IT'S NOT JUST IRON, **IT'S KNOWLEDGE**

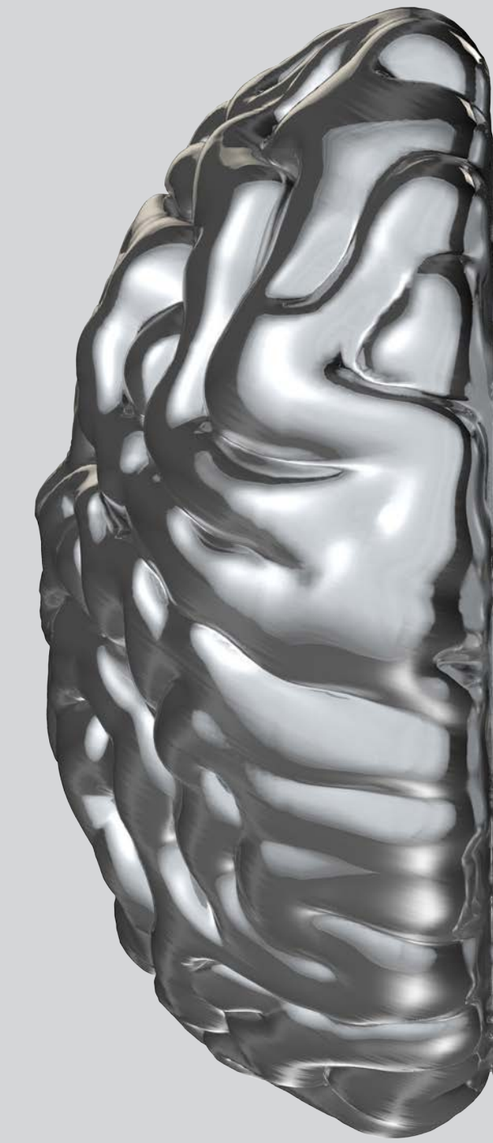
DANIA
A Member of MAT Foundry Group

YOUR VISION, OUR MISSION

MACHINE POWER IS NOTHING WITHOUT **BRAIN POWER**

Optimal and flexible production facilities is one thing. But add to that highly skilled people with decades of experience and a flexible service concept that can be tailored to your exact needs, and you have our masterplan for best in class cast iron solutions.

WHAT WE DO:
Simple and complex core-intensive iron castings, primarily in medium-sized batches along with optional surface treatment and machining. We offer tailor made parts, ready for your assembly line.



THE **DIFFERENCE** BETWEEN A GOOD AND A GREAT OUTCOME

THE OVERVIEW OF OUR COMPANY

CONTACT

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BANK: Nordea, Aalborg
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LOCATIONS

DENMARK
Established: 1947
Employees: 200+
Location: Aars
Production area: 21.200 m²
Foundry, sales and technical support (Europe)

POLAND
Established: 2013
Employees: 95+
Location: Słupno (close to Warsaw)
Production area: 2,600 m²
Machine shop

COMPANY OVERVIEW – DANIA GROUP

MAIN GEOGRAPHIC COVERAGE Europe
NUMBER OF PRODUCTION SITES 2 (Denmark and Poland)
NUMBER OF SALES AND TECHNICAL SUPPORT OFFICES
2 (Denmark and Poland)
CAPACITY 26,000 tons/year
OWNERSHIP MAT Holdings, Inc.: 100 %

COMPANY OVERVIEW – MAT HOLDINGS

FOUNDED 1984 in USA
EMPLOYEES 15,000 globally
PRODUCTION USA, Europe and Asia

MAT Holdings, Inc. is a privately held, globally diversified manufacturing, marketing, and distribution company, providing quality products and trusted brands to two business categories – Automotive and Consumer. The Automotive segment is further broken down into the MAT Foundry Group, which manufactures castings for automotive and industrial applications.

OUR HISTORY

2013 Machine shop founded in Poland by Dania
2012 Dania A/S sold to MAT Holdings, Inc.
2000 Dania acquires Vest Dansk Maskinfabrik A/S
1970 Dania moves from Aarhus to Aars
1947 Jernstøberiet Dania A/S founded in Aarhus

OUR ROADMAP TO YOUR SUCCES

Each customer and project is a unique journey. However, our point of departure is always the needs and requirements of your business. Honed through decades of experience, our tool to deliver you a customized quality long-term solution is a focused process model that offers you total transparency in all aspects from start to implementation. It is a powerful framework to securing you a solution you can count on, every time.

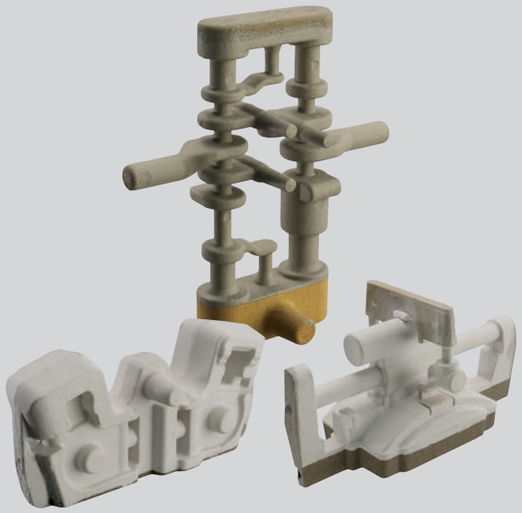
A FOCUSED PROCESS CENTRED AROUND YOUR BUSINESS

1. CREATING THE PERFECT COMPONENT TOGETHER
2. QUALITY ASSURANCE FROM CONCEPT TO IMPLEMENTATION
3. COMPLEX SOLUTIONS TAILORED TO YOUR NEEDS
4. MAXIMIZING YOUR LONG TERM VALUE

1 CREATING THE PERFECT COMPONENT TOGETHER

YOU CANNOT BE RIGHT **WITHOUT LEFT**

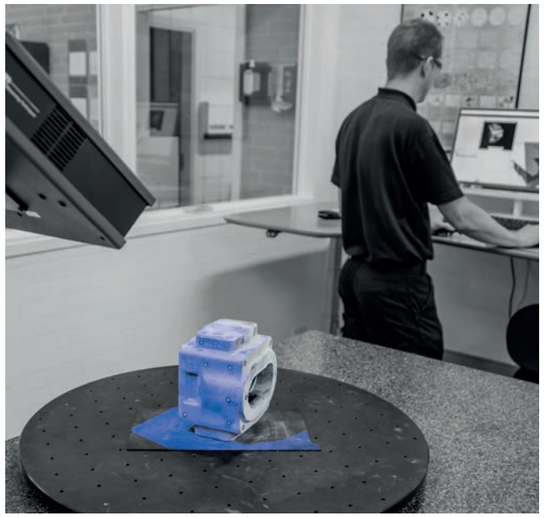
Both innovative skills and analytical talent are needed to engineer the perfect casting solution. But before things get really technical we need intimate knowledge of your business and the challenge at hand. Thorough groundwork and optimization of the component's shape are essential for getting it right the first time. This means sitting down together, boiling the project down to the bare facts. What, how and when. Once we fully agree on the best solution, all we have to do then is make advanced processing power available to highly skilled specialists.

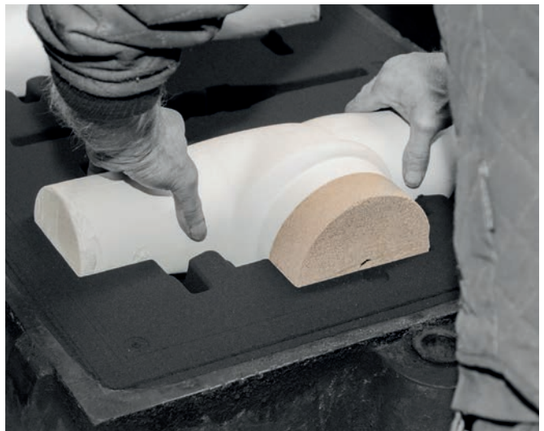


2 QUALITY ASSURANCE FROM CONCEPT TO IMPLEMENTATION

MASTERING IRON CASTING IS A **QUESTION OF TRUST**

Your value chain is only as strong as its weakest link. That is why trust is everything in our business. At Dania, we are certified within quality assurance, energy and environmental management and regularly invest in new technology to increase precision and quality. Our organization is staffed with motivated, dedicated and skilled employees, who secure a safe work environment. Everything is set up to deliver you consistently high quality now and in the future.





TESTING

Our in-house laboratories conducts regular analyses of the chemical and physical properties. Our inspection department takes measurements in 3D measuring machines and 3D scanners ensure you the best quality standard possible.

3 COMPLEX SOLUTIONS TAILORED TO YOUR NEEDS

THIS IS NOT A **NO-BRAINER**

Complex, core-intensive components are just that, complex. Our flexible organizational setup makes the process from initial concept to final implementation run as smooth as possible for you. We offer you the experience, the machine power, and the brain power to handle virtually any casting challenge, and tailor it to your business. Our specialties are machine-moulded components in nodular and grey iron, with a casting weight of 0.5 kg - 65 kg, and complex hydraulic castings, all delivered with superior and pressure-proof quality, and on time, every time.

DELIVERED STRAIGHT TO YOUR VALUE CHAIN
Our logistics capabilities ensure delivery of castings to mesh perfectly with your supp ly chain.

TECHNICAL SPECIFICATIONS

MOULDING PLANTS:
- DISAMATIC 2013 MK5 600 x 480 x (300)
- HWS 750 x 550 x (300/300)

CORES:
- Cold box, hot box and croning up to 20 kg

PATTERNS:
- Modern pattern shop with machining facilities for manufacture of CNC-patterns on the basis of 3D-files
- Simulation of solidification and mould-filling with Magmasoft

MELTING:
- 3 6-ton medium frequency furnaces
- 2 holding furnaces

HEAT TREATMENT:
- Ferritizing annealing
- Stress relief annealing

SURFACE TREATMENT:
- Dip or spray painting with waterbased primer
- Anti-corrosive treatment in oil bath

4 MAXIMIZING YOUR LONG TERM VALUE

COMMON SENSE ALWAYS PAYS OFF IN THE END

At Dania, our core business model is based on creating maximum value for our customers, big or small, without shortcuts. We believe in doing things right the first time. At the end of the day, it is all about understanding your business and maximizing your return of investment.

REALLY LONG TERM VALUE
It is our belief that future generations should have the same privileges we have. That is why, today, 70% of our energy consumption come from renewable sources, and we're constantly increasing energy efficiency in every step of our value chain. Things that last longer, create more value and less waste.

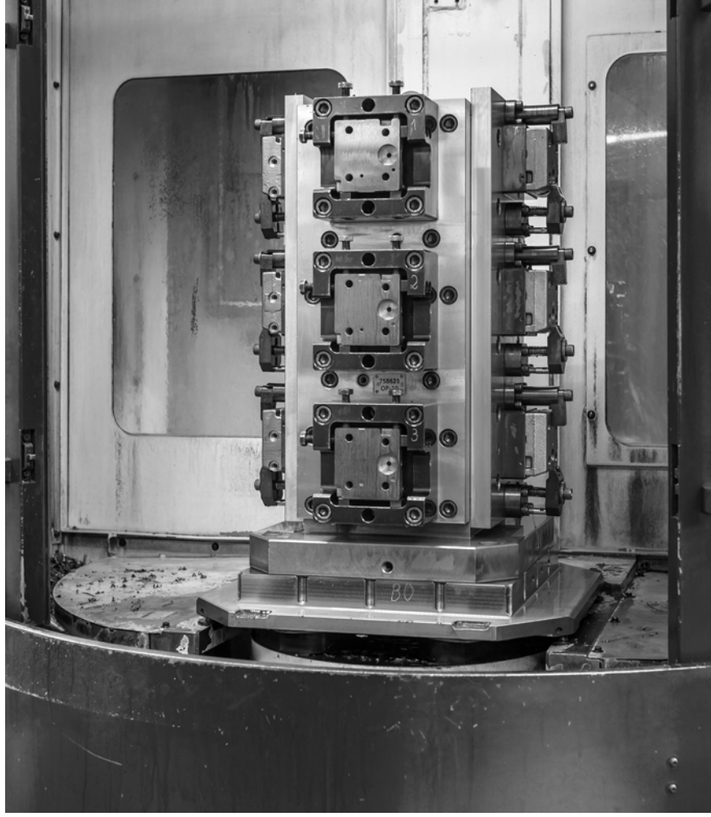
THE PERFECT FINISHING TOUCH?
Iron castings require finishing processing and surface treatment. We offer you access to our highly specialized machine shop. This ensures you problem-free order execution, without any shift in responsibility.

Our machine shop is equipped with state of the art production machinery for processing your products or components ready for assembly. This way, we can save you time, resources and cost.

VALUE CREATION

Our aim is to add maximum value to your product. Each step in our process is designed to create long-term value by employing the full force of our facilities, skills and experienced employees. The added bonus is twofold. Not only does this result in a better and more valuable product, it also reduces costs and increases your competitive power on the market.

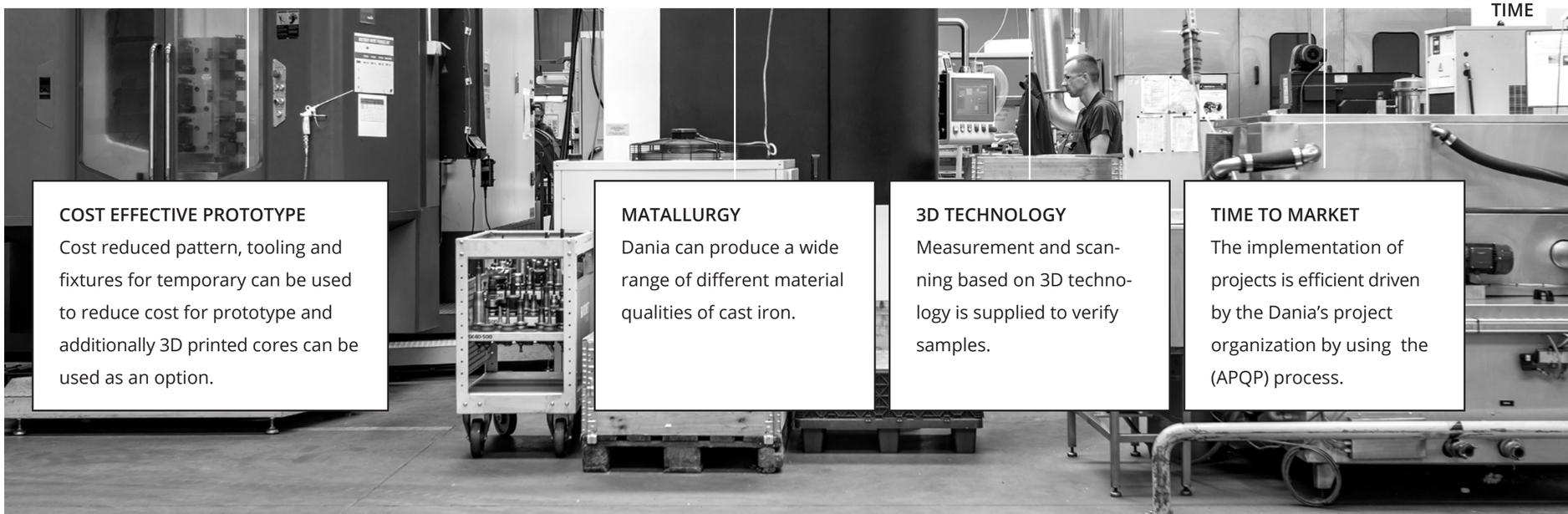
INCREASING **COMPETITIVENESS**



ADDED VALUE FROM DAY 1

ADDED VALUE

TIME



INVESTMENT
Customized pattern, tooling and fixtures shall be manufactured before Dania can produce samples and serial production.

COST EFFECTIVE PROTOTYPE
Cost reduced pattern, tooling and fixtures for temporary can be used to reduce cost for prototype and additionally 3D printed cores can be used as an option.

MATALLURGY
Dania can produce a wide range of different material qualities of cast iron.

3D TECHNOLOGY
Measurement and scanning based on 3D technology is supplied to verify samples.

TIME TO MARKET
The implementation of projects is efficient driven by the Dania's project organization by using the (APQP) process.

IRON GRADES – GREY & NODULAR IRON

EN 1561 (GREY IRON)

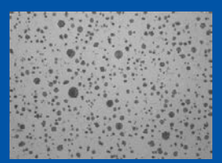
EN-GJL-150
The lower grade of gray iron mainly used for applications where strength is not essential, such as counterweights etc..

EN-GJL-200
Electric motor housings, gear housings, bearing cover/shield, consoles, manifolds etc.

EN-GJL-250
Machine tool castings, transmissions housings, pump housings, hydraulic parts, small toothed wheels, valves etc.

EN-GJL-300
Cheeks for machine tools, large pump and turbine housings, castings for diesel engines, large gearwheels and flywheels, hydraulic castings, valves etc.

EN-GJL-250PH AND EN-GJL-300PH
Phosphorus alloyed gray cast iron with good wear resistance due to the presence of steadite, a very hard structure formation.



EN 1563 (NODULAR IRON)

EN-GJS-400-15
Wheel hubs, hydraulic castings, differential housings, bearing housings, brake calibres, rocker arms and with financial benefit this grade often replaces welded and forged constructions.

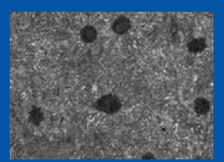
EN-GJS-400-18
Castings for wind power, forest- and contractors' machines, valves, brakes, clutch, consoles, pressure tanks, housings for high pressure hydraulic equipment, cooling components and in general for use at temperatures down to -20°C where guaranteed impact strength is important.

EN-GJS-500-7
High pressure hydraulic valve, components for trucks, forest-, agricutural and contractors' machines, large diesel engines, rocker arm bearings, bearing housings and covers.

EN-GJS-500-14
Solution Strengthened Ferritic (SSF) spheroidal graphite iron. Moderate strength nodular iron with high ductility. Due to its small variation in mechanical properties it is used where improved machinability and productivity is wanted.

EN-GJS-600-3
High pressure pump housings, clutch housings, universal joints, housings for hydraulic engines, gear wheels and hydraulic cylinders.

EN-GJS-700-2
Cranks, machine components and tools, that are exposed to large dynamic and static loads.



EN 1564 (ADI IRON)

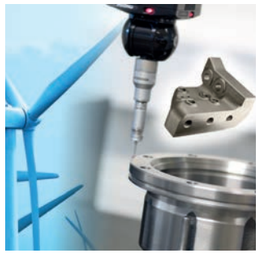
EN-GJS-800-8 AND EN-GJS-1000-5
ADI (Austempered Ductile Iron), high strength nodular iron with high ductility and wear resistance. The high strength makes it possible to save weight due to the possibility of lighter structures. The material is used in Agriculture, Industrial and Construction applications.

GROUPS OF **SEGMENTS**

FLUID POWER

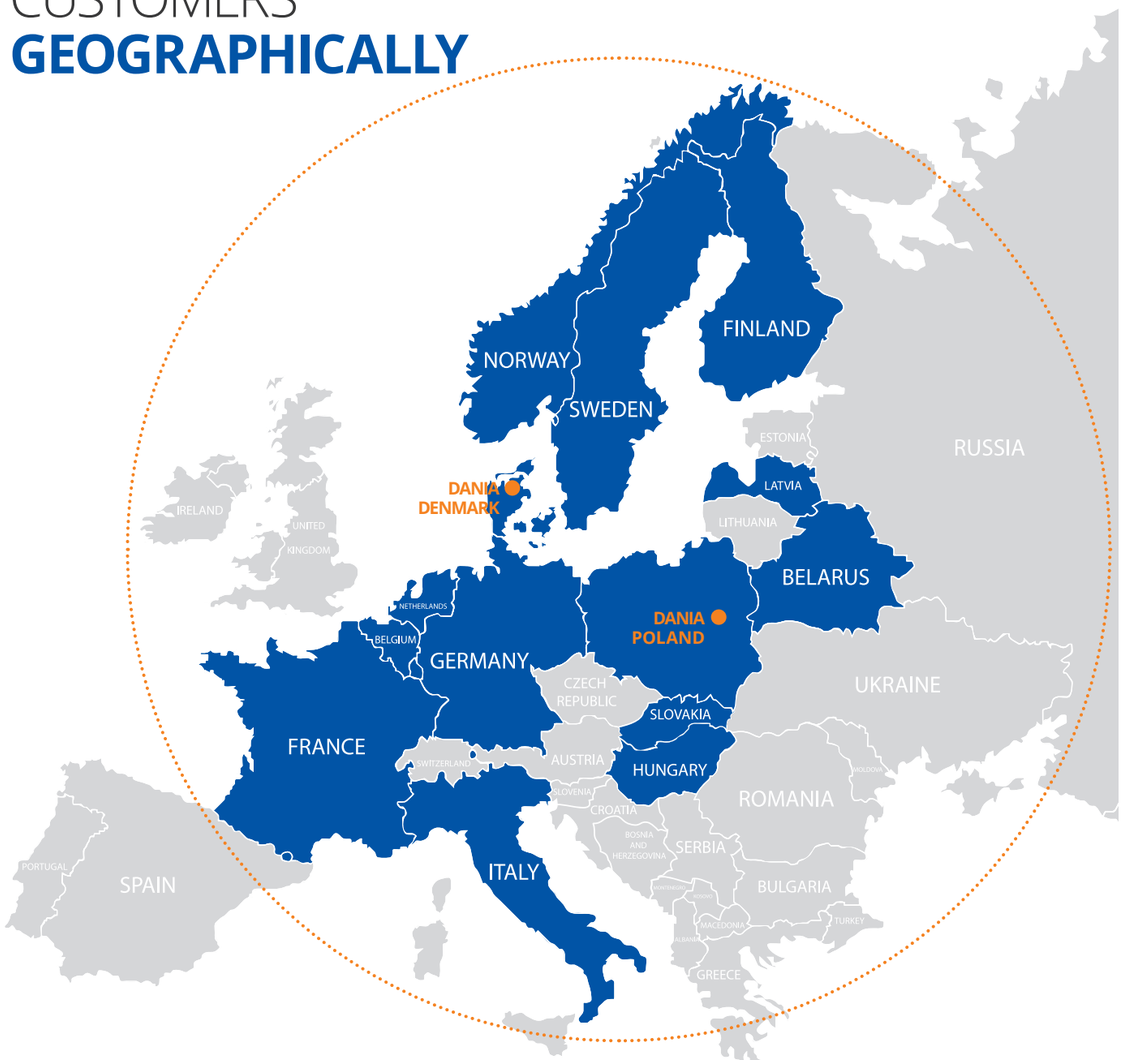
COMMERCIAL VEHICLES

MACHINE COMPONENTS

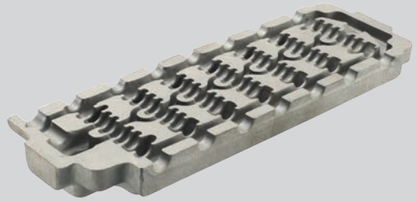


WIND ENERGY

CUSTOMERS **GEOGRAPHICALLY**



PRODUCTION RANGE



Dania product intersected

Top Cover 7.5 kg

Gear housing 18.5 kg

Bearing housing 4.6 kg

Control housing 1.4 kg

End cap 18.5 kg

Hydraulic body 7.0 kg

Cylindertop 2.8 kg

Stator part 16.6 kg

Filter Housing 24 kg

Bearing support 4.6 kg

Valve housing 1.1 kg

Order production of machine moulded nodular iron and grey iron castings with item weights from 0.5 to 65 kg.
Our speciality is core-complicated parts.

FROM 0.5 TO 65 KG

Valve housing 4.4 kg

Bearing part 4.7 kg

Bracket 3.1 kg

Housing 2.50 kg

DANIA **CERTIFICATES**

QUALITY ASSURANCE SYSTEM - DS/EN ISO 9001:2000
ENVIRONMENTAL MANAGEMENT SYSTEM - DS/EN ISO 14001:2004
ENERGY MANAGEMENT SYSTEM - DS 2403:2001
THOSE SYSTEMS ARE EXTERNALLY CERTIFIED BY DNV AND GL

Dania process

Brake flange 21.1 kg

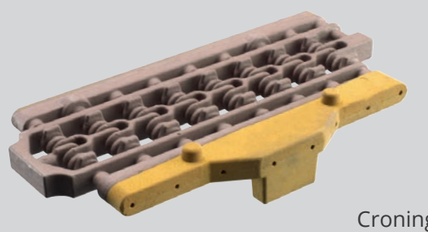
Gear housing 14.7 kg

Housing 5.0 kg

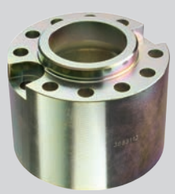
Valve Housing 15.9 kg

Cylinder housing 7.9 kg

Dania product intersected

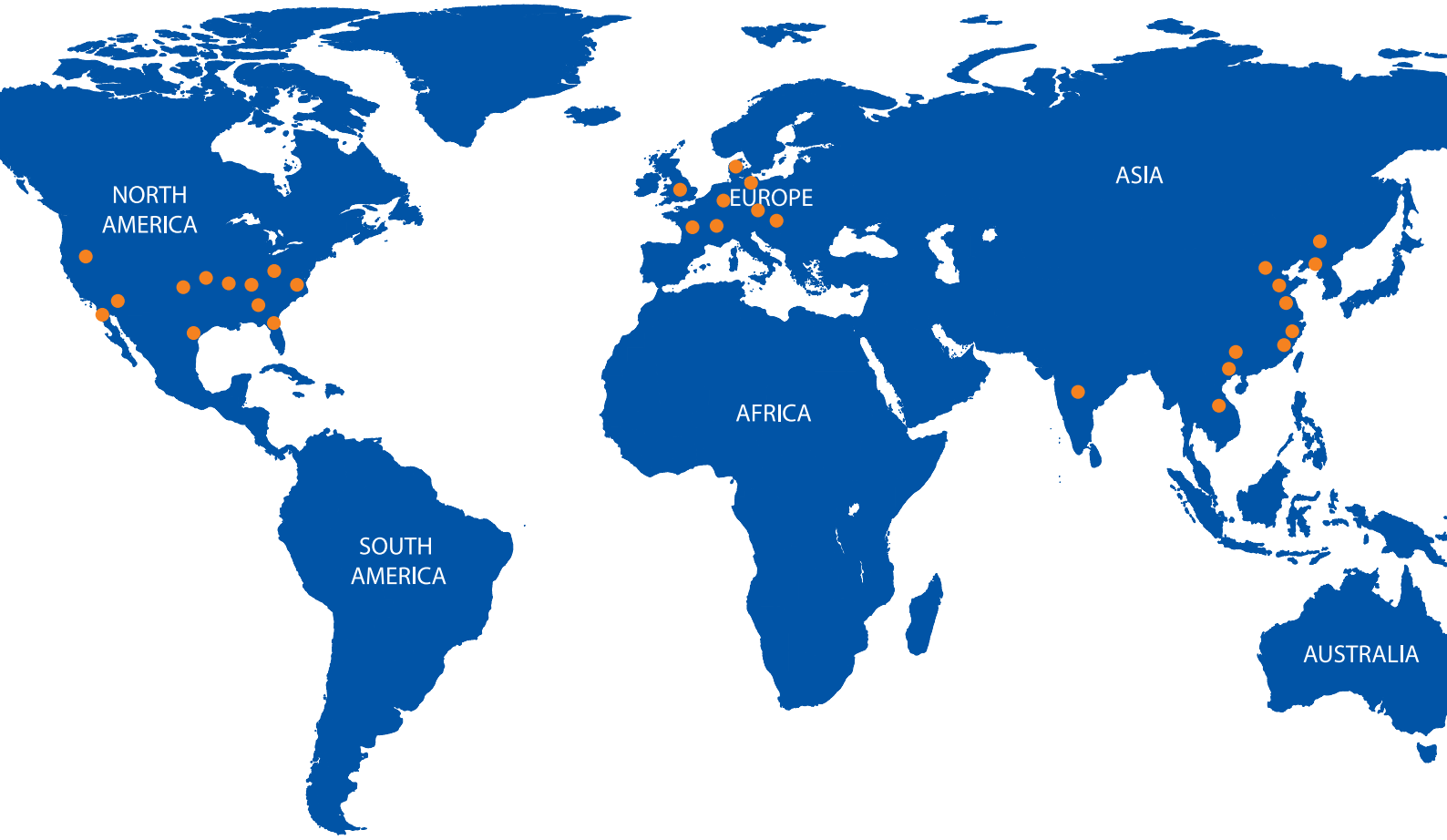


Croning core



Adapter 9.5 kg

Wheel hub 34.6 kg



STANDING ON THE **SHOULDERS OF GIANTS**

Dania is a member of the MAT Foundry Group, one of the largest foundry groups in the world. This allows us to exploit synergies in purchase, R&D, and logistics across the board, which translates directly into better solutions now and in the future.

The MAT Foundry Group spans 3 continents and consists of 8 companies, which engineer and manufacture castings, primarily aimed at the passenger, commercial, and heavy duty vehicle markets as well as industrial and racing applications.

The foundry group produces more than 350,000 tons of iron per year in 7 foundries with 2000 employees. It also maintains 11 machining facilities across Europe, Asia, and Central America. The Foundry Group supports both OEM and aftermarket customers with R&D including 80 process and development engineers.

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