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RING BLANK
PLANT

QUALITY IN DETAILS

20
years

flanges / gaskets / components / blanks



The enterprise applies modern technologies of electroslag casting and hot forming, which provide for stable quality of metal in full compliance with ASTM, ASME, DIN standards. The Ring Blanks Plant has its own machining facility for the pipeline fittings up to 3500 mm in outer diameter and up to 2000 kg in weight.



The ISO 9001:2015 quality management system applied at the enterprise ensures consistent high quality of products, meeting production deadlines, providing comfortable work environment and maintaining of equipment in serviceable condition, while the management principles and strategy help to arrange the work with the customer and plant divisions operations more accurately and smoothly. Compliance with international standard ISO 9001:2015 is verified by the certificate issued by Bureau Veritas Certification. The products comply with the requirements of EEU Customs Union technical regulations TP TC 032/2013.



Compliance with all technical requirements at each production stage results in competitive top-quality products that are in demand in the market of pipeline fittings and valves.



Customer focus and custom approach to complex client tasks are the key principles of the Ring Blanks Plant.

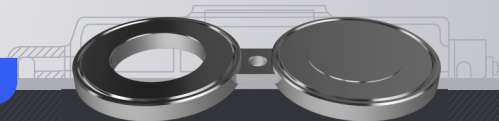
years



The **Ring Blank Plant** was founded in 2002 in the city of Omsk and today is one of the leading enterprises in the production of high quality steel blanks for various purposes to manufacture equipment parts for thermal power, oil and gas, chemical and general industrial engineering.

Intended purpose of the plant's products

- Connections on process and main pipelines
- Ball valve components
- Heat-exchange and reservoir equipment
- Control valves, gate valves
- Flanges for valves
- Mining fittings
- Bearing housings





THE COMPANY'S MANAGEMENT MAKES THE FOLLOWING QUALITY COMMITMENTS:

1

To meet customer requirements and expectations by producing quality products with high consumer performance in line with standards and accumulated experience.

2

To sustain leadership in the region for manufacturing of ring blanks, flanges, and flanged plugs.

3

To expand the current sales markets and develop new ones.

4

To maintain a sustainable financial standing of the enterprise, stable employment and social security of personnel.

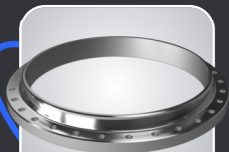
5

To create favorable work environment, encouraging the involvement of each employee in the continuous improvement of the manufactured products quality.

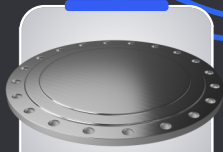
6

To constantly improve the quality management system efficiency as required by ISO 9001-2015 and compliance with the requirements of all stakeholders.

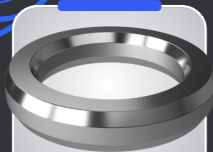




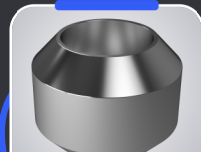
Steel
flanges



Steel
plugs



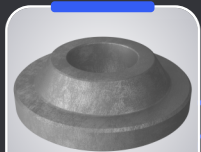
Steel
gaskets



Ball valve
accessories



Special/Custom
items



Ring
blanks



Forging,
rolled rings



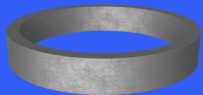
Semifinished
metallurgical
products (bars)

- 1 Pipelines components with low performance requirements are made of carbon steel:**
ASTM A 105 Gr1, A 106 GrA, B, A 659 CS Type 1020, A 794 CS Type 1020,
EN 1.1151, AISI 1020, DIN C22E.
- 2 Cold-resistant pipelines components** with easy weldability from structural low-alloy steels
for cryogenic temperatures and severe winter weather conditions
ASTM A 516-65, A 561 Gr70, A 516-55, A516-60.
- 3 Heat-resistant pipelines components** exposed to high temperatures of the external
and internal environments, are made of the steel:
ASTM SA-387 Gr5, A 193 Grade B5, A 182 Grade F5, DIN 17176.
- 4 Pipelines components are made of corrosion-resistant steel:**
13XΦA, 09ГΦ, ASTM SA-333, ASTM SA-350 GrLF2, DIN 17102.
- 5 Pipelines components from stainless steel** resistant to intercrystallite corrosion for use in
dilute solutions of acetic, phosphoric, nitric acids, alkali and salt solutions at temperature
from -196 to +600 ° C under pressure – UNS S31635, AISI 318, 316H, 316Ti, AISI 321, UNS S32100,
DIN EN 1.4878, 1.4541, X6CrNiTi18-10, X12CrNiTi18-9, X10CrNiTi18-9, DIN EN X10CrNiMoNb18-12,
1.4583, 1.4571, X10CrNiMoTi18-10, X6CrNiMoTi17-12-2).
- 6 Heat-resistant stainless pipelines components:** AISI 420, ASTM A 580 420, A 276 420.

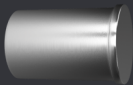


Particular attention is paid to the quality of products, since they are used at critical facilities at high temperatures and in the extreme north, exposed to aggressive environments and excessive pressure.

THE CENTRAL PLANT LABORATORY MONITORS ALL MATERIALS USED AND PRODUCTS MANUFACTURED:



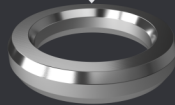
for chemical composition
and mechanical properties



for non-destructive testing
by ultrasonic flaw detection
and radiography



for macro- and
microstructure analysis



for intergranular corrosion
resistance tests



Ring Blanks Plant performs research and development work in cooperation with leading Russian institutes to improve the quality of products, as evidenced by various conclusions and test protocols.

1



Design
documentation
development

2



Machining

3



Chemical
analysis

4



Heat
treatment

5



Mechanical
properties control

6



Nondestructive
testing

7



Mechanical
properties control

8



Macro- and
microstructure
analysis

9

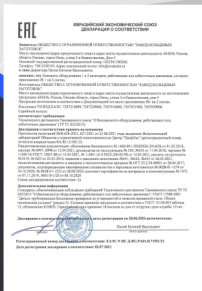
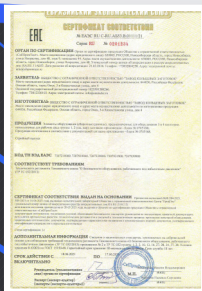


Labeling

10



Packaging



We accomplish projects to produce parts of any complexity in a professional manner.

We document our commitments to production schedules in contracts and adhere to them strictly.

We continuously train our staff to provide the best quality of products.

We meet all legal requirements and provisions of the TR CU 032-2013 Technical Regulations and other standards.

We value our reputation as a reliable partner.

years



www.omskzkz.ru



vk.com/omskzkz

Address: Bld. 1, 1 Petrovskaya Kosa str.,
St. Petersburg, 197198 Russia

CEO (reception)

Telephone:
8-800-500-22-90
info@omskzkz.ru

Sales Dept.

Telephone:
8-800-500-31-85
zakaz@omskzkz.ru

Procurement Dept.

Telephone:
+7 3812 90-42-65
+7 3812 33-10-38
zakup@omskzkz.ru
ved@omskzkz.ru