

ENGINES' OVERHAULING

Why Techmarine ?

- Many years of experience
- High tech workshop equipped with professional machines and tools
- Services performed with the highest standards all over the world
- Cooperation with international companies
- Using the best technologies

Engines' overhauling:

■ Medium speed engines:

MaK, MAN, WÄRTSILÄ, DEUTZ, SULZER, DAIHATSU, YANMAR, HYUNDAI and others

■ High speed engines:

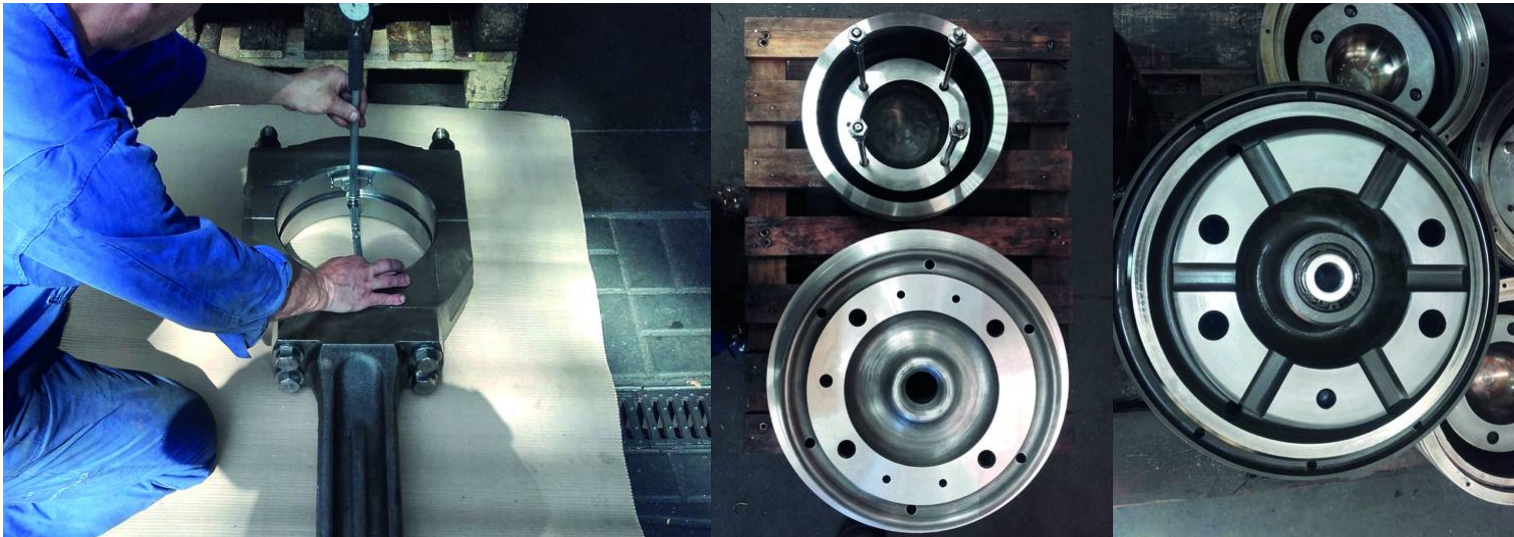
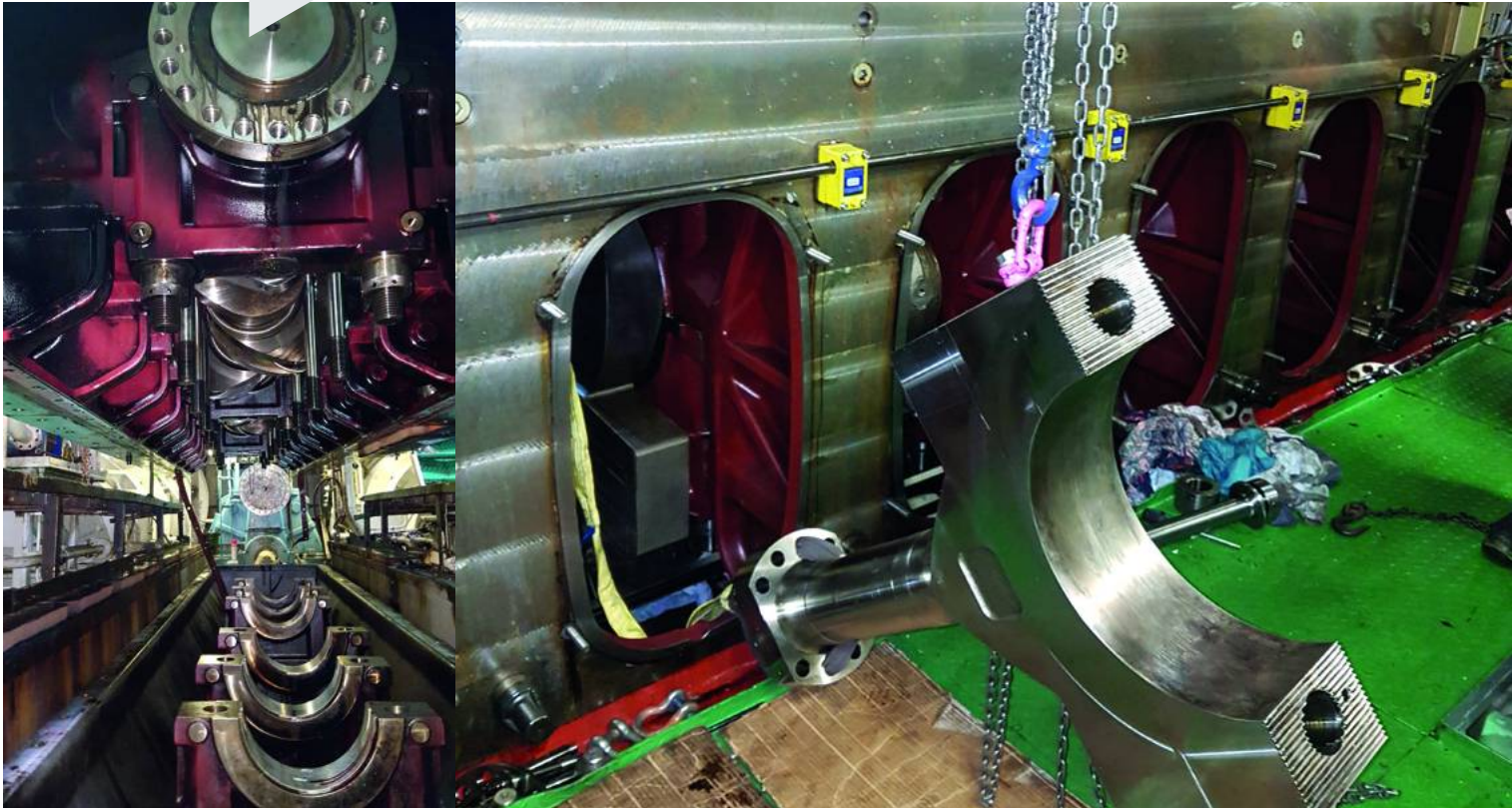
CATERPILLAR, VOLVO PENTA, MAN, SCANIA, DEUTZ, SISU/VALMET, CUMMINS, YANMAR, MERCEDES/MTU and others



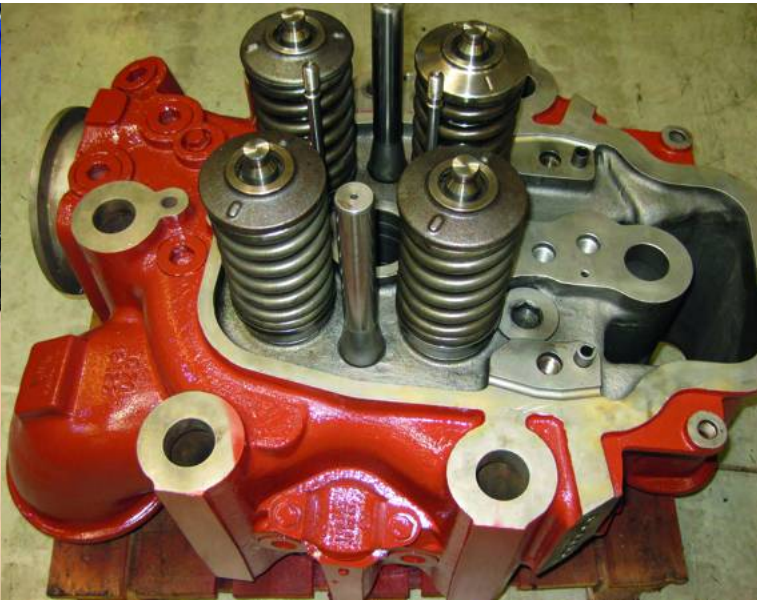
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**VOLVO
PENTA**

SANDFIRDN Authorized
Service partner



In order to receive
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our office

RECONDITIONING BY METALIZING

New reconditioning method – Metalizing

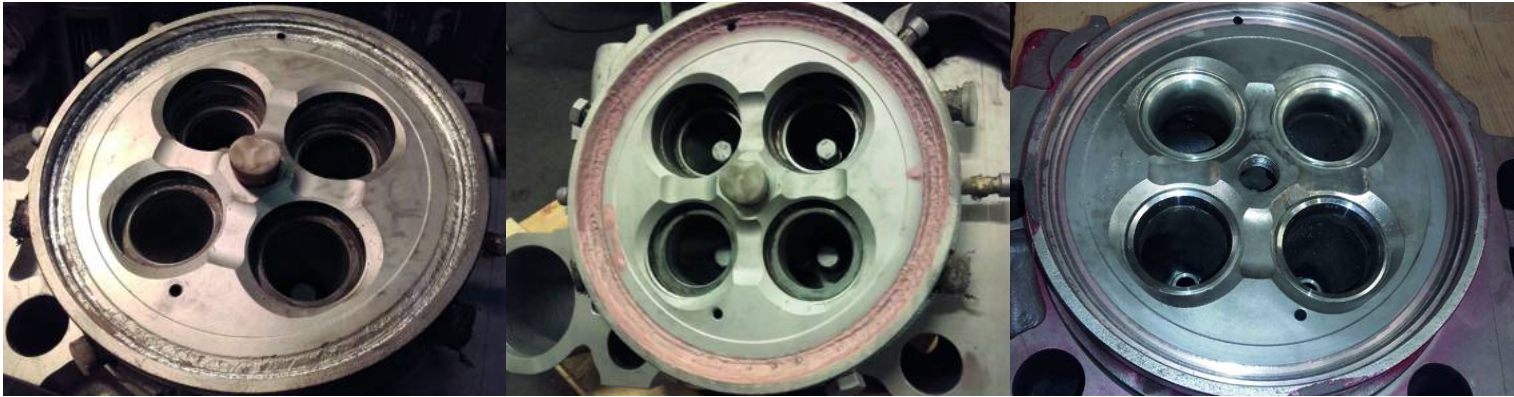
- New method of reconditioning cracks, cavitation and corrosion defects
- No welding
- No risk of additional overheating of the damaged part
- Max. operating temperature is 120 Celsius degrees
- Reconditioning of cast iron, cast steel, steel, aluminum and parts made of color metals



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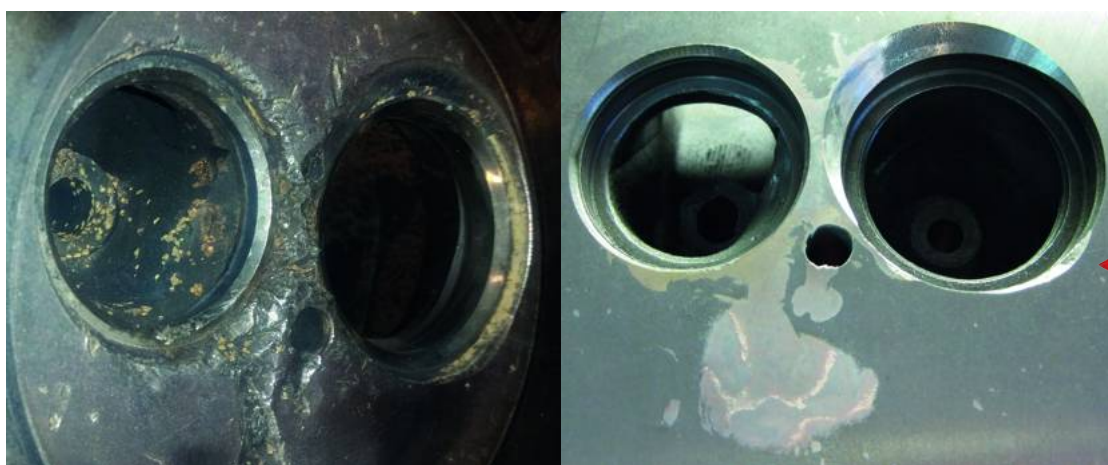
RECONDITIONING BY METALIZING



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ENGINE COMPONENTS' MACHINING

Workshop equipped with stationary and portable machines and tools of the highest quality.

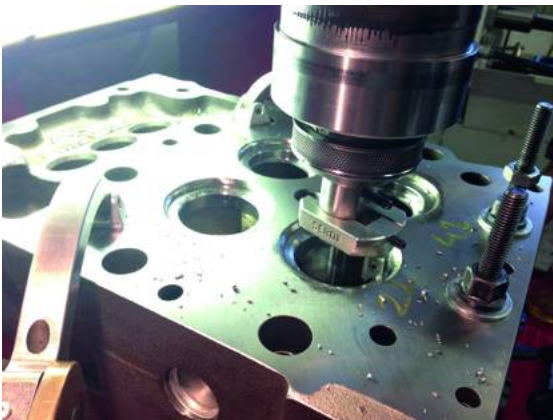


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ENGINE COMPONENTS' MACHINING

HIGH SPEED ENGINES – GRINDING OF THE CYLINDER HEAD'S SEATS



HIGH SPEED ENGINES – GRINDING OF THE CYLINDER HEAD'S SEATS

MEDIUM SPEED ENGINES – REBORING OF THE VALVE SEAT RINGS FOR THE OVERSIZE



VALVES GRINDING



ENGINE COMPONENTS' MACHINING

CYLINDER BLOCK – LINE BORING OF THE MAIN BEARING CAPS



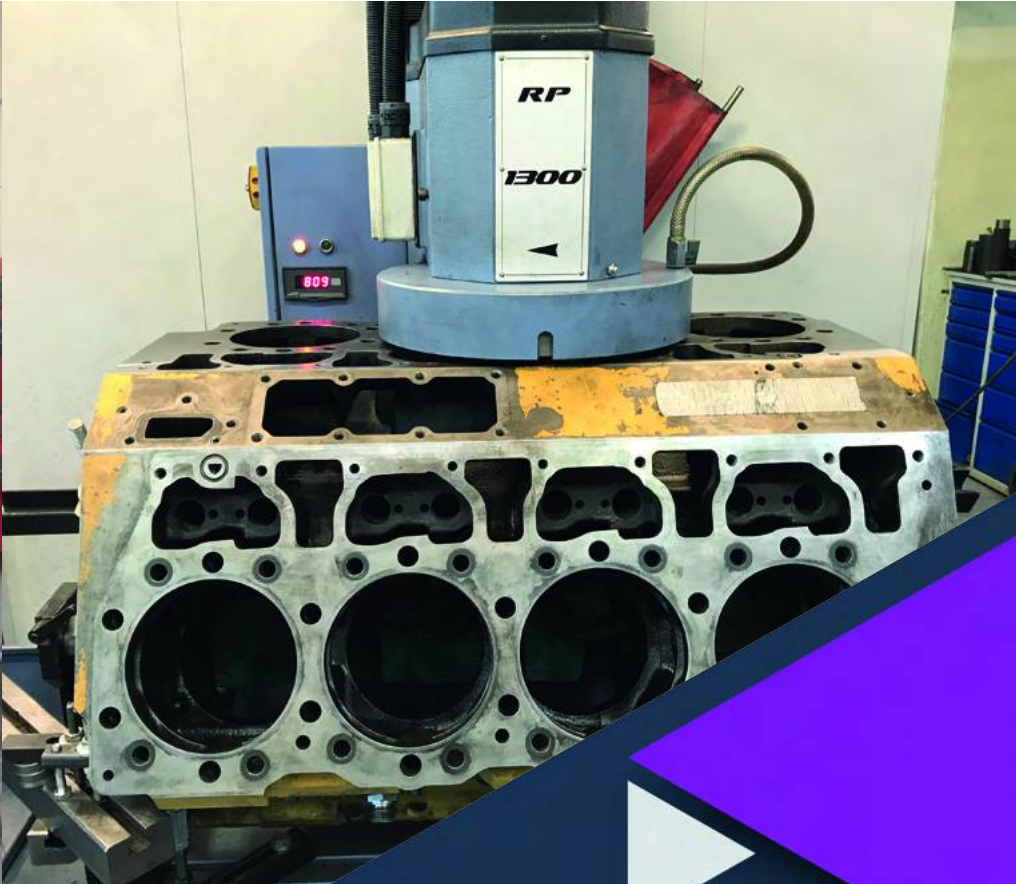
CYLINDER BLOCK – HONING OF THE MAIN BEARING CAPS



HIGH SPEED ENGINES – MACHINING OF THE CYLINDER LINER'S SEATS



CYLINDER BLOCK'S TOP DECK MACHINING



ENGINE COMPONENTS' MACHINING



CYLINDER HEAD'S LANDING SURFACE MACHINING



MEDIUM SPEED ENGINES - GRINDING OF THE VALVE SEATS



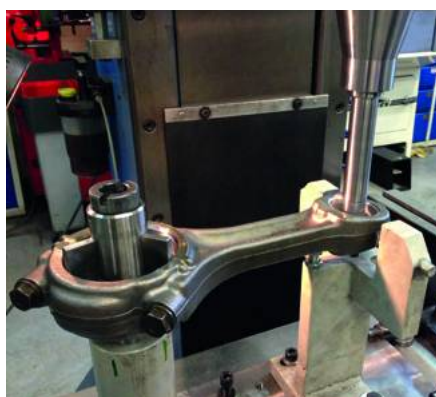
HIGH SPEED ENGINES - HONING OF THE CYLINDER LINERS



HONING OF THE CYLINDER LINER



CYLINDER LINER'S LANDING SURFACE GRINDING



HIGH SPEED ENGINES - MACHINING OF THE CONNECTING ROD'S SMALL END BEARING



HIGH SPEED ENGINES - RECONDITIONING OF THE CONNECTING ROD'S BIG END BEARING



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SPARE PARTS ON EXCHANGE BASIS

Cylinder heads:

- Cylinder heads for MaK M32C
- Cylinder heads for MaK M20
- Cylinder heads for MaK M25
- Cylinder heads for Wärtsilä W20
- Cylinder heads for Caterpillar 3412
- Cylinder heads for Caterpillar 3512

Engines & components:

- Complete engine Caterpillar C9
- Complete engine Caterpillar C18
- Engine components
for Caterpillar C18 engine



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SPARE PARTS ON EXCHANGE BASIS



CAT 35XX



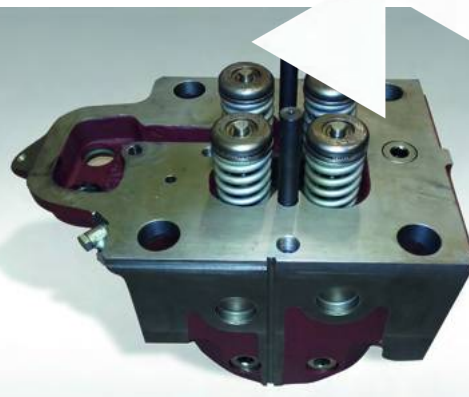
CAT 3412



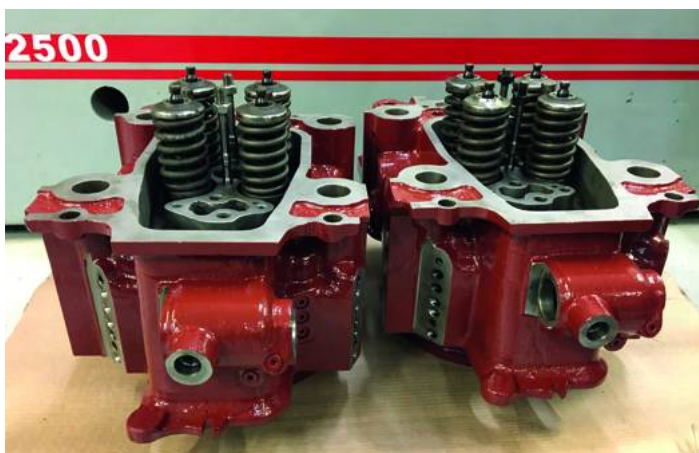
CAT C18



MAK M32



WÄRTSILÄ W20



MAK M20



MAK M25



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SPARE PARTS

for Caterpillar & Volvo Penta

Spare parts for Caterpillar engines / computer diagnostics:

- Official dealer of the IPD spare parts for Caterpillar engines
- High quality spare parts manufactured by IPD company since 1955
- Caterpillar engines' services and computer diagnostics

Volvo Penta spare parts / authorized service:

- Volvo Penta Service Dealer since 2014
- Original Volvo Penta spare parts
- Volvo Penta engines' services and computer diagnostics



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