

Company presentation

# Nordic Flanges Group AB (publ.)



**MANUFACTURER & STOCKHOLDER**  
STAINLESS STEEL • ALUMINIUM • CARBON STEEL • TITANIUM

INNOVATION – ALL THE WAY – TOGETHER

nordic  
**flanges** 

## TABLE OF CONTENTS

NORDIC FLANGES GROUP AB (PUBL.) CEO WORDS	3
ABOUT NORDIC FLANGES GROUP AB	4
ESG CONTROL	6
NORDIC FLANGES AB (NFAB)	8
NORDIC FLANGES OY (NFOY)	14
FERRAL COMPONENTS OY (FECOM)	16
CERTIFICATIONS & APPROVALS	19
SOME OF OUR CUSTOMERS	21
CUSTOMER IS TOP OF MIND	22
NORDIC QUALITY	23



A handwritten signature in blue ink, appearing to read 'F. von Sterneck'.

**Frederik von Sterneck**  
President and CEO

## NORDIC FLANGES GROUP AB (publ.)

### "WE SECURE FLOW FOR THE BENEFIT OF DAILY LIFE OF PEOPLE"

Nordic Flanges Group is a leading supplier of industrial components in the Nordic region. Our business concept is to deliver industrial solutions in stainless steel, aluminum and carbon steel with the market's best customer service. To meet our customers' high demands for efficiency, flexibility and quality, our offer is based on both self-produced and traded products with customized logistics solutions. In Sweden and Finland, the Group combines its own manufacturing and development with trading and agency operations in selected technology-oriented industrial segments.

Nordic Flanges Group currently has three subsidiaries. Nordic Flanges AB (NFAB), Nordic Flanges OY (NFOY) and Ferral Components OY (FeCom). Together, the subsidiaries form a stable basis for the manufacture and processing of forging in stainless steel, aluminum casting and advanced machining of metal.

We focus on specific industry segments, which are based on a detailed market insight and technical knowledge. This knowledge is an integral part of our business model that creates added value for our customers and in our acquisition-related operations.

From being a pure manufacturer of flanges in steel and aluminum, the Group now focuses on becoming a reliable manufacturer and subcontractor of forging in stainless steel, castings in aluminum and advanced machining of metals. This has developed well and the proportion of OEM customers today accounts for more than 38% of the Group's sales. At the same time, the Group's ambitious investment plan continues to be implemented. In order to be able to meet the technologically advanced requirements of both national and international OEM customers, an increased investment in machinery and automation is required.

Our focus is to constantly drive innovation and organic growth, in combination with an acquisition strategy aimed at new and complementary pioneering technologies. We have always focused on driving quality, productivity and efficiency and we believe that this is the key to creating long-term sustainable relationships with our customers. Our technology combines large urban and production systems, which ensures that sustainability is something we can scale into the future.

We are also committed to maintaining the highest ESG standards through initiatives that reduce the environmental impact of our own operations and supply chains, promote diversity and inclusion in our workplace and support and give back to our communities.

We strive to ensure a sustainable innovation curve. Today, we accelerate machine learning, AI and new technology to be able to effectively create technologically advanced solutions. We aim to be a leader in digital solutions in our industry. Internally, we will ensure efficiency through a seamless flow with standardized business systems at our facilities.

We are convinced that every task, every process and workflow can be improved so that our productivity, efficiency and quality are constantly improved. The result will also mean fewer inputs, less waste and a sustainable planet in future generations.

We have long-term sustainability goals for our operations in the areas of climate, circularity, people and fair play.

Throughout the organization, we want to renew the way in which we measure and improve customer value and customer satisfaction. We must therefore have structured methods for monitoring customer satisfaction and be able to show continuous, measurable progress. We strive to be an attractive employer and thus attract the best talent. We must ensure a workforce characterized by diversity regarding factors such as age, gender, nationality and way of thinking. We also work actively to conduct business in a responsible manner and ensure that we contribute to a more sustainable and fair world.

## ABOUT NORDIC FLANGES GROUP AB

### VISION

We believe in a future based on more sustainable, efficient and secure societies. To achieve this, it is crucial to also expand and improve the infrastructure around us. We intend to take an active role in this development by acquiring and developing leading niche companies that offer solutions for the infrastructure's most critical needs.

### BUSINESS IDEA

Nordic Flanges Group offers high value to customers in the industrial sector by providing high quality technology, solutions and services to both the public and private sectors, globally.

### NICHE MARKET POSITIONS

The basis for our value creation lies in profitable market positions in growing segments. We believe that sustainable profitability comes from providing high value to our customers through specialization and through competitive market positions.

The Group's subsidiaries are long-term specialists in forging in stainless steel, aluminum casting and advanced metalworking. We provide our customers with industrial products from the raw material to a processed, machined and certified end product. Our subsidiaries can perform better than their competitors by offering something unique that they can maintain and protect over time.

Our products will simplify installation and increase the life of the end product. As we always work close to our customers, we provide their need for specific knowledge in our special areas. It includes i.a. involvement in design, metallurgy, construction and to clarify any. savings for the customer. Our self-made flanges must form weight-efficient and high-quality connections that avoid leakage.

### SELECTED SEGMENTS

Our industrial focus is on selected segments and trends in the industrial sector and this focus is based on specific market insight and technical competence. Such expertise adds value in the strategy work in our subsidiaries and in the mapping of interesting new companies to acquire.

We have identified four segments where the focus of our business will be concentrated:

- ENERGY (Oil & Gas, Off Shore, Electricity)
- CLIMATE & ENVIRONMENT (Properties, District Heating)
- INDUSTRY (Process, Machinery, Marine and Paper Industry etc)
- INFRASTRUCTURE

## • Nordic Flanges Group AB

(publ.)

**Group head office and sales:** Stockholm.

**Number of employees:** 110.

**Annual turnover:** 22 million EUR.

**Production sites:** Örnsköldsvik, Sweden, Kronoby and Kalajoki, Finland.

**Exporting:** More than 30 countries.

**Listed:** Nordic Flanges Group is traded on the First North stock exchange.

### MARKETS

We are a global company and deliver to more than 40 countries at 6 continents around in the world. Our base is in the Nordic countries but we continue to grow every year and expand our territories.

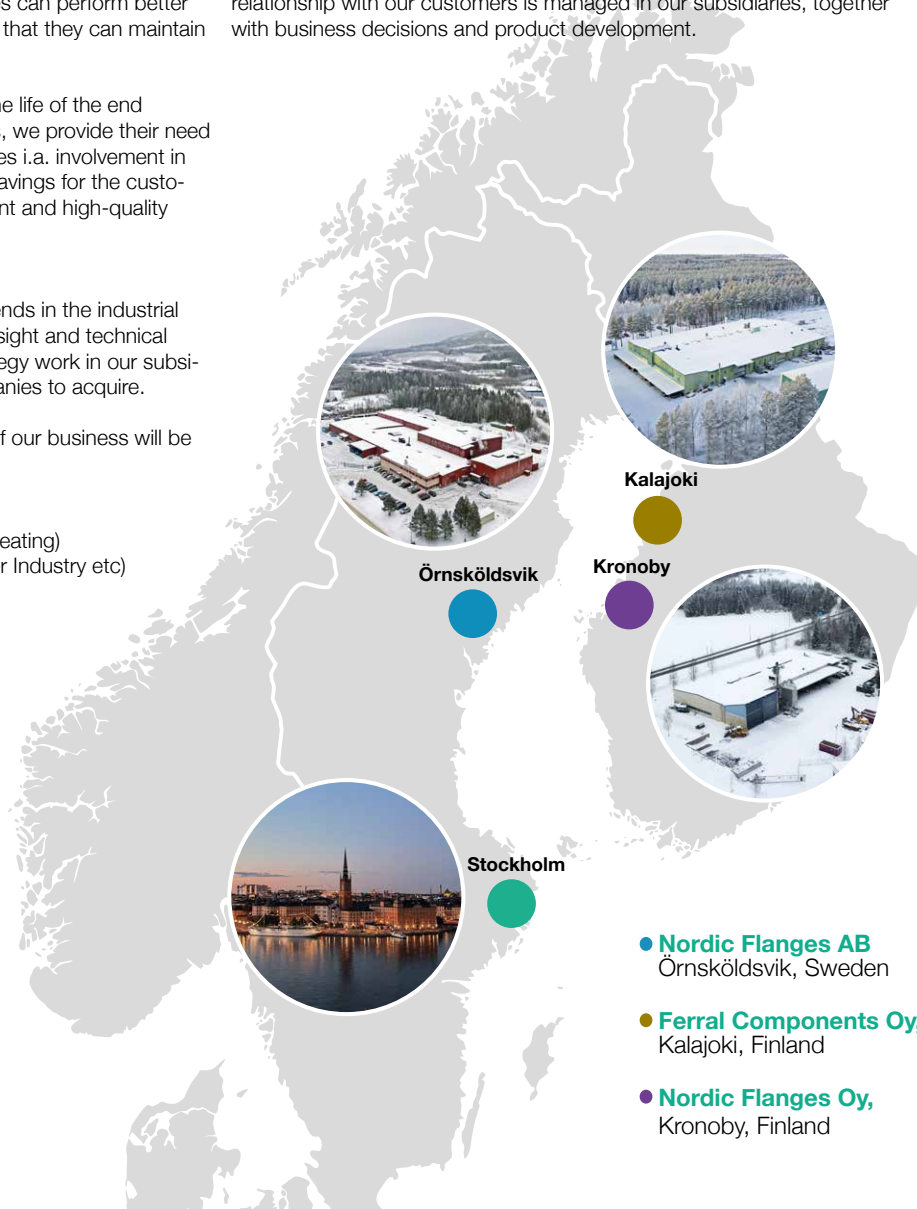
### ACTIVE OWNER

The parent company is an active owner with a focus on each subsidiary to promote growth and improve profitability, as well as to ensure responsible and stable leadership in each subsidiary.

Each site manager is fully responsible for his operations within the established framework in the Group. The CEO, CFO, Product and Marketing Director and Strategic Purchase support our subsidiaries in accordance with our principles for business development and chair the board of each subsidiary to ensure that they achieve the Group's financial goals regarding profit growth and profitability.

### LOCAL RESPONSIBILITY

Each subsidiary is unique and is therefore responsible for its own results and mandate and responsibility for running and growing the business. This creates the right ownership to develop our offerings and businesses. The relationship with our customers is managed in our subsidiaries, together with business decisions and product development.





## **EXPERTS IN PROBLEM SOLVING FOR OUR CUSTOMERS BY WORLD CLASS COMPETENCE IN METAL WORKING, PROCESSING AND KNOW HOW**

We are a global company and deliver to more than 40 countries at 6 continents around in the world.

Our base is in the Nordic countries but we continue to grow every year and expand our TERRITORIES

### **Our offer**

#### **Our production and services**



**Forging**



**Welding**



**Casting**

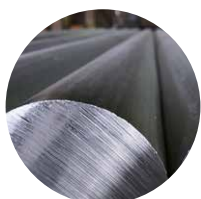


**Sub-Contracting  
and assembly**



**R&D and Product  
development**

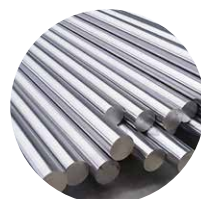
#### **Our Materials**



**Stainless steel**



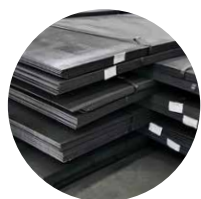
**Duplex**



**Titanium**



**Aluminum**



**Carbon steel**

### **Customer needs**

#### **Our Customer applications**



**Piping**



**Instrumentation**



**Heat Exchangers Process Equipment**



**Motors**



**Mechanical Eng.**

#### **Our industrial sectors**



**Oil & Gas**



**Chemical**



**Maritime**



**Pulp & Paper**



**Energy**



**Water treatment**

## NORDIC FLANGES GROUP AB (PUBL.) AND ESG CONTROL

**Nordic Flanges Group AB has developed a group-wide framework that in a uniform way regulates how Nordic Flanges handles activities related to corporate governance as well as definitions of roles and responsibilities for the area at all levels.**

Corporate governance includes the structures and processes according to which the company is managed. The goal is to increase the company's value for the owners and ensure long-term value development and responsibility through sufficient and relevant transparency, traceability and communication. The structure and processes define the division of responsibilities between the company's owners, board, CEO and management team, with the intention of clarifying and following up responsibilities. Management must also identify and take into account the impact on other stakeholders, such as customers, employees, suppliers and society at large.

The information for the company is determined by applicable law, articles of association and by the company's Corporate Governance Policy as decided by the Board.

The Board of Directors and the President (CEO) are responsible for the management of the company. The management team supports the CEO in the management work.

Good Corporate Governance is an important goal for Nordic Flanges. The owners and players in the financial markets must perceive that decisions are made on rational grounds, which leads to better decisions and thereby higher value for the company. By informing about conditions and decisions as well as valuing risks in an open way, the market's trust in Nordic Flanges and its processes increases, which also increases the value. A clear control aspect is also important for trust, as well as that it is a matter of course to follow laws and regulations.

Nordic Flanges AB has a quality management system and is third-party certified according to the standard ISO 9001 and ISO 14001 through DNV.

Nordic Flanges OY has a quality management system and is third-party certified according to the standards ISO 9001, ISO 14001 and ISO 45001 through KIWA.

Ferral Components OY has a quality management system and is third-party certified according to the standard ISO 9001, ISO 3834-2, ISO 14001, ISO 45001, EN 764-5: 2014 and EN 1090-2: 2008 + A1: 2011, EN 1090-1: 2009+ A1: 2011 clause 6.3 by KIWA.





## GUIDELINES FOR CORPORATE GOVERNANCE

### OWNER

The Group's highest decision-making body is the Annual General Meeting. The Annual General Meeting decides on the Articles of Association and appoints the company's Board of Directors. The Chairman of the Board is appointed by the Board.

The Annual General Meeting also appoints the company's auditors and decides on the procedure for appointing the Nomination Committee for the forthcoming Annual General Meeting.

The shareholders shall be provided with information through four reporting occasions per year and documentation for and participation in the AGM. Notice routines follow the Articles of Association and ABL.

### BOARD OF DIRECTORS

The board consists of 3 - 9 ordinary members and a maximum of five deputies / members. The members are all appointed by the Annual General Meeting.

The Board monitors the Group's operations and management and makes decisions in important matters concerning strategies, investments, organization and financial issues.

The Board is responsible for appropriate management and organization of the Group's operations. It is nevertheless responsible for ensuring that there is correct accounting and that the financial control within the Group is good.

The board appoints the CEO. The Board approves the Group's organizational structure and decides on important governing documents such as policies, budget and business plan.

The Board's tasks are described in the Board's Rules of Procedure. The board meets at least four times a year.

### AUDIT COMMITTEE AND AUDIT ISSUES

The Board is ultimately responsible for ensuring that there is satisfactory control for risk management, accounting, financial reporting and similar matters. To assist in fulfilling the Board's supervisory role over audit issues, the Board may establish a special audit committee. The Board has decided that the entire Board constitutes the Audit Committee.

The board shall contribute to good financial reporting and ensure a qualified, efficient and independent external audit of the company. Accounting principles, risk management and the company's internal control must also be monitored.

The Nomination Committee shall finally prepare questions regarding the election of auditors and auditor remuneration.

To ensure that the Board's and the Audit Committee's processing takes place in a structured manner, and to meet the Board's information needs, the company's auditors report on at least one occasion per year directly to the committee and the Board.

### REMUNERATION COMMITTEE

The Board constitutes a joint remuneration committee with the task of proposing an overall policy regarding salaries, remuneration and other employment benefits in general in the company and approving the

CEO's proposal for salaries and remuneration for the management team within the framework of this policy. The Board decides on the salary and remuneration of the CEO.

### CEO

The CEO is responsible for the day-to-day management of Nordic Flanges in accordance with the Board's instructions and regulations. It is the CEO's obligation to ensure that the company's accounting methods comply with the law and that the financial matters are handled in a reliable manner.

The CEO's duties are described in the Rules of Procedure's appendix "CEO instructions" approved by the Board.

To ensure that the Group complies with applicable laws, rules and regulations as well as the Group's values, Nordic Flanges has developed a number of Group-wide policies and governing documents.

### COMPLIANCE

Management and all employees are responsible for compliance with applicable laws and governing documents within their respective areas of responsibility in accordance with the respective job description. Follow-up of compliance, policies and rules takes place through follow-up of the CEO and / or the person who has been assigned this responsibility in the CEO's place. To ensure an independent position, this person reports directly to the CEO and the Board. Reporting to the Board takes place in accordance with what is determined annually in the Board's annual plan.

Nordic Flanges has documented routines for internal audits of the management system. These are carried out at least once a year and the results are documented and saved. These are followed up at least once a year in the "management review."

### BUSINESS PROCESSES

Nordic Flanges has identified 5 main processes for its daily operations. By working in joint processes, the delivery to the customer is quality assured. The processes describe a flow where all requirements from stakeholders are taken into account in order to deliver the right service in the right way, the same every time. Stakeholders are, for example, customers, authorities, users and owners.

The processes also clarify which activities are dependent on each other and where decision points are located. Each process is divided into sub-processes with a description of which activities take place in each part. What input parameters are needed and what is the expected outcome of the sub-process. This also takes into account the regulations and other requirements that govern the work.

Process description enables scalability, as they reduce personal dependence and clarify for everyone how all parts of the business interact with each other.

The processes have a process owner who, in addition to ensuring that they are followed, is responsible for improving their process.

## • Nordic Flanges AB (NFAB)

Örnsköldsvik, Sweden

nordic  
flanges

**Function:** Factory and sales office.

**Production:** Forged flanges in stain- less steel, duplex steel and titanium and also experts in welded rings with collars.

**Stainless steel forging:** Stock of raw material (EU origin) and semi- made products. Heat treatment. Trimming press and plasma cutting. Welding. Machining. Laboratory.

**Welding ring with collar:** Dimensions up to DN 1 400.

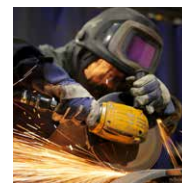
**Materials:** Austenitic grades: 304L, 316L, 321H, 254 SMO etc. Duplex grades – F51, F53 and others. Special metals – e.g. titanium grade II and B381 F2.

**Employees:** BC 32 WC 13

**HQ /C-suites:** WC 5

**Factory area:** 7974 m<sup>2</sup>

**Founded:** 1977.



### Address:

Kavelvägen 17

894 35 SJÄLEVAD Sweden

**Phone:** +46 660-29 97 00

**E-mail:** info@nordicflanges.com

### GOING FORWARD

NFAB's focus going forward is to increase the proportion of OEM customers and prioritize customers and sectors with high demands on quality. We will therefore concentrate on new markets and sectors with a focus on OEMs, End Customers and major wholesalers worldwide.

### OUR FUTURE FORECAST

We have analyzed megatrends and drawn our conclusions to business areas where we continue to place our main focus on: Energy, Process, Oil & Gas, Industry, Marine and Water treatment. This is aimed primarily at the Nordic region, Northern Europe and the USA.

We have chosen to divide and market our products into three main parts: flanges, OEM products and forging details.



### MATERIAL POSSIBILITIES

Material / steel groups will be a selective range of Stainless, Acid-proof, Duplex, Super Duplex and Titanium.

### FOCUS ON THE SOLUTION AND QUALITY

We position ourselves as a solution-oriented, technically and commercially competent partner of flanges and forged products of high quality.

### DYNAMIC MANAGEMENT AND PRODUCTION

This entails higher demands on our staff regarding technical and commercial competence to handle more demanding customers. Everything from being able to take larger volume orders with a shorter horizon, increased capacity in the factory and higher quality requirements, documentation, sampling, etc.





## OFFERING NORDIC FLANGES AB

100% MADE IN EUROPE, SWEDEN

### Stainless steel

- Flanges according to all international- and industry standards.
- All flange types (W.N, Flat, Loose, Threaded, Socket, Blind etc.)
- Welding rings according to EN
- Special made products based on customer drawings.
- The dimension range is DN 10 - 1400
- Our own forging range is DN 10 - 400
- (Forged flanges in stainless steel up to 115 kg)

### Origin

- All of our flanges and forged components are manufactured in Sweden

### Grades we work in

- Stainless steel
- Duplex
- Super Duplex
- Super Austenitic
- Titanium

### Origin of raw material

- All our raw material is produced by West European Steel Mills

## OUR FOCUS SECTORS



**Oil & Gas**



**Chemical**



**Maritime**



**Pulp & Paper**



**Energy**



**Water treatment**

## OUR PRODUCTION NORDIC FLANGES AB

### Cutting

#### Bandsaw

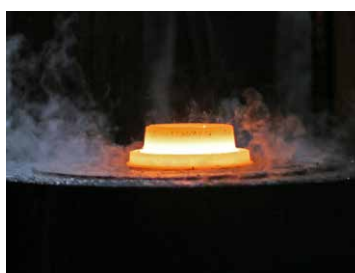
- Amada HA 400 W x 6pcs
- Everising H 460 HA
- Cutting up to Ø460 mm
- Automatic feeding
- Capability to handle up to 10 m bars.
- 800 m<sup>2</sup> + 800 m<sup>2</sup> cutting and material hall.



### Forging

#### Counter blow hammer Dige 32

- DN 4"-16" max 130 kg
- Gas fired round furnace
- Billet dimension: Ø150-300mm



#### Excenter press Smeral 2500

- DN ½"- 3" up to 8 kg
- Inductive heating furnace
- Billet dimension: Ø50-90mm

### Heat treatment

#### Electrical Furnace

- Up to 1 ton/hour

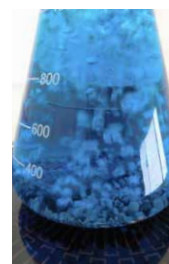


**WATER QUENCHING** in two 6 m<sup>2</sup> basins connected with a 110 m<sup>2</sup> closed cooling system to safeguard proper water temperature that gives the right material properties

### Testing laboratory

#### Standard. (Temp 20°C) (All steelgrades)

- Analysis
- Tensiletest Rp0,2 Rp1,0
- Impacttest Charpy V
- Elongation A5
- Contraction Z
- Hardness (Brinell) HB
- Inter granular Corrosion Test (IK) Astm A 262 Pr. E , EN 3651-2,

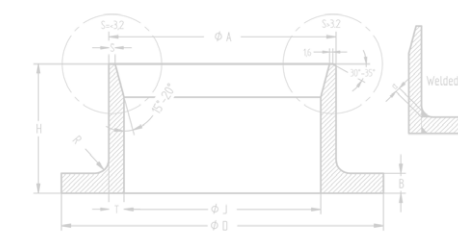
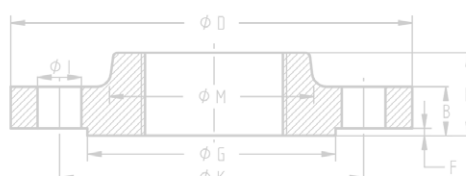
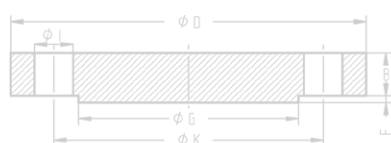
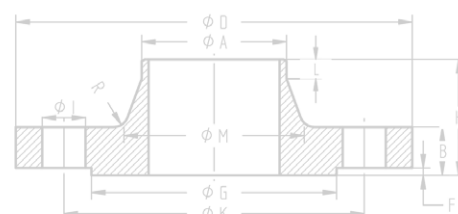
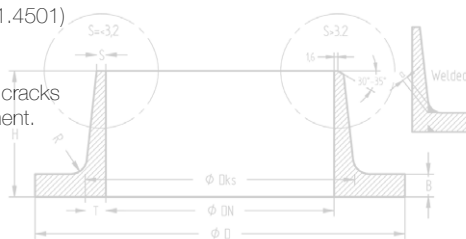


#### Duplex

- Hot tensile test (280°C)
- Ferrite measurement
- IK test ASTM G 48 method A (1.4547, 1.4410, 1.4501)

#### Extra testing

- PT test (Penetrant proving) Check for surface cracks
- UT Test (Ultrajuds proving) Check of containment.
- Impact test in minus temperature.c
- X-rays





## PRODUCTION EQUIPMENT AND MACHINERY NORDIC FLANGES AB

### CNC Lathes



#### Okuma LU35-M

- Double turrets
- Driven tools
- Max ø560



#### Okuma LU35

- Double turrets
- Max ø550



#### Okuma multus U3000

- Sub spindle
- Lower turret
- Milling spindle
- 40 tools ATC
- Max ø280



#### Okuma LU3000EX 2pcs

- Double turret
- Driven tools
- Max ø270



#### Okuma LU400-M

- Double turret
- Driven tools
- Max ø270



#### Okuma LU15-M

- Double turret
- Driven tools
- Max ø270



#### Okuma LB3000/LVT300

- Pallet handling system with ABB robot
- Driven tools
- Max ø210



#### Famar Ergo 400 2pcs

- Dual machines
- Pallet handling system
- Driven tools
- Max ø350



#### Famar Ergo 260

- Dual machines
- Pallet handling system
- Driven tools
- Max ø210



#### Pittler PV1000

- Vertical lathe
- Up to ø1100
- 16 tool slots



#### Marking machine

- Permanent marking
- Automatic marking
- PMI (positiv material identification)



#### Two Puma V8300

- 37kW/2000rpm main spindle
- 15" chuck
- Maximum turning length: 750mm

### Forging



#### Excenter press Smeral 2500

- DN ½"- 3" up to 8 kg
- Inductive heating furnace
- Billet dimension: Ø50-90mm



#### Counter blow hammer Digep 32

- DN 4"-16" max 130 kg
- Gas fired round furnace
- Billet dimension: Ø150-300mm



## PRODUCTION EQUIPMENT AND MACHINERY NORDIC FLANGES AB

### Welding



#### Welding technique

- Powder welding
- MIG/MAG/TIG



#### Roundo 2 pcs

- Rolling Machines



#### Roundness pressing machine

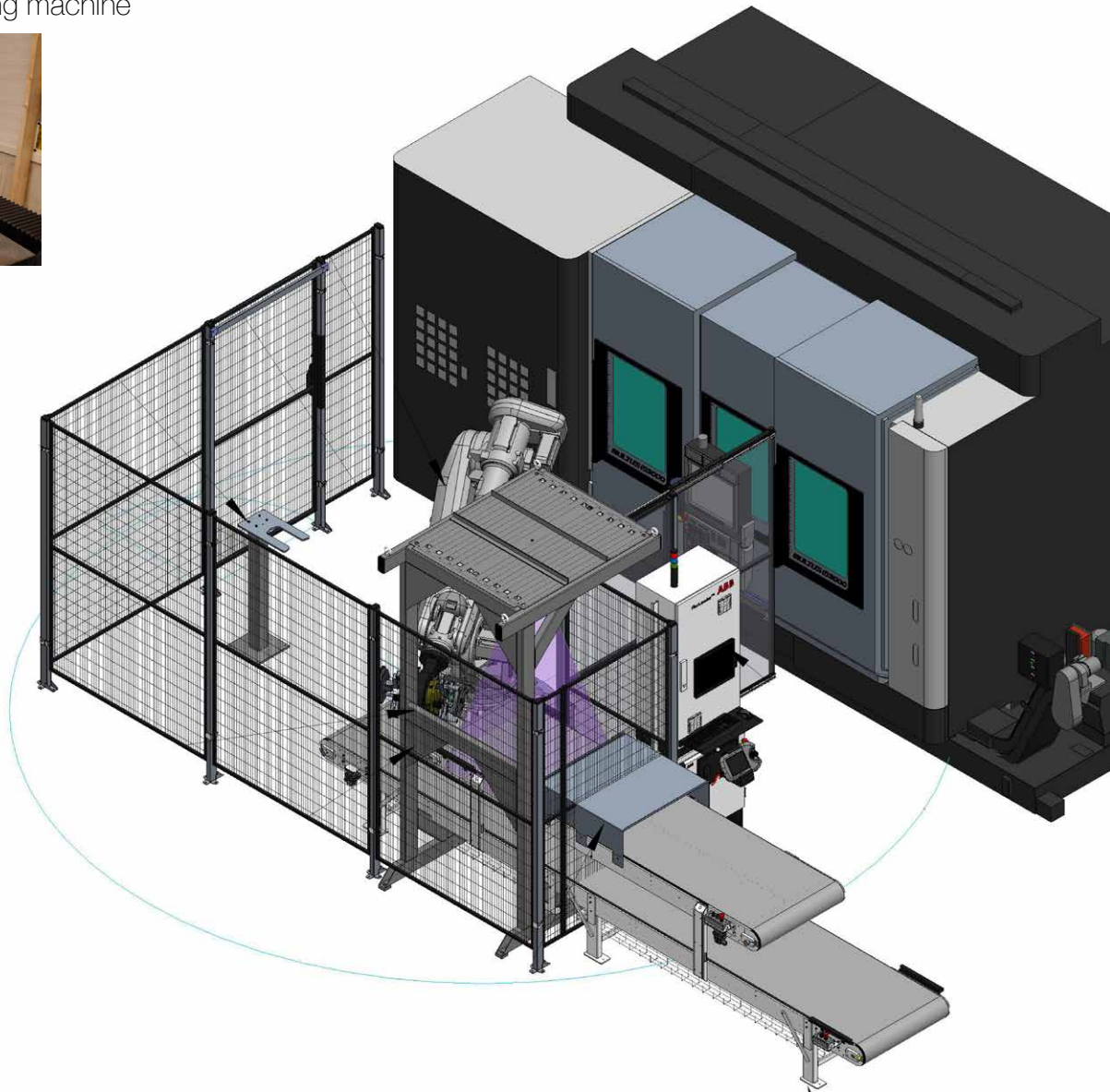


### Coordinate measuring machine



#### Wenzel LH65

- 3D coordinates measuring
- X-axis (mm): 650
- Y-axis (mm): 1000
- Z-axis (mm): 500
- Scanning function



## PRODUCTION SIZE RANGE NORDIC FLANGES AB

ANSI B16.5

Welding neck flange		
150 LB	1/2" - 16"	1/2"-1" SCH XXS/SOLID, 1 1/2"-10" SCH 80S, 14" SCH XS RF
300 LB	1/2" - 12"	1/2"-1" SCH XXS/SOLID, 1 1/2"-12" SCH 80S RF
400 LB	1/2" - 8"	1/2"-2" SCH XXS/SOLID, 3"-8" SCH 80S RF / RTJ
600 LB	1/2" - 8"	1/2"-2" SCH XXS/SOLID, 3"-8" SCH 80S RF / RTJ
900 LB	1/2" - 6"	All SCH XXS/SOLID RF / RTJ
1500 LB	1/2" - 6"	All SCH XXS/SOLID RF / RTJ
2500 LB	1/2" - 4"	All SCH XXS/SOLID RF / RTJ

Socket welding flange		
150 LB	1/2" - 12"	1/2"-1" SCH XXS/SOLID, 1 1/2"-10" SCH 80S, 12" SCH 80 RF
300 LB	1/2" - 12"	1/2"-1" SCH XXS/SOLID, 1 1/2"-12" SCH 80S RF
600 LB	1/2" - 8"	1/2"-2" SCH XXS/SOLID, 3"-8" SCH 80S RF / RTJ
1500 LB	1/2" - 6"	All SCH XXS/SOLID RF / RTJ

Bossed Blind Flange	
150 LB	1/2" - 2"
300 LB	1/2" - 2"
400 LB	1/2" - 2"
600 LB	1/2" - 2"
900 LB	1/2" - 2"
1500 LB	1/2" - 2"
2500 LB	1/2" - 2"

Blind flange	
150 LB	1/2" - 12" RF
300 LB	1/2" - 12" RF
400 LB	1/2" - 8" RF / RTJ
600 LB	1/2" - 8" RF / RTJ
900 LB	1/2" - 6" RF / RTJ
1500 LB	1/2" - 6" RF / RTJ
2500 LB	1/2" - 4" RF / RTJ

Lap joint flange	
150 LB	1/2" - 12" FF
300 LB	1/2" - 12" FF
400 LB	1/2" - 8" FF
600 LB	1/2" - 8" FF
900 LB	1/2" - 6" FF
1500 LB	1/2" - 6" FF
2500 LB	1/2" - 4" FF

Threaded flange NPT	
150 LB	1/2" - 12" RF
300 LB	1/2" - 12" RF
600 LB	1/2" - 8" RF / RTJ
900 LB	1/2" - 6" RF / RTJ
1500 LB	1/2" - 6" RF / RTJ
2500 LB	1/2" - 4" RF / RTJ

Slip on flange	
150 LB	1/2" - 12" RF
300 LB	1/2" - 12" RF
600 LB	1/2" - 8" RF / RTJ
900 LB	1/2" - 6" RF / RTJ
1500 LB	1/2" - 6" RF / RTJ

### Our production summary

- Stainless steel forging
- Testing
- Cutting
- Forging
- Plasma cutting
- Welding
- Machining
- Marking

All Grades 304 L, 316 L, F51, F53, F55, Titanium  
For grades F44 (SMO) and 904 L decrease range with one size.



## • Nordic Flanges Oy, (NFOY)

Kronoby, Finland

**Function:** Factory and sales.

**Production:** Manufacturer of casted aluminum flanges and aluminum components

**Aluminium casting:** Gravity die casting from standard alloy EN AC-47000 / AISi12Cu (alloyed in-house). Special alloys from aluminum ingots according to customer specification. Aluminum products from mold design till final machining and surface treatment.

**Employees:** 20

**Factory area:** 2400 m<sup>2</sup>

**Founded:** 1957



**Address:**

Ferralvägen 1 FI-685 00

KRONOBY Finland

**Phone:** +358 6-8238 750

**E-mail:** info@nordicflanges.com



### OEM

We are looking for continuous growth with OEM customers who have suitable components for gravity die casting in aluminum.

### INCREASE CAPACITY AND REDUCE COSTS

NFOY has good opportunities to further improve production efficiency and automation through investments. There is potential e.g. to get automation for aluminum smelt dosing. Automation would help both increase capacity and reduce costs. By investing, we create more capacity for potential OEM customers.

### HIGHLY AUTOMATED PRODUCTION

NFOY has a strong position as a leading manufacturer of aluminum flanges in Europe. The most important factor for competitiveness has been the use of recycled aluminum. This gives us a big advantage on the raw material price when compared to the use of finished alloy ingots. Alloying requires high competence and knowledge of environmental standards and regulations. Production methods in flange manufacturing are also relatively highly automated when compared with traditional gravity die casting.





## ALUMINUM FLANGES NFOY

### LOOSE- AND BLIND FLANGES

- Casting of standard aluminum flanges
- Type Italy
- Type Germany
- Type Sweden
- ProQ
- Standard alloy EN AC-47000 Al-Si 12 (Cu)
- Aluminum alloys according to customer specification
- Dimensions acc. to customer specification
- Blank or with epoxy polyester coating (powder coated)



## CUSTOMER SPECIFIC ALUMINUM PRODUCTS

Examples of customer specific aluminum products

- Components for OEM producers
  - Engine components
  - Aluminum boxes & housings
  - Aluminum hatches & covers
  - Brackets & lugs
- Led-light housings
- Furniture components
- Consoles for sink assemblies



## Casting methods

	GRAVITY DIE CASTING	STRAINER CASTING	CENTRIFUGAL CASTING
Weight of casting (kg)	0,1 – 70	5 – 20	0,1 – 5
Pieces / year	500 – 50 000	500 – 10 000	500 – 200 000
Mould / tool expenses	low	average	average
Mould changing expenses	average	average	average
Freedom of designing	high	high	major
Smallest wall thickness, in	2 – 3 mm	3 – 5 mm	1 – 2
Tolerance	good	good	good
Surface roughness, Ra	=> 3,2 (2,5)	=> 3,2 (2,5)	=> 3,2 (2,5)
Casted alloys	AlSi12 / AlSi12Cu AlSi10Mg AlSi7Mg	AlSi12 / AlSi12Cu AlSi10Mg AlSi7Mg	AlSi12 / AlSi12Cu AlSi10Mg AlSi7Mg
Delivery time for sample, in weeks	5 – 12	5 – 15	5 – 12

## ● Ferral Components Oy, (FeCom)

Kalajoki, Finland



**Function:** Factory and sales

**Production:** Special flanges and customer specific steel components

**Carbon steel and stainless steel production:** Production of standard and special flanges by flame and plasma cutting from plate material. Advanced machining of flanges. Manufacture of products according to customer's drawings. Welding and forming. Surface treatment.

**Founded:** 1957

**Factory area:** 4000 m<sup>2</sup>

**Employees:** 40



### Visiting address:

Valulantie 1, FI-85100 Kalajoki, Finland

### Postal address:

P.O. Box 20, FI-85101 Kalajoki, Finland

**Phone:** +358 8 464 02 00

**E-mail:** sales@ferral.fi



### OUR FOCUS

Ferral Components focuses on the machining of demanding steel components and the manufacture and sale of industrial flanges. Our customer base consists of industrial OEM customers, wholesalers and end users of flanged products. The core of our business is to build long-term customer relationships, in addition to high-quality products, we offer our customers deep expertise in manufacturing technology and materials. We are a flexible operator and can tailor our delivery and service content to customer needs.

### THE CUSTOMER AT THE CENTER

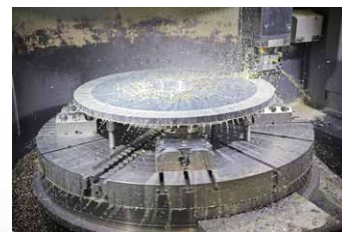
In recent years, we have focused particularly on machining demanding OEM components. These products emphasize the importance of long-term customer relationships. Products are often designed in collaboration with the customer, which can simplify the product's manufacturing method and thus we can achieve cost savings. In addition to the product itself, the delivery often involves documentation related to, for example, quality assurance and materials.

### TAILORED TO STANDARDS

We supply flanges to the industry according to the most common standards and also according to customer-specific requirements. The proportion of special flanges has increased in recent years and in addition to just flanges we can offer additional services, e.g. surface treatments, quality assurance and flexible delivery options.

### MULTIPLE MATERIALS

The most common materials used in our products are structural, pressure vessel, stainless, acid proof and duplex steel, but we also manufacture in aluminum and brass.





## FERRAL COMPONENTS IS YOUR PARTNER IN METAL COMPONENTS AND CONTRACT MANUFACTURING

- Wide range of products in multiple steel grades.
- Subcontracting services for many industries: OEM's in engineering industry, ship building, oil and gas, infrastructure, paper, process and chemical industries.

### Quality Assurance

**Manufacturing** with highest quality and full traceability from start to finish

**Mechanical- and Chemical tests** verified by Certificate 3.1 acc. to EN 10204. 3.2 certification up on request.

**Optional tests** with Destructive testing and Non Destructive testing (NDT) according to customers specification





## PRODUCTION EQUIPMENT AND MACHINERY FERRAL COMPONENTS

### 5-axes machining center

- DMG DMU 200P, 1,800 x 2,000 x 1,100 mm

### CNC vertical machining centers

- DMG 200T, 1,800 x 2,000 x 1,100 mm
- Doosan Mynx 750/50
- Yang, 600 x 400 x 600 mm
- Unisign Univers 8, 3,400 x 800 x 650 mm

### CNC horizontal machining centers

- DMG DMC 100H, 1000 x 1000 x 1000 mm, 2 pallets

### Vertical CNC machining center

- Unisign Uniport 6, 8,000 x 2,000 x 1,000 mm

### CNC lathes

- Haas SL30, max. dia. 600 mm
- Tornado, max. dia. 550 mm
- Puma, max. dia. 700 mm

### Vertical CNC lathe centers

- Hankook VTC-160E, max. dia. 2,000 mm
- Unisign Univers 6, max. dia. 1,100 mm, 2-jaws
- Unising Unisers 6 C2, max. dia 1,200 mm, 2-jaws

### Manual carusel lathe

- 1 pc max. dia. 2,500 mm

### Manual lathes

- 5 pcs

### Measurement control

- Trimos Horizon 1000 measuring device

### Flame and plasma cutting equipments

- 1 kpl CNC-controlled flame cutting machine
- 1 kpl CNC-controlled plasma cutting machine
- Max. plate size 100 x 2,500 x 6,000 mm

### Saws

- Meba 335 DGA-600 automatic band saw
- Band saw, Kasto Twin A2

### Profile bending

- Roundo R 7S, 300 cm3

### Steel grid blasting

- Konrad Rump

### Welding

2 pcs Motoman welding robots, 6-axes

- Manipulator, 2 welding stations
- CNC table, four welding stations

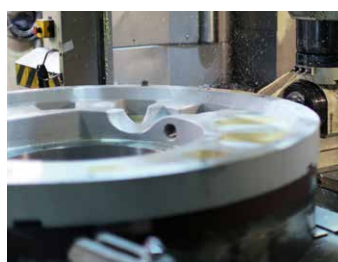
Multiple Mig/Mag welding machines

### Hydraulic bending machine

- Tesera HC200 bending machine 200 ton/3,000 mm

### Fork lift trucks

- Kalmar LMV 9,000 kg
- JCB Teletruck TLT30-4, 3,000 kg
- Combilift, 3,000 kg
- Manitou MSI 30T, 3,000 kg
- Mitsubishi, 1,600 kg, 3 pcs



## CERTIFICATIONS & APPROVALS NORDIC FLANGES GROUP

Nordic Flanges produces high quality products with approvals and certifications from several auditors. Below you can find current certificates and approvals for Nordic Flanges Group.

Our factories have received the following certificates:

### NORDIC FLANGES AB

- ISO 9001:2015
- ISO 14001:2015
- DNV-GL APPROVAL OF MANUFACTURER
- BUREAU VERITAS APPROVAL CERTIFICATE
- BUREAU VERITAS MODE II
- LLOYD'S REGISTER
- ACHILLES JQS
- PED 97/23/EC
- NORSOK CBHF44
- NORSOK ODPF44
- NORSOK CBHF51/F60
- NORSOK ODPF51/F60
- NORSOK CBH TITAN GRADE F2
- NORSOK ODP TITAN GRADE F2
- NORSOK ODP F53
- NORSOK CBH F53
- CRN-ABSA ASME 16.5

### NORDIC FLANGES OY

- ISO 9001:2015
- ISO 14001:2015
- ISO 45001:2018 HSE

### FERRAL COMPONENTS OY

- ISO 9001:2015 Quality system
- ISO 3834-2:2021 Quality requirements
- ISO 14001:2015
- ISO 45001:2018 HSE
- EN 764-5:2014 (PED 2014/68/EU)
- EN 1090-2:2008+A1:2011 EN1090-1

**Our operations are certified by all major Notified Bodies and AVL for Industry Sectors:**

TÜV, BUREAU VERITAS, GERMANISHER LLOYDS, LLOYDS REGISTER, TR-GOST, INSPECTA, DNV, Equinor, BP, SWEDISH NUCLEAR

**Our products are manufactured according to European, American and all other international standards.**

#### Examples:

EN/DIN  
ASME/ASTM  
NORSOK M-650  
JIS  
GOST





## CERTIFICATIONS AND AML:S NORDIC FLANGES GROUP

Extracts of our certifications and Approved Manufacturers list

### CERTIFICATES

- ISO 9001:2015
- ISO 14001:2015
- PED 2014/68/EU
- NORSOK
- CRN Canada
- Achilles



### OUR OPERATIONS ARE CERTIFIED BY ALL MAJOR NOTIFIED BODIES

- ABS
- TÜV
- BUREAU VERITAS
- GERMANISHER LLOYDS
- INSPECTA
- DNV
- ABSA
- RINA



### AML FOR CUSTOMERS AND SECTORS:

- Equinor
- BP
- ConocoPhillips
- Concho Resources (CP)
- ExxonMobil
- Phillips 66 (P66)
- Pioneer Natural Resources Company
- XTO Energy Inc.
- Diamondback Energy Inc.
- Energen Corp.
- Emerson Alfa Laval
- Swedish Nuclear Authorities
- Defense industry and Naval Industries



## SOME OF OUR CUSTOMERS NORDIC FLANGES GROUP

Extract of some of our customers and companies we supplied to:





## CUSTOMER IS TOP OF MIND

### OUR MESSAGE

NORDIC QUALITY™ BY NFG  
INNOVATION – ALL THE WAY - TOGETHER

### OUR STRATEGY

**GROWTH** – Increased market presence and adaptability to current market conditions

**PROFIT** – Strong co-operation between Sales, Production and Procurement with increased communication

**DEVELOPMENT** – Organise, inform and educate our people in line with our targets

### OUR FOUNDATION

INNOVATION  
ALL THE WAY  
TOGETHER

#### INNOVATION

**Visionary**  
**Development orientated**  
**Creative**  
**Curious**  
**New thinking**  
**Knowledge thirst**  
**Service minded**  
**Proactive**  
**Constant improvement**  
**Good to better**

#### TOGETHER

**Dialogue**  
**Teamwork**  
**Spirit**  
**Helpful**  
**See the person**  
**Environment**  
**Diversity**  
**All contributes**  
**Relations**

#### ALL THE WAY

**We care**  
**Holistic way**  
**We meet deadlines**  
**Trustworthy**  
**Accurate**  
**Deliver quality**  
**Fix-it mentality**  
**The extra yard**  
**On time**  
**Accountable**  
**Quick reply**  
**Experts**  
**V.I.P**

### OUR VISION

To be a Modern  
Business Partner

### OUR TARGET

300 MILLION BY 2024

### WHY – HOW – WHAT

#### OUR PURPOSE

WE SECURE FLOW FOR  
THE BENEFIT OF DAILY  
LIFE OF PEOPLE

#### HOW WE DO IT

NORDIC QUALITY™

#### WHAT WE DO

FLANGES AND COMPONENTS

### OUR LEADERS ARE

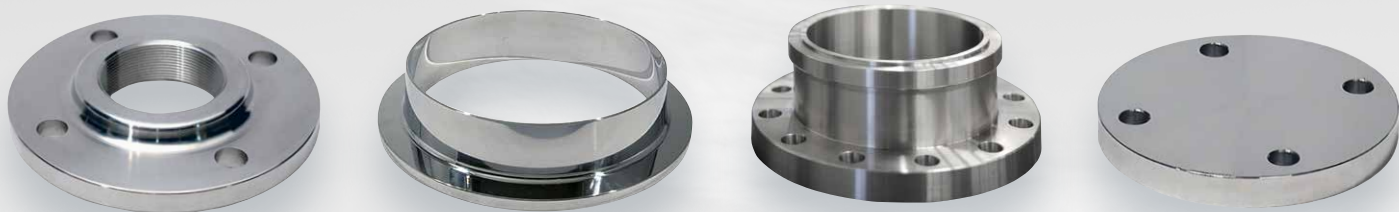
Fair  
Present  
Humoristic

Open  
Energetic  
Clear

Trustworthy  
Brave  
Listening

Involving  
Honest  
Delegating

### ROLE MODELS



## NORDIC QUALITY

The added value you as a Customer receive with our NORDIC QUALITY concept and which we would like to highlight a little in particular are the following:

- Flexibility
- Quick response
- Cost efficiency
- Security
- Dialogue
- Cooperation
- Long-term
- Delivery security
- High quality products
- Certified products
- Innovation

- Continuous development
- Solution-focused
- Years of experience
- Expertise
- High competence
- Dedicated Key Accounts Service
- Training
- Availability
- Local presence
- From good to better
- Respect



For more information:  
[www.nordicflanges.com](http://www.nordicflanges.com)



Company presentation  
2023