

CASTEC 
helps you to improve your production

Confidential

Products :



Core Pin / Insert / Sprue & Bush

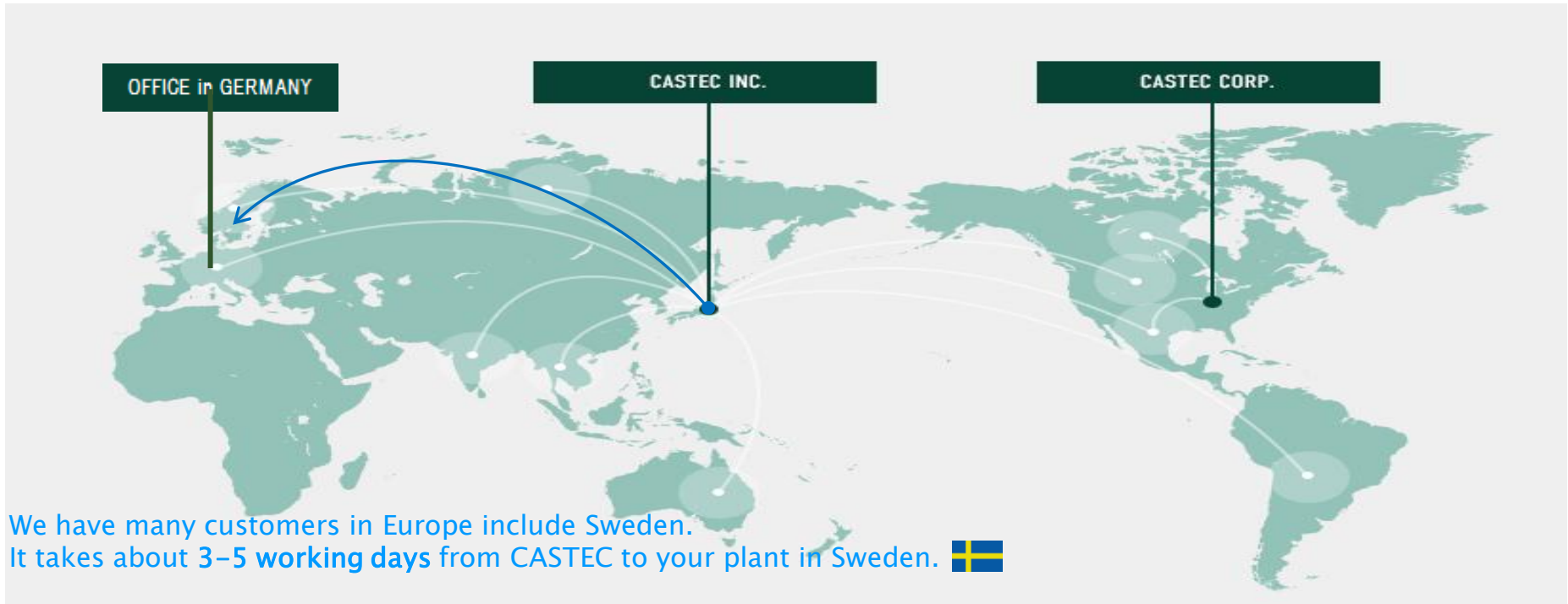
We manufacture core pin 42000 pieces , insert and sprue & bush 100 pieces each per month.

If you have any problem with core pins, inserts or Sprue & Bush , please contact us.

Also We are able to deliver cooling pipe and accessories with core pin.



Location :



CASTEC inc.
Head Office and Plant-1



CASTEC inc.
Plant-2



CASTEC inc.
Plant-3



CASTEC corp.
Office and Plant

We have been highly evaluated by many customers in Japan and overseas, including those in Europe and Sweden, and currently support die casting production for customers in more than 25 countries around the world.

3D printing parts

With 3D printer, we can design cooling structures freely for die mold parts.

Materials:

- Maraging steel(EOS MS1)
- H13 Improved steel (Daido Steel HTC45)
- Hybrit Structure (The base with H13 to reduce cost.)



EOS M290
Max size:250*250*300



EOS M300-4
Max size:300*300*360

Castec high precision cooling holes :

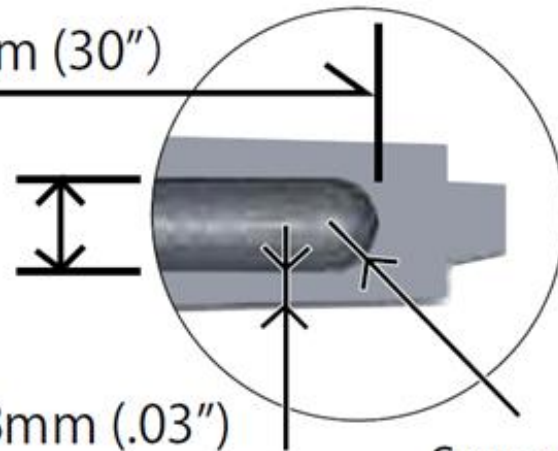
CASTEC Cooling Hole Core Pins



200mm length core pin
194mm long 3.5mm dia. cooling hole
Cascoat (PCVD-TiN coating)

$\phi 6.1 \sim 16.1 \text{mm} \times$ Length up to **750mm** (30")

Cooling hole diameter as small as
 $\phi 1.5 \text{mm}$ (.06") \times length 280 mm



Wall thickness as thin as **0.8mm** (.03")

Smooth **SR**

e.g.)
Dia.1.5 x Max. depth 280,
Dia.2.5 x Max. depth 550,
Dia.3.0 x Max. depth 700.

Surface treatment :

Arrange all special coatings available.

*News : New coating “STELLA coat” just developed and released.

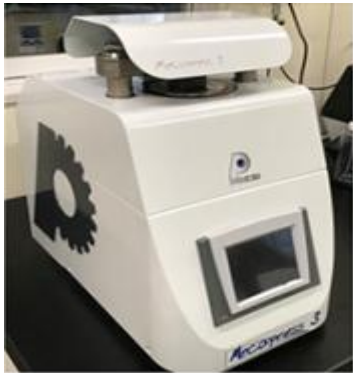


■ Main Coating (Surface Treatment) Types

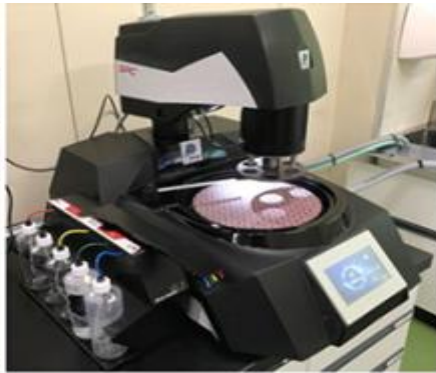
	Designation	Color	Treatment method	Chemistry	Treatment temperature	Heat resistance temperature	Surface hardness (HV)	Coating thickness (μ)	Characteristics							
									Wear resistance	Heat resistance	Seize resistance	Erosion resistance	Corrosion resistance	Adhesion	Mold releasability	Fatigue resistance
1	Cascoat	Gold	PCVD	TiN	550	600	2000~2400	2~4	✓			✓		✓		
2	TIAISiCNO	Violet	PCVD	TIAISiCNO	550	900	2200~3000	2~5	✓	✓	✓	✓		✓	✓	✓
3	CrN	Colorless	PVD	CrN	350	700	1750	2~5	✓	✓			✓		✓	
4	TiN	Gold	PVD	TiN	350	600	2300	2~5	✓							
5	TiAlN	Violet	PVD	TiAlN	500	800	3300	2~5	✓	✓						
6	LUMENA	Violet grey	PVD	TiAlN	450~500	900	3400	6~10	✓	✓	✓	✓				✓
7	LUMENA DUPLEX	Violet grey	PVD	Nitriding compound+TiAlN	450~500	900	3400	6~10	✓	✓	✓	✓		✓		✓
8	ALCRONA	Light grey	PVD	AlCrN	450~500	1100	3200	2~5	✓✓	✓	✓		✓			
9	ALCRONA DUPLEX	Light grey	PVD	Nitriding compound+AlCrN	450~500	1100	3200	2~5	✓✓	✓	✓		✓	✓		
10	ALCRONA MODIFY DUPLEX	Light grey	PVD	Nitriding compound+AlCrN	450~500	1100	3200	6~10	✓✓	✓	✓	✓	✓	✓		
11	FORMERA	Light grey	PVD	CrAlN	450~500	900	2800	6~10	✓✓	✓	✓	✓				✓
12	FORMERA DUPLEX	Light grey	PVD	Nitriding compound+CrAlN	450~500	900	2800	6~10	✓✓	✓	✓	✓		✓		✓

Technical Support Service & Inspection

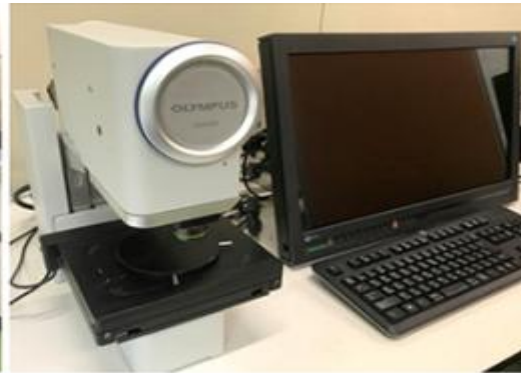
We will investigate the causes of short life for your pins and inserts.



Presi
Hot mounting press



Presi
Polishing machine



Olympus
Digit micro scope



Shimadzu
Micro vickers
hardness tester



Mitutoyo KEYENCE KARL DEUTSCH

Contact

CASTEC INC.

- ▶ Hanae Omori / omori@castec-inc.com
- ▶ Emiko Sano / sano@castec-inc.com
- ▶ +81-480-53-4349
- ▶ Web :
<http://www.castec-inc.com/en/>
- ▶ Web catalog :
<http://www.castecinc.com/en/catalog/top.html>
- ▶ Introduction movie :
<https://www.youtube.com/channel/UCYEnH7H5SzjVTIY8LY4Ao7A>

Castec Inc. aims to become the world leader in manufacturing made-to-order core pins and inserts for die cast molding. We started making core pins as part of the work of our Die Casting Mold Department, which was established in 1961, and we sold our core pins overseas for the first time in 1983. Since then we have received great praise from many customers both in Japan and overseas, and we currently support die casting production by customers in more than 25 countries around the world.

And in order to further enhance our supply structure, in 2011 we established a plant in the State of Indiana in the USA.

In 2022, we opened the office in Germany.

Leveraging our 45 years of experience as a die caster, we have achieved a level of quality and technology able to meet all of our customers' needs.

Going forward, we will continue to deliver Castec products to our globally dynamic customers regardless of which country they may be located in.

