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R&D INSTITUTE

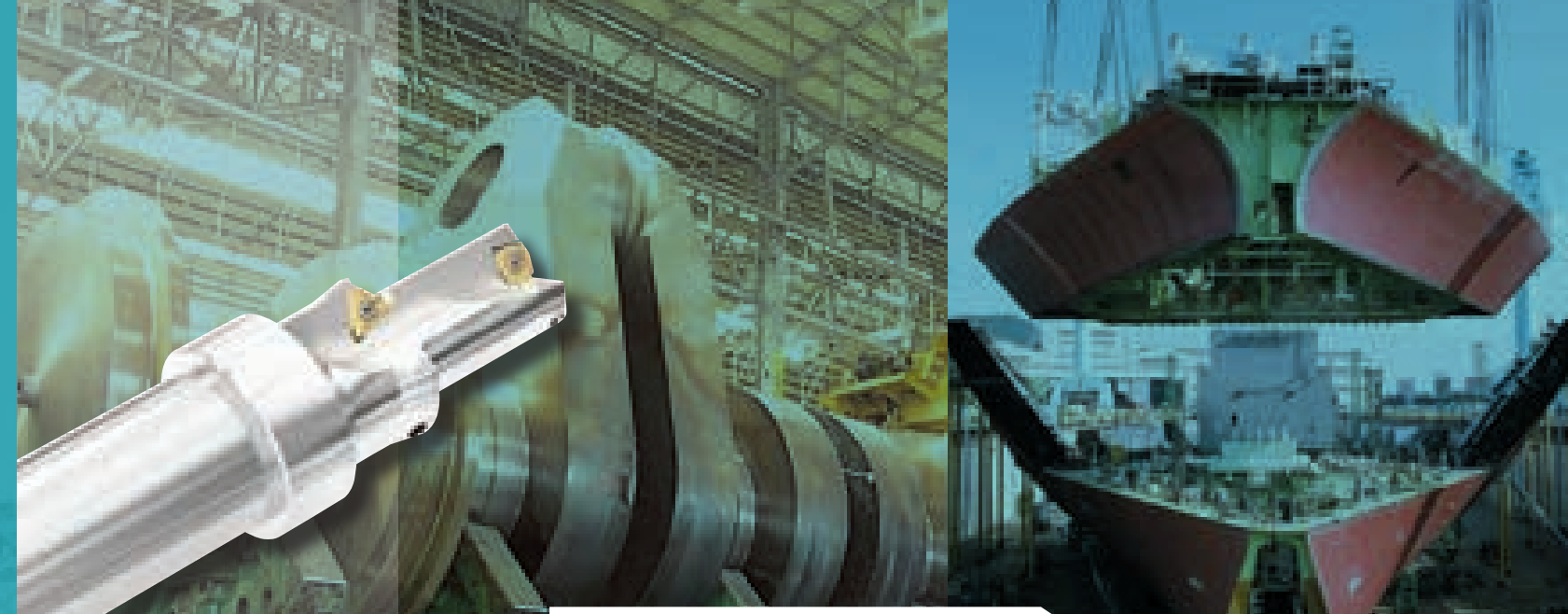
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Industrial Solutions of **KORLOY**



SHIPBUILDING INDUSTRY

We Create your Tomorrow!





We learn the challenge with nature.
We also dream love in nature.
'Challenge for dream, Love for human'
It's an ideal of Korloy like nature.

The 21st century of KORLOY is the power for a better future.

KORLOY Inc. is a total cutting tool manufacturer specializing in uncoated, coated (CVD, PVD), and Cermet inserts.

KORLOY Inc. was founded in 1966.

Our establishment is now a top leading cutting tool provider that constantly invests and improves our R&D center in Korea

Our goal is to be the top, globally leading company that overcomes the continuous challenges and innovations.

KORLOY Inc. products manufactured by the ever growing R&D department along with our innovative production technology are selling and exporting to over 80 countries, as the global company recognized with higher technology.

KORLOY Inc. continuously endeavors to grow as the global enterprise representing Korea.

We sincerely anticipate your on-going interest for KORLOY Inc.

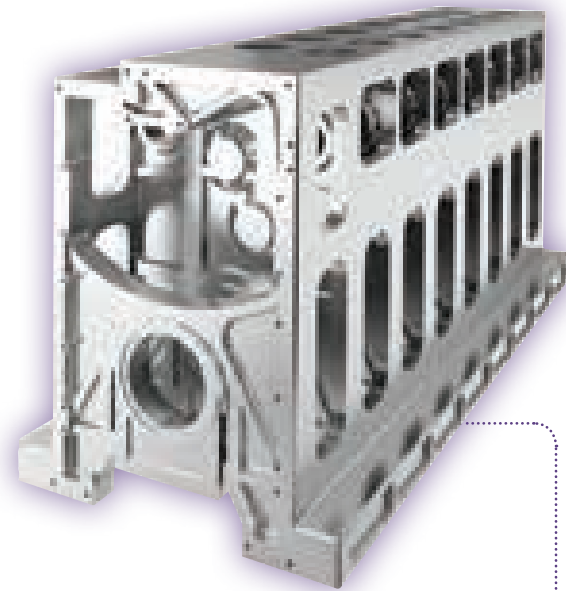


SHIPBUILDING INDUSTRY

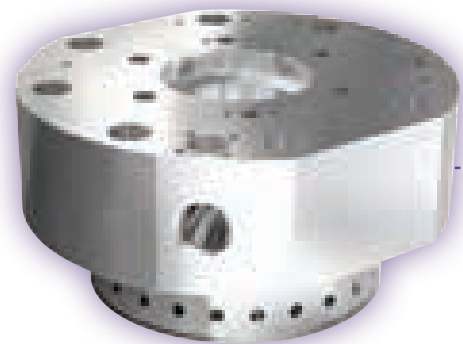
The shipbuilding industry, which has been around for as long as the human beings' history, has been tremendously developed during the past 100 years; accordingly as to the growing volume of world trade. Korloy provides safe and innovative solutions for high-tech machining for shipbuilding structures such as cylinder blocks, cylinder covers, crank shafts, crank cases, propellers, and etc.



INTRODUCTION OF SHIPBUILDING ENGINE PARTS



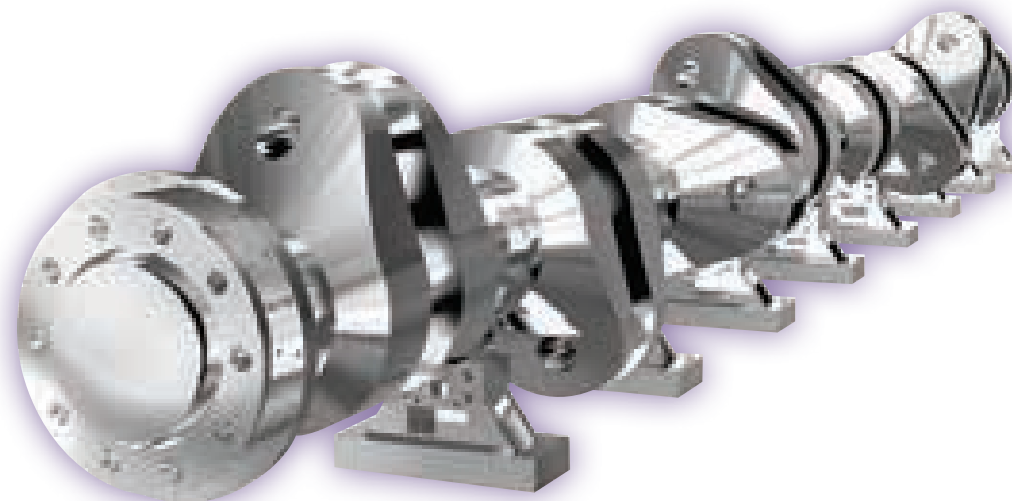
Cylinder Block



Cylinder Cover



Piston Head



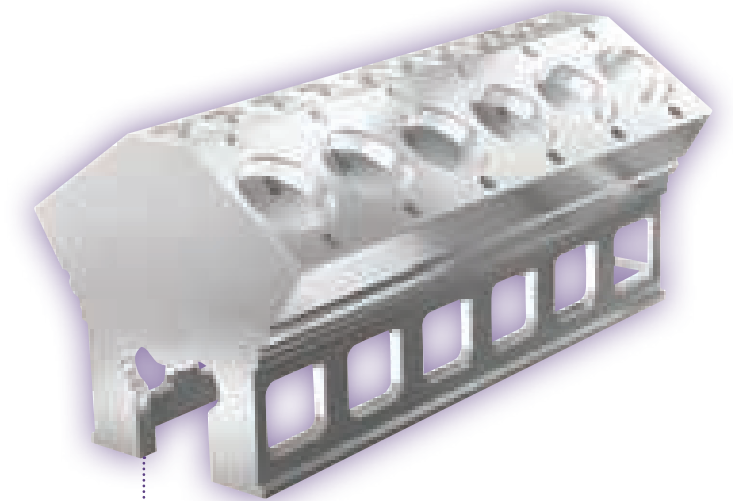
Crank Shaft



Shaft



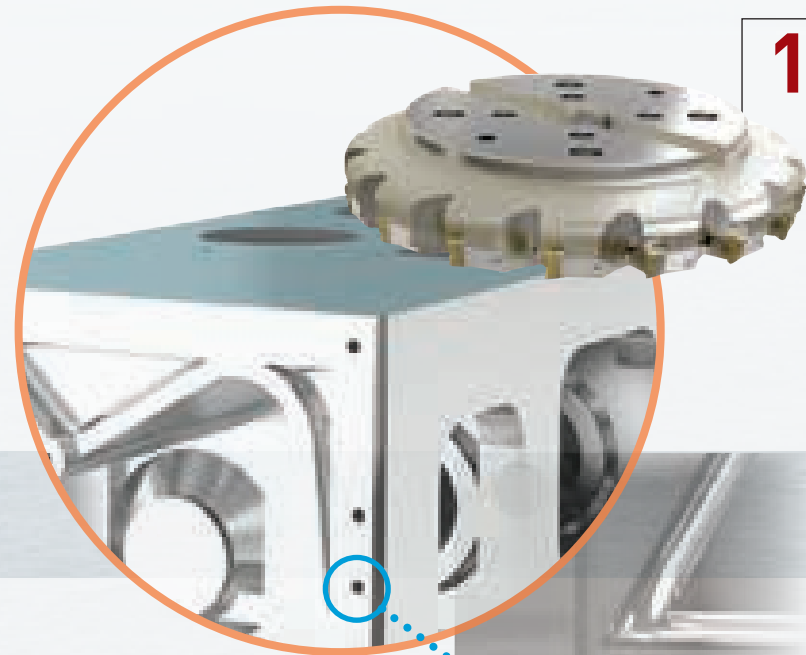
Propeller



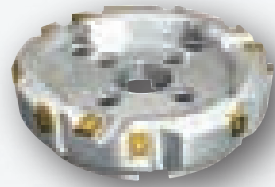
Crank Case

Cylinder Block

Cast Iron, Steel



1 Power Buster/
Special Facing Cutter <PBZ>
[Top & Bottom Plane]
: Roughing/ Finishing



5 Balance Cutter
for Big Hole Boring
<TBC, FBC>
[Cylinder Liner Bore]
: Internal & Special Boring

6 Rich Mill / Adjustable Special
Facing Cutter <RM8(Rich Mill)>
[Side Milling of Block]
: Roughing & Finishing



2 Indexable Drill <SPD/NPD>
[Cylinder Block Hole]
: Centering & Drilling



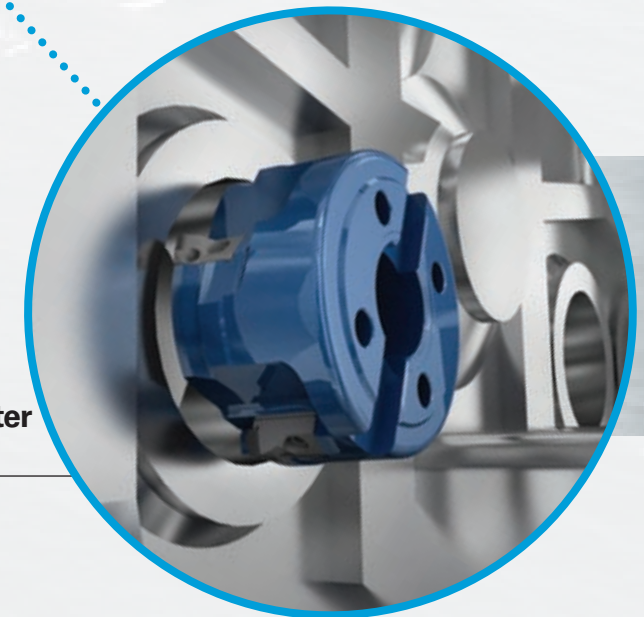
3 Exchangeable Drill <TPDB, TPDC>
[Cylinder Block Hole]
: Centering & Drilling



4 Special Form Cutter
[Bearing Cap Seat]
: Special Form machining

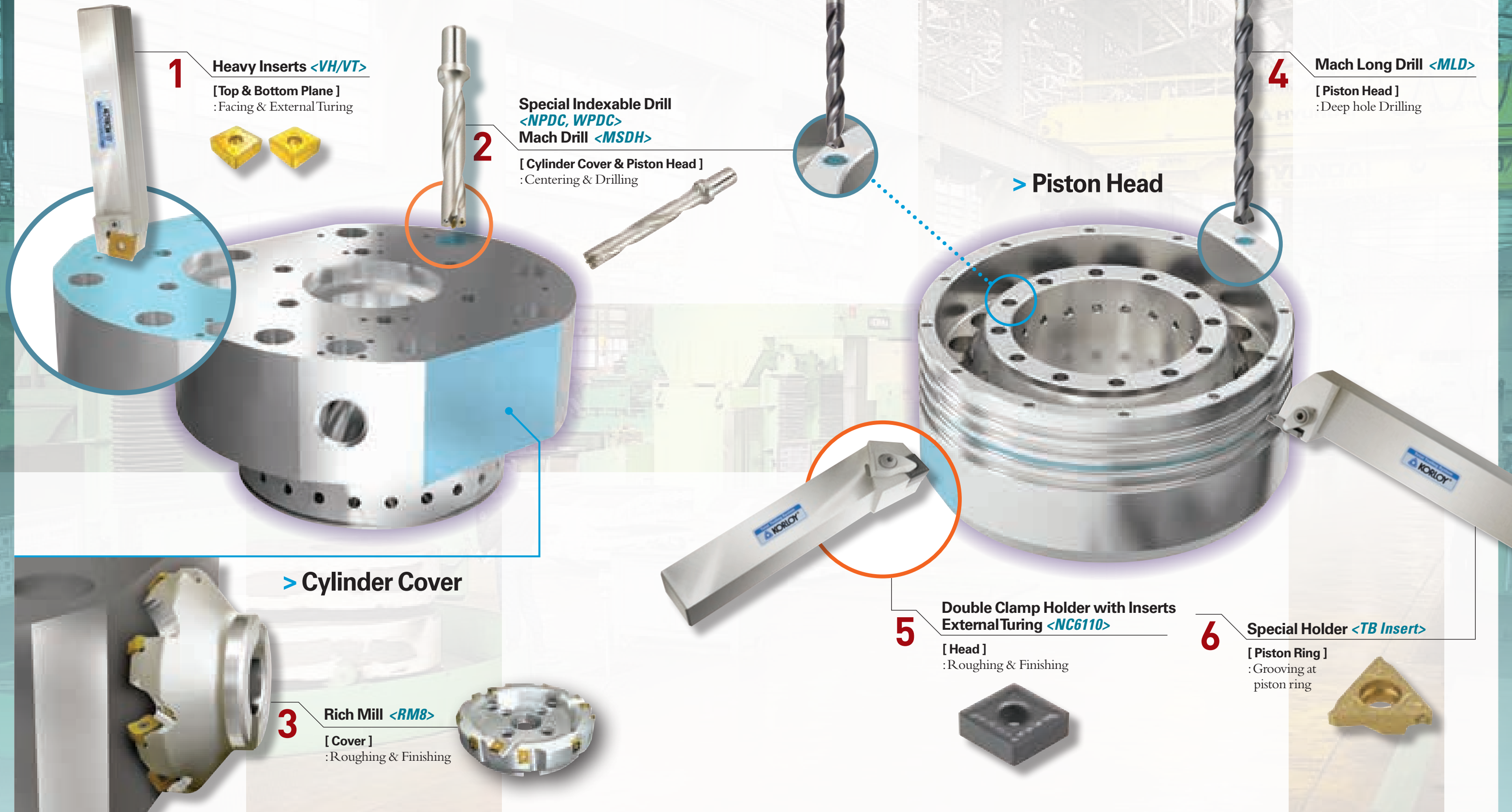


7 Special Boring Cutter
<Boring Cutter>
[Cylinder Bore]
: Roughing & Finishing



Cylinder Cover /Piston Head

Carbon Steel / Cast Iron



1 Heavy Inserts <VH/VT>
 [Top & Bottom Plane]
 : Facing & External Turning

2 Special Indexable Drill
 <NPDC, WPDC>
 Mach Drill <MSDH>
 [Cylinder Cover & Piston Head]
 : Centering & Drilling

4 Mach Long Drill <MLD>
 [Piston Head]
 : Deep hole Drilling

> Cylinder Cover

> Piston Head

3 Rich Mill <RM8>
 [Cover]
 : Roughing & Finishing

5 Double Clamp Holder with Inserts
 External Turning <NC6110>
 [Head]
 : Roughing & Finishing

6 Special Holder <TB Insert>
 [Piston Ring]
 : Grooving at piston ring

Crank Shaft

Forged Steel

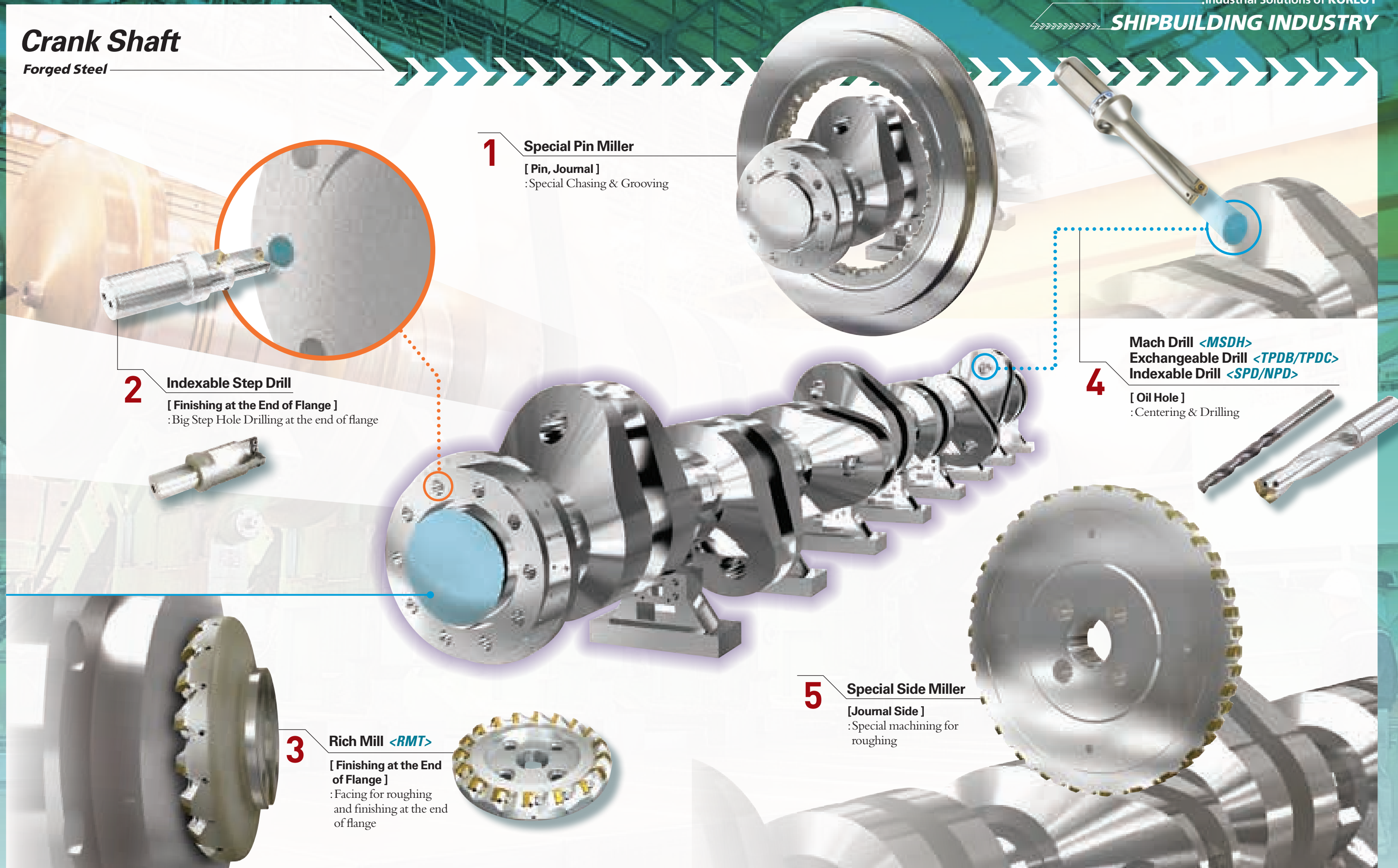
1 Special Pin Miller
[Pin, Journal]
: Special Chasing & Grooving

2 Indexable Step Drill
[Finishing at the End of Flange]
: Big Step Hole Drilling at the end of flange

4 Mach Drill <MSDH>
Exchangeable Drill <TPDB/TPDC>
Indexable Drill <SPD/NPD>
[Oil Hole]
: Centering & Drilling

3 Rich Mill <RMT>
[Finishing at the End of Flange]
: Facing for roughing and finishing at the end of flange

5 Special Side Miller
[Journal Side]
: Special machining for roughing



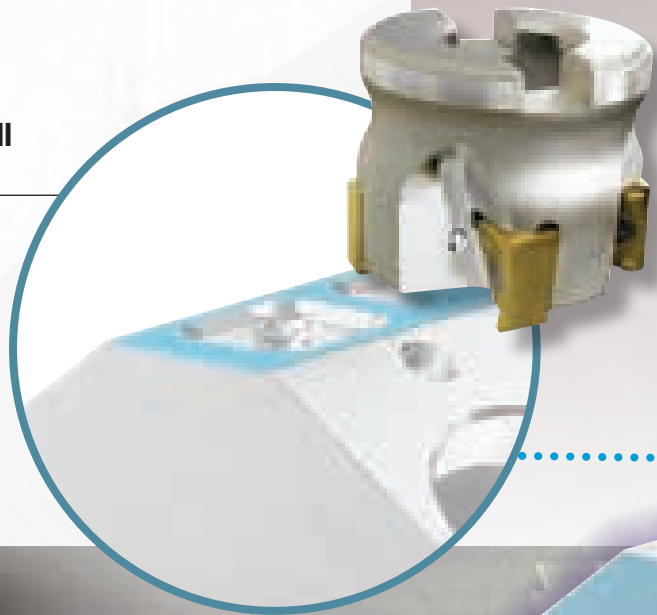
Crank Case

Cast Iron

1

Rich Mill / Alpha Mill
<RM4 / Alpha Mill>

[CaseTop]
: Roughing and finishing for Top Surface Facing



4

Balance Cutter for Big Hole Boring

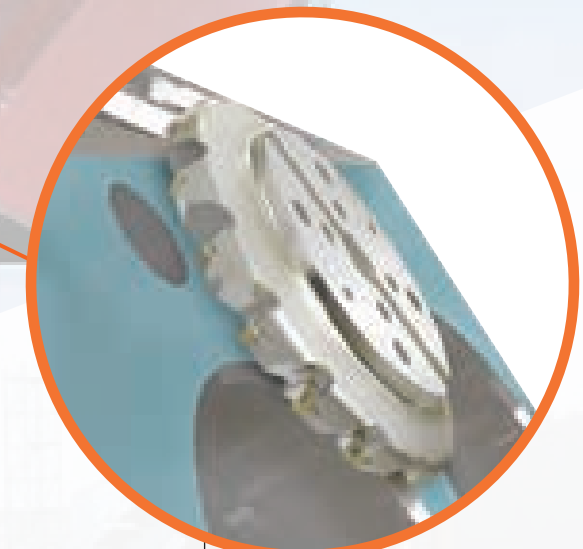
[Cylinder Bore]
: Special Boring; Roughing & Finishing



6

Power Buster <PBA>
Rich Mill <RMT>

[Case Head Deck]
: Roughing and finishing for Case Head Deck Facing



5

Special Indexable Drill
Exchangeable Drill <TPD>
Indexable Drill <NPD>

[Case Hole]
: Drilling for Small to Big Diameter



2

Power Buster <PBA, PBZ>

[Front & Rear plane]
: Heavy duty Milling



3

Special Form Cutter

[Bearing Cap Seat]
: Special Form machining



Propeller

Copper Cast Iron

1 Forming <Face Cutter>

[Propeller Blade]
: Ramping and Copying
(Roughing and Finishing)

3 HRMD <HRM Double>

[Propeller Boss]
: Facing
(Roughing and Finishing)

2 Indexable Drill <SPD, NPD>

[Propeller Hole]
: Drilling

4 Special Edge Miller

[Propeller Edge Plane]
: Special Edge Milling

Shaft

Alloy Steel

1 Inserts for Heavy Duty Machining <VH/VT(NC500H, CX269)>

[Shaft external/profile]
: Turning for heavy duty machining

