Sumitomo Drive Technologies

HANSEN INDUSTRIAL TRANSMISSIONS

COOLING TECHNOLOGIES

V10/07/2023 internet version

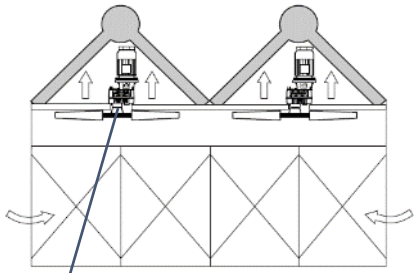
Edwin Houberg – Sales manager Global Key Accounts

PRODUCT - APPLICATION

Sumitomo Drive Technologies

Parallel gearbox

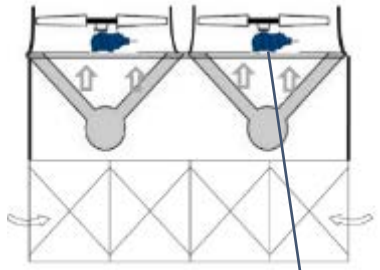
FOR AIR COOLED CONDENSERS
A-Frame (Forced draft)



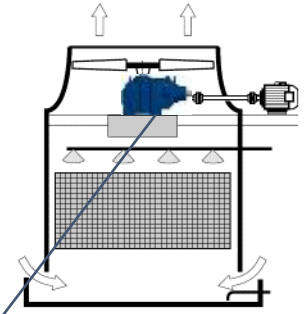
01 Hansen M4ACC

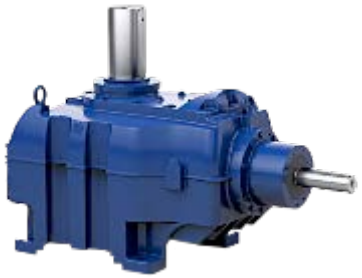
Right-angle gearbox

FOR AIR COOLED CONDENSERS
V or W-frame (Inducted draft)



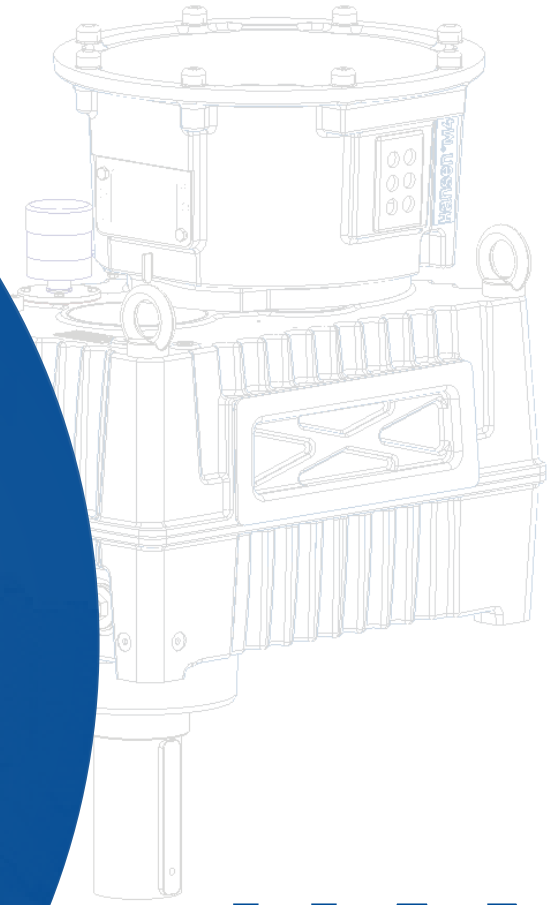
FOR WET COOLING TOWERS





02 Hansen M5CT

Sumitomo Drive Technologies

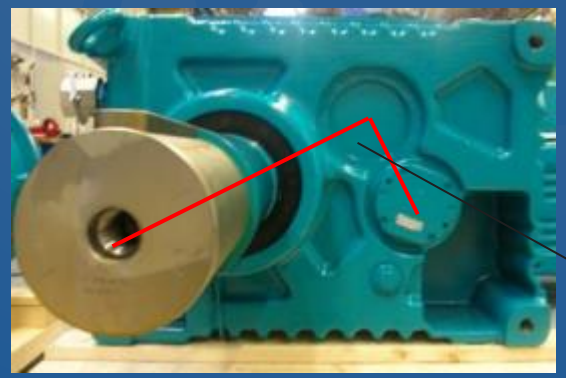


01 HANSEN M4ACC

M4ACC

Sumitomo Drive Technologies

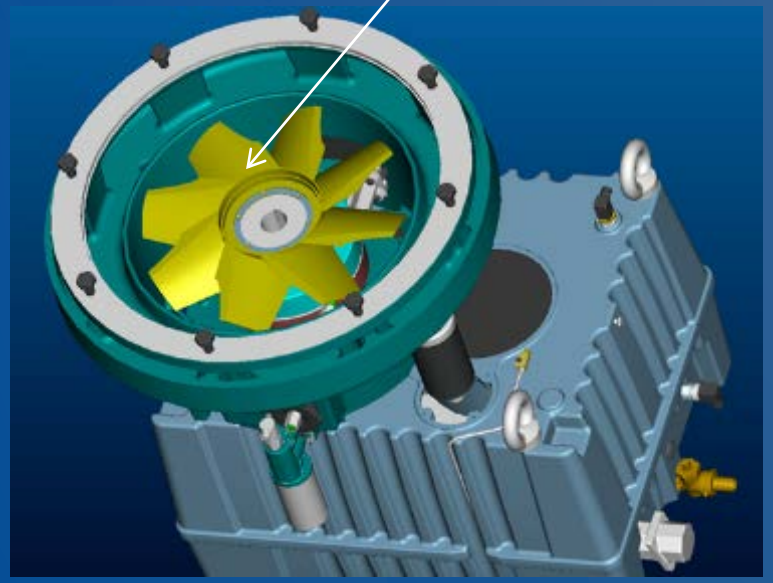
- **DEDICATED DESIGN TO THE FORCED DRAFT ACC**
- **MONOBLOCK HOUSING**
  - Higher stiffness
  - Unique design
- **NO EXTERNAL PIPING & INTEGRATED DRYWELL**
  - Less leakage risk



- Configuration angle: High Speed Shaft HSS 90folded
- Bearing lifetime > 100.000 h

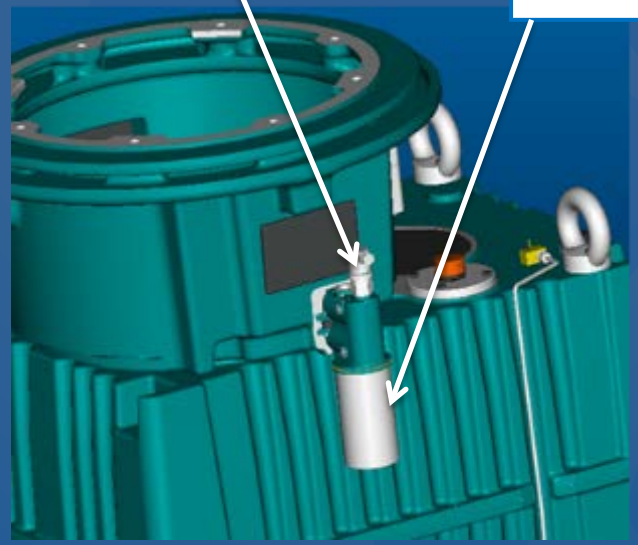
NUMEROUS INSTRUMENTS & ACCESSORIES

Optional a fan can be integrated in the lantern



Pressure switch

Spin on filter, flanged on the lantern



Possibility to connect:

- Mechanical contamination indicator
- Electrical contamination indicator
- Pressure switch
- Pressure transmitter
- Manometer

- Shaft sealing options
- Temperature monitoring
- Backstop
- Level switch
- Drain cock
- Heater
- Breather types
- Vibration monitoring

NUMEROUS INSTRUMENTS & ACCESSORIES

‘Mobile’ Brake system

With this brake the operator can safely slow down and stop the gear unit from turning and hold the gear unit during maintenance activities.

Patented

M4ACC PRODUCT LINE-UP

Sumitomo Drive Technologies

20-70kNm

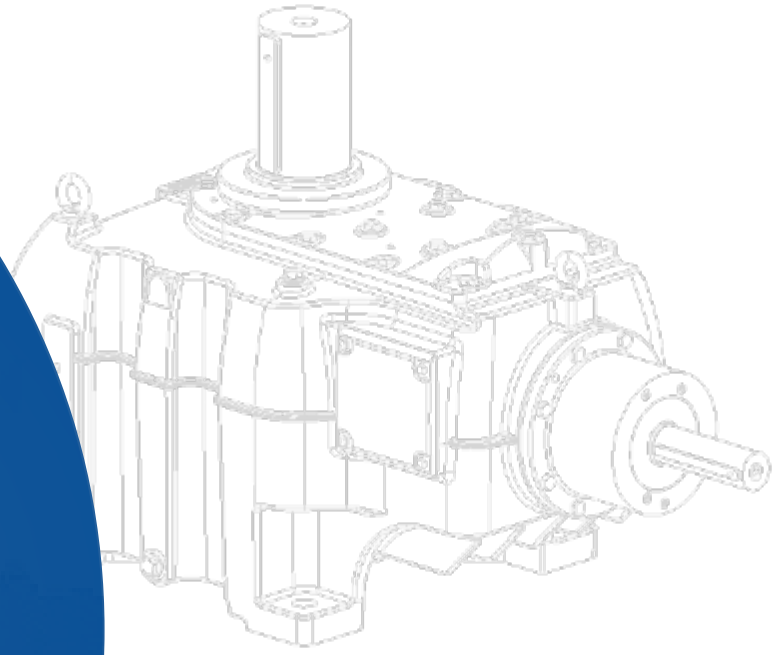
6sizes

2-stage
(parrallel)

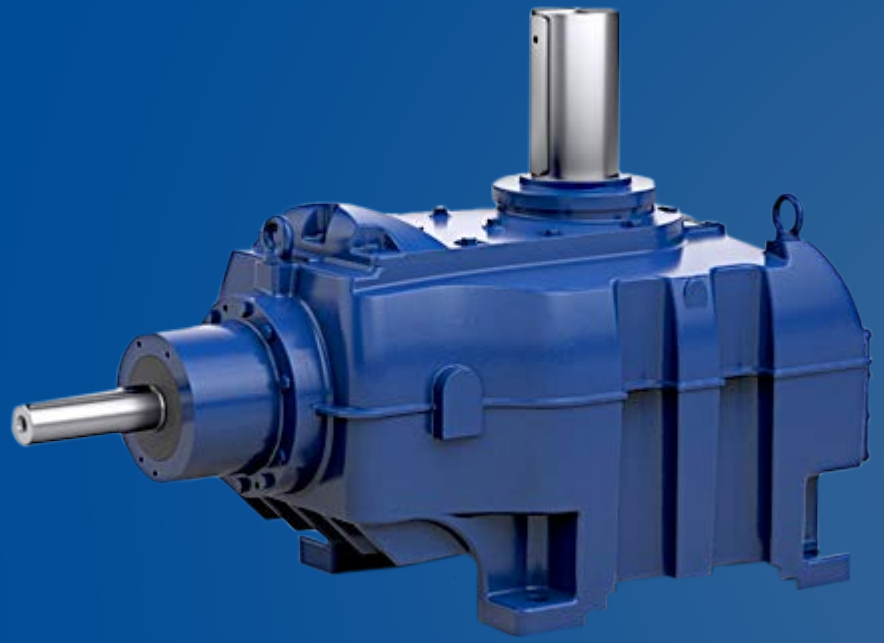
9 – 25
(Reduction ratios)

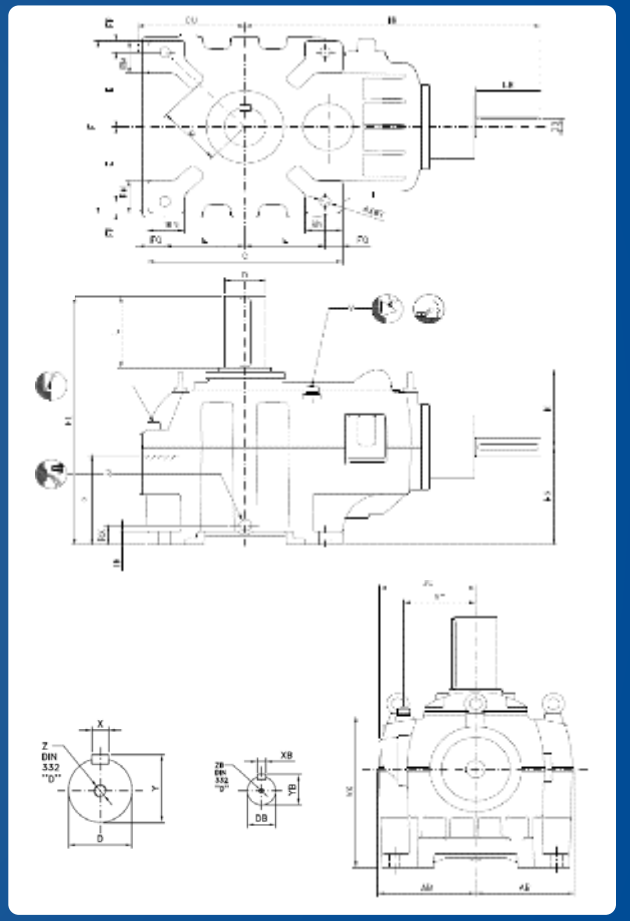
✔ **OUR 'DEDICATED' PRODUCTS OFFER A COST EFFECTIVE, ROBUST & EFFICIENT SOLUTION**

Sumitomo Drive Technologies



HANSEN M5CT

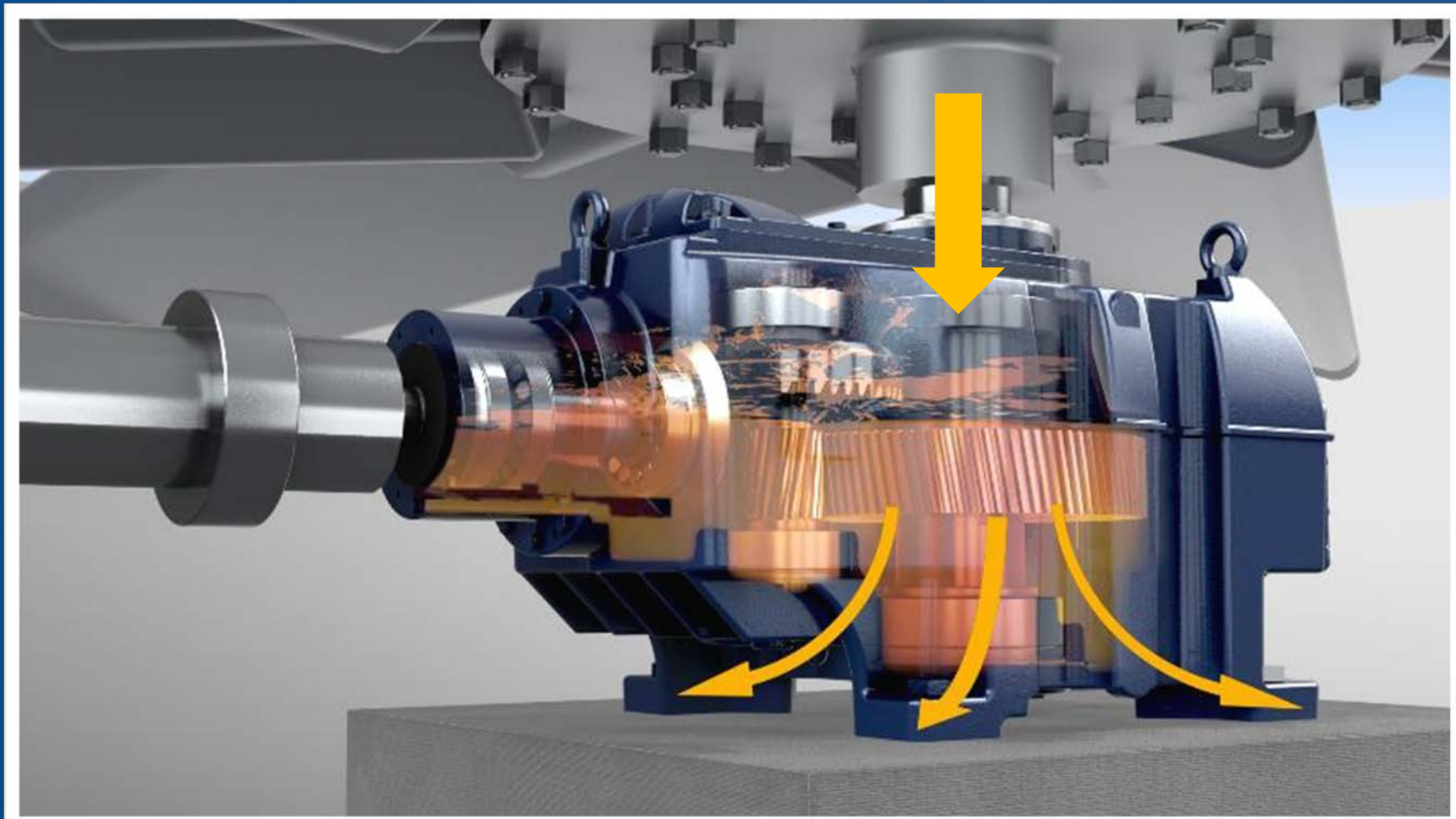




NEW RIGHT ANGLE INDUSTRIAL GEARBOX SERIES, DEDICATED FOR FOR INDUCED DRAFT COOLING TECHNOLOGY

M5CT DESIGN

Sumitomo Drive Technologies



DEDICATED & ROBUST

- Smooth transition of high forces from the center bore to the mounting feet.
- Extended Bearing span with heavy-duty roller bearings for strong shaft support

M5CT
COOLING & LUBRICATION

Sumitomo Drive Technologies

CURVED DESIGN WITH COOLING FINS AND FLEXIBLE COOLING OPTIONS

- High thermal ratings

RELIABLE LUBRICATION SYSTEM VIA OIL SPLASH

- Simple & safe lubrication without monitoring instruments (e.g. no cabling needed)

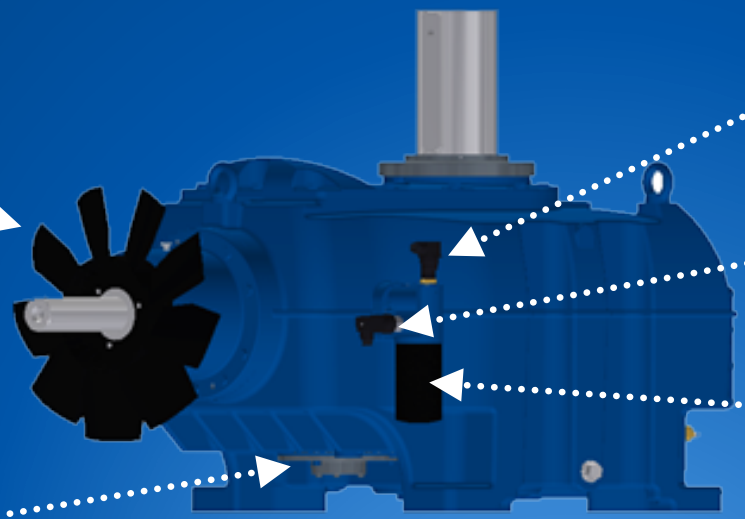
NO EXTERNAL PIPING

- Easy to install without damages

HIT SOLUTIONS M5CT
INSTRUMENTS & ACCESSORIES

Sumitomo Drive Technologies

NUMEROUS INSTRUMENTS & ACCESSORIES



- Shaft sealing options
- Temperature monitoring
- Backstop
- Level switch
- Drain cock
- Heater
- Breather types
- Vibration monitoring

M5CT PRODUCT LINE-UP

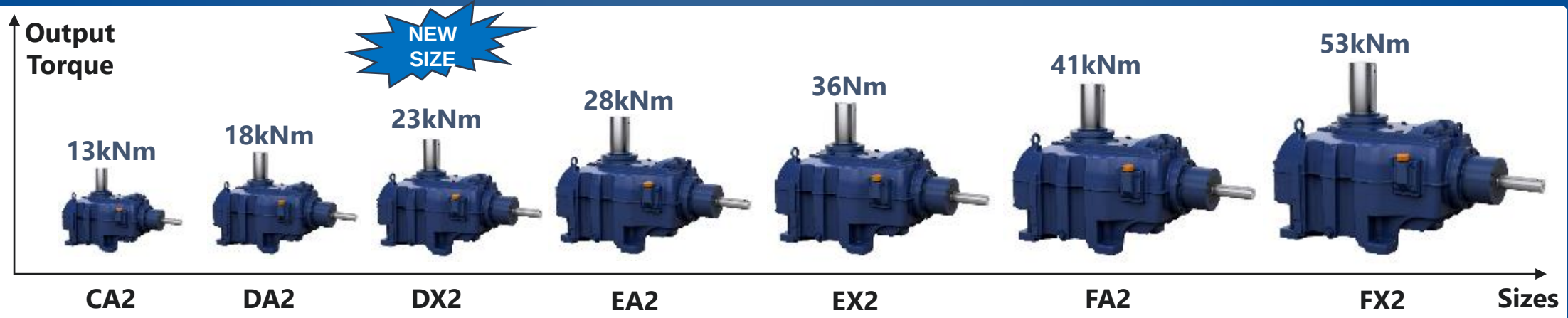
Sumitomo Drive Technologies

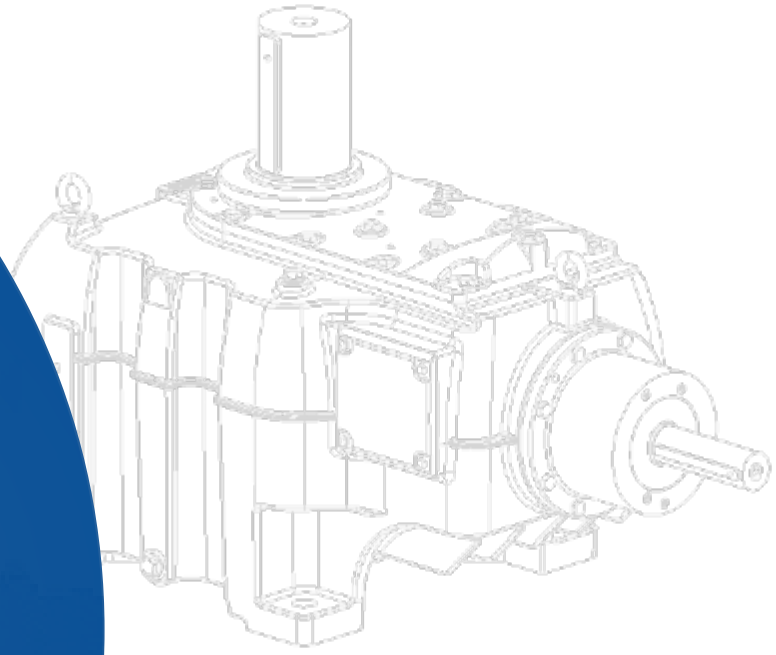
BEST OUT OF 3 PRODUCT LINES

- Hansen P4/M4ACC and PARAMAX SFC

Rely on decades of experience and more than 30.000 installations in the field

13-53kNm	**7 sizes**
2-stage (Right-angle)	**6.3 – 22.4** (Reduction ratios)





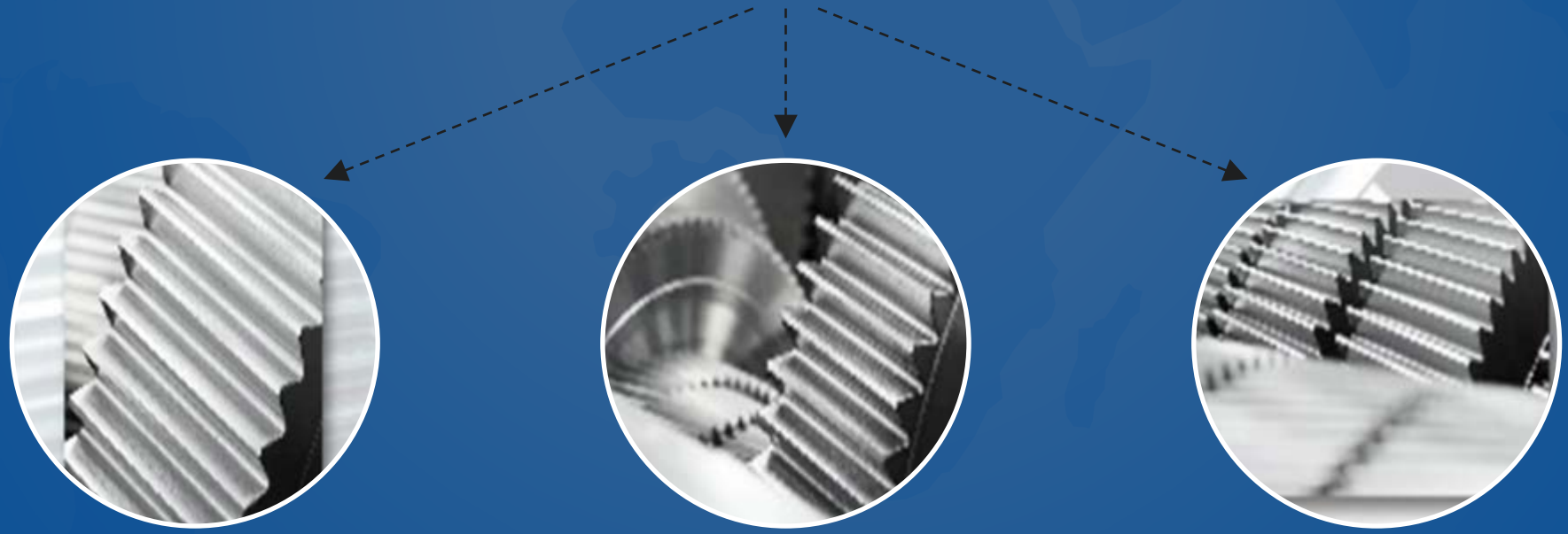
03 REFERENCES

GEAR QUALITY

Sumitomo Drive Technologies

- M5CT, and M4ACC gearboxes have one of the highest torque densities in the market

Proven design, maximum load capacity, minimum losses, and quiet operation



PRODUCTION

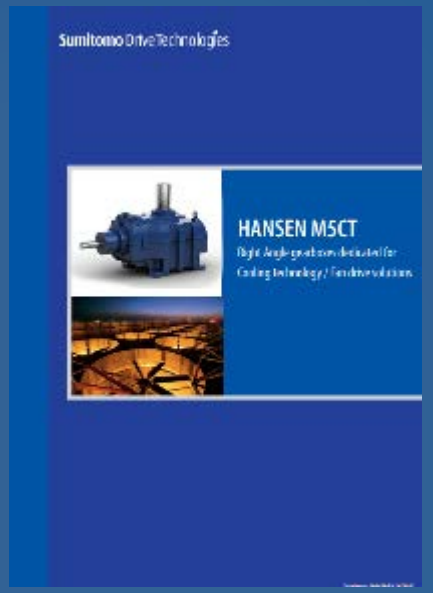
Sumitomo Drive Technologies

PRODUCED AT HANSEN INDUSTRIAL TRANSMISSIONS NV, LOCATED IN BELGIUM

- +100 years of experience, in-house technology for heat treatment, cylindrical- and bevel gear grinding, machining of housing, assembly, testing and service.

CATALOGUES HANSEN CT PRODUCTS

Hansen P4 WCT
Hansen M4ACC



Hansen M5CT

https://emeia.sumitomodrive.com/en-gb/page/hansen-industrial-gearboxes-brand

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THANK YOU
FOR YOUR ATTENTION