

Specialist in Castings & Forgings



Elcee

Future Engineering




www.elceegroup.com

• Since 1923 •

 **Elcee**
Holland B.V.

 **Elcee**
Deutschland GmbH

 **Elcee**
Belux

 **Elcee**
China

Leading supplier in engineered parts

One stop service concept

Our company

Elcee Holland is one of the seven companies within the Elcee Group. Over 90 years of experience, we offer a solid base for the future. The companies in the group excel as industrial suppliers in technical knowledge, applied engineering and sophisticated logistics. LKL Staal, LKL Wuxi and LKL Ningbo have been added to the Group in 2015. With the acquisition of LKL Wuxi, Elcee has a production unit in Asia to its disposal with machining and welding operations.

Solid business partner

In practice, we have proven to be a solid business partner. We only work with brands and products that have conclusively proven their value in use. We annually receive the D & B 1 rating, which stands for minimum risk of bankruptcy. Obviously Elcee is certified according to ISO 9001-2008.



Specialist in Castings & Forgings

One stop shopping solution for ferrous and non-ferrous components, produced according to virtually every manufacturing method.

Castings & Forgings is one of the six specialistic business units of Elcee Holland. We invest in specific expertise and tools, in order to make the best suitable product. All our castings are tailor-made and we have no limits in the manufacturing processes.

A large number of industrial companies uses the expertise of Elcee. Elcee acts as a co-maker. The collaboration with our clients is much more than a normal client-supplier relationship. We support our customers with the engineering and are able to create a 3D tangible model by rapid prototyping.

We are active in the automotive & pump industry, food & beverage industry, industrial & agricultural machinery, general engineering, façade engineering, railway, heavy duty, marine and in nuclear power stations.



Reduction TCO

We have been constantly developing and improving our expertise, professionalism and service level. The factors below play a major role in reducing your Total Cost of Ownership (TCO).

Outsourcing in China

To offer our customers additional benefits on quality and prices we began to outsource our production in Asia (1986). This early fostering helped us develop relationships with trustworthy, high quality business partners.

The cooperation with our Chinese partners has resulted in a rapid growth. That's why Elcee decided to start a 100% Dutch owned subsidiary office; Elcee China in 2006. Elcee China supports Elcee Holland in a technical and commercial way.

Clever design

In the development phase of a casting or a forging we critically look at the design. We carefully choose the right material and production method for each product. During the production,

constant monitoring takes place.

Due to these checks, we achieve total production control. Our most common techniques are described in this folder. Other methods are also possible!

Smart Logistics

Due to our smart production process, product lines are shortened, in combination with a 12.000 m² warehouse, we can offer you the best and most flexible logistic solutions possible.

Quality guaranteed!

Our own quality department forms an important link in the assurance of quality. All our castings are checked both in China and the Netherlands for quality and preconditions. Both companies are equipped with 'high tech' measuring instruments, which are annually calibrated. On the next page you will find more information about our quality department.

Quality department

Total process control, from design to final product

Spectro-analysis equipment

For the analysis of the chemical composition of metal, we use two devices: a spectro-analysis device which very accurately determines the chemical composition based on resulted gases after the sparking of the tested material.

Furthermore we have access to a so-called XRF-analysis machine which, by means of X-ray, can quickly analyse the chemical composition of, for example: stainless steel, but also of the most non-ferrous materials, such as aluminium and copper alloys.



3D measuring machine (CMM)

Our portable measurement arm can execute accurate measurements up to 0.005 mm and has a maximum measuring volume of 1.2 meters. The software guides our employees through the checks involved, so that no measurement can be forgotten. The test results are being defined in a clear report.

Roughness tester

Through this device the roughness of processed and unprocessed surfaces can be measured. The roughness profile can be set according to the roughness profile R or primary profile P. It is also possible to make analyses according to DIN 4476, MOTIF-R and MOTIF-W. For the calculations most common standards are used, including ISO.



Hardness testers

With our 2 hardness testers we can measure how hard a certain metal is. With the hardness measurement according to Brinell, a ball is being pressed into the tested material. The diameter of the indentation is a measurement for the hardness of the material. The Rockwell test determines the 'hardness' as 'resistance to local penetration'.

Design & 3D modelling

Your idea converted into a conceptual design

Research & Design

The early design is very important for final product optimization. Elcee is constantly developing innovative methods for the improvement of new and existing products. For example, more and more welding assemblies are converted into castings. This ensures a greater freedom in design. Also problems with welded seams are being prevented.

3D printing (solid modelling)

All our castings are custom made. The tooling is based on a 3D drawing. To offer our customers an extra service, we have the possibility to produce a tangible model with our HP colour design jet 3D. This way you can judge your casting in plastic, before it is taken into production.

The 3D printer can produce a solid model by rapid prototype within a few hours. The machine produces ABS plastic wires, which are printed layer by layer and are 'glued' together to a solid form.



Elcee - four business units

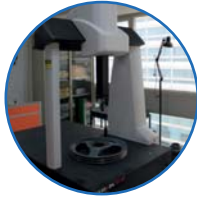
Functional & durable product solutions!



Production facility in China

In Wuxi (China) Elcee has access to 3000 m2 production (CNC factory). A wide range of machining operations are possible. From conventional operations to complex CNC machining (wholly or partially). We are also able to produce welding assemblies and combined products in our own facility.

Critical products are processed in-house, in order to maintain control during production.



Castings & forgings

This business unit is specialised in advising, designing and delivering products made according to drawing, in casted, forged or assembled executions. The products can also be designed in 3D by means of inhouse rapid prototyping.

Stainless steel fasteners

Reliable stainless steel fasteners for durable, safe constructions, specials, hose clamps and thread inserts. Large stock, quick deliveries, competitive prices and excellent service level.

Plain bearings

We are the specialist in engineering, manufacturing and calculating plain bearings for your application. The largest in the field of TriboTop® composite materials and bearings of high alloy steel and bronze. Agent for the Netherlands for igus® plastics, linear guidings and spherical bearings.

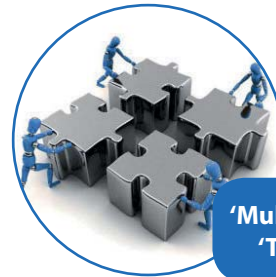
Lifting

Agent of the Netherlands of Gunnebo® and GrabIQ® chain and components, Gunnebo® lashing equipment, Gunnebo® Johnson snatch blocks and Gunnebo® Anja shackles and rigging screws.

VISION

Elcee wants to be a major player (globally active) and a leading supplier of engineered parts, assembled products and standard products for the industrial and construction market.

Supported with innovative concepts, high technical quality norms, educated personnel, reliable supply chains, competitive pricing, with an ultimate service-orientation and a professional attitude.



'Multi competence centre' & 'Total concept supplier'

MISSION

- Knowledge Organization
- Highly trained personnel
- Multi-technology competence center
- One stop service
- Development, design, delivery
- 3D design & prototyping
- Quality guaranteed
- Reduction 'TCO' (Total Cost of Ownership)
- Sophisticated logistics
- Solid financial basis

STRATEGY

- Internationalisation & export development
- Elcee China acts as a sales company for Asia, U.S.A. & Australia
- Continuous search for sales agents or strategic distribution alliances
- Focus on add-on acquisitions and interesting take over possibilities
- Continuous improvement of existing business and current processes
- Expansion of existing product lines


Globally active!





Elcee Group

Headquarters



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 - Elcee China
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