

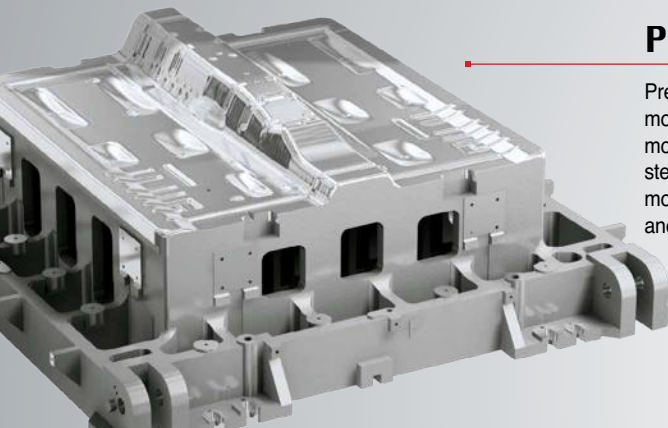


MOLD and DIE

TaeguTec
INDUSTRY 4.0

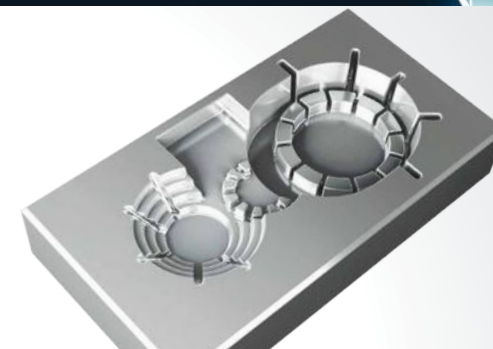
TaeguTec **MOLD and DIE** Industry Solutions

MOLD and DIE



PRESS DIE

Press dies are a metal forming process that installs special mold tools into a press machine that works in a linear reciprocating movement. The main materials used in press dies are grey cast iron, tool steel and carbon steel. TaeguTec's extensive experience in the mold and die industry and its plethora of tooling solutions can easily and quickly machine any material and shape no matter their complexity.



DIE CASTING

Die casting molds are made from low melting point metal alloys, such as aluminum, zinc and magnesium. With high-pressure, the materials are injected into a precision-shaped die, in order to make thin and lightweight precision metal molding. Die casting mold materials require exceptional strength, toughness and hardness to bear the severe conditions of high temperature and high pressure. TaeguTec offers powerful tools and superior expertise to effortlessly handle any project.

INJECTION MOLD

Injection molds are another form of die that can produce plastic molds. Initially, hot melt (or half melt) macromolecule (high polymer plastic resin) materials are injected with high pressure into an empty space between the core and cavity and then cooled to gain the desired plastic mold. The injection mold materials should be heat resistant with a low coefficient of thermal expansion. The molds should be uncomplicated for machining and thermal processing aspects. The composition of the molds includes mold bases, a core and additional parts. Until recently, the process only used plastics but now mold steels are more widely applied. TaeguTec's optimized solutions can easily cut cost and lead time without sacrificing quality and speed.



FORGING DIE

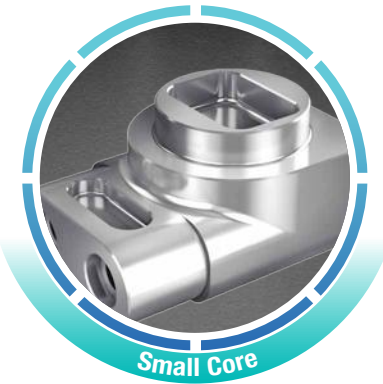
Forging dies are a mold process that shapes a workpiece by hammering or pressing. Most forging die materials must have strong thermal and mechanical resistance. In order to make forging dies, the forging materials are machined into a desired shape after being cast or forged and then worked through to the final process. TaeguTec's vast selection of tools and in-depth knowledge work to increase productivity, reduce inventory and cut costs.



RUBBER MOLD

Rubber molding uses different rubber materials made into a mold to develop the shape of the rubber workpiece by heat and press. The materials for molds may depend upon the rubber materials, quality and quantity produced. If the production run is a small quantity, structural carbon steel can be applied. In the case of producing uniform products for a longer period, hardened steel will be utilized. TaeguTec offers the products and professional solutions to increase profitability and production.

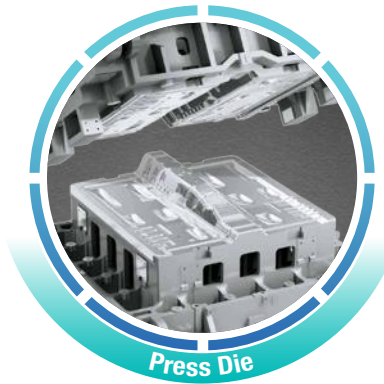
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Small Core



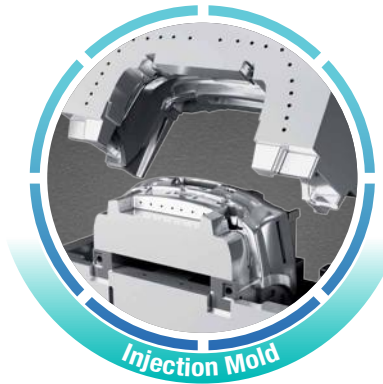
6-7
Small Core Machining



Mold Base



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Face Milling



Press Die



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Rough and Semi-finish
Profile Milling



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Finish Milling



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Rough Milling



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Finish Milling



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Typhoon
(High-speed spindle)

Small Core Machining

Small Core



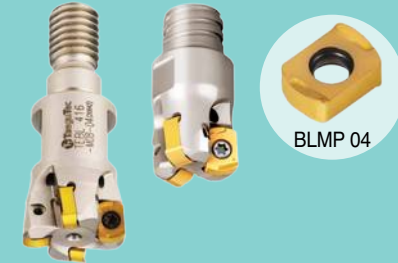
Milling 01/02

MILLSPEED
Mini sized 90° shoulder milling
with strong V-bottom inserts
- Cutter diameter: Ø6 - Ø14



CHASE4FEED

Versatile high feed milling with
strong 4 cutting edge inserts
- Cutter diameter: Ø8 - Ø21



NANRUSH

High feed milling with
nano sized inserts
- Cutter diameter: Ø6 - Ø8



MILLRUSH

Multi-tooth 90° shoulder milling with
small helical triangular inserts
- Cutter diameter : Ø8 - Ø16

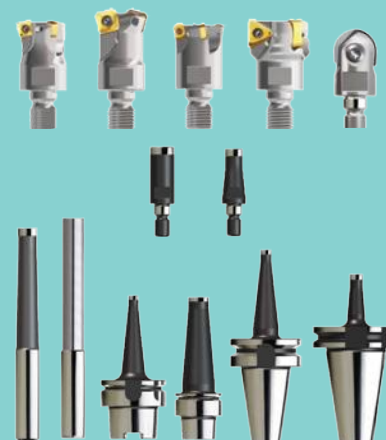


CHASE4MILL

90° shoulder milling and 4 cutting edge inserts
with high ramping capability
- Cutter diameter : Ø8 - Ø40

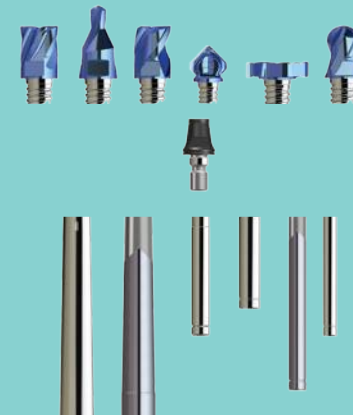


TFLEXTEC



MAXIRUSH

Hea-changeable solid carbide end mill



Drilling 03

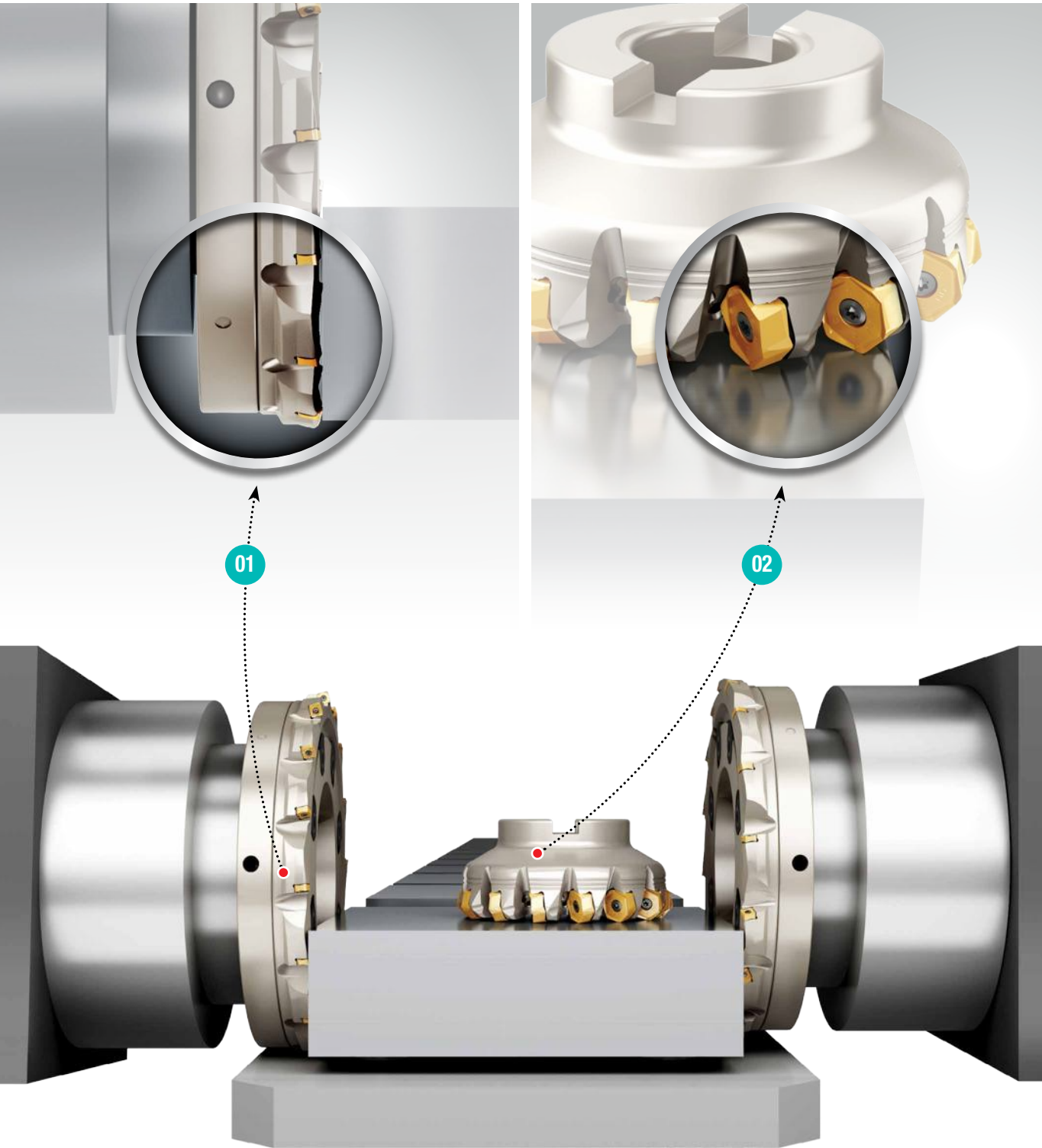
SOLID3DRILL

3 flute solid carbide drill



Face Milling

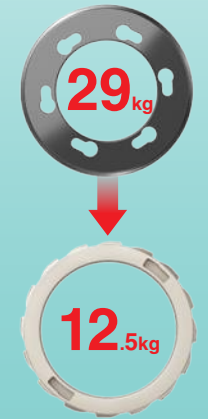
Mold Base



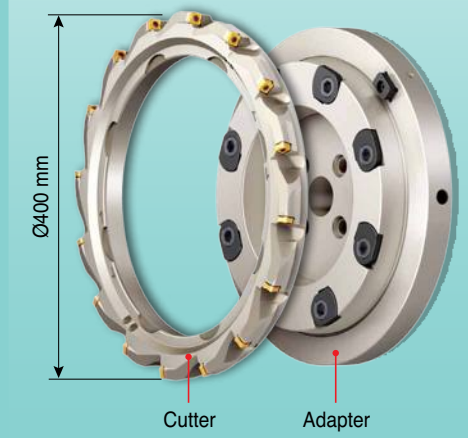
Quick Change System

01

Lighter
Less than half the weight



Quicker
Simple & user-friendly clamping system



Safer
Lighter cutter protects users



CHASE2QUAD
High feed rough and finish milling



For Large Diameter Cutters



Bottom Face Milling

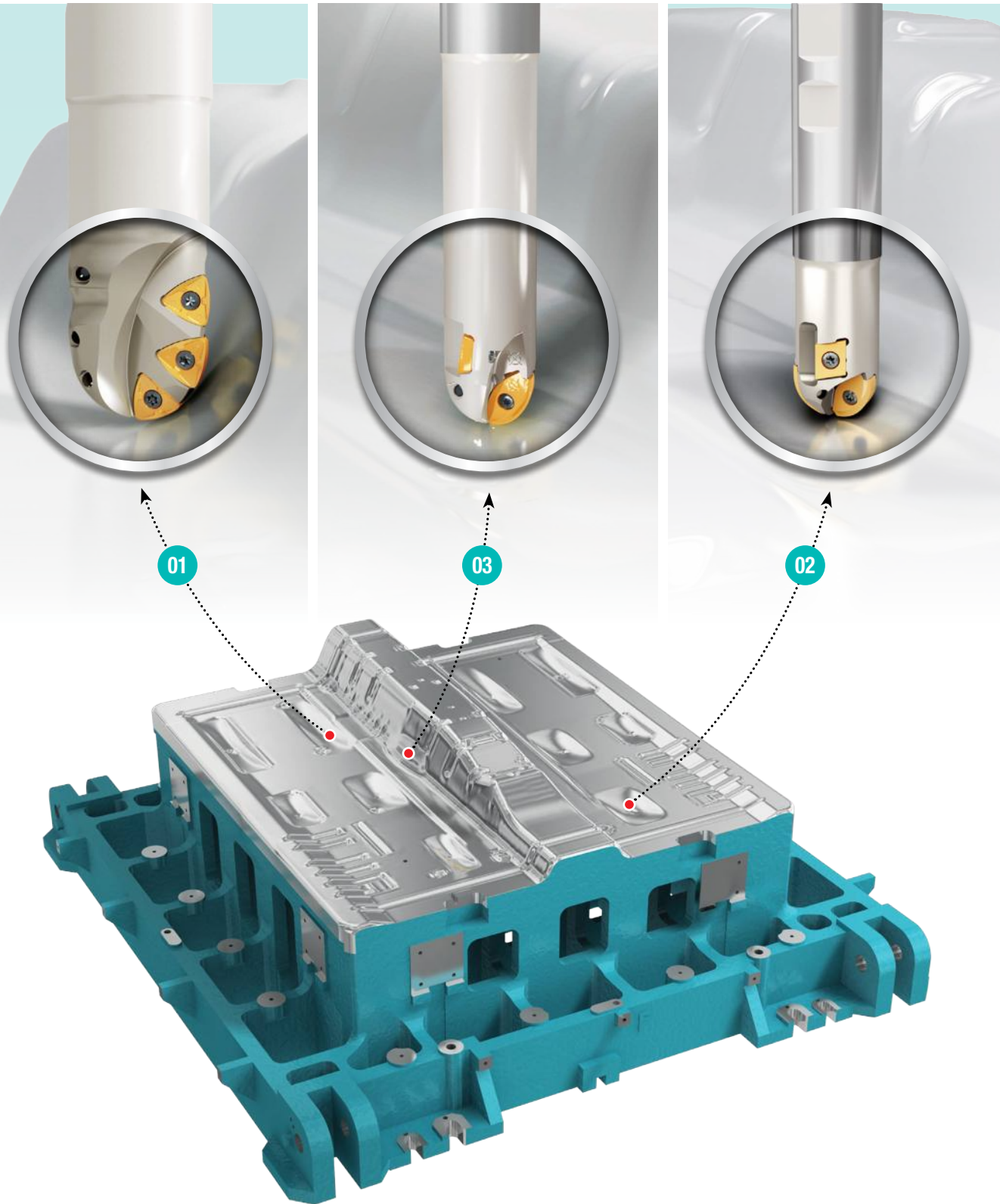
02

CHASE12MILL
Entering angle 45° face milling with 12 cutting edge inserts



Rough and Semi-finish Profile Milling

Press Die

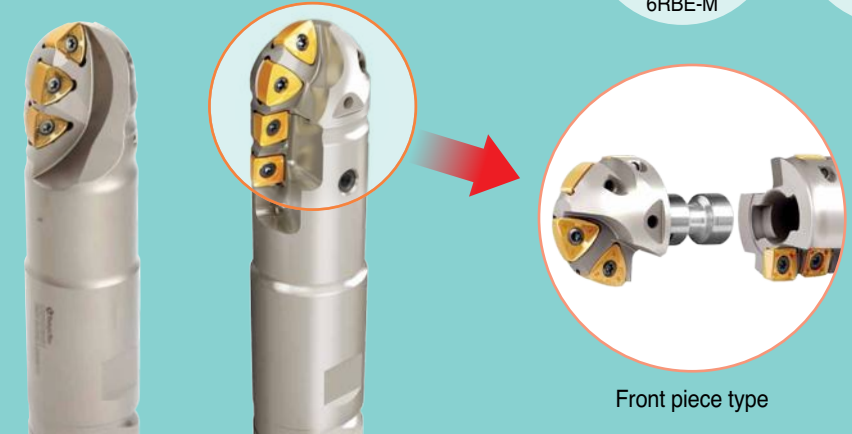


Rough Profile Milling

01

CHASE2BALL

Optimized double-sided inserts for rough profile milling
- Cutter diameter: Ø50



02

TRIOBALL

Triple feed rates for rough and medium profile milling
- Cutter diameter: Ø32, Ø50



Semi-finish Profile Milling

03

DUETBALL

An excellent choice for rough and semi-finish profile milling
- Cutter diameter: Ø16 - Ø32



Finish Milling

Press Die

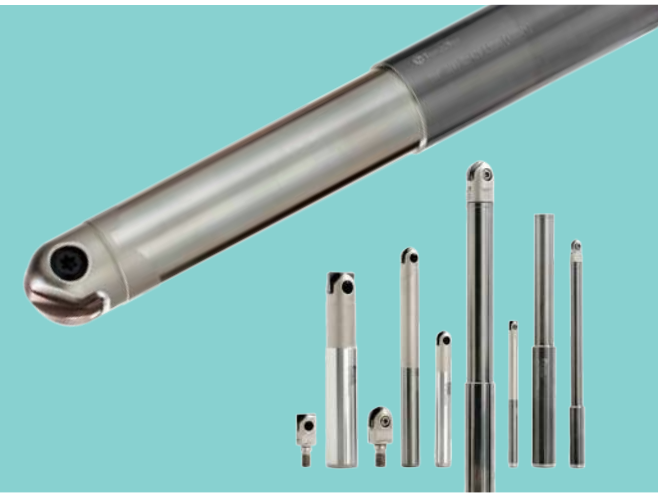


Semi-finish and Finish Milling

01

FINEBALL

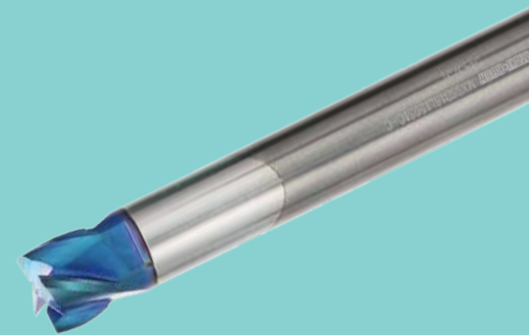
Accurate profile milling
- Cutter diameter: Ø6 - Ø32



02

MAXIRUSH

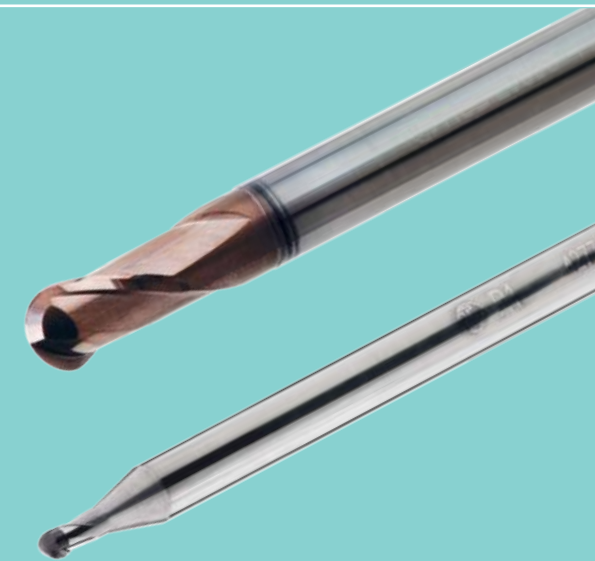
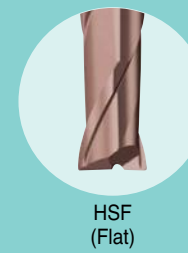
Head-changeable type solid end mill



03

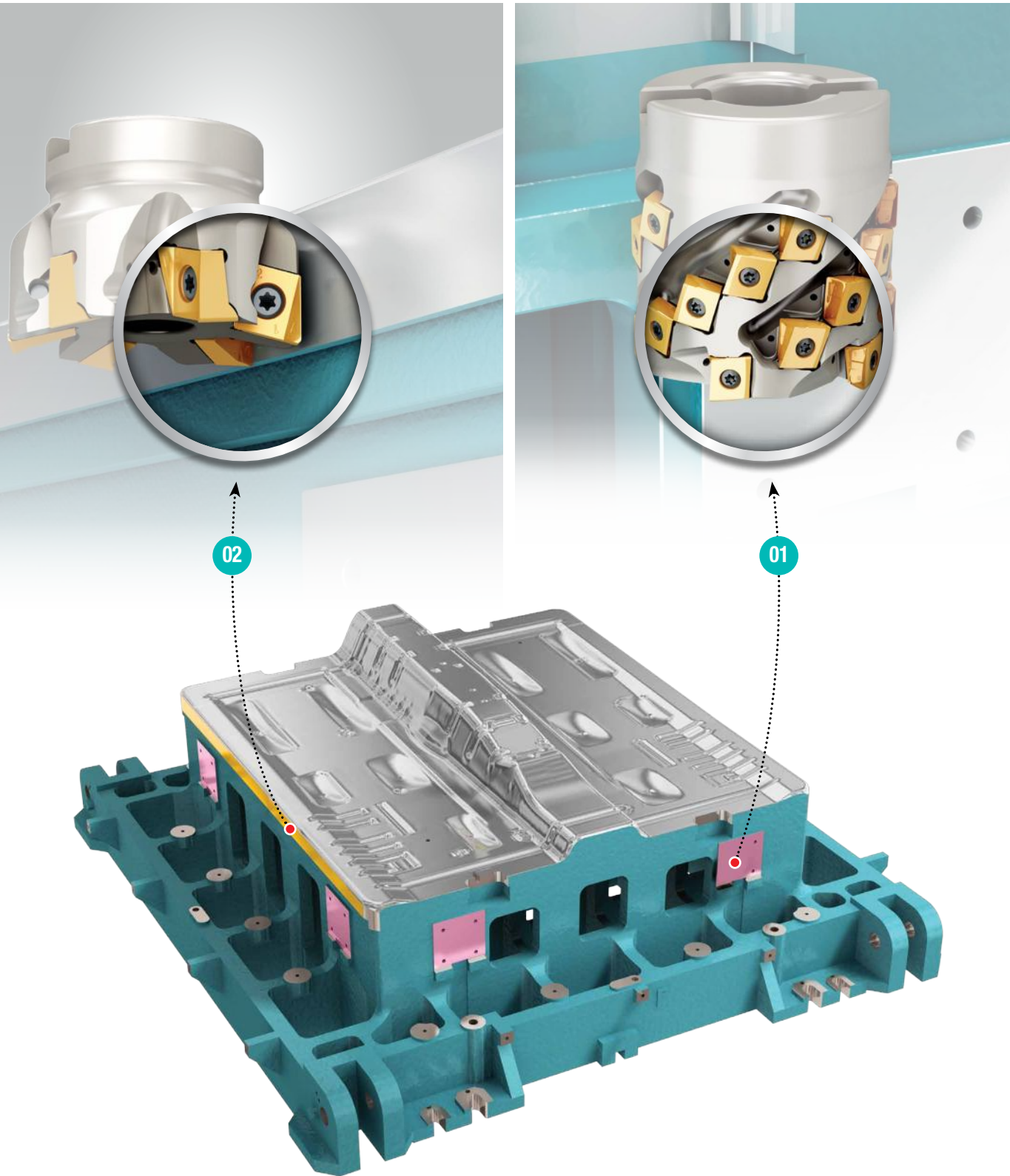
HARDMILL

Solid carbide end mill for hardened steel



Peripheral Milling

Press Die



Peripheral Milling

01 High productivity milling solution

MILLRUSH



TANGSPEED



CHASEMILL



Boss Face and Side Milling

02

MILLRUSH

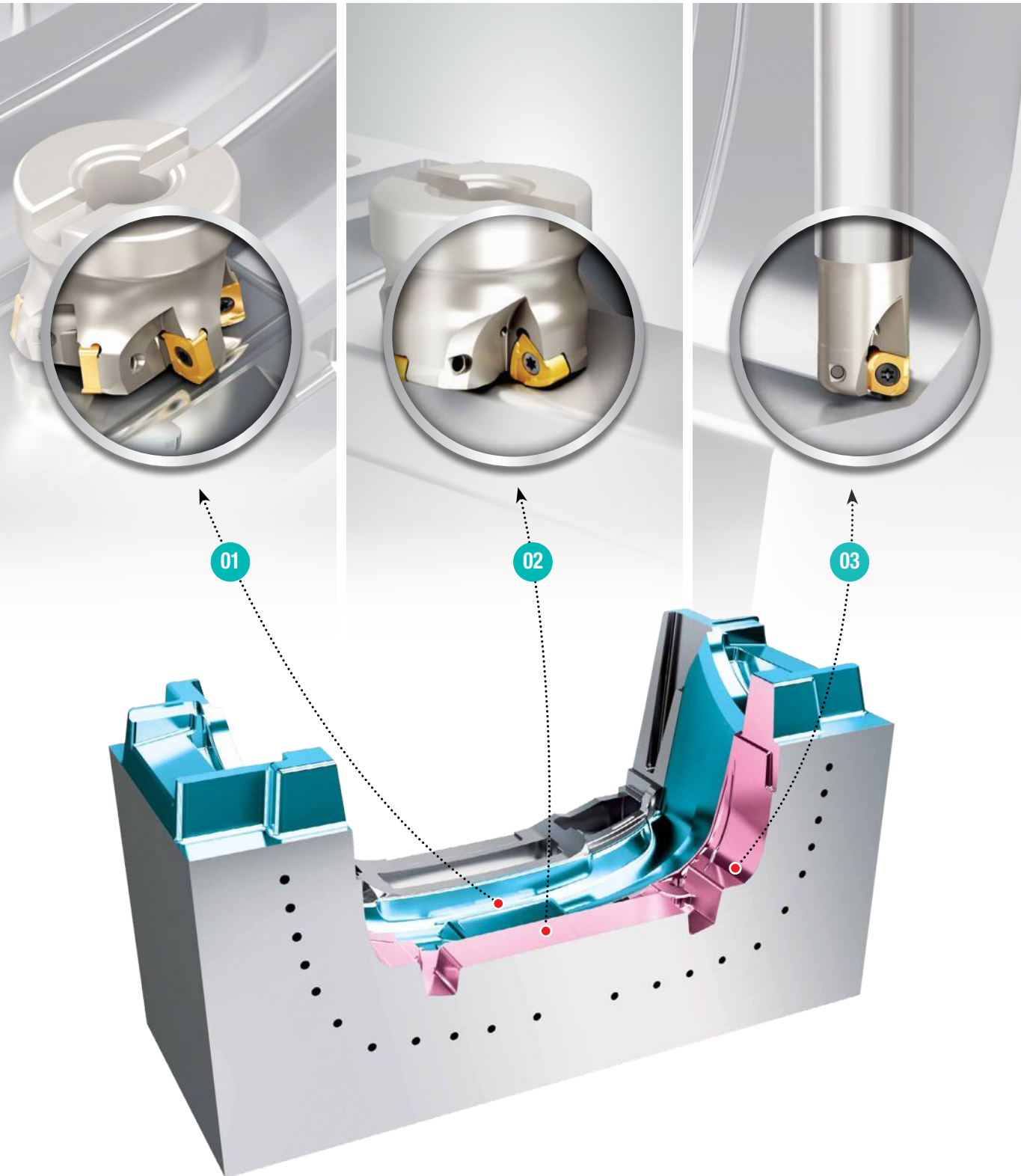
Super high positive insert with 3 cutting edges



CHASE4MILL

90° shoulder milling with 4 cutting edge inserts for better surface finish





Rough Milling - High feed 01/02

CHASE4FEED

Versatile high feed milling with strong 4 cutting edge inserts



CHASE2FEED

High feed milling with strong 6 cutting edge inserts



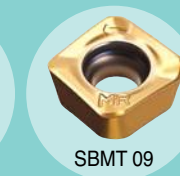
CHASEFEED

High feed milling with smooth cutting

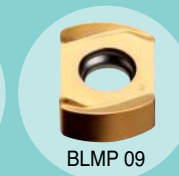
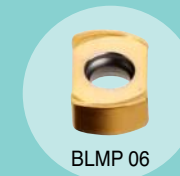


Rest Rough Milling - High feed 03

CHASEFEED



CHASE4FEED



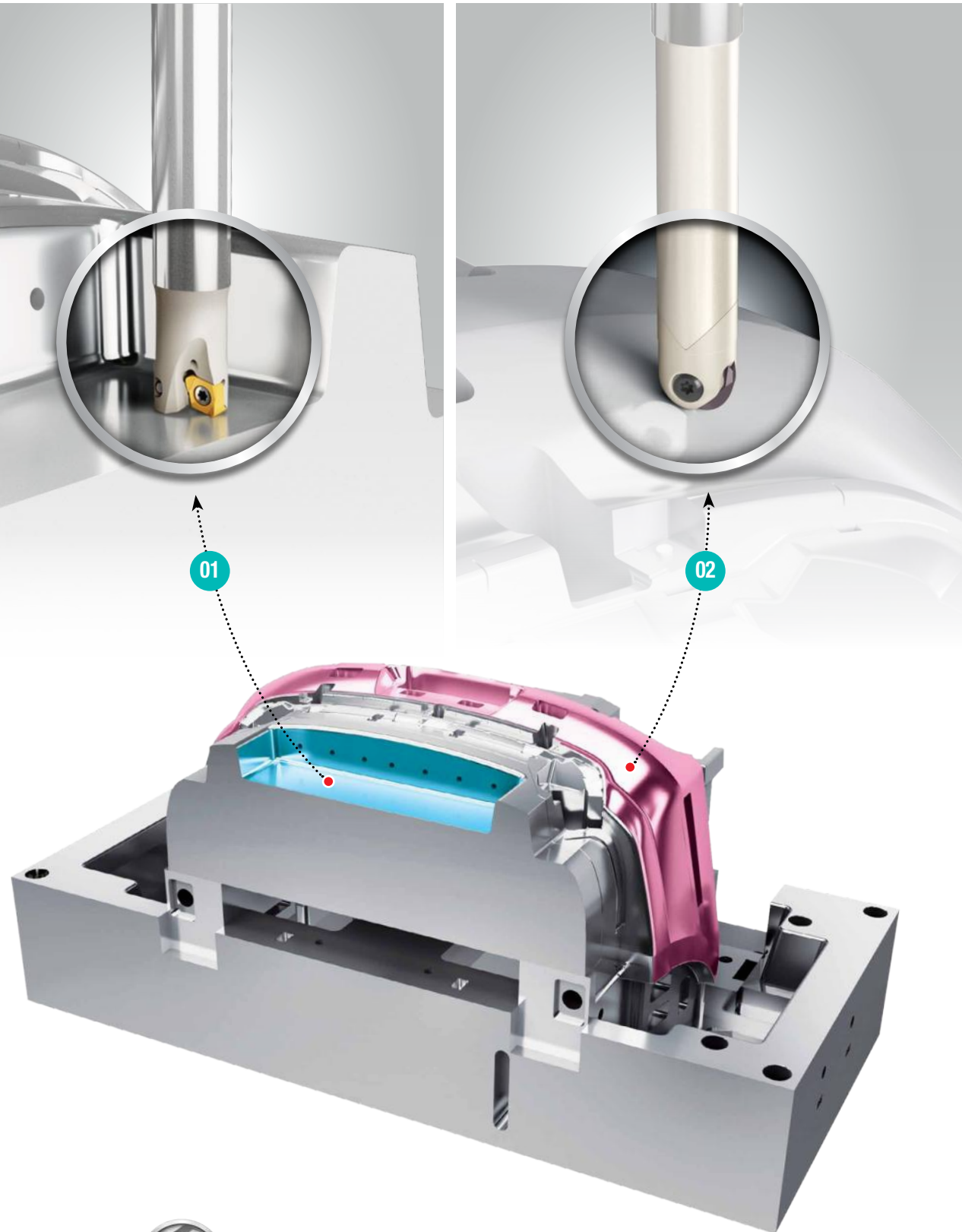
CHASE4MILL

High feed and high ramping capability with 4 large corner radius inserts



Semi-finish and Finish Milling

Injection Mold

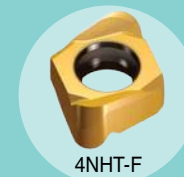


Semi-finish Milling

01

CHASE4MILL

Semi-finish 90° shoulder milling with excellent surface-finish and high feed milling with 4 large corner radius inserts



DUETBALL

An excellent choice for profile milling



Finish Milling

02

FINEBALL

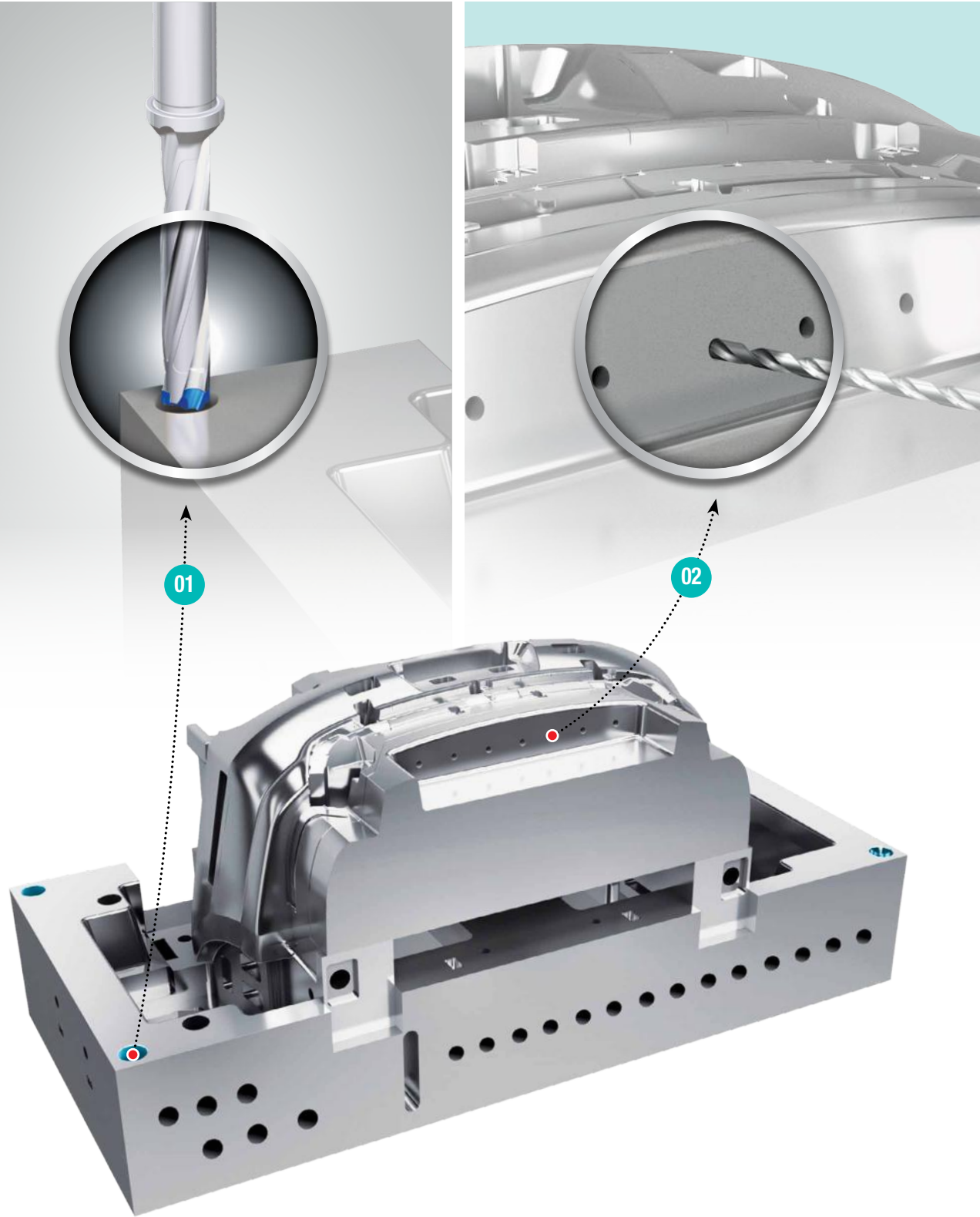
Accurate profile milling
- Cutter diameter: Ø6 - Ø32



HARDMILL

High-performance solid carbide end mill for high-speed milling





Drilling

01

TOPDRILL

New generation of indexable drill



MODURDRILL

Unique modular system for various drilling diameters and depths



DRILLSPEED

Head-changeable 3 flute drill for higher productivity



TMREAM

Head-changeable reamer for high-speed reaming



Deep Hole Drilling

02

HDRILL

Solid carbide long drill with coolant hole



TDEEP

New indexable gun drill with unique trigonal inserts



High-speed spindle driven by high-pressure coolant for small diameter tools



Coolant pressure [bar] operating range: 20 - 40
 Rotational spindle speed [RPM]: 35,000 - 55,000
 Tool diameter [mm]: Up to Ø3.5 (shank Ø7)



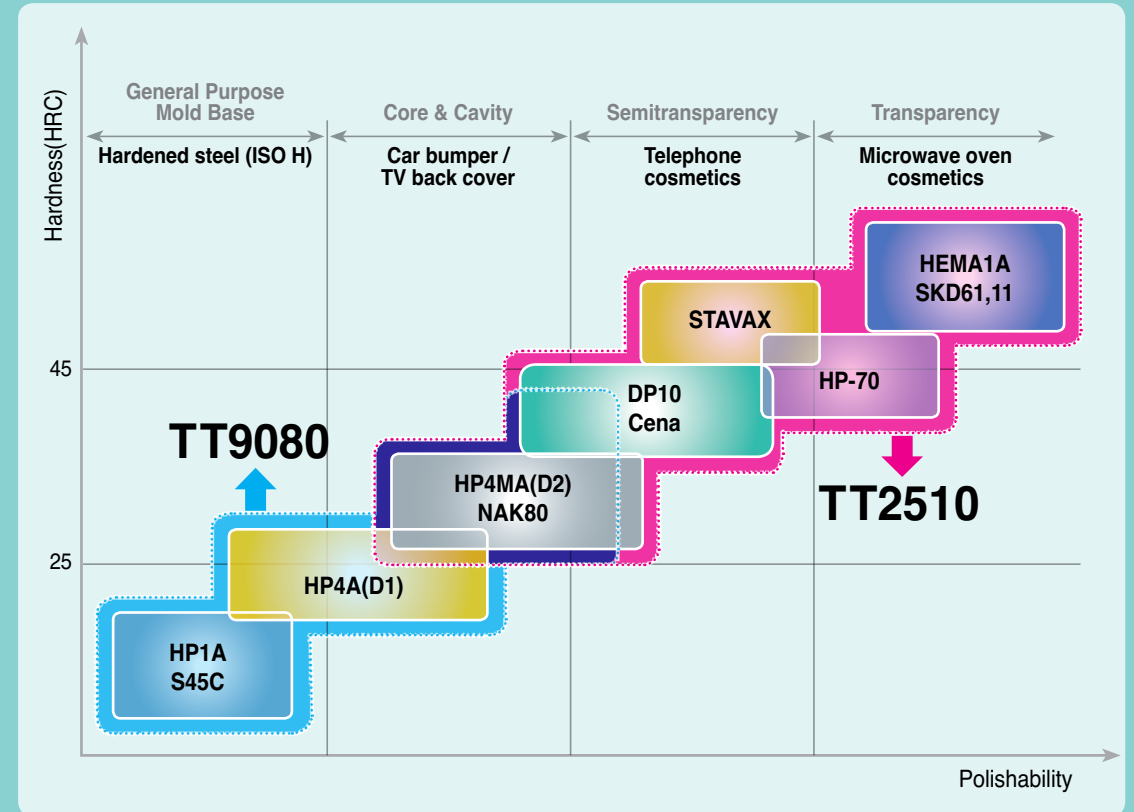
Coolant pressure [bar] operating range: 40 - 70
 Rotational spindle speed [RPM]: 25,000 - 45,000
 Tool diameter [mm]: Up to Ø4.0 (shank Ø7)

* More powerful

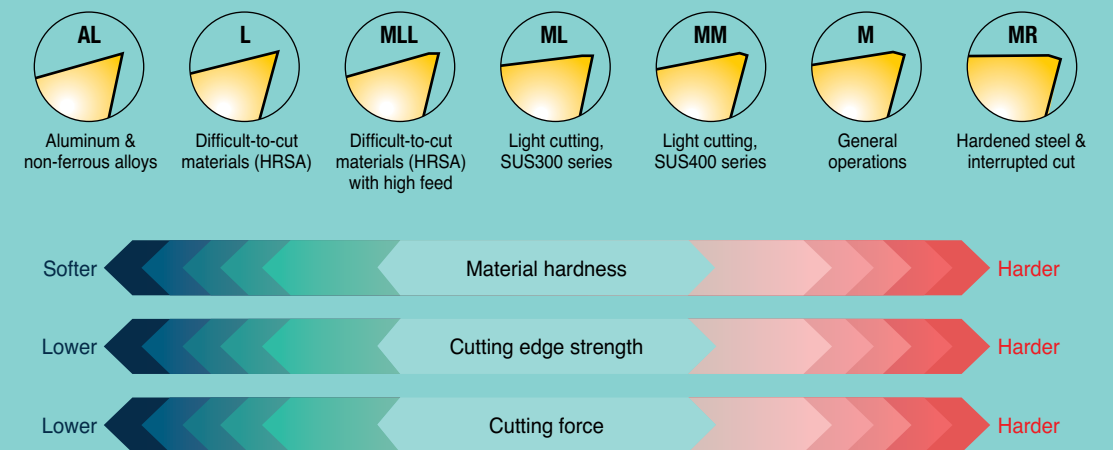


Grades and Insert Geometry

Milling Insert Grades for Die Steel



Milling Inserts Geometry Selection



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- Cat.No: 6234952
- English Version: CT 06/2021
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