DY® HOT**  
Hot Work Tool Steel

  
**DY® PLAST**  
Plastic Mold Steel



# Drive your ambition

Need,  
Knowledge  
or  
Choice?



Thanks to a wide range of excellent materials and a long-term experience, we are able to satisfy all the requests of our customers and to deliver a fast, accurate and reliable customer service.

Ultra High Performance  
Materials

Standard Grade  
Materials

General Grade

Choice:  
PROFIT

Knowledge:  
SAVING

Need:  
COSTS

PROFIT

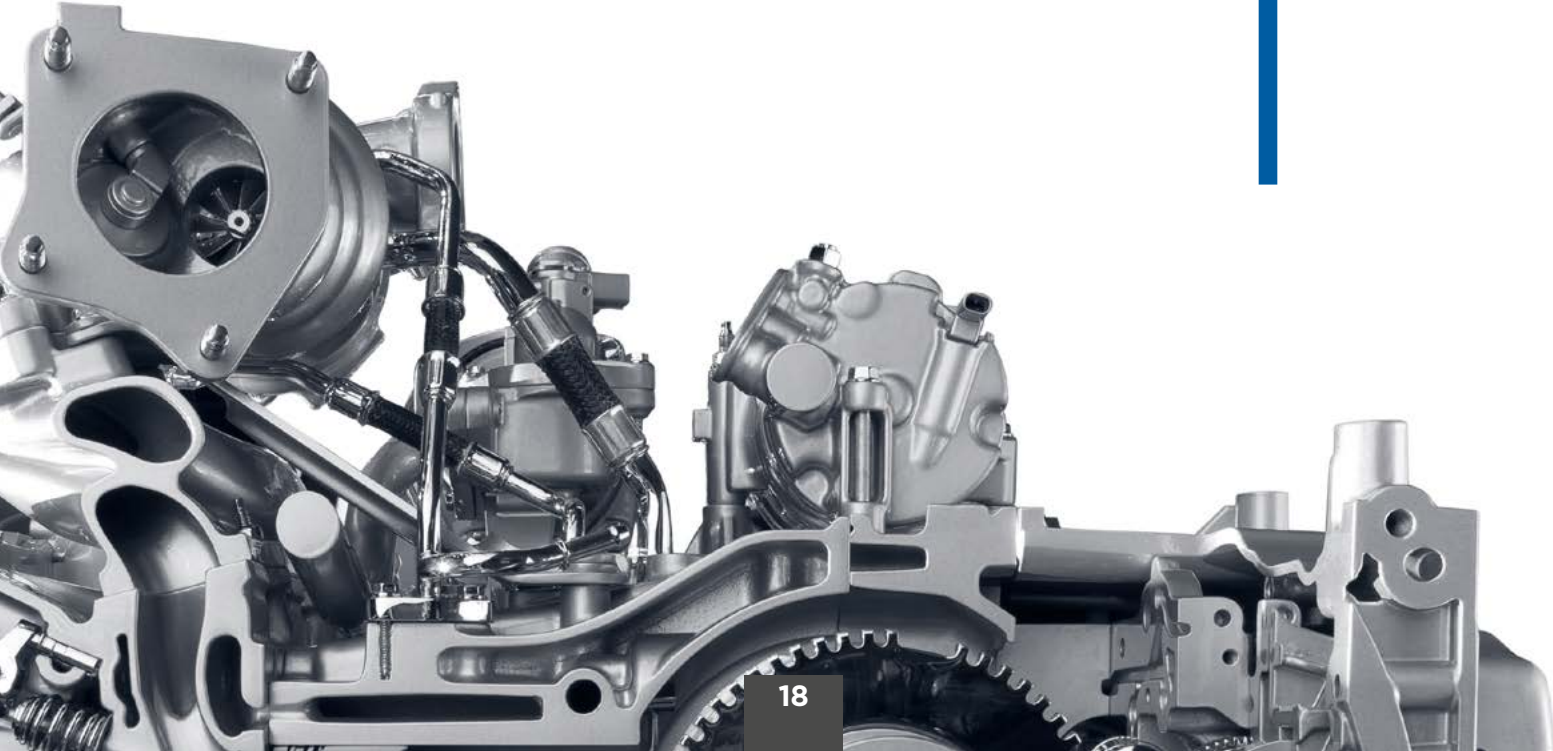
DAC MAGIC™  
DAC I™  
DAC S™  
YXR 55™

SAVING

DYSTAR GOLD  
DYSTAR

COSTS

1.2343 ESR  
1.243





## A history of innovation in advanced metallurgical technology and materials development

True to our tradition, we strive to consistently refine our material development capabilities.

With the same intensity required to create tama-hagane a high valueadded material produced by the tatara foundry method we enhance the full luster of the materials we produce.

While enhancing steel purity through stringent raw material selection methods, we continue to support the development of a wide range of industries by providing highly functional materials.

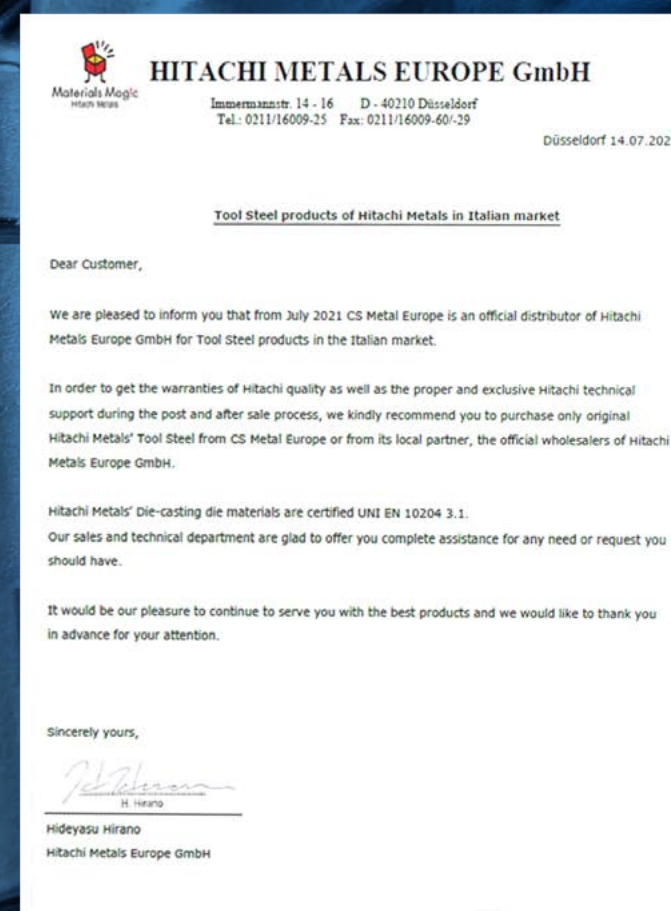
Hitachi Metals  
has now become  
**PROTERIAL**

Italian  
Official  
Partner

**DAC MAGIC™**  
NADCA Grado C

**DAC I™**  
NADCA Grado E

**DAC S™**  
NADCA Grado B





Hitachi Metals  
has now become  
**PROTERIAL**

Research  
and  
development

### Research anticipating market needs

Focusing on casting technology for manufacturing cast iron and aluminum products, the Functional Components Research Dept. of Metallurgical Research Laboratory is conducting research and development for producing fabricated materials and components enabling weight reduction and energy saving in the automobile industry. As a laboratory developing products anticipating market needs, we have promoted extensive research and development in close cooperation with our customers.



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Partner

**Proterial Ltd. High-Grade Metals  
Company Tool Steel Business Unit**

Proliferating eco cars and improving fuel economy and safety performance.

We appropriately capture changes in environmental performance required for automobiles, thus relentlessly pursuing the evolution of all of our products.

Ranging from drive motor components and exhaust system components to chassis components.

We use our development and technological capabilities to support automobile manufacturing around the world.

**DAC MAGIC™**  
NADCA Grado C

**DAC I™**  
NADCA Grado E

**DAC S™**  
NADCA Grado B



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has now become  
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Official  
Partner

## Proterial Ltd. High-Grade Metals Company Tool Steel Business Unit

### Advanced Die Steel for Die Casting:

DAC MAGIC™  
DAC I™  
DAC S™  
YXR 55™



**Products Type  
Proterial Exclusives**

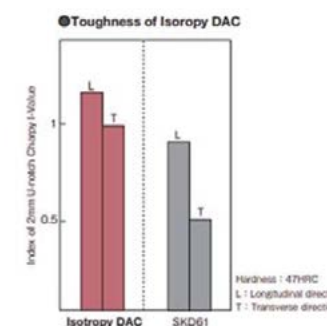
The range of applications of diecast products is expanding for weight saving and recycling while awareness of environmental protection is increasing.

This fact requires bigger diecast products to be produced with higher quality in short cycle.

In order to meet such needs, the DAC Series is one of the best solution for die casting which has not only good heat crack resistance but also good toughness.

### Isotropy

Isotropy tool steels are so named because the difference in mechanical properties between its longitudinal (forging or rolling direction) and transverse directions is reduced, thus overcoming a weak point of ordinarily processed steels. This technological concept, which is highly evaluated by users of tool steels, is applied for the production of all our steels and contributes significantly to stabilizing their characteristics and enhance their service life.





# DAC MAGIC™

## Advanced Die Steel for Die Casting

### Advanced Die Casting - NADCA Class C

Dies for “structural die casting” require unique mechanical properties to meet expectations of high toughness and wear resistance. DAC-Magic is certified to meet or exceed NADCA Class C and offers high levels of thermal conductivity to promote faster cycle times in the die cast tooling.

Today’s Low-Fe aluminum types are very aggressive to die surfaces. DAC -Magic offers premier protection from sticking and erosion washout effects. DAC-Magic High Alloyed H-type steel is uniquely alloyed to far exceed normally produced H13 types and can be applied in extreme conditions for forging applications where normal H13 will not perform.

DAC Magic H-type steels can be produced in large cross section in Hitachi’s production facility in Yasugi , Japan using newly installed 10,000MT hydraulic open die press with twin-manipulators. This technology allows a higher ratio of forging reduction and strongly enhances impact toughness values.

### Features

- High strength at elevated temperature
- High toughness prevents gross crack of die
- Improved stress corrosion cracking resistance reduces crack problem from cooling channel
- Superior machinability reducing manufacturing time and total cost



Hitachi Metals  
has now become  
**PROTERIAL**

Heat Treatment  
Partners certified:  
TAG  
TTN  
BODYCOTE  
FRANISA

### Heat treatment

Our steel is subjected to heat treatment, the process of heating and cooling metals to obtain certain mechanical conditions. An attentive and effective planning of the procedure of heat treatment is the most important activity to have a meaningful difference in performance. Our innovative plants allow to achieve the best results in terms of steel hardening, quality and ensure repeatable results.

CS METAL EUROPE works together with its partners to define the activities of special steel heat treatment and to assist its customers in the best way, offering them an excellent technical service.

Every partner's plant is connected to a software in order to have a live record of the charts that are submitted to a quality certificate in order to have a clear and detailed description of the operations completed.

Our staff is ready to assist you for any information or request you should encounter

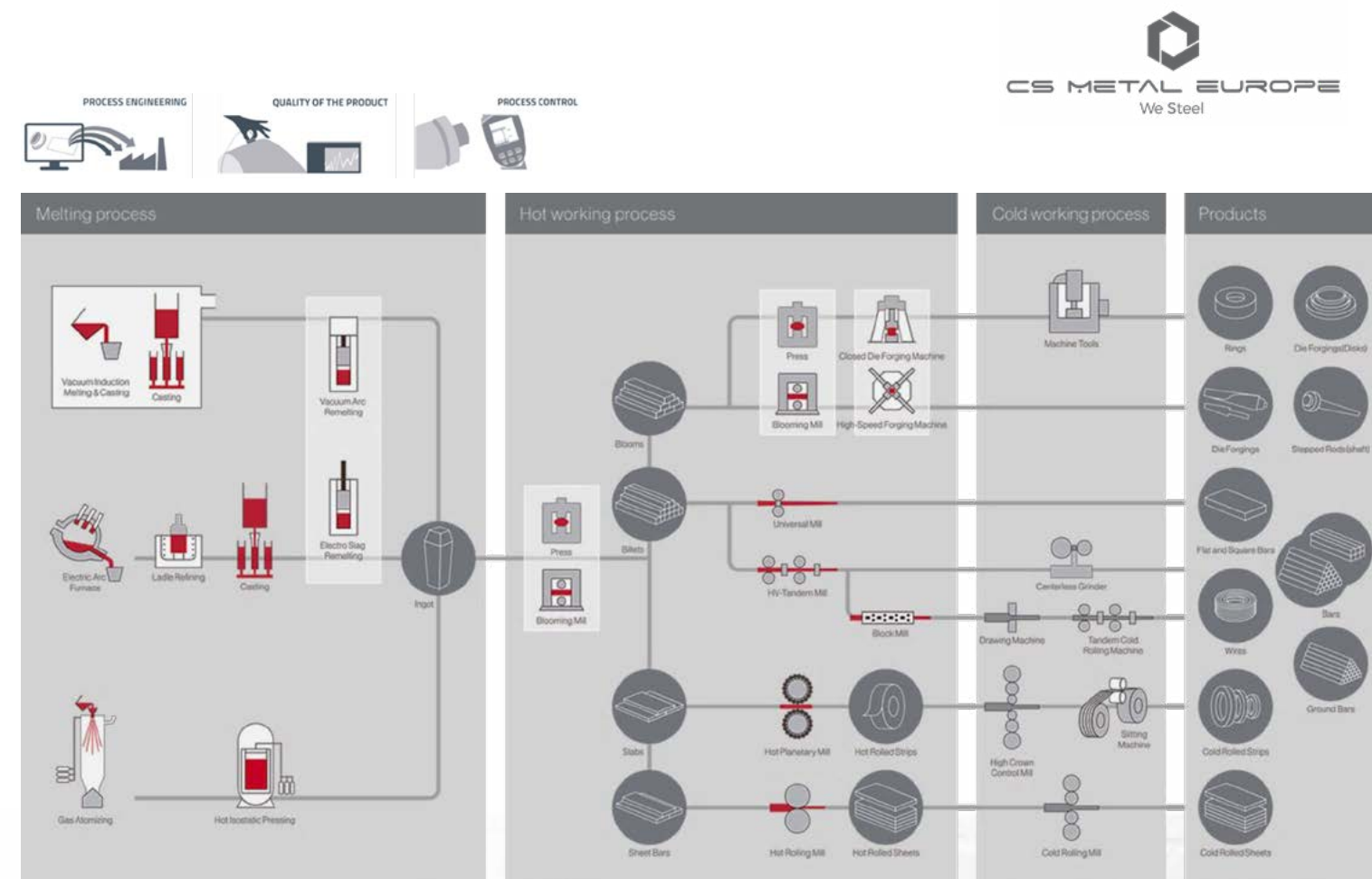
Courtesy of the company TAG TRATTAMENTI TERMICI srl. 8 tons horizontal vacuum heat treatment furnace: loading capacity 6 tons.





# Production flow

DY<sup>®</sup> Specialty Steel



Hitachi Metals  
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**PROTERIAL** | AUTHENTICALLY  
Japan Made



# Core business



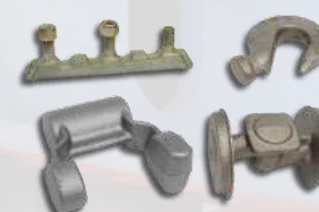
Die Casting



Shot Sleeve



Extrusion



Forging



Plastic



Stamping

GLAMA



# Stock size & delivery program

Our best solution  
for general grades

Thanks to a wide range of products, we are able to satisfy our customers' needs quickly. Upon request, our steel plate and forged bars are subjected to heat treatment, then wrought and certified after several attentive check. We are able to satisfy all requirements of surface finishing, bar peeling, polishing, grinding, turning, milling or cutting.

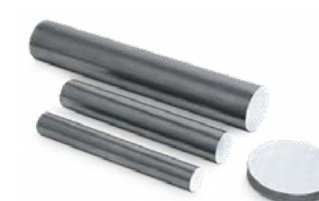
**DY® d-raw: raw bars**

**DY® d-tex: peeled bars**

**DY® d-black: milled bars**

**DY® d-finish: grinded bars**

**DY® d-bright: bright bars**





# CSME Stock

Our best solutions  
for advanced  
metal solutions

### CSME Stock - Tool Steel

Round	Rolled	Ø 20 - 185	Round	Rolled / Peeled	20 - 120 mm
	Forged	max. Ø 503 mm		Rolled / Peeled	120 - 180 mm
Flat	Rolled	20 x 505 mm		Forged / Turned	180 - 503 mm
		120 x 505 mm			
	Forged	120 x 610/810 mm			
		520 x 920 mm			
Square	Rolled			Rolled / Crude C45	20 - 380 mm
	Forged				

<b>DAC MAGIC™</b> Advanced 1.2367 Mod. ESR NADCA Grade C <b>Round</b> profile forged	<b>DAC MAGIC™</b> Advanced 1.2367 Mod. ESR NADCA Grade C <b>Flat</b> profile forged	<b>DAC S™</b> Superior Patented NADCA Grade B <b>Flat</b> profile forged	<b>DAC I™</b> Superior Patented NADCA Grade E <b>Flat</b> profile forged Delivery 02/2022
Ø 162 mm	‡ 985 x 155 mm	‡ 910 x 365 mm	‡ 860 x 210 mm
Ø 212 mm	‡ 985 x 215 mm	‡ 910 x 285 mm	‡ 940 x 255 mm
Ø 222 mm	‡ 985 x 235 mm	‡ 925 x 265 mm	‡ 920 x 290 mm
Ø 242 mm	‡ 985 x 245 mm	‡ 985 x 235 mm	‡ 750 x 240 mm
Ø 262 mm	‡ 905 x 315 mm		‡ 820 x 310 mm
Ø 282 mm	‡ 930 x 365 mm		‡ 1220 x 430 mm
Ø 352 mm	‡ 925 x 385 mm		
	‡ 925 x 420 mm		



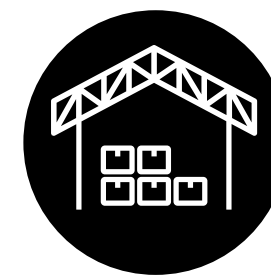
# Our service

Our service,  
your advantage

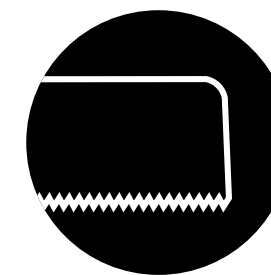
We work with passion and diligence to deliver our customers an excellent service. We provide an excellent technical service and high quality and certified products that we subject to several attentive check in every phase of the production.

We want to offer a efficient pre and after sales assistance in order to be able to assist our customers effectively, exceeding their expectations.

We are able to supply a wide range of high standards tool steel available from our stock in a fast delivery. We have 8 cranes (max. 20 tons), 34 cutting machines able to cut up to 1,000 mm round size bars and flat bars (2,200 mm width and 900 mm thickness).



STOCK



CUTTING



LOGISTIC



TESTING



SUPPORT

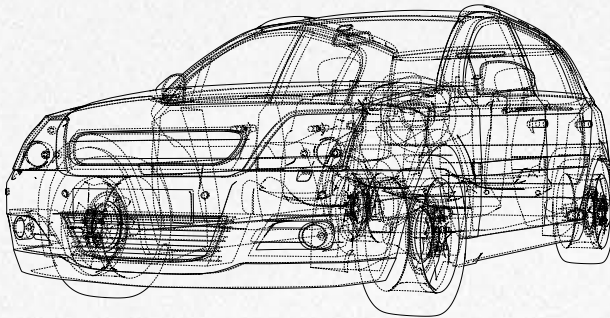




DY<sup>®</sup>HOT

Advanced Die Steels for Die Casting

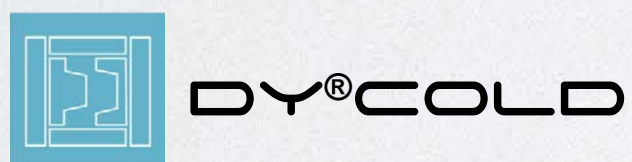
Hot work tool steels guarantee the highest performance in the most demanding phases of aluminium working. Thanks to their excellent properties they are suitable for hot working applications that put the mold under mechanical stress and very high temperature.



DY <sup>®</sup> SS	DIN	AISI	UNI	HARDNESS
Proterial DAC MAGIC™	1.2367 Mod. NADCA Grado C		X38CrMoV5-3	Annealed max 230 HB ESR
Proterial DAC I™	Original NADCA Grado E	--	--	Annealed max 230 HB ADVANCED METALS
Proterial DAC S™	1.2344 NADCA Grado B	H13	X40CrMoV5-1	Annealed max 230 HB ESR
Proterial YXR55™	Original	--	--	Annealed max 230 HB ADVANCED METALS
DYSTAR GOLD	1.2343	H11	X37CrMoV5-1	Annealed max 230 HB ESR
DYSTAR	1.2343	H11	X37CrMoV5-1	Annealed max 230 HB
DYFOR	1.2344	H13	X40CrMoV5-1	Annealed max 230 HB
Hardened steels for frame				
DYHAMMER	1.2714	L6	56NiCrMoV7	QT 360 - 390 HB
DYREADY	1.2311	P20	40CrMnMo7	QT 280 - 300 HB
DYREADY S	1.2312	P20 + S	40CrMnMOS 8 6	QT 280 - 300 HB
DYLIGHT	1.2738	--	--	QT 290 - 330 HB



Cold Work Steels are used for stamping, drawing tools and in many other applications. They provide the best performance in the phases of cutting, blanking, fine blanking, bending and drawing.



DY®SS	DIN	AISI	UNI	HARDNESS
DYC45	1.1730	1045	C45	N
DYREADY	1.2311	P20	--	QT 280 - 320 HB
Proterial SLD MAGIC™	Original	--	--	Annealed max 220 HB
DYSTAR	1.2343	H11	X37CrMoV5-1	Annealed
DYFOR	1.2344	H13	X40CrMoV5-1	Annealed
DYCULT	1.2080	D3	X205Cr12KU	Annealed
DYHARD	1.2379	D2	X155CrVMo12	Annealed
DYJUST	1.2842	O2	90MnCrV8	Annealed
DYFLEX	1.2767	--	X45NiCrMo4	Annealed

STM PULVERSTAHL offering „Engineered Solutions“ to manufacturers that reduce downtime, increase productivity and, therefore, reduce part costs.

Our combined team has experience in the distribution of high-performance tooling materials. STM PULVERSTAHL has developed the premier global supply chain to offer our customers the best value proposition in the business for „Engineered Solutions“. STM PM tool steels are manufactured to strict quality specifications. Our quality, when combined with renowned service levels, make STM the first choice for high performance tooling applications.



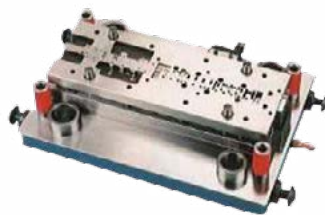


DY®COLD

Cold Work Tool Steel - PM Steel

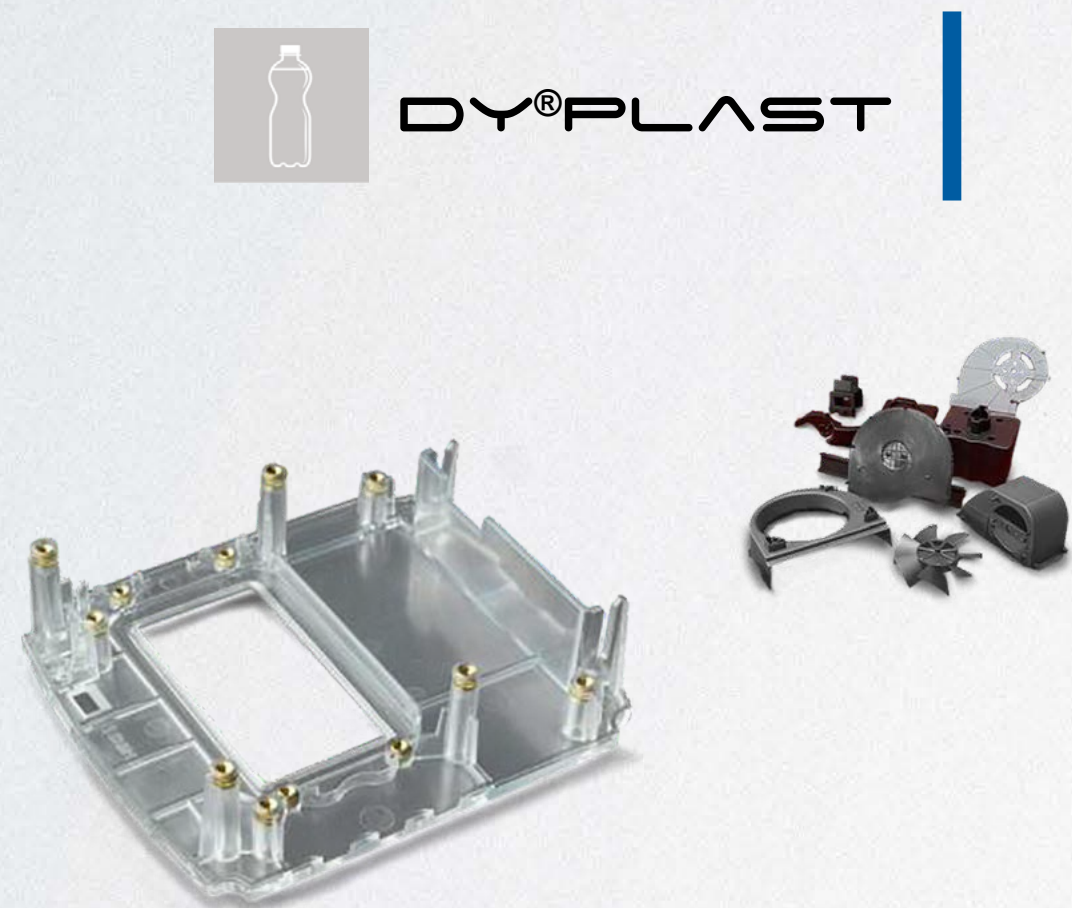


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STM Pulversthal	DIN	C	Cr	W	Mo	V	Co
ACCIAI PRODOTTI CON LA METALLURGIA DELLE POLVERI							
SPM23	HS6-5-3	1,30	4,00	6,00	5,00	3,00	--
SPM30	HS6-5-3-8	1,30	4,00	6,00	5,00	8,50	--
SPM60	HS6-7-6-10	2,30	4,00	6,00	7,00	6,50	10,50
S8V	--	0,50	8,50	--	1,50	0,70	--
SPM5Co	--	0,32	3,00	--	2,90	0,60	5,10
SPM9	--	1,80	5,00	--	1,40	9,00	--
SPM10	X245VCrMo10-5-1	2,50	5,00	--	1,40	10,00	--
SPM450V	--	1,90	20,00	0,20	1,00	4,00	--
SPM150	--	1,50	4,00	12,50	0,90	5,00	4,80





Injection Molding Steels are high-performance steel that are able to provide many advantages: pressure resistance, corrosion and wear resistance and high brightness. The moulds are very resistant and they can tolerate the most demanding mechanical and thermal stress of plastic injection moulding industry.



DY®SS	DIN	AISI	UNI	HARDNESS
DYC45	1.1730	1045	C45	N
DYREADY	1.2311	P20	--	QT 280 - 320 HB
DYREADY S	1.2312	P20 + S	--	QT 280 - 320 HB
DYLIGHT	1.2738	--	--	QT 290 - 330 HB
DYLIGHT HH	1.2738 Mod HH	--	--	QT 330 - 360 HB
DYJOB	--	--	42CrMo4	QT 280 - 300 HB
DYSTAR GOLD	1.2343 ESR	H11	X37CrMoV5-1	Annealed
DYFOR IQ	1.2344 ESR	H13	X40CrMoV5-1	Annealed
DYEXTREME IQ	1.2083 ESR	420	X42Cr13	Annealed
DYHARD	1.2379	D2	X155CrVMo12	Annealed
DYFLEX	1.2767	--	X45NiCrMo4	Annealed
DYEXTRA	1.2085	--	X33CrS16	QT 290 - 330 HB





Our  
reference  
Succesfull  
experience with:





# Customer experience

Our service,  
your advantage

As we believe our customers deserve the best, we want to lead us on a voyage to excellence and continuous improvement. Our mission is to become the main reference in Specialty Tool Steels industry in Italy and abroad, applying our personal values: innovation, integrity, professionalism and team work.





# Promoting our power

Advanced  
Die Steels

Hitachi Metals  
has now become  
**PROTERIAL**



# Promoting our power

Advanced  
Die Steels for  
Die Casting

Hot Wear Resistance - Thermal fatigue

For high performance Service

## Advanced Metals Stable Performance

**Proterial  
YXR55**

Work Hardness  
Range 46 - 56 Hrc

**Proterial  
DAC MAGIC™**

Work Hardness  
Range 44 - 54 Hrc

**Proterial  
DAC I™**

Work Hardness  
Range 44 - 52 Hrc

**Proterial  
DAC**

**Proterial  
DAC P**

**Proterial  
DAC S™**

Work Hardness  
Range 44 - 52 Hrc

**1.2343 ESR**

**DYSTAR GOLD**

Work Hardness  
Range 44 - 52 Hrc

**1.2343**

**DYSTAR**

Work Hardness  
Range 38 - 52 Hrc

Standard Metals Stable Performance

Toughness







#### Head Office

Via Benaco 86  
25081 Bedizzole - Brescia - Italia

#### Warehouse & Stock

Via Benaco 86  
25081 Bedizzole - Brescia - Italia

#### Contacts:

Tel. +39 030 67 44 50

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[www.csmetaleurope.com](http://www.csmetaleurope.com)

[www.dycasting.it](http://www.dycasting.it)



Organizzazione con Sistema di Gestione certificato ISO 9001

nr. di registrazione 2117013

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