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RDK Industrievertretungen

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# RDK INDUSTRIEVERTRETUNGEN

RDK Industrivertretungen is a German industrial agency and your contact partner for the procurement of your casting, and forging requirements as well as test stands. With our two locations in North Rhine-Westphalia and Bavaria, we are in close proximity to our customers. This guarantees flexibility and has done so for over 25 years.



# RDK PORTFOLIO

3

PIPES

FORGING

CASTING

TEST BENCHES





# CASTING

Together with our representatives Fondinox, arno metallurgica and Ecrimesa, we offer casting, centrifugal casting, investment casting and parts from metal powder injection molding process in different materials.

# SAND CASTING HIGH GRADE STEEL

5

In cooperation with our client Fondinox we offer you production of sand castings in stainless steel material for valve- and pump and castings in generally for applications that require a high level of resistance in corrosive environments while meeting the highest quality requirements.

## Materials:

Austenitic – Superaustenitic – Heatresistant – Duplex / Superduplex – Nickel Base – Special alloys like Sandvik, Outokumpu and Haynes und original license

## Weight:

Up to max 7.000 kg/apiece

## Delivery versions:

According to the customer's wish in raw, pre machined ,  
finish machined

## Manufacturing process:

Manual  
Semiautomatic  
Automatic

## Qualifications:

ISO 9001, TÜV AD 2000 Wo,  
PED 2014/68/EU and Norsok

## Classification Societies:

All national and international



# HORIZONTAL CENTRIFUGAL CASTING HIGH GRADE STEEL

6

In cooperation with our client Fondinox we offer you production of horizontal centrifugal casting in stainless steel material for valve- and pump and castings in generally.

## Materials:

Austenitic – Superaustenitic – Heatresistant – Duplex / Superduplex – Nickel Base –  
Special alloys like Sandvik, Outokumpu and Haynes und original license.

## Weight:

Up to max 5.000 kg/apiece

## Delivery versions:

According to customer's wish in raw, pre machined , finish machined

## Applications:

mechanical line pipes, line pipes for nuclear power stations, hydraulic or pneumatic cylinders, industrial gases production, conveyors rolls for pulp and paper, dairy, textile, printing, metallurgical industries, bodies for HP ball valves, rolls for heating furnaces, seats, rings, nozzles, radiant tubes, fittings for petrochemistry, assembled components.

## Dimensions:

Outer diameter from 80 to 1500mm, minimum internal diameter 45mm, unitary lengths up to 5500mm



# VERTICAL CENTRIFUGAL CASTING HIGH GRADE STEEL

7

In cooperation with our client Fondinox we offer you production of vertical centrifugal casting in stainless steel material for valve- and pump and castings in generally.

## Materials:

Austenitic – Superaustenitic – Heatresistant – Duplex / Superduplex – Nickel Base –  
Special alloys like Sandvik, Outokumpu and Haynes und original license.

## Weight:

Up to max 4.000 kg/apiece

## Delivery versions:

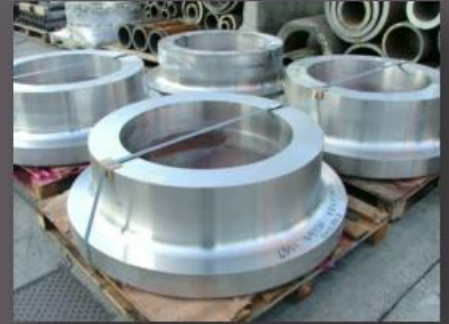
According to customer's wish in raw or finish machined

## Applications:

Balls and flanged bodies for HP valves, seat rings, cylindrical and shaped rings, flanged bushes, valves wedges, hydraulic cylinders and turbine seal and wear rings, seats, conical parts for centrifuges (rotors, bowl shells), valve cages, flanges, high pressure filter housings, conical parts for roll conveyors, gas turbine components, components for petrochemistry (tees, manifolds, line pipes).

## Dimensions:

Outer diameter from 280 to 1400mm, minimum internal diameters 115mm, lengths up to 1000mm.  
Balls from 6" to 32", with or without trunnions



# COPPER ALLOY CASTINGS

8

Together with our partner arno metallurgica, we offer you high quality castings that meet complex quality requirements, both sand casting with hand molding and mechanized molding up to 8000 kg, as well as horizontal or vertical centrifugal casting. Different copper alloys can be processed.

## Materials:

Aluminum bronzes, traditional bronzes (tin / lead), nickel alloys, pure copper

## Weight:

max. 8,000 kgs per piece

## Certificates and materials:

An overview of the diverse certificates can be found on our website.

## Manufacturing method:

Hand molded casting  
mechanical casting  
horizontal and vertical centrifugal casting

## Fields of application:

Industry (electrochemical plants and more)  
Components for marine fields and off-shore platforms  
Energy production  
Electrical industry  
Zinc plating electrolytic plants





# INVESTMENT CASTING

9

Ecrimesa manufactures steel and aluminum components by precision casting. Ecrimesa has an in-house tool shop equipped with state-of-the-art equipment such as wire EDM machines or 5-axis high-speed machining centers. The wax injection range is characterized by high variability by combining automatic with semi-automatic and manual injection molding machines to meet the needs of a wide range of customers.

## Materials:

Structural steels, tool steels, stainless steels (free-cutting steel, martensite austenitic, duplex, etc.), aluminum, cobalt, nickel

## Certificates:

ISO/TS 16949:2016, EN 9100:2018, ISO 14001:2015 und AD 2000 WO

## Manufacturing :

semi-automatic  
Fully automatic  
manual

## Services:

Fast Prototyping  
Machining  
Vacuum heat treatment  
Surface treatment  
Delivery of assemblies



# METAL INJECTION MOLDING MIM

10

Mimecrisa, part of the Ecrimesa Group, is one of the world's leading companies in the field of metal powder injection molding (MIM). As the first company in the world to produce MIM parts in a continuous furnace, since 1993 Mimecrisa has developed more than 2000 different references with customers from over 20 countries and a wide range of industries.

The fully automated production makes it possible to produce components without manual handling, from the spraying of the greenhouses to leaving the sintering furnace. The facilities are equipped with optical inspection systems to meet the highest quality requirements.

## Materials:

low-alloyed steel (iron-nickel), tool steel (slightly magnetic), stainless steel (ferritic, martensitic, hardened, non-magnetic, nickel-free, heat-resistant), special alloys (heat & wear resistant up to 1000 °C eg hastelloy)

## Certificates:

ISO/TS 16949:2016, EN 9100:2018, ISO 14001:2015

## Manufacturing:

Metallpulverspritzguss

## Services:

Fast Prototyping  
Machining  
Vacuum heat treatment  
Surface treatment  
Delivery of assemblies





# FORGING

We offer in the field of forging products open die forging and drop forging. Our representatives in this regard include Forgiatura Marcora. We currently can also advise you in drop forging. Furthermore, we can offer you finished forgings, which can be manufactured by our Chinese partner Henghao Machinery according to your requirements.

# OPEN DIE FORGING

12

Together with our agency Forgiatura Marcora we offer a wide variety of forgings.

## Product map of Forgiatura Marcora:

Oil & Gas Industry

General Mechanics and Engineering Industry

Electricity production industry

Construction and Mining Industry

Road and Rail Transport industry

Open die-forging

## Delivery specifications:

According to customer's wish in raw, semi-finished or finished

## Weight:

Up to max. 30t



# FINISHED FORGINGS

13

Do not hesitate to contact us regarding finished forgings. Our partner Henghao Machinery based in Suzhou (China) manufactures various forgings in small and large series.

## Products:

Balls  
Ball valves  
Bodies  
Flanges  
Seats

## Dimensions:

2 to 56"

## Editing options:

ENP  
Ion oxidation  
sprayed stellite  
sprayed tungsten carbide  
copper plating  
(Other options on request)

## Materials:

A list of the material numbers  
can be found on our website

## Applications:

Oil and gas industry	water supply and treatment
chemical industry	and many more





# PIPES

Together with our representative Fondinox we offer reformer tubes. These serve the most diverse fields of use and are available in different designs. We are proud to present the wide range of products in the field of pipes.

In collaboration with our partner we can design and produce your individual pipe reliably.

# HORIZONTAL CENTRIFUGAL CASTING

15

In cooperation with our client Fondinox we offer you production of horizontal centrifugal casting in stainless steel material for valve- and pump and castings in generally.

## Materials:

Austenitic – Superaustenitic – Heatresistant – Duplex / Superduplex – Nickel Base –  
Special alloys like Sandvik, Outokumpu and Haynes und original license.

## Weight:

Up to max 5.000 kg/apiece

## Delivery versions:

According to customer's wish in raw, pre machined , finish machined

## Applications:

mechanical line pipes, line pipes for nuclear power stations, hydraulic or pneumatic cylinders, industrial gases production, conveyors rolls for pulp and paper, dairy, textile, printing, metallurgical industries, bodies for HP ball valves, rolls for heating furnaces, seats, rings, nozzles, radiant tubes, fittings for petrochemistry, assembled components.

## Dimensions:

Outer diameter from 80 to 1500mm, minimum internal diameter 45mm, unitary lengths up to 5500mm



# VERTICAL CENTRIFUGAL CASTING

16

In cooperation with our client Fondinox we offer you production of vertical centrifugal casting in stainless steel material for valve- and pump and castings in generally.

## Materials:

Austenitic – Superaustenitic – Heatresistant – Duplex / Superduplex – Nickel Base –  
Special alloys like Sandvik, Outokumpu and Haynes und original license.

## Weight:

Up to max 4.000 kg/apiece

## Delivery versions:

According to customer's wish in raw or finish machined

## Applications:

Balls and flanged bodies for HP valves, seat rings, cylindrical and shaped rings, flanged bushes, valves wedges, hydraulic cylinders and turbine seal and wear rings, seats, conical parts for centrifuges (rotors, bowl shells), valve cages, flanges, high pressure filter housings, conical parts for roll conveyors, gas turbine components, components for petrochemistry (tees, manifolds, line pipes).

## Dimensions:

Outer diameter from 280 to 1400mm, minimum internal diameters 115mm, lengths up to 1000mm.  
Balls from 6" to 32", with or without trunnions





# PIPES IN STOCK



Our partner Fondinox has pipes also in stock. These can be delivered quickly when needed.

For an overview of all available pipes on stock click here:  
<http://www.fondinox.com/stock/>

A large industrial pressure tightness test machine is shown in a factory setting. The machine features a prominent horizontal threaded rod passing through a large, orange and blue cylindrical chamber. To the left, a motor and various cables are visible. To the right, a control panel with a digital display is mounted on a stand. The background shows the interior of a large industrial building with high ceilings and structural beams.

# TEST BENCHES

Together with Italcontrol Srl we offer tailor-made to your needs pressure tightness test machines. For questions and discussions we are happy to help you..

# TEST BENCHES

19

Italcontrol, an Italian manufacturer with experience dating back to the beginning of the 90s in the field of valve testing and calibration, is able to offer one of the most complete lines of high quality **test bench** units and special equipments for industrial valves and actuator testing and control as well as special design for all shut-off, control and safety valves according to the existing standards.

The various kind of specialized works carried out and problems solved, together with advanced product development and research into any new technology and solution allows Italcontrol to also offer highly specialized testing systems for extremely high hydraulic and pneumatic pressures.

## Products:

Horizontal Test Benches

Vertikal Test Benches

Multistage Test Benches

Tilting Test Benches

Safety Test Benches

Special Test Benches

Pipe Test Benches



# RDK INDUSTRIEVERTRETUNGEN

20

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21

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