



Mold and Die

MOLD and DIE

TaeguTec **INDUSTRY 4.0**

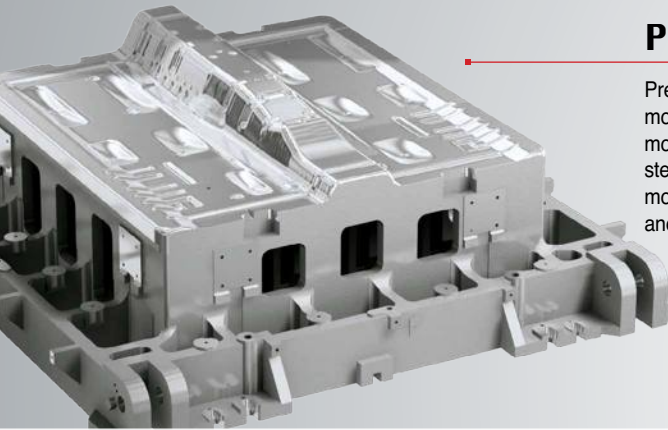
TaeguTec **MOLD and DIE** Industry Solutions

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.



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.





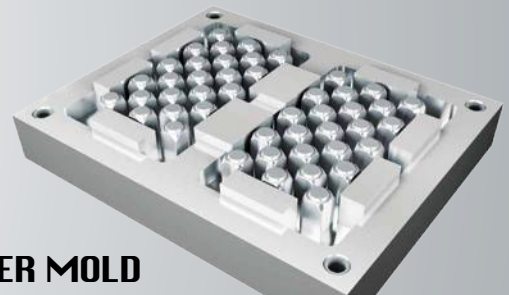
DIE CASTING

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.



FORGING DIE

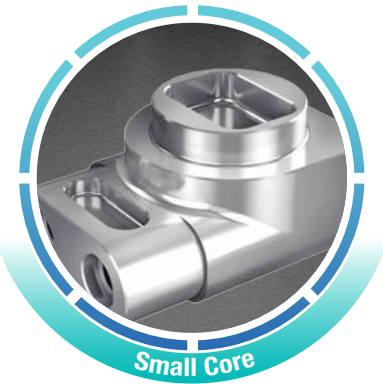
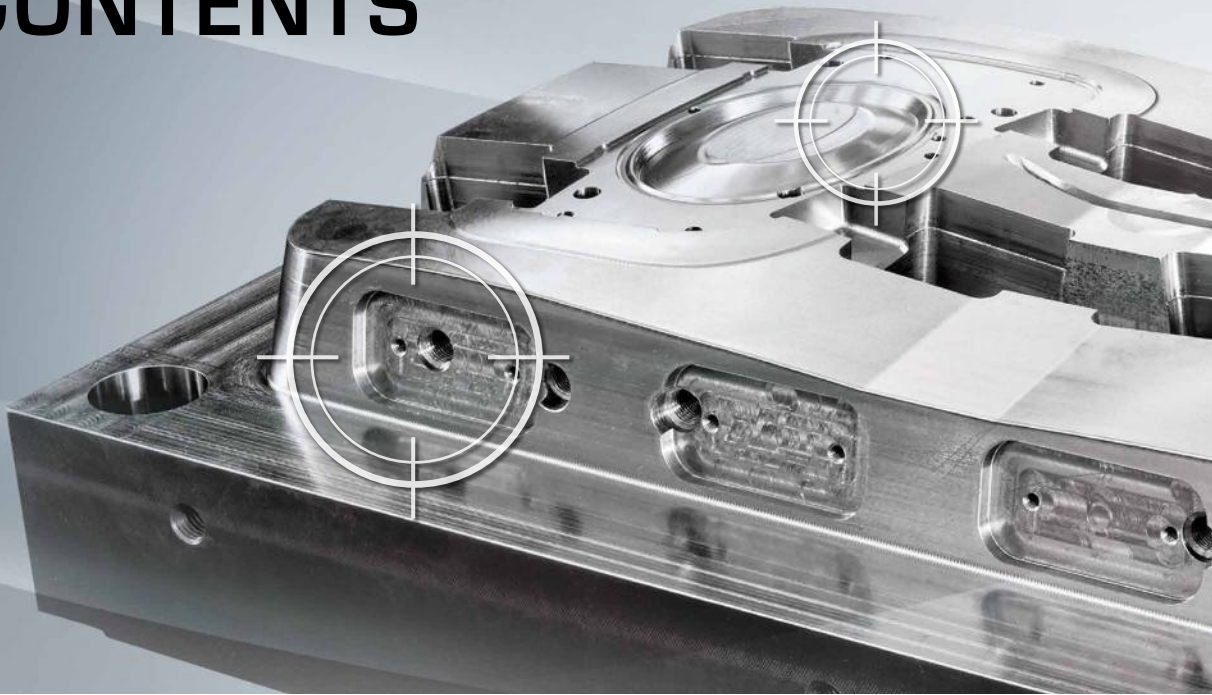
Forging dies are a mold process that shapes a workpiece by hammering or pressing. Most forging die materials must have strong thermal and mechanical resistance. In order to make forging dies, the forging materials are machined into a desired shape after being cast or forged and then worked through to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



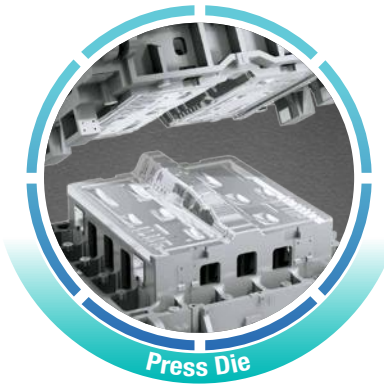
RUBBER MOLD

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.

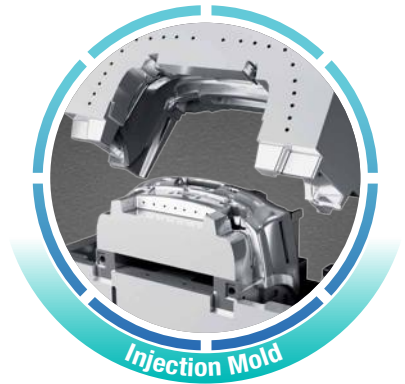
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Small Core



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Small Core Machining



Milling 01/02

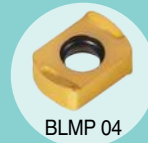
MILLSPEED

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



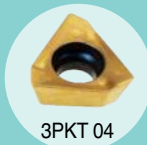
NANRUSH

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

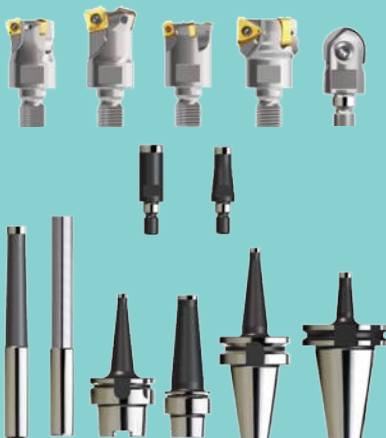


CHASE4MILL

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

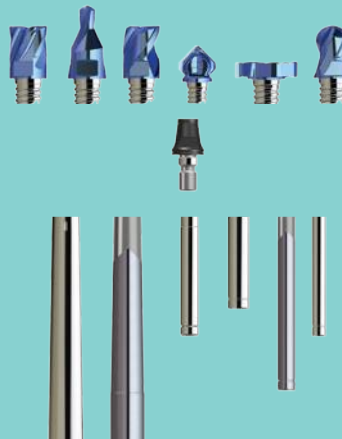


TFLEXTEC



MAXIRUSH

Hea-changeable solid carbide end mill



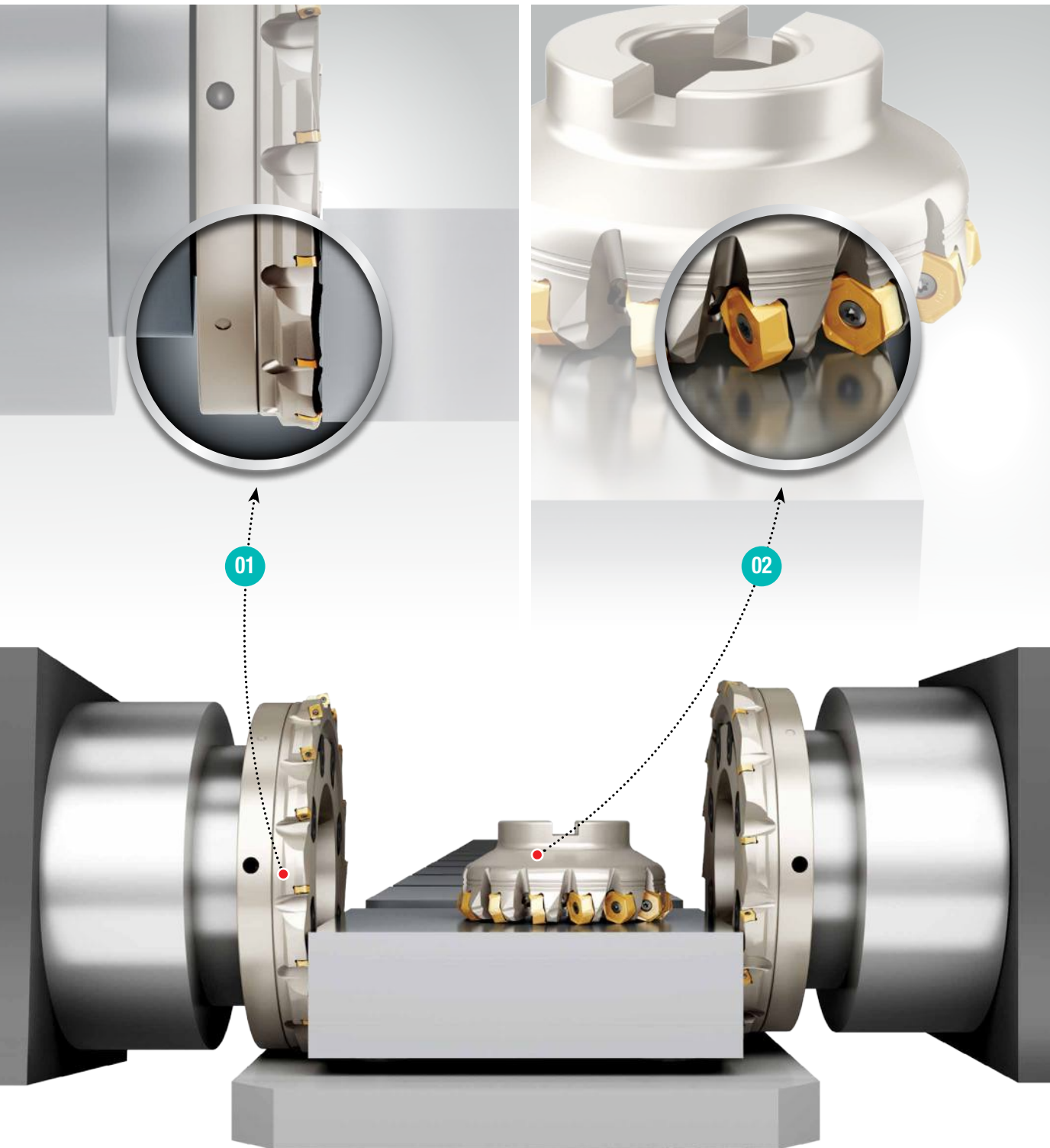
Drilling 03

SOLID3DRILL

3 flute solid carbide drill



Face Milling



Quick Change System

01

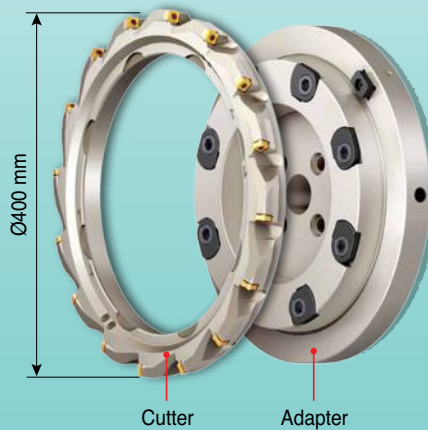
Lighter

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



SNMX-M

Bottom Face Milling

02

CHASE12MILL

Entering angle 45° face milling with 12 cutting edge inserts

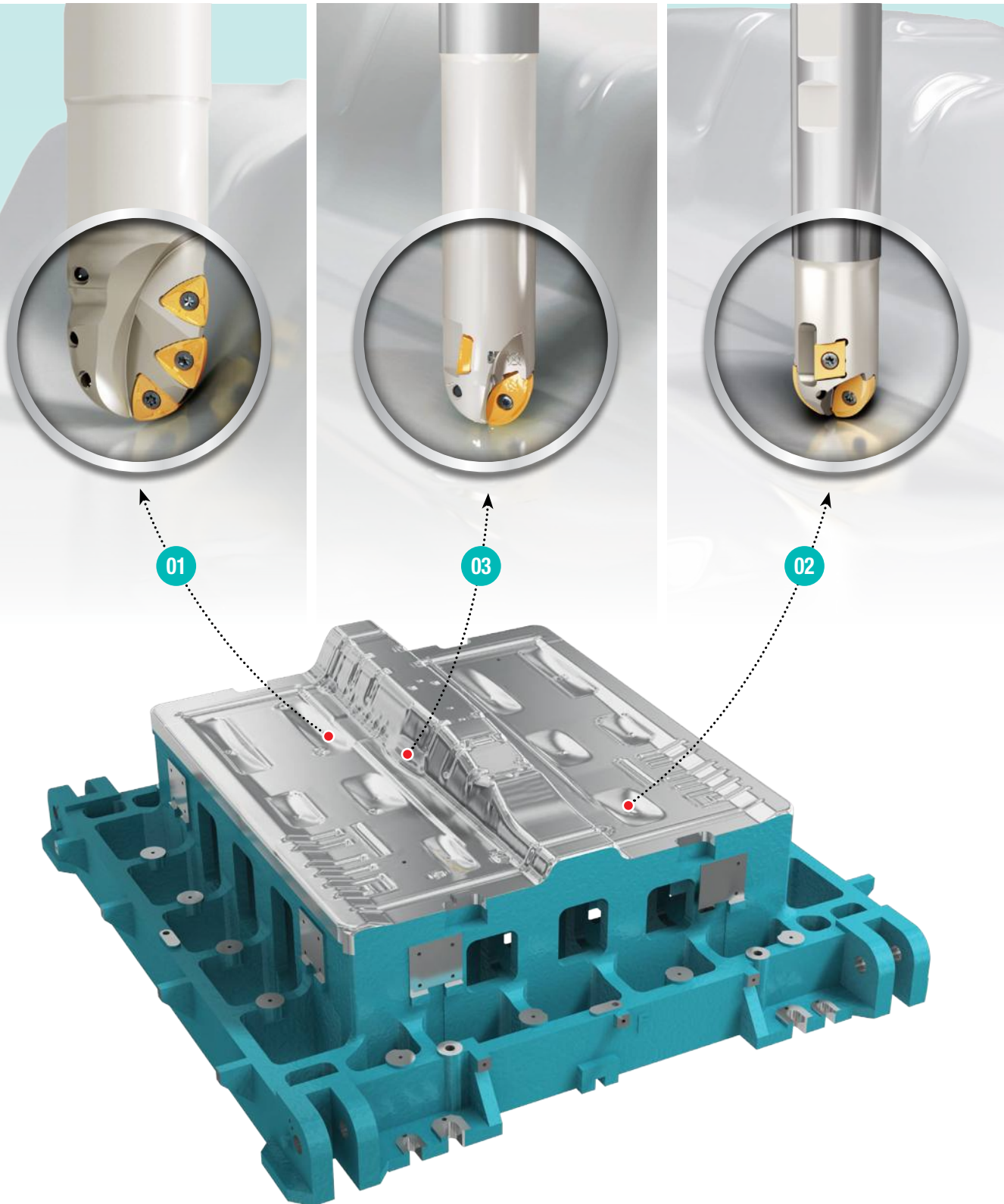


HXKU-M



HXHU-MM

Rough and Semi-finish Profile Milling

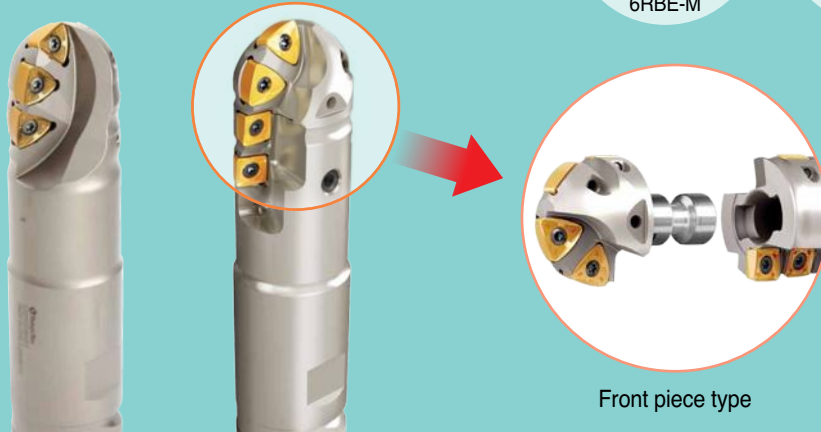


Rough Profile Milling

01

CHASE2BALL

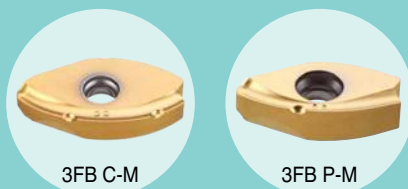
Optimized double-sided inserts for rough profile milling
- Cutter diameter: Ø50



02

TRIOBALL

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

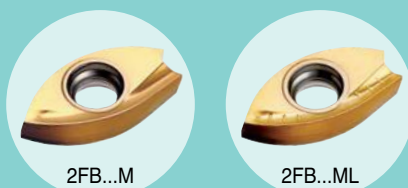


Semi-finish Profile Milling

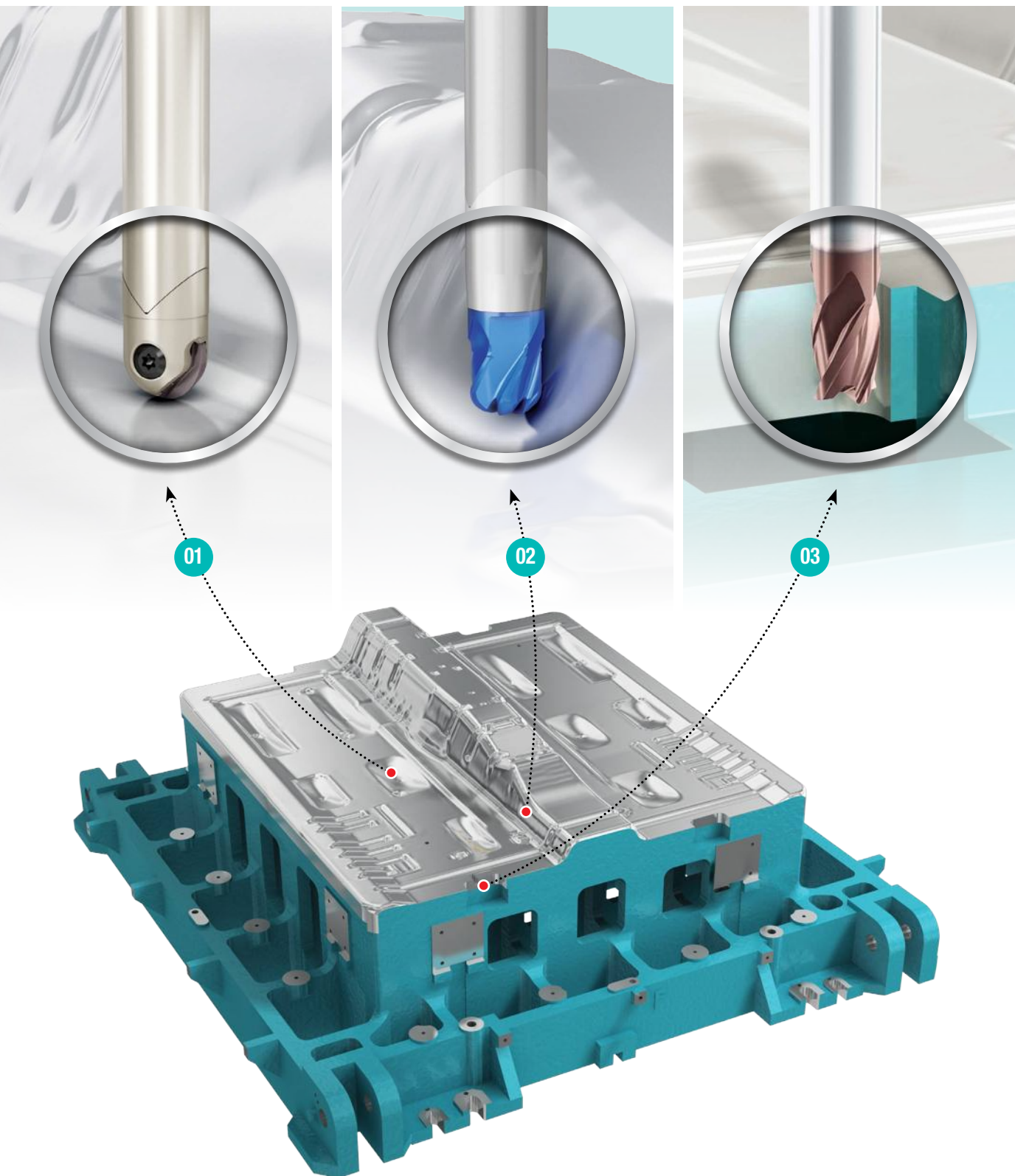
03

DUETBALL

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



Finish Milling

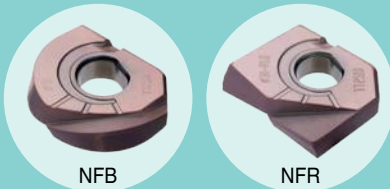


Semi-finish and Finish Milling

01

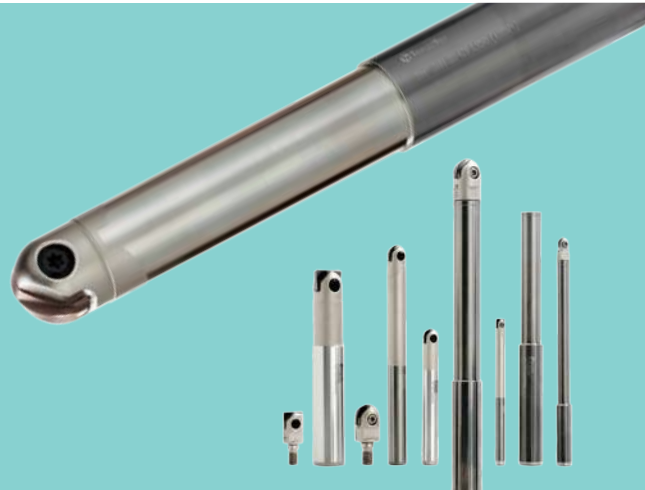
FINEBALL

Accurate profile milling
- Cutter diameter: Ø6 - Ø32



NFB

NFR



02

MAXIRUSH

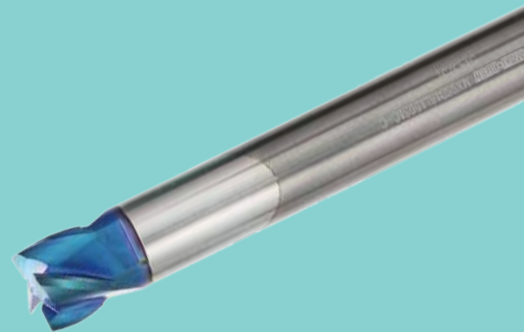
Head-changeable type solid end mill



MXEE
(Flat)

MXEE
(Corner 'R')

MXBD
(Ball)



03

HARDMILL

Solid carbide end mill for hardened steel

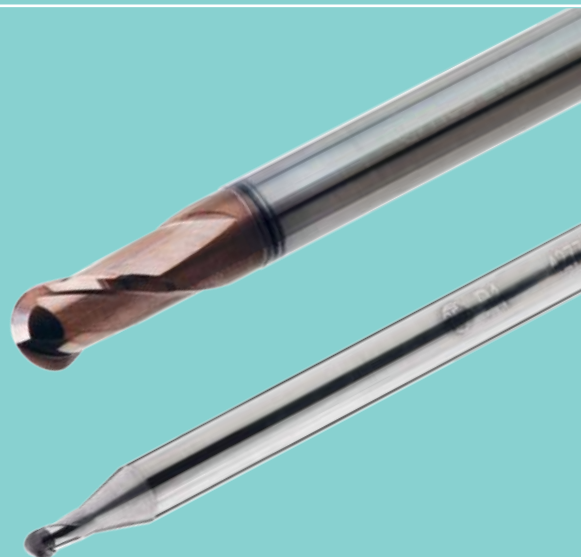


HSF
(Flat)

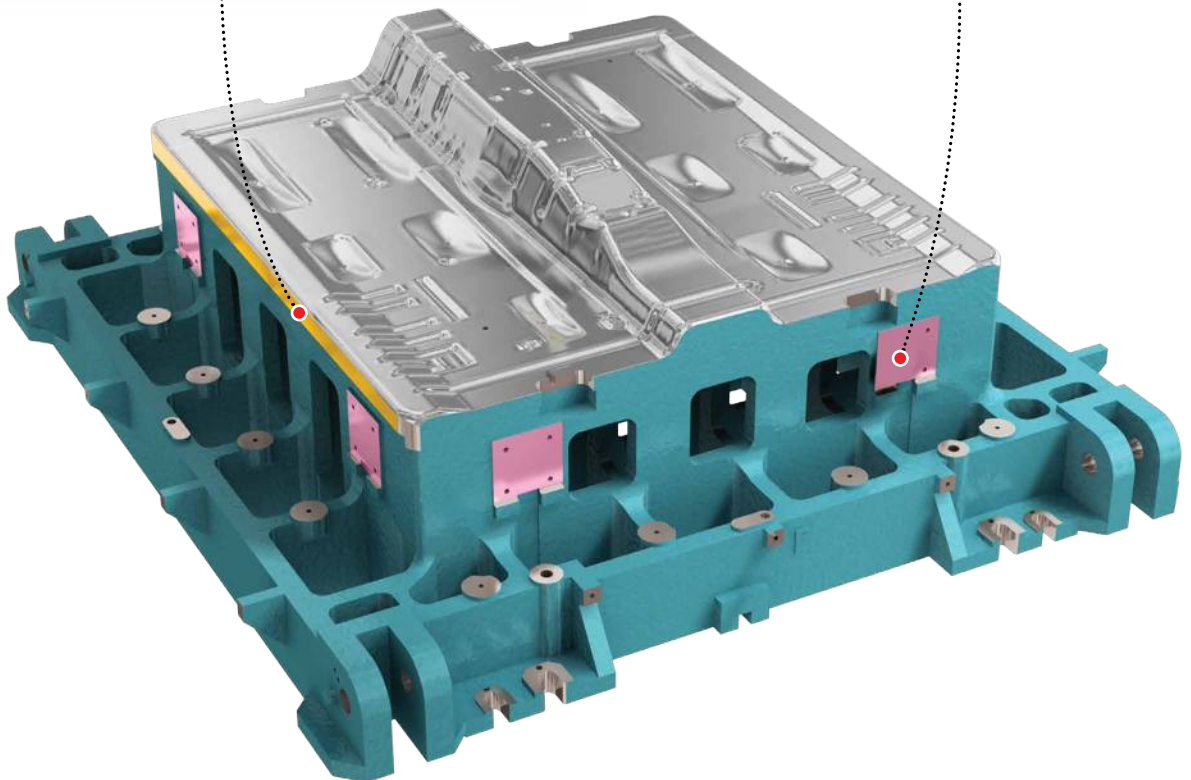
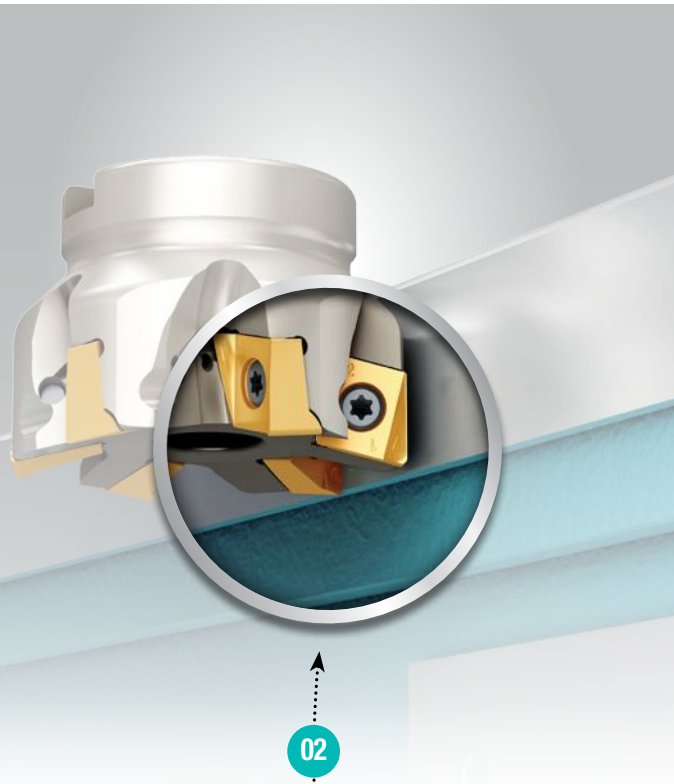
HSR
(Corner 'R')

HSB
(Ball)

HSB-CBN
(Ball)



Peripheral Milling



Peripheral Milling

01

High productivity milling solution

MILLRUSH



3PKT-SM

TANGSPEED



LPKU

CHASEMILL



APKT-SM



APKT-EM

Boss Face and Side Milling

02

MILLRUSH

Super high positive insert with 3 cutting edges



3PKT

CHASE4MILL

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

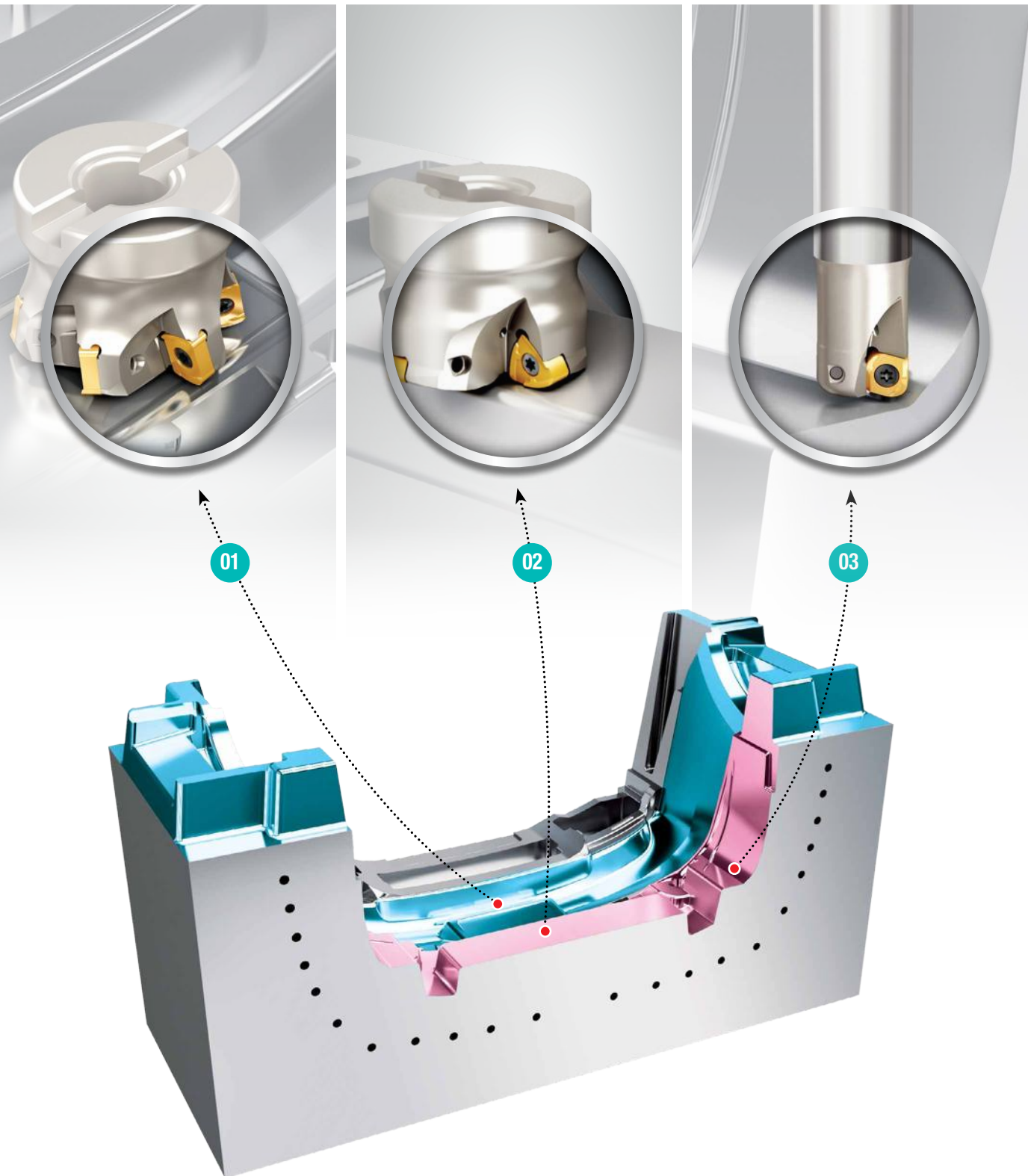


4NKT-PNR



4NHT-F

Rough Milling



Rough Milling - High feed

01/02

CHASE4FEED

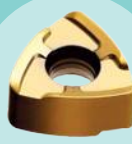
Versatile high feed milling with strong 4 cutting edge inserts



BLMP 11

CHASE2FEED

High feed milling with strong 6 cutting edge inserts



BLMP 13

CHASEFEED

High feed milling with smooth cutting



SBMT 13

Rest Rough Milling - High feed

03

CHASEFEED



SBMT 06



SBMT 09

CHASE4FEED



BLMP 06



BLMP 09

CHASE4MILL

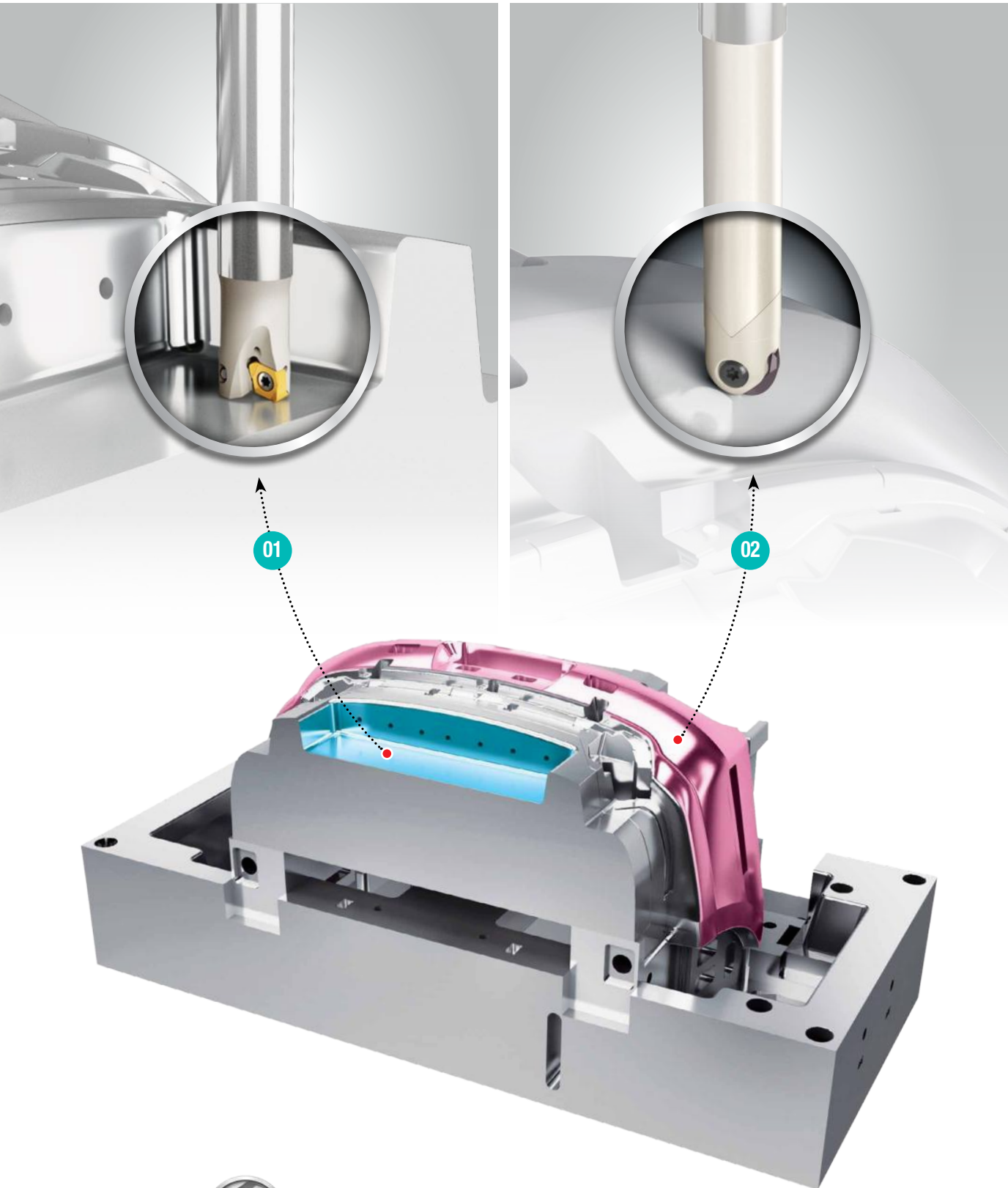
High feed and high ramping capability with 4 large corner radius inserts



4NKT-HF



Semi-finish and Finish Milling



Semi-finish Milling

01

CHASE4MILL

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



4NHT-F



4NKT-HF



DUETBALL

An excellent choice for profile milling



2FB...M



2FB...ML



Finish Milling

02

FINEBALL

Accurate profile milling
- Cutter diameter: Ø6 - Ø32



NFB



HARDMILL

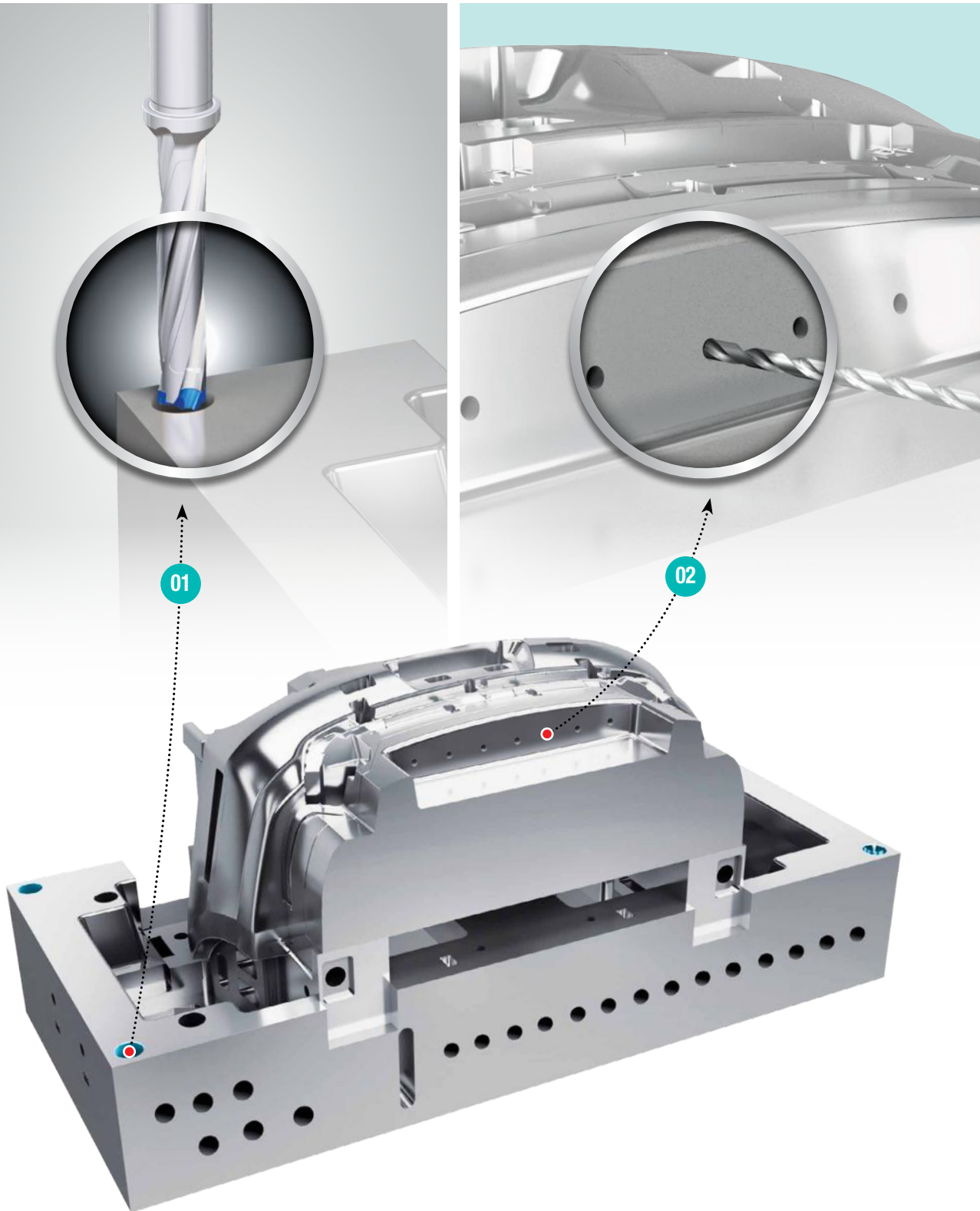
High-performance
solid carbide end mill
for high-speed milling



HSB-CBN



Holemaking



Drilling

01

TOPDRILL

New generation of indexable drill



SOMET



MODURDRILL

Unique modular system for various drilling diameters and depths



TCD-P-CO+



DRILLSPEED

Head-changeable 3 flute drill for higher productivity



3ED-P+



TMREAM

Head-changeable reamer for high-speed reaming



TM



Deep Hole Drilling

02

HDRILL

Solid carbide long drill with coolant hole



MQLDRILL



TDEEP

New indexable gun drill with unique trigonal inserts



TOGT



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)**



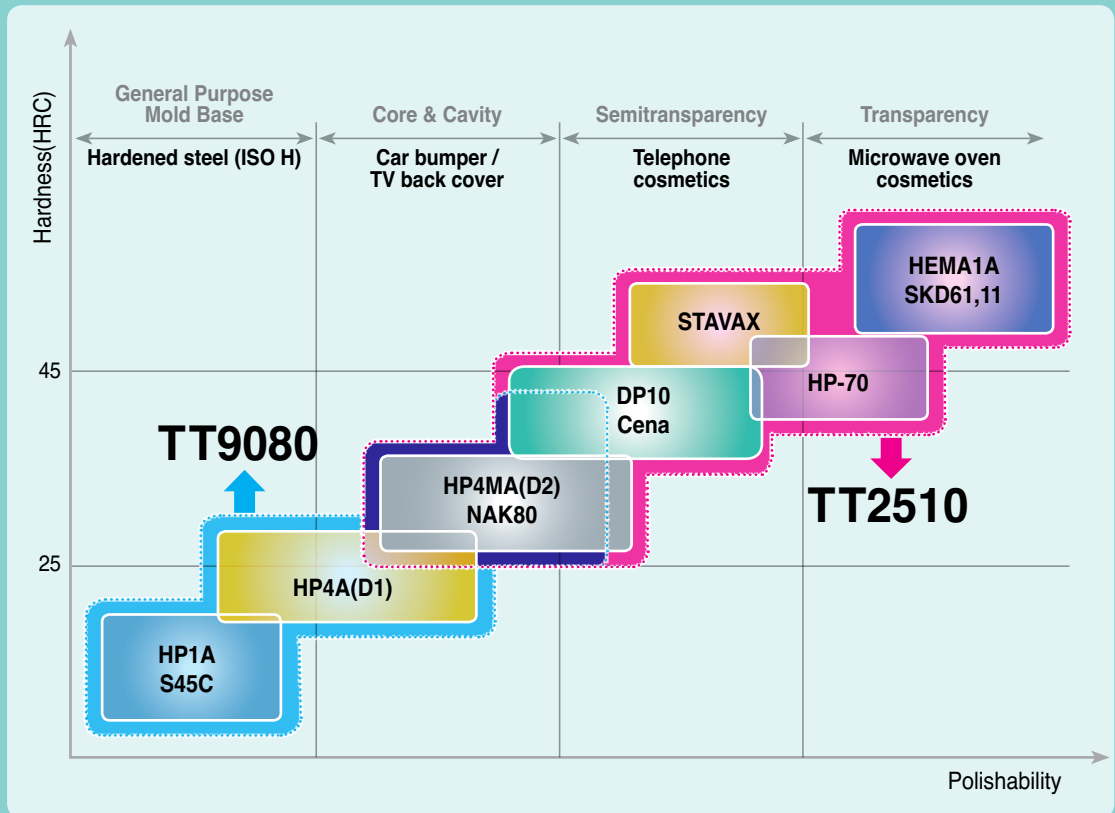
Coolant pressure [bar] operating range: **40 - 70**
 Rotational spindle speed [RPM]: **25,000 - 45,000**
 Tool diameter [mm]: **Up to Ø4.0 (shank Ø7)**

*** More powerful**

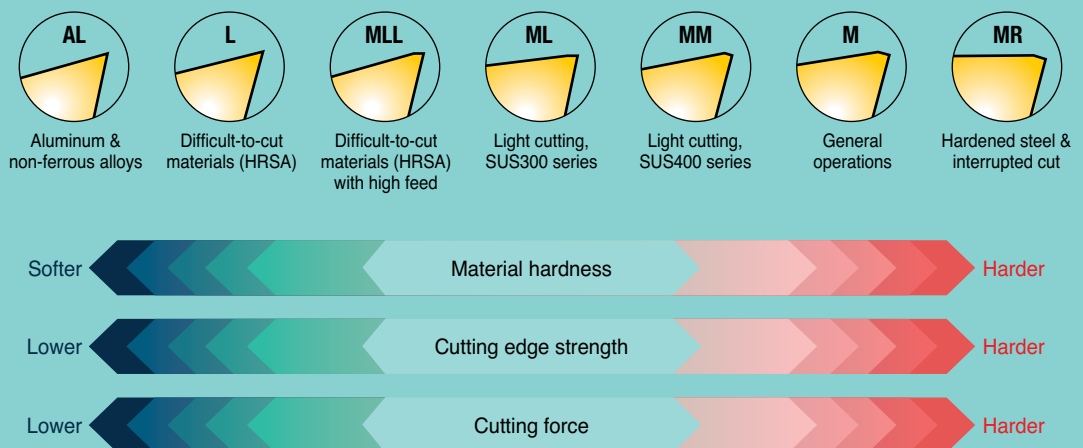


Grades and Insert Geometry

Milling Insert Grades for Die Steel



Milling Inserts Geometry Selection



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Member IMC Group



6 2 3 4 9 5 2

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