

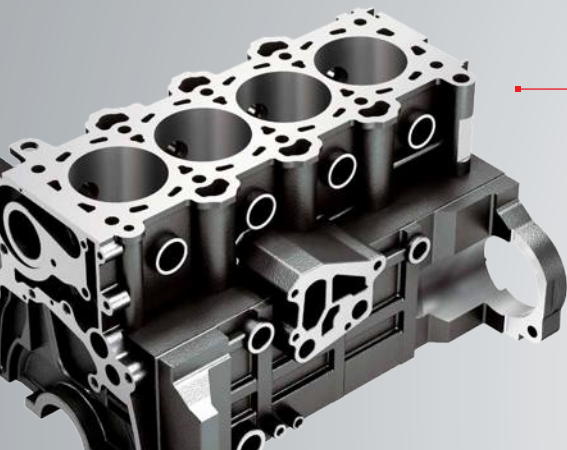


AUTOMOTIVE

TaeguTec
INDUSTRY 4.0

TaeguTec **AUTOMOTIVE** Industry Solutions

AUTOMOTIVE



CYLINDER BLOCK

The cylinder block, as it is the most fundamental part of the engine body, is designed and developed from specific materials to endure rigorous forces, friction and vibration during engine operation. It is of great importance that cylinder heads are manufactured to their exact specification in order to operate smoothly and efficiently. TaeguTec offers a wide variety of solutions that quickly and efficiently machine the different materials and precise cutting conditions needed in fabricating safe and reliable cylinder blocks.

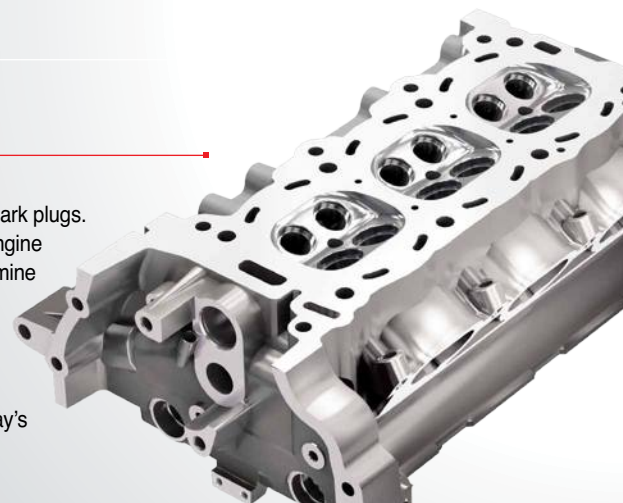


CRANKSHAFT

The crankshaft is the part of the engine that translates reciprocating linear piston motion into rotational motion. Crankshafts can be forged from a steel bar usually through roll forging or cast in ductile steel. At TaeguTec, we offer a wealth of solutions specifically designed towards machining the high tolerances and complexities of the different materials used in this vital part of the engine in order to fabricate the highly efficient crankshafts that are needed in today's complex automobiles.

CYLINDER HEAD

The cylinder head sits above the cylinder block and consists of a platform containing part of the combustion chamber that locates the valves and spark plugs. The cylinder head is key to the performance of the internal combustion engine as the shape of the combustion chamber, inlet passages and ports determine a major portion of the volumetric efficiency and compression ratio of the engine. Like the cylinder block, precise machining is crucial in producing the highest quality parts that are safe, reliable and efficient. TaeguTec's extensive experience and solutions in quickly producing cost effective, strong, and efficient cylinder heads is paramount in the production of today's technologically advanced vehicles.



CONNECTING ROD

The connecting rod or con-rod connects the piston to the crankshaft. Connecting rods are generally made of steel for production engines, but can also be made of aluminum or titanium for high-performance engines in which TaeguTec offers a series of technologically advanced cutting tools that increase productivity, minimize inventory and reduce costs.

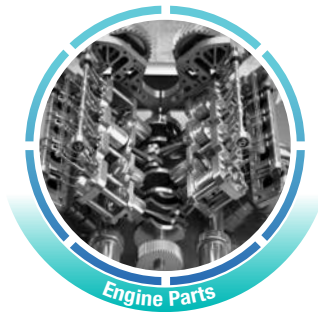
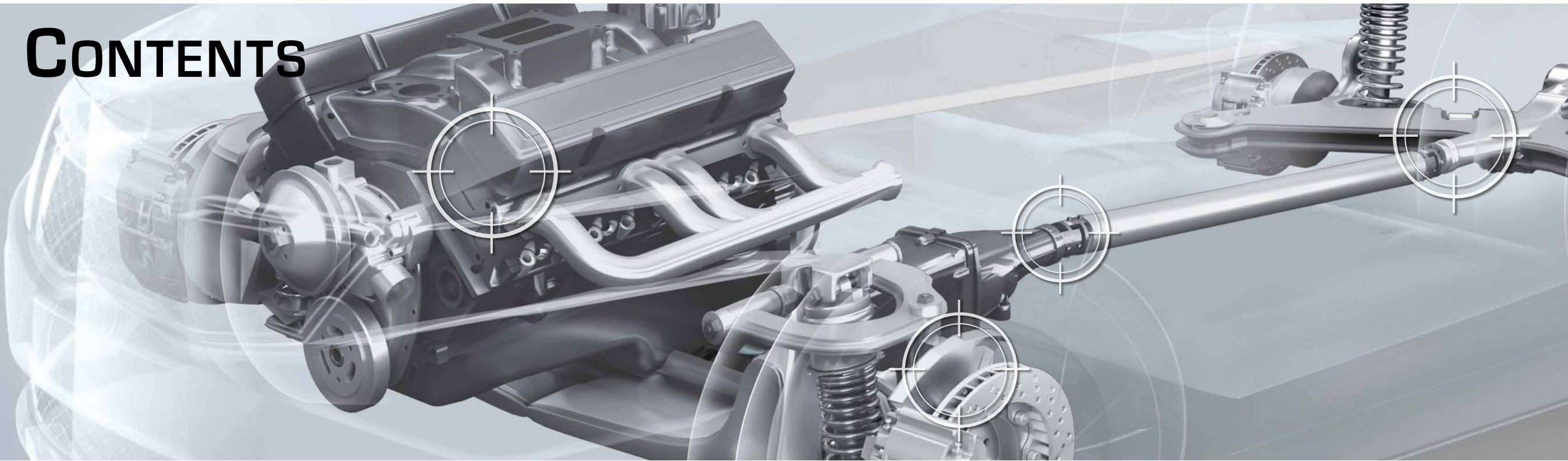


CAMSHAFT

The camshaft is a component that operates the poppet valves. It consists of a cylindrical rod running the length of the cylinder bank with several oblong lobes or cams protruding from it, one for each valve. TaeguTec's line of cutting tools enable automotive manufacturers to achieve productivity gains and cost reductions with various tools such as the Cam Lobe Mill and T-Clamp.



CONTENTS



Engine Parts



Cylinder Block



Bearing Cap



Bedplate



Cylinder Head



Crankshaft



Camshaft



Connecting Rod



Piston



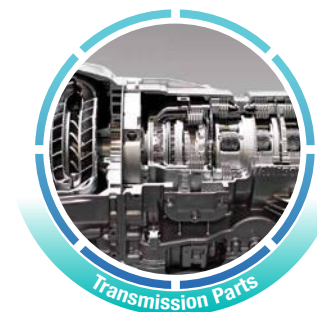
Turbine Housing



Pulley



Flywheel



Transmission Parts



Transmission Case



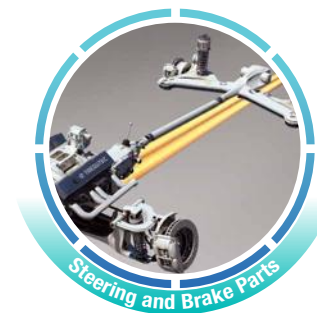
Clutch Housing



Clutch Gear



Input and Output Shaft



Steering and Brake Parts



Knuckle and Carrier



CV Joint



Hub and Outer Ring



Yoke



Differential Case



Brake Disc and Drum



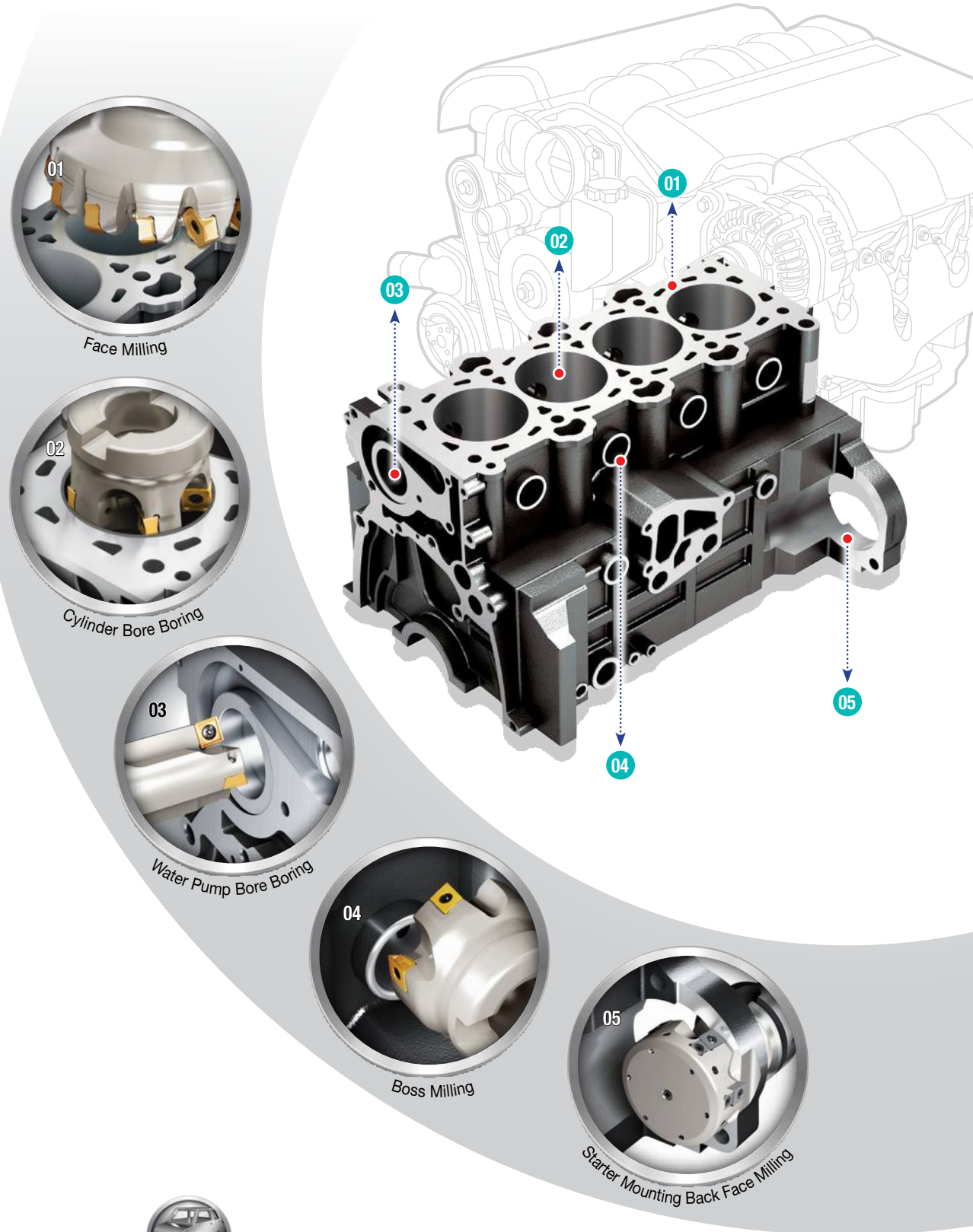
Caliper



Aluminum Wheel




















Cylinder Block Top

Cast Iron / CGI / Aluminum



Engine Parts

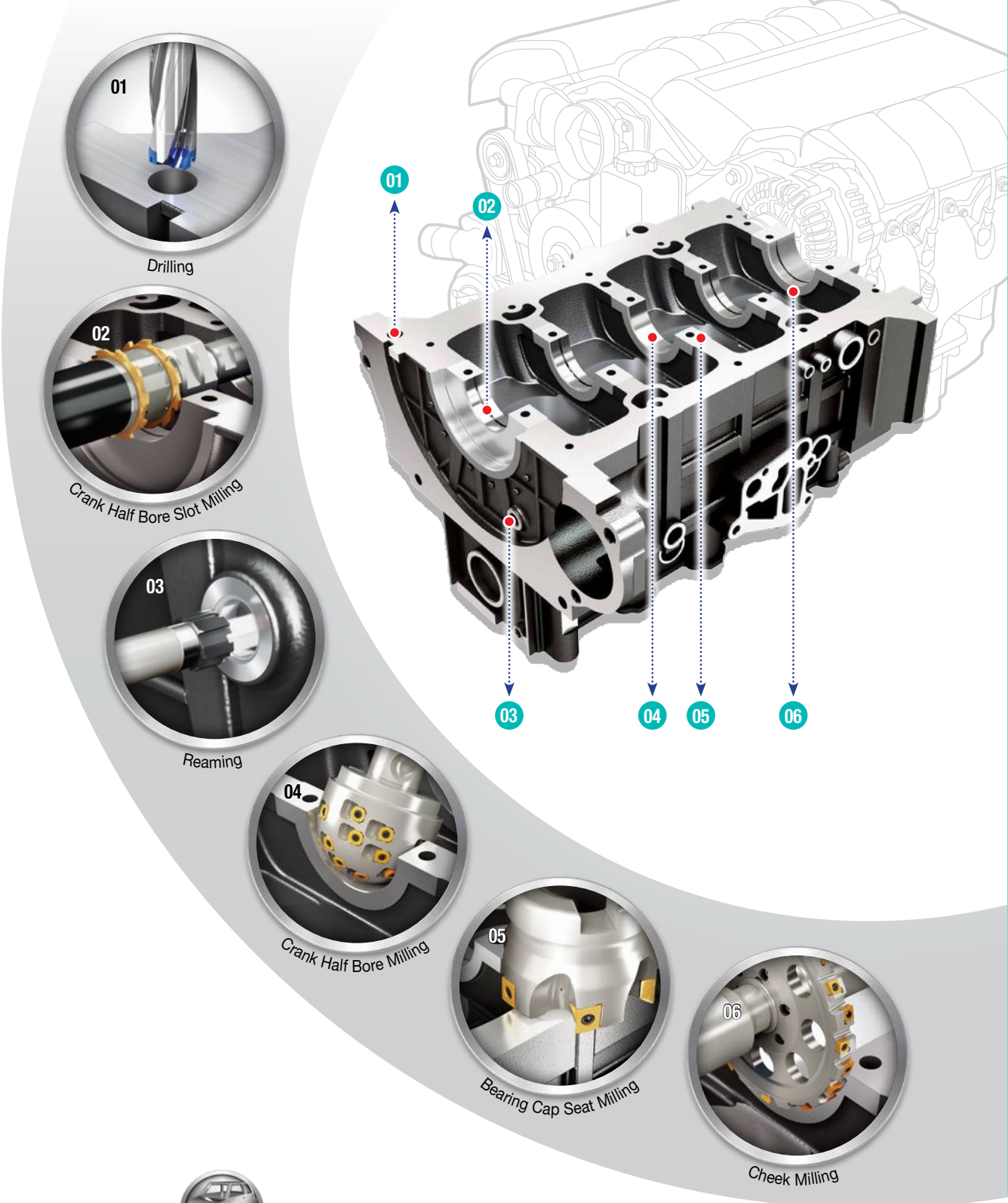
Cylinder Block

<h4>Face Milling 01</h4> <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p>CHASE12MILL</p>  <p>For roughing</p>  <p>HXHU</p> </div> <div style="text-align: center;"> <p>CHASE2HEPTA</p>  <p>For finishing</p>  <p>XNHU</p> </div> <div style="text-align: center;"> <p>CHASE2QUAD</p>  <p>Adjustable type</p>  <p>SNEX</p> </div> <div style="text-align: center;"> <p>CHASE4FINISH</p>  <p>Non-adjustable type</p>  <p>4WHU</p> </div> </div>	<h4>Cylinder Bore Boring 02</h4> <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p>CHASE2QUAD</p>  <p>For roughing</p>  <p>SNGX</p> </div> <div style="text-align: center;">  <p>For finishing</p>  <p>CBN Special</p> </div> </div>	<h4>Water Pump Bore Boring 03</h4> <div style="text-align: center;">  <p>For roughing</p>  <p>SPMG</p> </div>
<h4>Boss Milling 04</h4> <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p>TANGSFEED</p>   <p>LPKU</p> </div> <div style="text-align: center;"> <p>MILL2RUSH</p>   <p>6NGU</p> </div> </div>	<h4>Starter Mounting Back Face Milling 05</h4> <div style="text-align: center;">  </div>	

Cylinder Block Bottom

Cast Iron / CGI / Aluminum

Engine Parts



Cylinder Block

Drilling 01

DRILLSPEED DRILLRUSH SOLID3DRILL

3ED-P+ TCD

Crank Half Bore Slot Milling 02

Special Slotting Tool

TIMC

Reaming and Tapping 03

TM XCET

TMREAM T-TAP

Crank Half Bore Milling 04

XCET

Bearing Cap Seat Milling 05

Broach Cutter

TANGSPEED

High productivity

LPKU

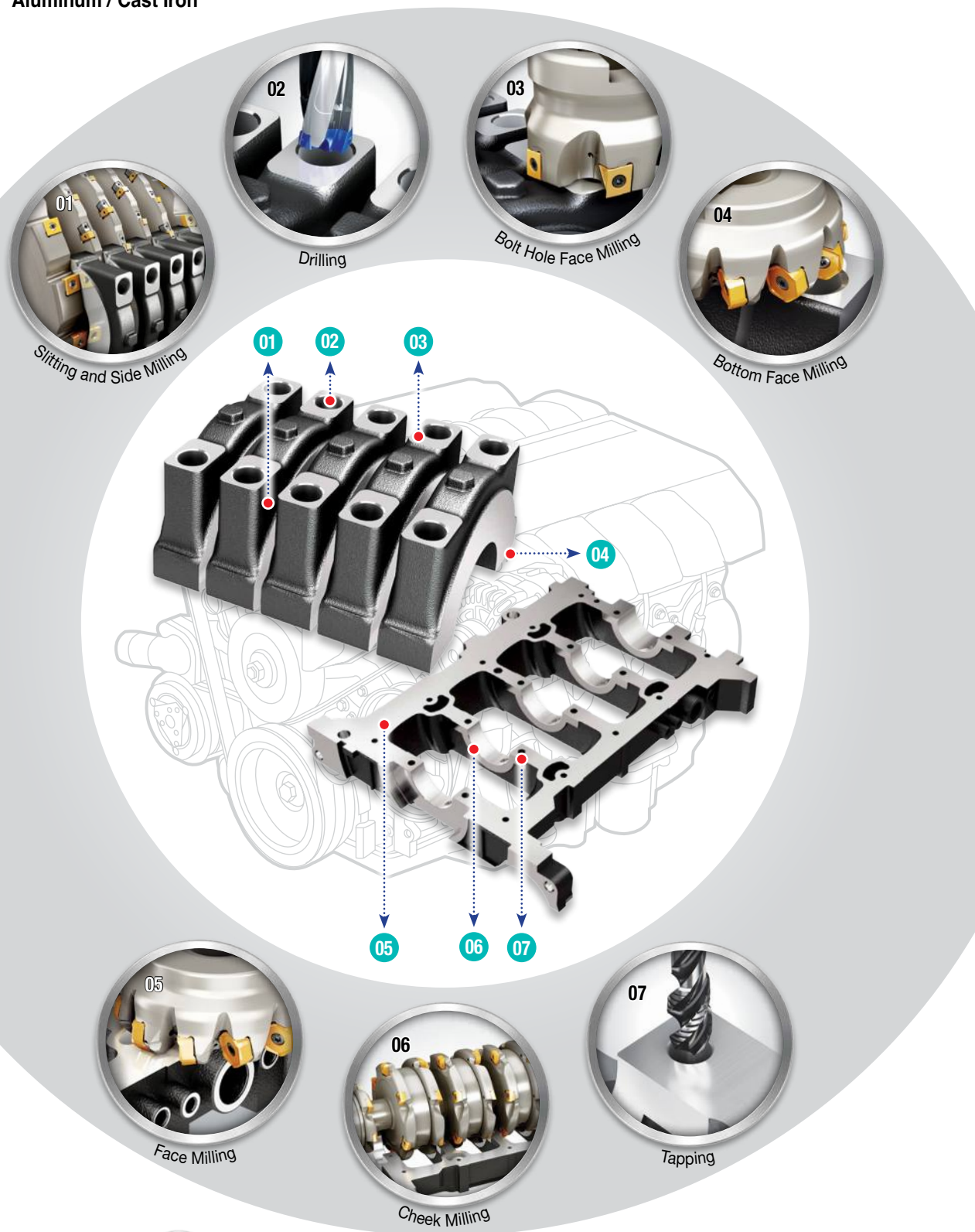
Cheek Milling 06

Special Gang Cutter

Special Cutter and Arbor

Bearing Cap and Bedplate

Aluminum / Cast Iron



Engine Parts

Bearing Cap and Bedplate

Slitting and Side Milling
01



Drilling
02



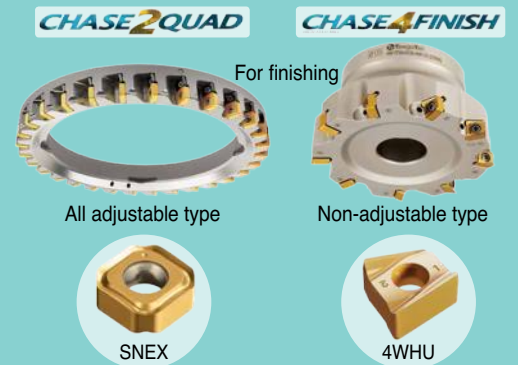
Bolt Hole Face Milling
03



Bottom Face Milling
04



Face Milling
05



Cheek Milling
06

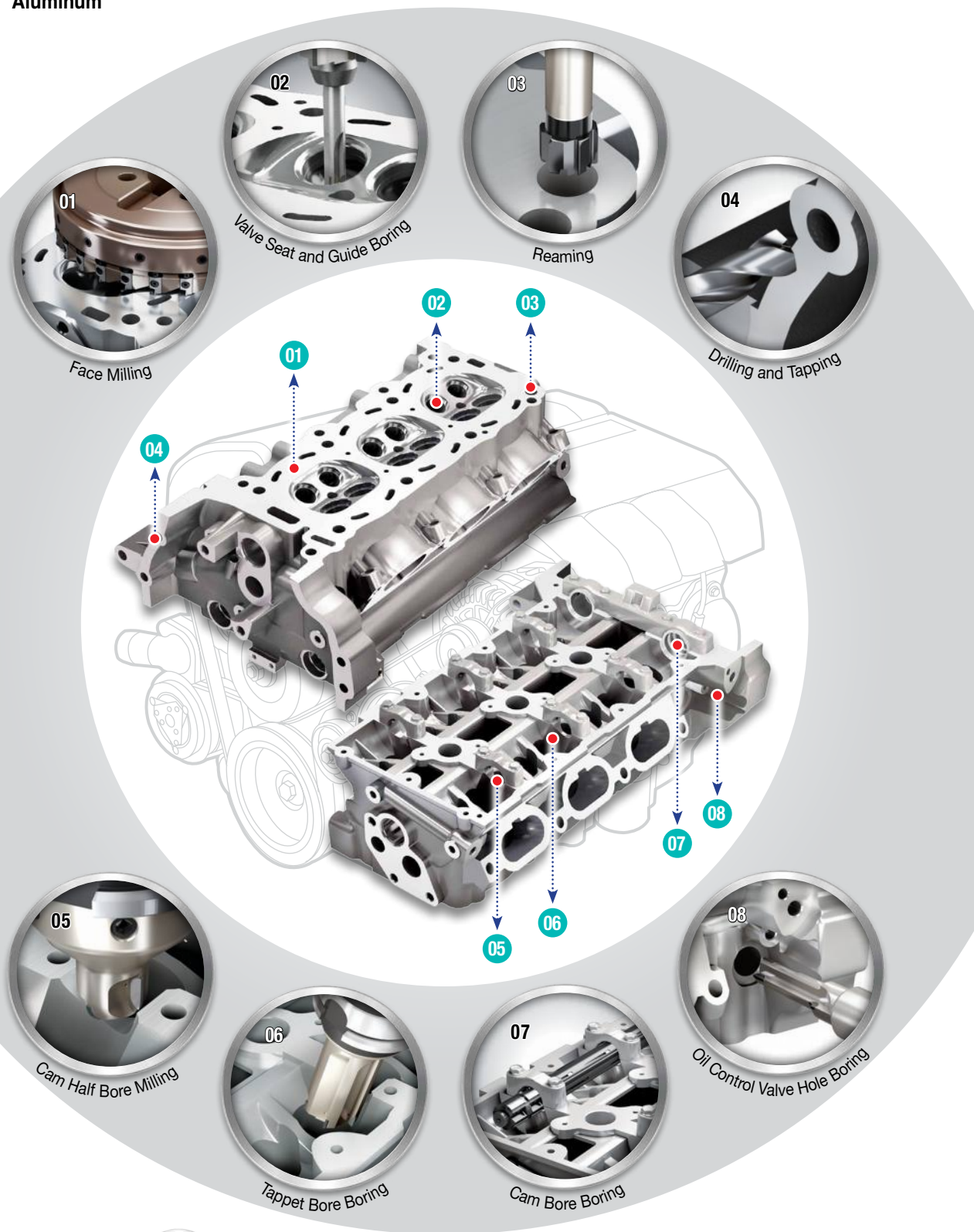


Tapping
07



Cylinder Head

Aluminum



Engine Parts

Cylinder Head

Face Milling 01

MILLRUSH For roughing

CHASEOCTO

OTTO MILL For finishing

CHASE4FINISH

3PHT

OFCT Most economical insert

TCT08 PCD

4WHU PCD

Valve Seat and Guide Boring 02

PCD

PCD CBN

Before press in

After press in

Reaming 03

TMREAM

TBREAM

TM

TB

High productivity

High accuracy

Drilling and Tapping 04

HDRILL

T-TAP

Cam Half Bore Milling 05

PCD

Tappet Bore Boring 06

PCD

Cam Bore Boring 07

PCD

High accuracy

Oil Control Valve Hole Boring 08

PCD

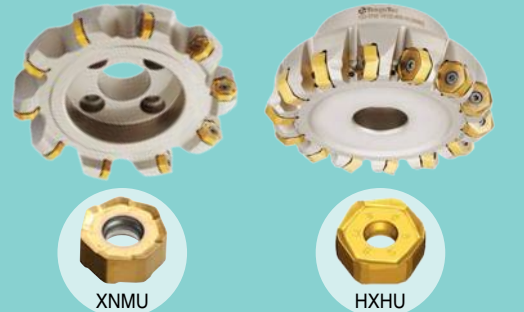



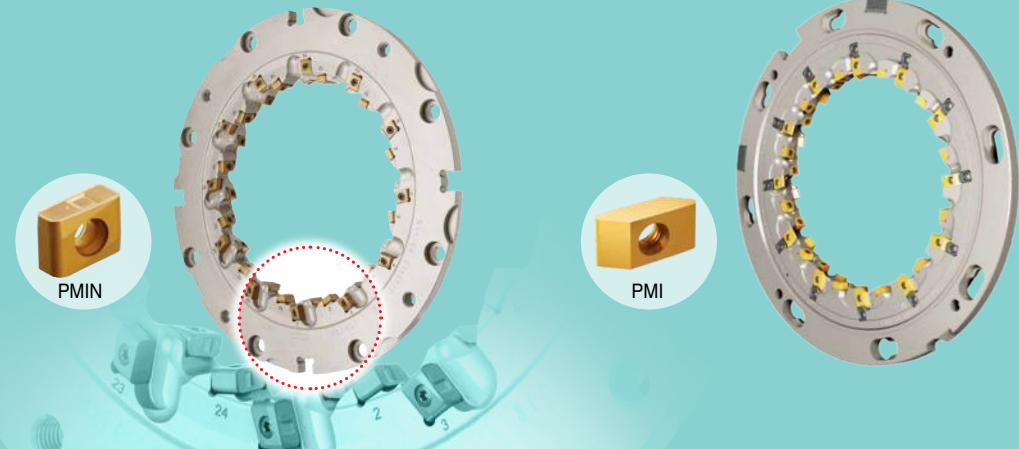
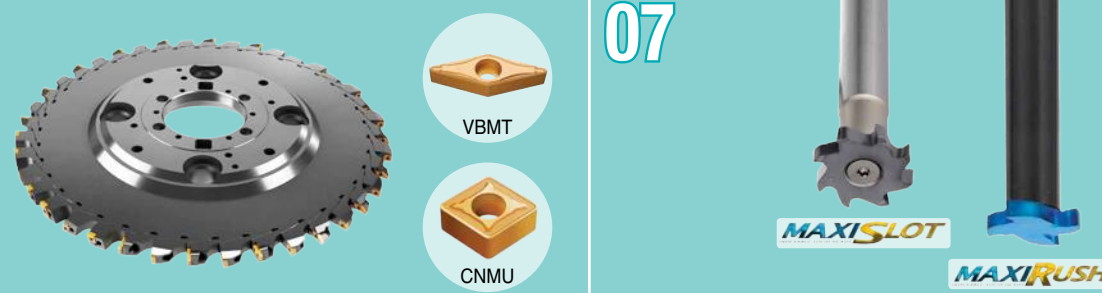

Crankshaft

Alloy Steel / Cast Iron



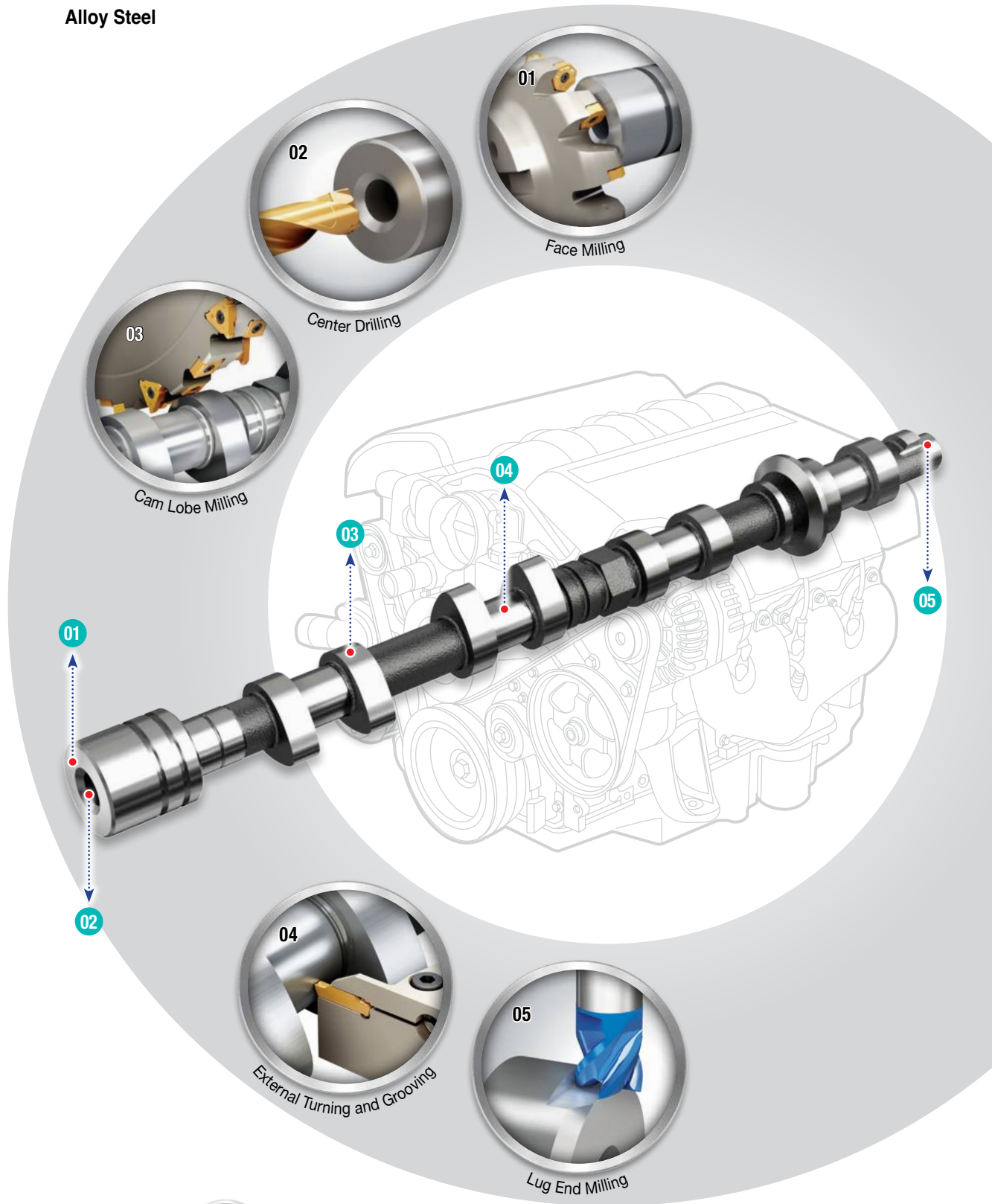
Engine Parts

Crankshaft

<p>Face Milling 01</p>	<p>CHASE2HEPTA CHASE12MILL</p>  <p>XNMU HXHU</p>	<p>Tapping 03</p> <p>T-TAP</p> 	<p>Oil Hole Drilling 04</p>  <p>MQLDRILL</p>
<p>Drilling and Reaming 02</p>	 <p>TCD 3ED-P+ DRILLRUSH SOLID3DRILL DRILLSPEED TMREAM</p>		
<p>Pin and Main Journal Milling 05</p>  <p>PMIN PMI</p>			
<p>Turn-turn Broaching 06</p>	 <p>VBMT CNMU</p>		
<p>External Slotting 07</p>  <p>MAXISLOT MAXIRUSH</p>			

Camshaft

Alloy Steel



Engine Parts

Camshaft

Face Milling
01

CHASE2HEPTA

XNMU

Center Drilling
02

DRILLRUSH HDRILL

TCD

Cam Lobe Milling
03

Cam Milling + Grooving

External Turning and Grooving
04

COOLBURST

RHINOTURN

T-CLAMP

VNMX **TDXY** **TDT**

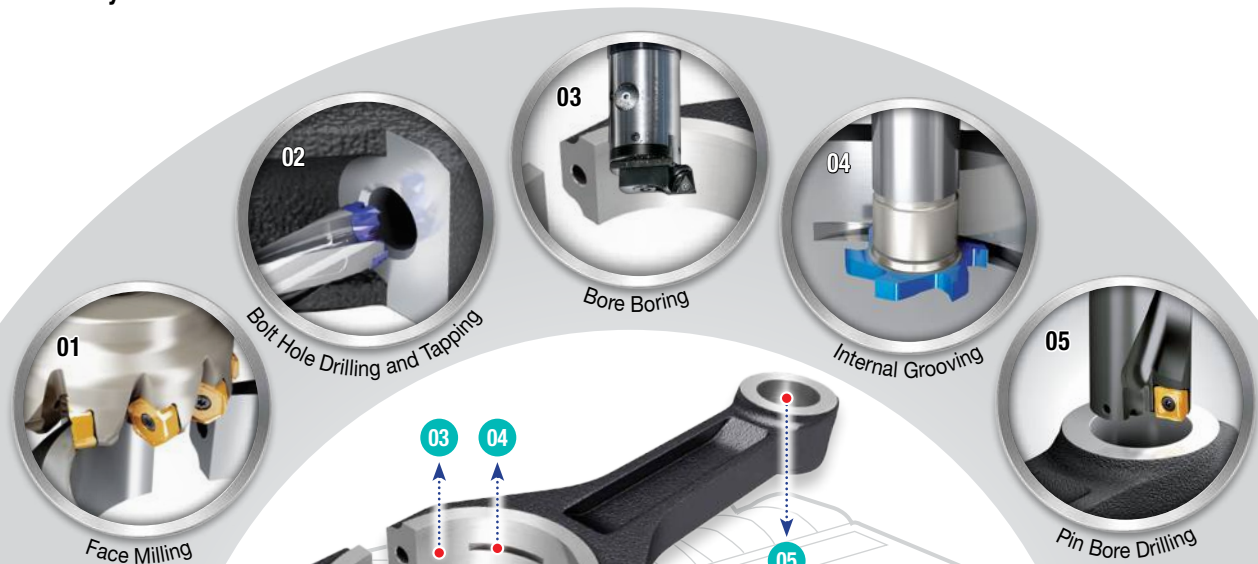
Lug End Milling
05

MAXIRUSH

MXEE

Connecting Rod

Alloy Steel / Aluminum



Piston

Alloy Steel / Aluminum



Engine Parts

Connecting Rod

Face Milling



Bolt Hole Drilling and Tapping



Bore Boring



Internal Grooving



Pin Bore Drilling



Piston

Face Grooving



Center Drilling

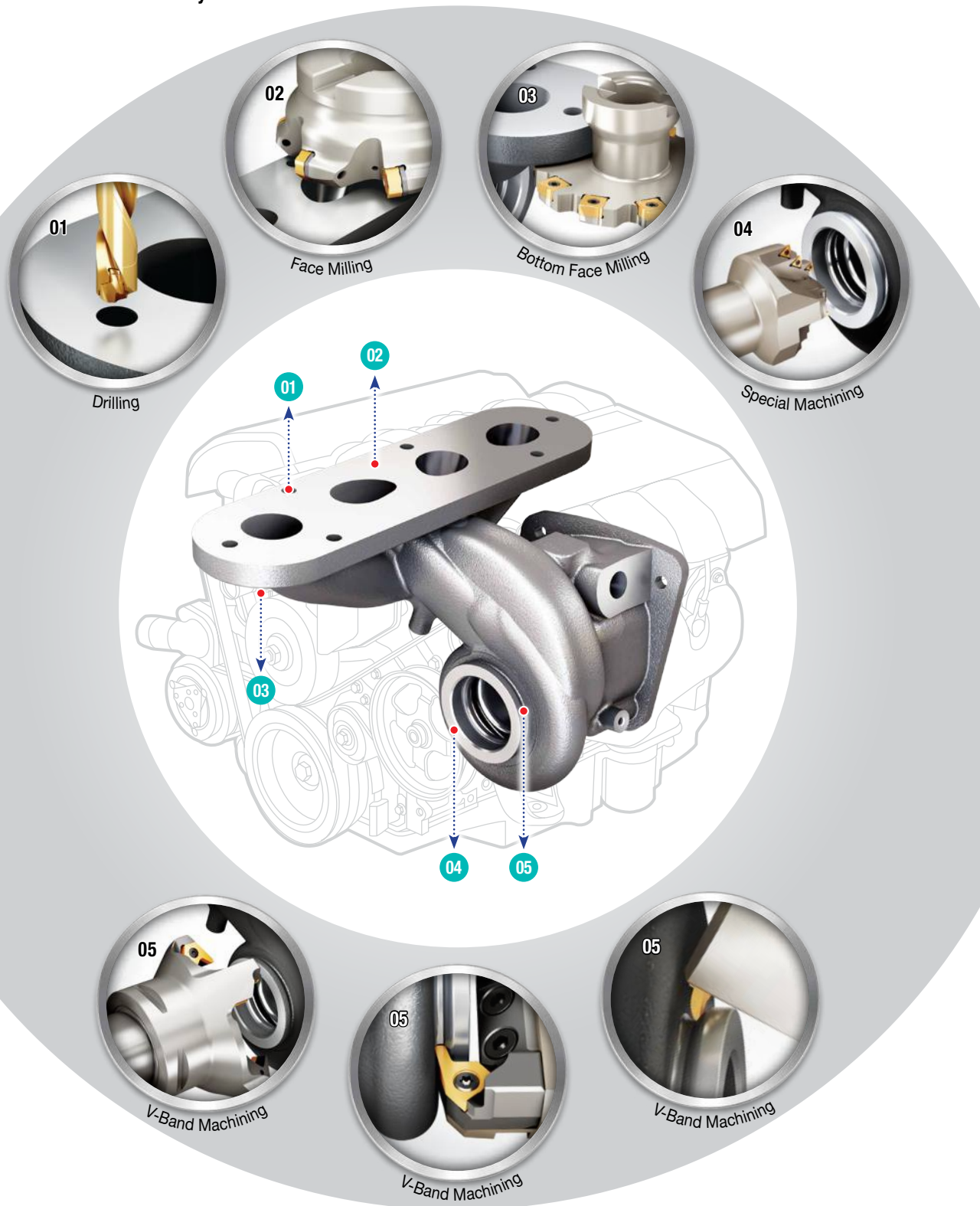


Turning



Turbine Housing

Stainless Steel Alloys



Engine Parts

Turbine Housing

Drilling 01

HDRILL **DRILLRUSH**

Face Milling 02

CHASE2HEPTA

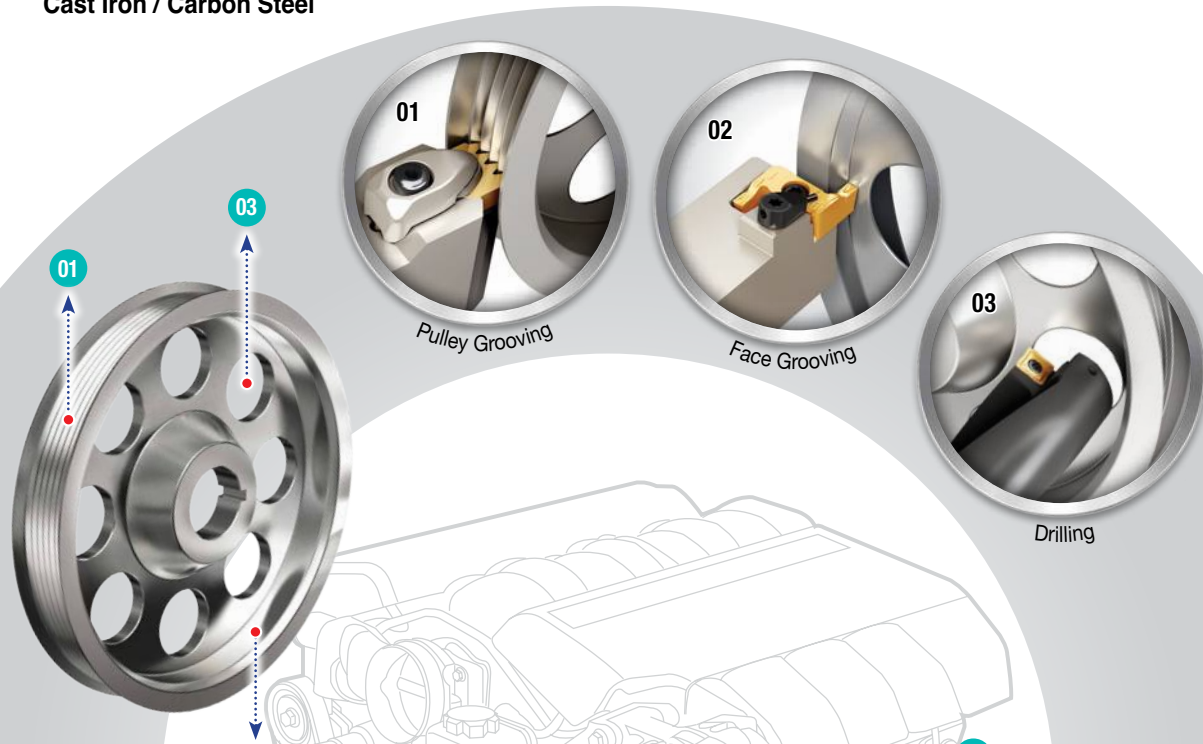
Bottom Face Milling 03

Special Machining 04

V-Band Machining 05

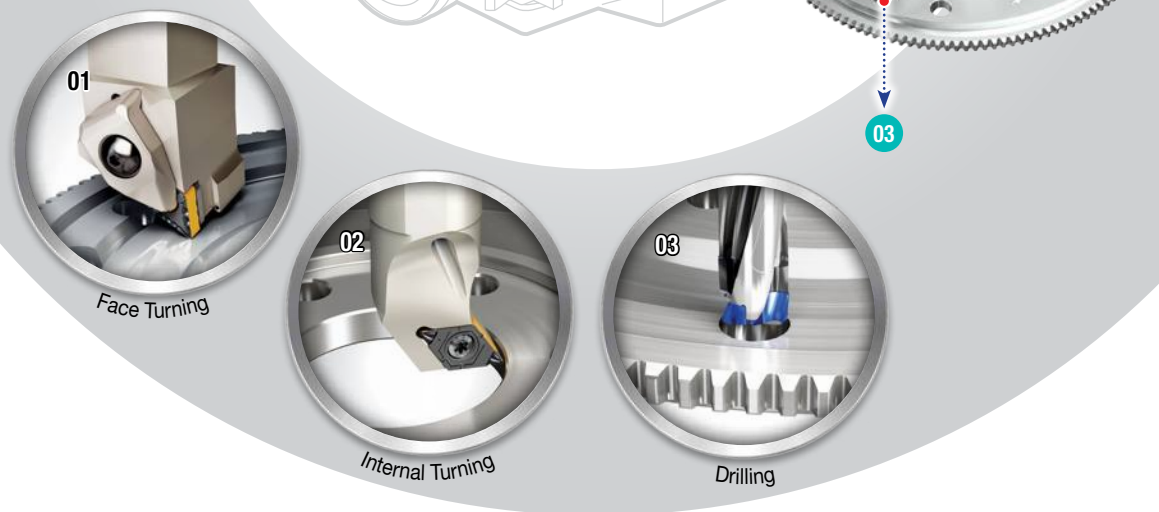
Pulley

Cast Iron / Carbon Steel



Flywheel

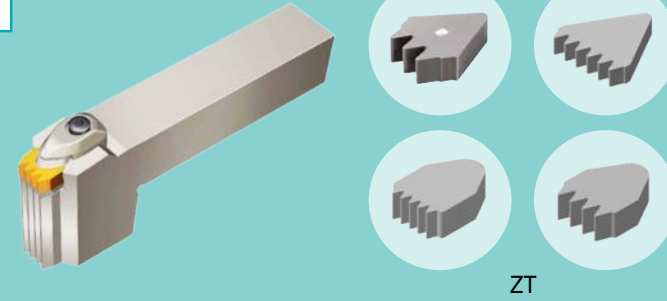
Cast Iron / Steel



Engine Parts

Pulley

Pulley Grooving 01



ZT

Face Grooving 02



FACE RUSH

TDFX

Drilling 03



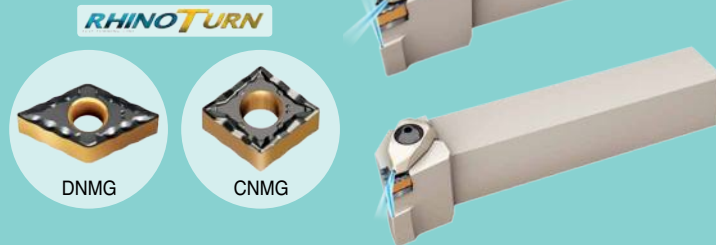
TOPDRILL



SOMT

Flywheel

Face Turning 01



RHINO TURN

DNMG

CNMG

Drilling 03



SOLID3DRILL



DRILLRUSH



TCD

Internal Turning 02



RHINO TURN

DNMX



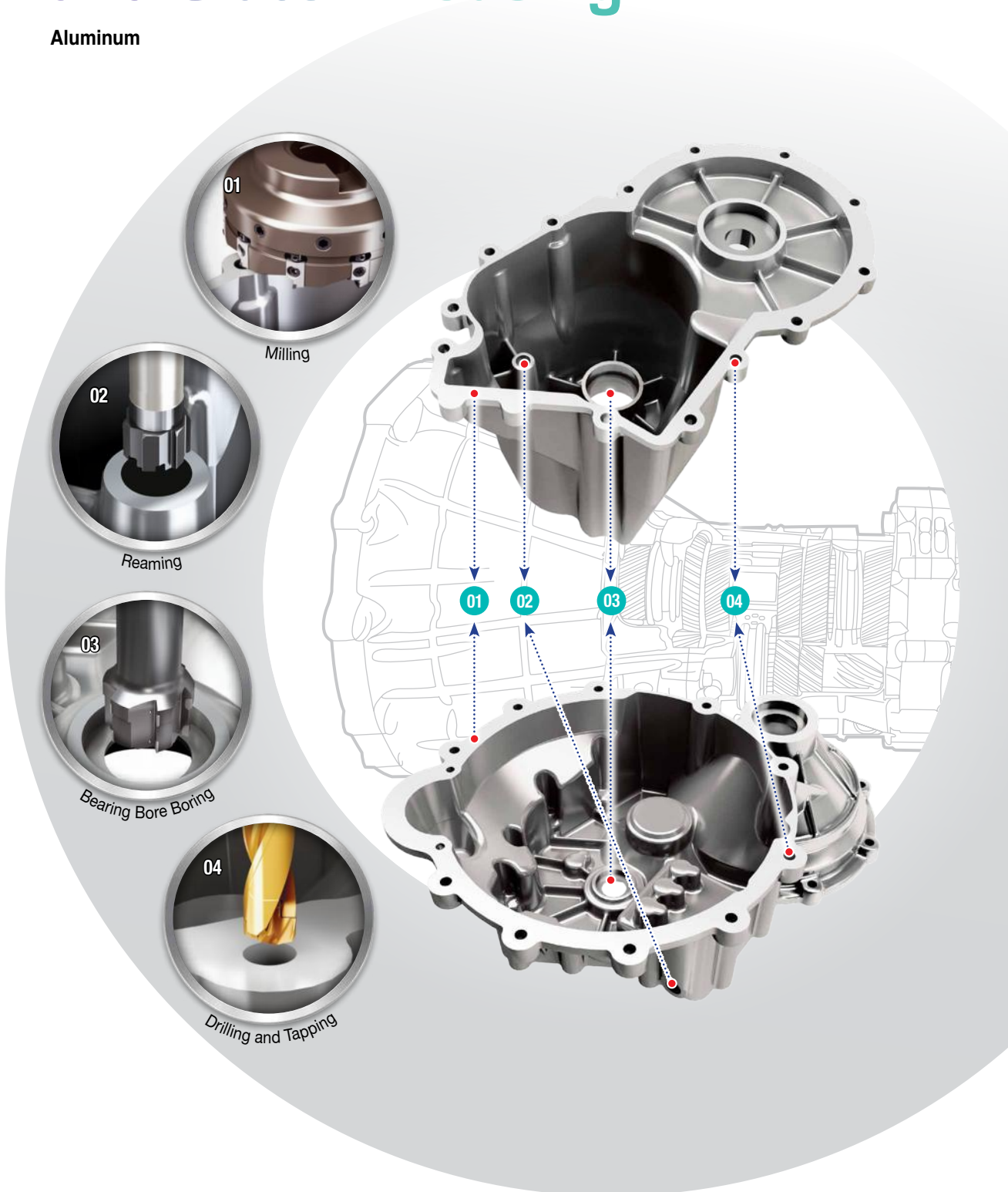
DRILLSPEED



3ED-P+



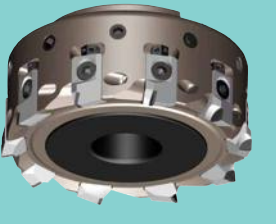






Transmission Case and Clutch Housing

Aluminum



Transmission Parts

Transmission Case and Clutch Housing

<p>Milling 01</p> <p>MILLRUSH</p>  <p>CHASE4FINISH</p>  <p>For finishing</p> <p>OTTO MILL</p>  <p>3PHT</p> <p>4WHU</p> <p>TCT08</p>	<p>PCD</p> <p>PCD</p>
<p>Reaming 02</p>  <p>TM</p> <p>TMREAM</p>	<p>Bearing Bore Boring 03</p>  <p>For roughing</p>  <p>For finishing</p>
<p>Drilling and Tapping 04</p>  <p>HDRILL</p>  <p>DRILLRUSH</p> <p>TCD-N</p>  <p>T-TAP</p>	

Clutch Gear and Input, Output Shaft

Powder Metal / Carbon Steel / Alloy Steel



Transmission Parts

Clutch Gear and Input, Output Shaft

Power Skiving 01

MAXIRUSH

High productivity gear machining

TGK

TGI

Grooving 02

COOLBURST

QUADRUSH

TQC 27

TQC 34

03

COOLBURST

T-CLAMP

TDXU

Turning 04

POSTTURN

RHINOTURN

T-TURN

ZNMV-BM

ZNMV-BF

DNMG

WNMX

VNMX

CNGA

CBN

CNGN

High feed turning

Internal Turning 05

RHINOMTURN

DNMX

High Feed Turning 06

T-CLAMP

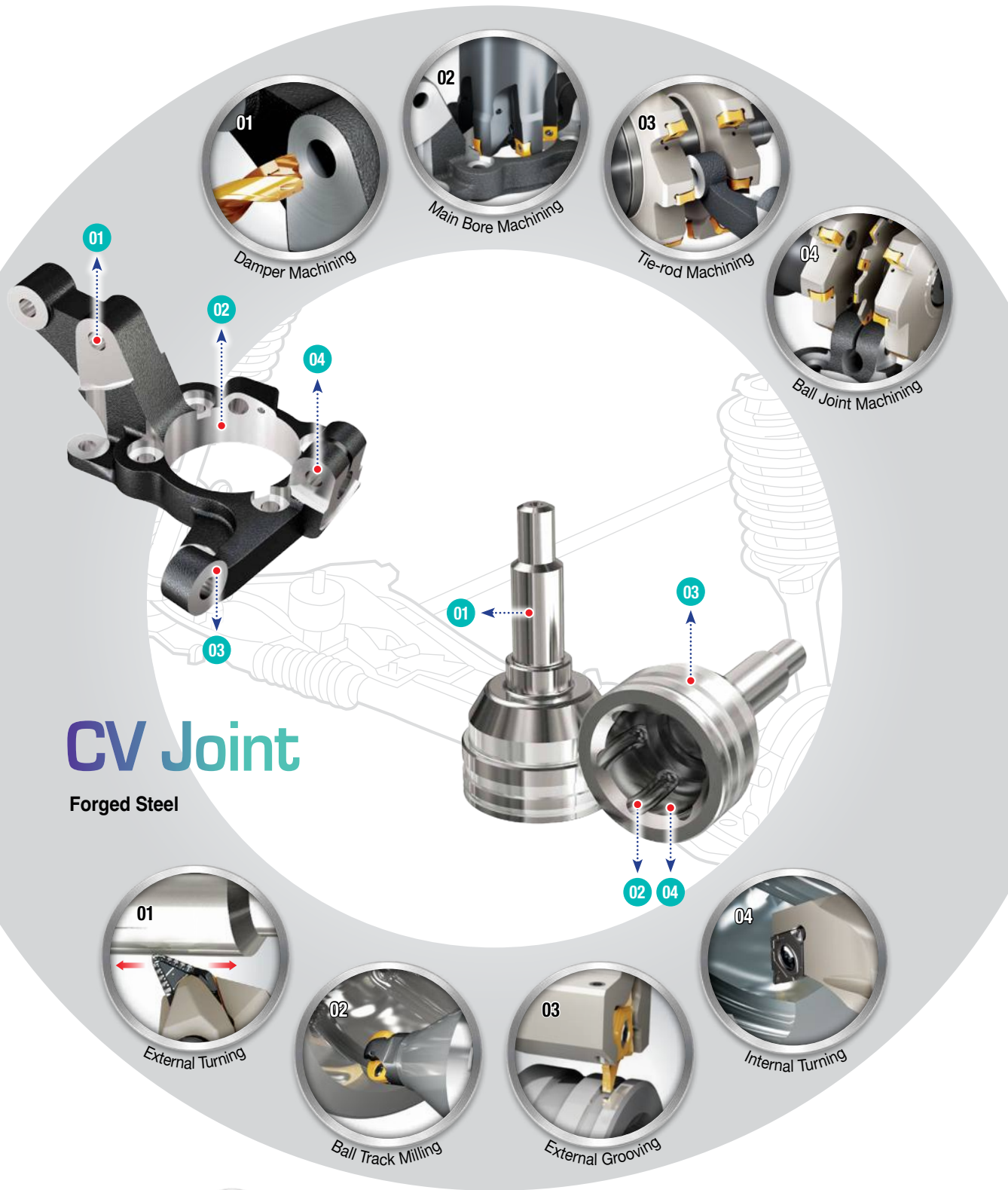
TSG-HF

For finishing

CBN

Knuckle and Carrier

Cast Iron / Aluminum



CV Joint

Forged Steel

Steering and Brake Parts

Knuckle and Carrier

Damper Machining

01



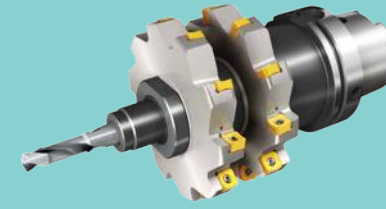
Main Bore Machining

02



Tie-rod Machining

03



Ball Joint Machining

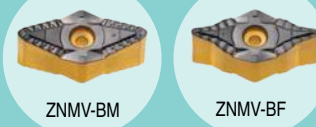
04



CV Joint

External Turning

01



High feed turning

Ball Track Milling

02



External Grooving

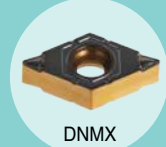
03



TQC

Internal Turning

04



DNMX

Hub and Outer Ring

Bearing Steel



Steering and Brake Parts

Hub and Outer Ring

Internal Machining 01

T-CLAMP
RHINO MTURN

TSG GEN
DNMX

Drilling 02

DRILLSPEED
DRILLRUSH

3ED-P+
TCD

Turning 03

COOLBURST
POSTURN
RHINO XTURN

ZNMV-BM
ZNMV-BF
XNMG-FGP
XNMG-MLP

High feed turning

Yoke

Special Machining 01

(Drill + Chamfer + Groove)

Side Milling 02

Drilling 03

TOPDRILL
SOMT

Internal Turning 04

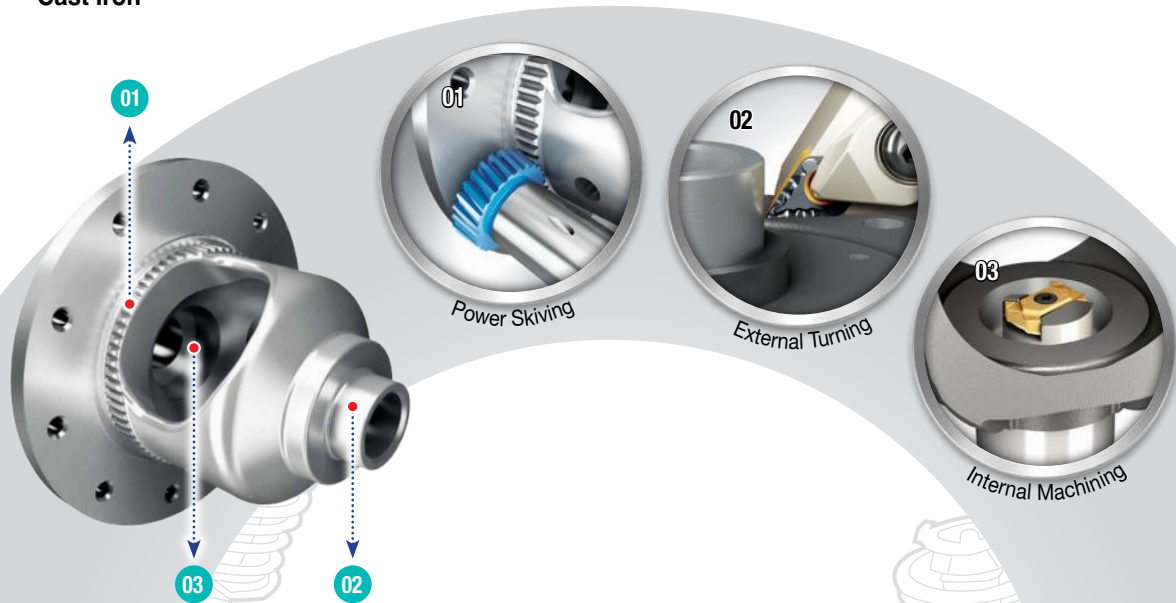
RHINO MTURN
DNMX

External Turning 05

COOLBURST
RHINO TURN
VNMX

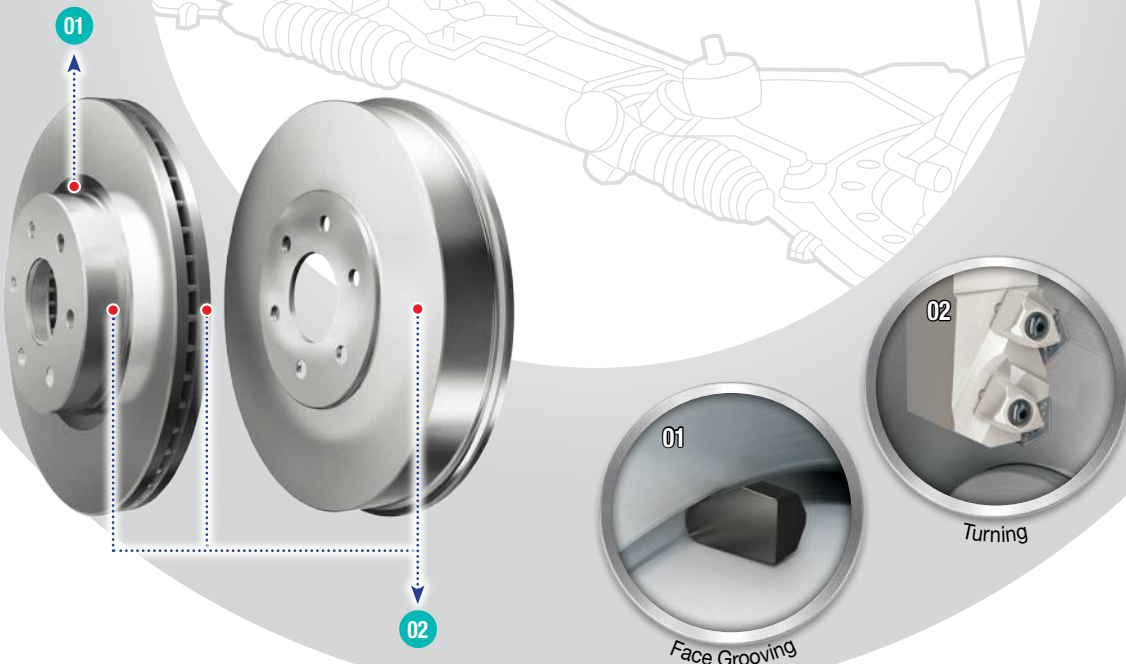
Differential Case

Cast Iron



Brake Disc and Drum

Cast Iron



Steering and Brake Parts

Differential Case

Power Skiving

01



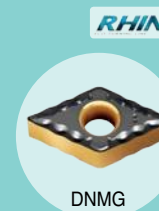
MAXIRUSH



TGM
High productivity gear machining

External Turning

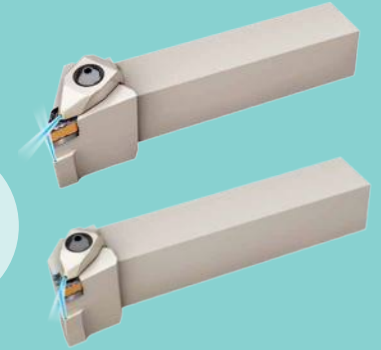
02



DNMG



CNMG



Internal Machining

03

QUADIRUSH

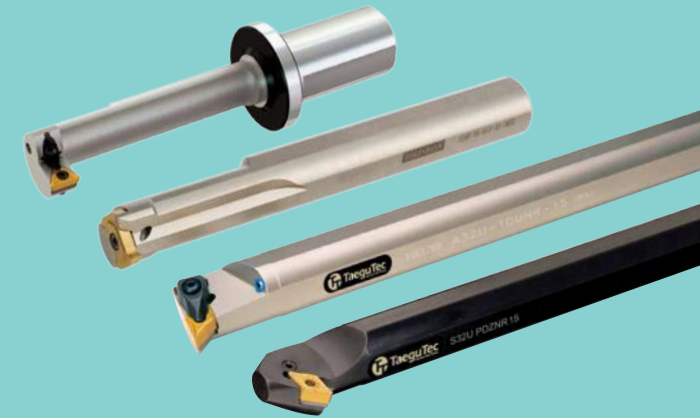
RHINOTURN



TQIS



DNMG



Brake Disc and Drum

Face Grooving

01

T-CLAMP

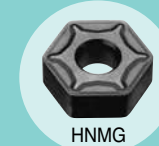


TDT-RU



Turning

02



HNMG



CNGN



CNGX



DNGX



Caliper

Cast Iron / Aluminum



Aluminum Wheel

Aluminum



Steering and Brake Parts

Caliper

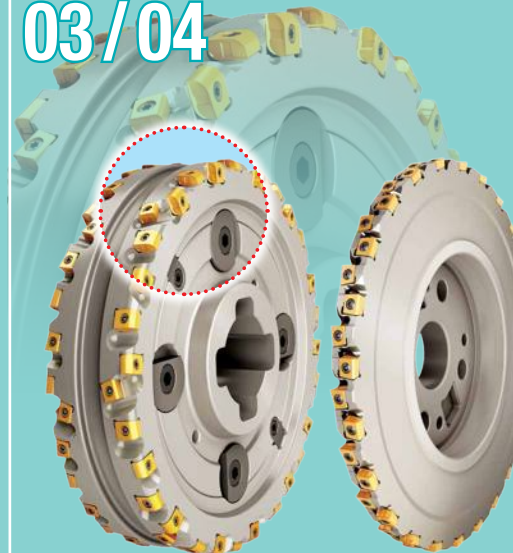
Cylinder Bore Boring
01



Drilling
02



Slot Milling
03 / 04



Quick Change System

Lighter
Less than half the weight

32.7kg
↓
15.5kg

Quicker
Simple & user-friendly clamping system

Safer
Lighter cutter protects users

WORK SAFETY

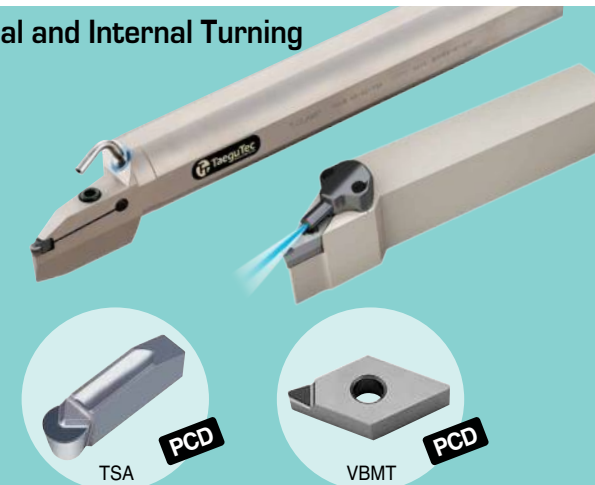
Cutter Adapter

Aluminum Wheel

Rim Turning
01



External and Internal Turning
02



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Tel: +603-5131-7514
E-mail: info@taegutec.com.my

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TCE Tools

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