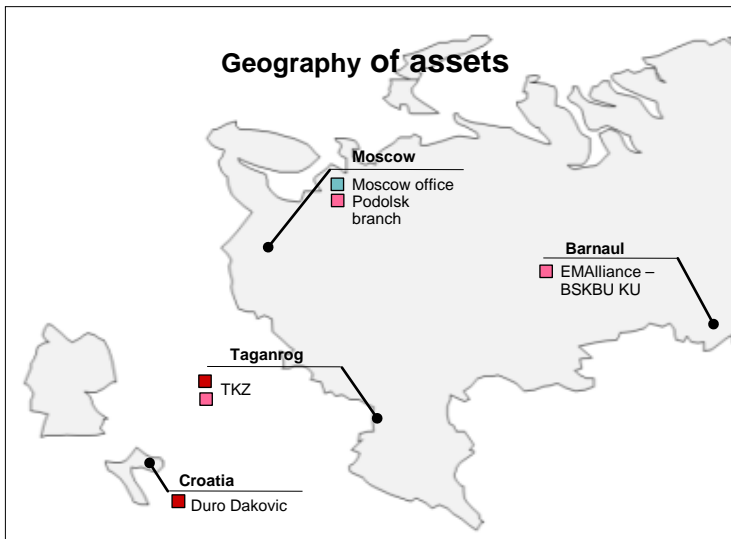




TKZ/EMAlliance: Company presentation

EMALLIANCE: GENERAL INFORMATION

- EMAlliance is one of Russia’s largest power machine-building companies. It was established in 2005.
- The core manufacturing asset is Krasny Kotelshchik Plant (Taganrog) that was founded in 1896.
- In 2011 EMAlliance acquired Duro Dakovic - one of the largest European boiler equipment manufacturing companies.
- The staff totals 4 794 employees (as of March 2014)
- There are about 400 engineers and designers in the engineering departments of the company. (It includes 4 engineering centers with the representatives of 3 engineering schools)
- The Company holds Russian market shares with capacity of more than 60% as to coal power plants and over 43% as to combined-cycle power plants*.
- EMAlliance is the largest supplier of equipment for reconstruction of power plants in the CIS.
- In February 2012 EMAlliance became the part of Power Machines group of companies - the manufacturer of turbo-generator equipment for thermal, hydro and nuclear powers.



- - marketing, sales
- - designing, construction, project management
- - equipment manufacturing

The main clients



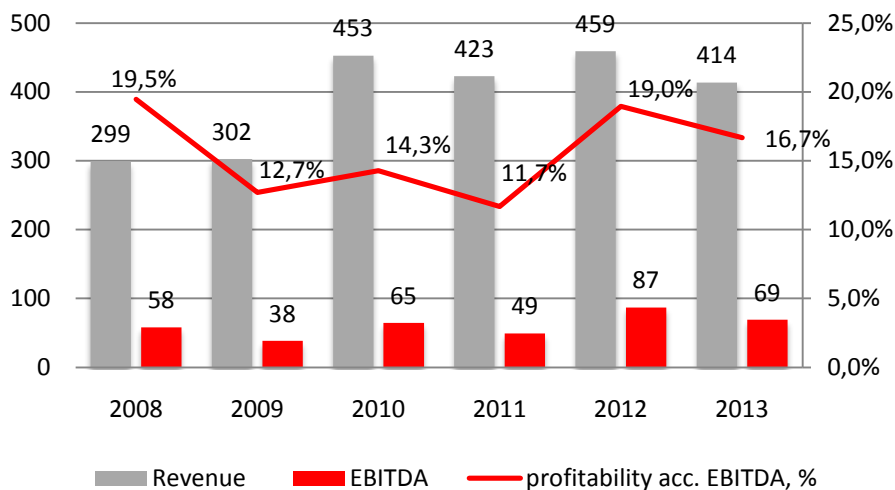
The main range of products

- coal and gas & oil boilers of steam capacity up to 1200 MW with subcritical and supercritical steam parameters;
- boilers for burning solid waste and biomass;
- heat recovery steam generators after GTs up to 375 MW for combined cycle power plants (Nooter Eriksen license);
- equipment for Nuclear PP, Petrochemical, Gas & Oil, heat-exchange and water treatment equipment.

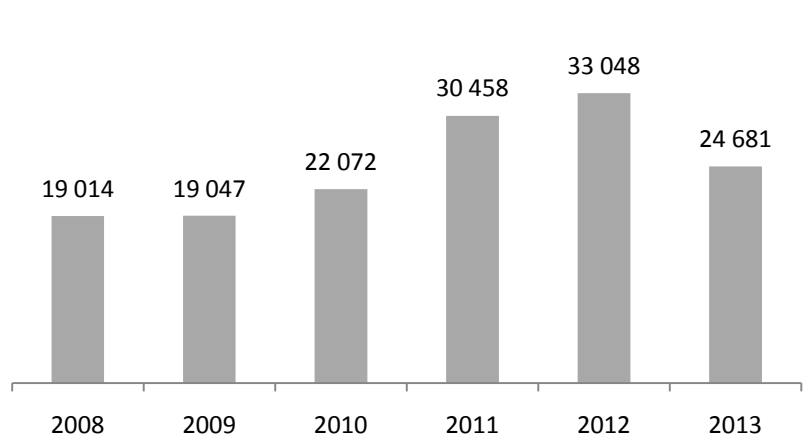
* - the results of the tenders 2007-2012.

EMALLIANCE: PRODUCTION - FINANCIAL INDICATORS

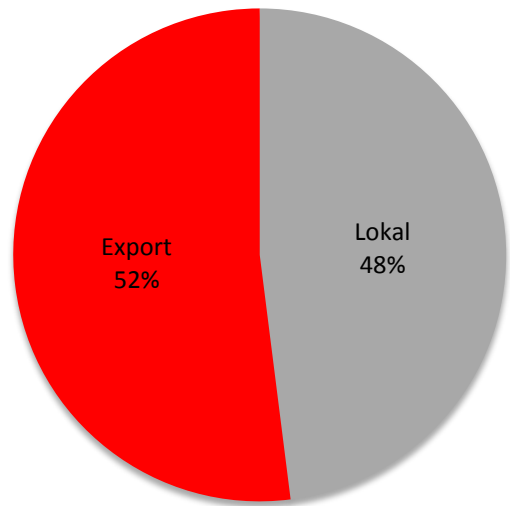
Company financials, million USD.



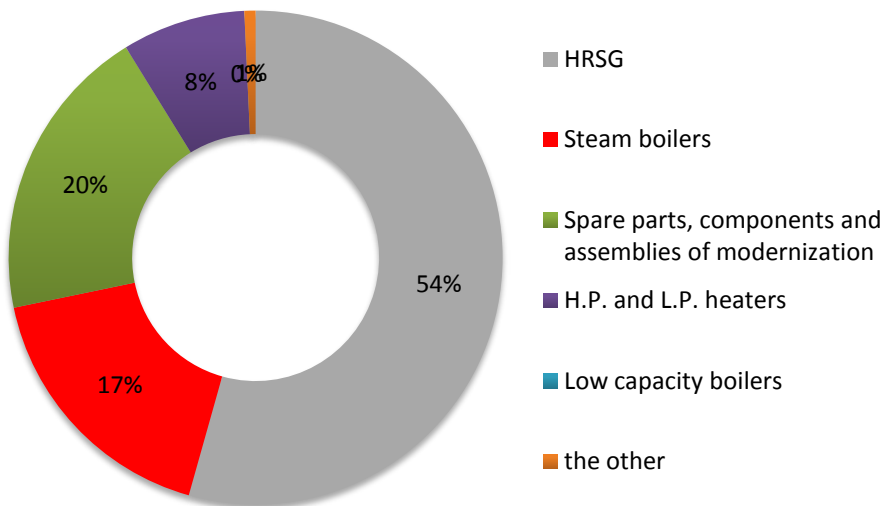
TKZ product output, t



Revenue structure, 2013 r.



TKZ production structure, 2013 r.



EMALLIANCE: RANGE OF PRODUCTS



Utility and industrial boilers (natural gas, coke gas, blast furnace gas, oil, heavy oil, coal oil, brown coal, bituminous coal, dry burning coal, anthracite etc.)

- for subcritical units up to 660 MWe with a steam capacity from 160 to 2000 tons per hour
- for supercritical units from 300 up to 1200 MWe with a steam capacity from 900 to 3950 tons per hour



Heat recovery steam generators (under license of Nooter/Eriksen, USA):

- HRSGs (1-, 2-, 3- pressure) after gas turbines from 25 up to 375 MWe

Utility and industrial boilers and HRSG for metallurgy



Pressure parts for waste incineration boilers

Pressure parts for biomass-wood incineration boilers

Heat exchange equipment for thermal and nuclear power plants:

- low pressure heaters with maximum pressure for water 32 atm and for steam 8 atm
- high pressure heaters with maximum pressure for water 350 atm and for steam 80 atm



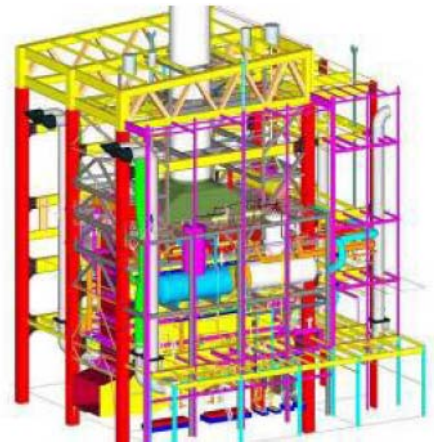
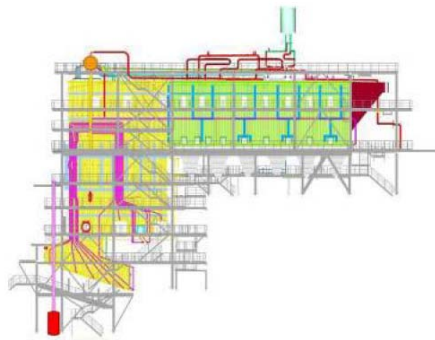
Deaerators with a steam capacity from 225 up to 1000 t/h

Regenerative air preheaters

Chemical water treatment equipment

Steel structures

Pipelines components for oil and gas sector





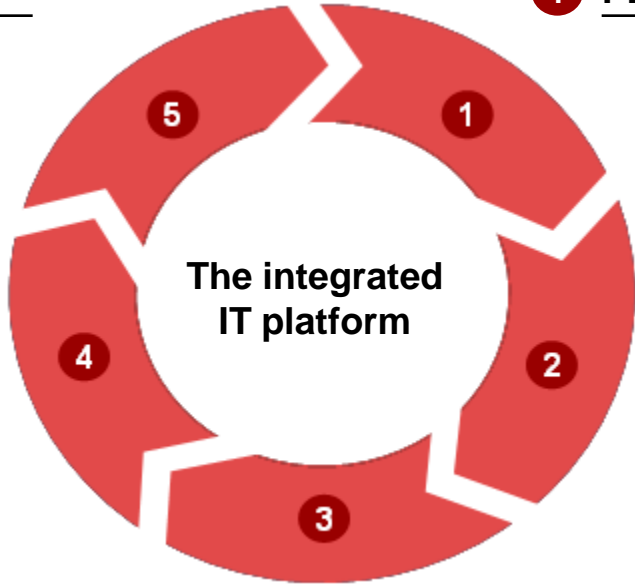
5 Primavera 

1 PDMS 

4 Boiler Designer 
Boiler Designer

2 ANSYS 

3 Inventor 



EMALLIANCE: CERTIFICATES AND LICENSES

Certificate

Standard: **ISO 9001:2008**

Certificate Registr. No: **75 100 70422**

Certificate Holder: TÜV Rheinland InterCert certifies:
EnergMashinostroitelny Alliance
Public Joint Stock Company
(EM Alliance PJSC)
 220, Lenin av.,
 347928, Taganrog, Rostov Region
 Russian Federation



Scope: EPC-Contracting in construction, reconstruction and modernization of power plants; designing and supply of power engineering and petrochemical equipment; rendering of engineering services.

Validity: An audit was performed. Proof has been furnished that the requirements according to ISO 9001:2008 are fulfilled.
 The certificate is valid from 24.12.2010 until 23.12.2013.

Moscow, 24.12.2010. 

Accredited certification body
 TÜV Rheinland InterCert AG
 11100, Saarland, 50670, Bonn

Certification branch office in Russia
 TÜV Rheinland InterCert AG, LLC
 Leninsky pr. 10/1, 125109, Moscow
 www.tuv.com




Сертификат

Стандарт: **ISO 9001:2008**

Рег. номер: **75 100 70422**

Держатель сертификата: Настоящим TÜV Rheinland InterCert подтверждает, что:
Открытое Акционерное Общество
«Энергомашиностроительный Альянс»
(ОАО «ЭМАЛИАНС»)
 347928, Ростовская область,
 г. Таганрог, ул. Ленина, 220
 Российская Федерация



В области: управление строительством, реконструкцией, модернизацией энергетических объектов на условиях генерального подряда; проектирование, поставка энергетического и нефтехимического оборудования; оказание инженерных услуг.

Срок действия: Применит систему, соответствующую требованиям стандарта ISO 9001:2008, что подтверждено на основании проведенного аудита.
 Настоящий сертификат действителен с 24.12.2010 по 23.12.2013.

Moscow, 24.12.2010. 

Аккредитованный орган по сертификации
 TÜV Rheinland InterCert AG
 11100, Saarland, 50670, Bonn

Вспомогательный офис по сертификации в РФ
 TÜV Rheinland InterCert AG, LLC
 125109, Москва, Ленинский пр-т,
 10/1, этаж 10-10
 www.tuv.com





Certificate

Standard: **ISO 9001:2008**


Certificate Registr. No: **75 100 70422/1**

Certificate Holder: TÜV Rheinland InterCert certifies:
Public Joint Stock Company «Engineering
Centre «EnergMashinostroitelny Alliance –
Barnaul Special Design Bureau of Boiler
Plants (PJSC «Engineering centre
«EM Alliance – БСББ ВР»)
 155а, Lenin av., Barnaul, Altay region, Russian Federation, 656049





Scope: project development of boiler plants; rendering of engineering services.

Validity: An audit was performed. Proof has been furnished that the requirements according to ISO 9001:2008 are fulfilled.
 The certificate is valid from 30.01.2012 until 23.12.2013.
 1 sub-certificate is part of this main certificate.

Moscow, 30.01.2012. 

Accredited certification body
 TÜV Rheinland InterCert AG
 11100, Saarland, 50670, Bonn

Certification branch office in Russia
 TÜV Rheinland InterCert AG, LLC
 Leninsky pr. 10/1, 125109, Moscow
 www.tuv.com

Сертификат

Стандарт: **ISO 9001:2008**

Рег. номер: **75 100 70422/1**

Держатель сертификата: Настоящим TÜV Rheinland InterCert подтверждает, что:
Открытое Акционерное Общество
«Инженерный Центр
«Энергомашиностроительный Альянс –
Барнаульский Специальный Конструкторское
Бюро Котельных Установок»
(ОАО «Инженерный Центр
«ЭМАЛИАНС – БСКБ ВР»)
 Российская Федерация, 656049, Алтайский край,
 г. Барнаул, пр-т Ленина, 155а.



В области: проектирование котельных установок, оказание инженерных услуг.

Срок действия: Применит систему, соответствующую требованиям стандарта ISO 9001:2008, что подтверждено на основании проведенного аудита.
 Настоящий сертификат действителен с 30.01.2012 по 23.12.2013.
 1 суб-сертификат является частью основного сертификата.

Moscow, 30.01.2012. 

Аккредитованный орган по сертификации
 TÜV Rheinland InterCert AG
 11100, Saarland, 50670, Bonn

Вспомогательный офис по сертификации в РФ
 TÜV Rheinland InterCert AG, LLC
 125109, Москва, Ленинский пр-т, 10,
 этаж 10-10
 www.tuv.com




ФЕДЕРАЛЬНАЯ СЛУЖБА
 ПО ЭКОЛОГИЧЕСКОМУ, ТЕХНОЛОГИЧЕСКОМУ И АТОМНОМУ НАДЗОРУ

ЛИЦЕНЗИЯ

№ ДЭ-00-069316 (К) от 26 ноября 2008 г.

На осуществление деятельности
 «Деятельность по проектированию и изготовлению промышленной безопасности»

Исполнены записки технического устройства, прилагаемая на основании производственной области; проектные записки зданий и сооружений на объект производственного объекта

Настоящая лицензия предоставлена юридическому лицу
Открытое акционерное общество «Энергомашиностроительный Альянс»
 (зарегистрированное в соответствии с Федеральным законом от 08.08.2001 № 135-ФЗ)

ОАО «ЭМАЛИАНС»
 (зарегистрированный юридический адрес)

Основной государственный регистрационный номер записки о государственной регистрации юридического лица: 1045014708297

Серия 1 В 315533

ФЕДЕРАЛЬНАЯ СЛУЖБА
 ПО ЭКОЛОГИЧЕСКОМУ, ТЕХНОЛОГИЧЕСКОМУ И АТОМНОМУ НАДЗОРУ

ЛИЦЕНЗИЯ

Регистрационный номер: ДЭ-11-101-1773 от 22 июня 2011 г.

Лицензия выдана: открытому акционерному обществу «Энергомашиностроительный Альянс»

Юридический адрес лицензиата: Ростовская обл., г. Таганрог, ул. Ленина, 220.

Лицензия дана право на: эксплуатацию оборудования для котельных установок.

Объект, на котором или в отношении которого проводится лицензируемая деятельность: банк отводов стандарта.

Основание для выдачи лицензии: заявление открытого акционерного общества «Энергомашиностроительный Альянс» (всего № 3968 от 06.12.2010), решение Дирекции инженерно-технического управления по надзору за ядерной и радиационной безопасностью Федеральной службы по экологическому, технологическому и атомному надзору от 21 июня 2011 г. № 1796.

Срок действия лицензии: до 22 июня 2018 года.

Настоящая лицензия при соблюдении условий действия лицензии, включенных ее лицензирующей частью.

И.о. уполномоченного органа лицензирующего:  Д.И. Волков

Серия 1 В 277448

Федеральное агентство по строительству и жилищно-коммунальному хозяйству

ЛИЦЕНЗИЯ

№ 008130

№ ГС-1-89-02-74-507600474-082285-1 от 15 января 2008 г.

На осуществление
 «проектирование зданий и сооружений I и II уровней ответственности в соответствии с государственными стандартами»

Выбы работы (услуги), выполняемые (оказываемые) в составе лицензируемой виды деятельности согласно приложению

Настоящая лицензия предоставлена
 Открытому акционерному обществу
 «Энергомашиностроительный Альянс»

ОГРН 1055014708297

Федеральное агентство по строительству и жилищно-коммунальному хозяйству

ЛИЦЕНЗИЯ

№ 008130

№ ГС-1-89-02-74-507600474-082285-1 от 15 января 2008 г.

На осуществление
 «проектирование зданий и сооружений I и II уровней ответственности в соответствии с государственными стандартами»

Выбы работы (услуги), выполняемые (оказываемые) в составе лицензируемой виды деятельности согласно приложению

Настоящая лицензия предоставлена
 Открытому акционерному обществу
 «Энергомашиностроительный Альянс»

ОГРН 1055014708297

TKZ “KRASNY KOTELSHCHIK”: COMPANY INFORMATION

PJSC “TKZ “Krasny Kotelshchik” is one of the largest Power-Engineering Manufacturers of boilers, heat-exchangers, water treatment and auxiliary equipment in Russia and Europe.



Year of foundation: 1896. Production of the boiler equipment started in 1932.

Production area: 108 hectares

Staff 3 810

Location and Logistics: The town center, 2 kilometers from the federal highway Moscow-Rostov-Mariupol; it's own railway branch connects the plant with the North Caucasian railway; situated near Taganrog sea transport port.

Products

- **fossil fuel boilers:**
 - gas
 - fuel oil
 - solid fuels (coal, coal blend)
 - **HRSB for combined-cycle plant :**
 - 2 pressure
 - 3 pressure (reheat-type)
 - **Heat Exchange and auxiliary equipment:**
 - High Pressure Heaters
 - Low Pressure Heaters
 - Drums, Deaerators
 - Pipe fitting
 - Pipeline elements (Valves, T-joints, bends)
- for power units at sub-critical steam parameters up to 300 MW
 - for power units at supercritical parameters of steam from 300 to 1200 MW
 - for a gas turbine (GT) up to 300* MW
 - for blocks of all power range

TKZ “KRASNY KOTELSHCHIK”: MANUFACTURE

TKZ “KRASNY KOTELSHCHIK” has capacity to make annually up to 6 GW of the boiler equipment (3.5 GW - boilers and 2.5 GW - HRSG) or about 60 thousand tons of steel products.

The total area of plant – 108 hectares, the area of shops – 428.057 thousand sq.m

The main TKZ shops grouped according to 4 structural and technological features:

- **Heating surfaces production**
- **Shell-type equipment production**
- **Steel structures production**
- **Blanking production**



Heating surfaces production



Production: gastight panels, superheater assemblies (convection, platen, radiation, ceiling) heating surfaces, water economizers, modules of HRSG.

Park of the equipment and description of technological process:

For manufacturing membrane gastight panels are used mechanized flow lines by VKW, DEUMA for submerged arc welding of the gastight panel elements using the method of “finning by strip” or the method of “welding the strip in”, the strip being up to 800 - 1500 mm wide and up to 27 m long, after that the above elements are pre-assembled into panels up to 3 m in width by means of travelling gantry welding machines.

The production incorporates the unique continuous production flow line for manufacturing membrane water economisers where the longitudinal fin-to-tube high frequency welding is carried out using Mecopon machine.

Bending of gas tight panels is performed by using special bending mills with horizontal bending axis and with vertical bending axis for left- and right-hand bending of panels up to 3 m.

There is an equipment for production of convective surfaces of the heating that allows to bend pipes with an outer diameter from 25 mm to 89 mm with a relative bend radius $R_{bnd./Dtr.} > 1$.

For manufacturing of modules of heat recovery steam generators there are three spiral finning lines (**HAN-SUNG**) of tubes 32 – 75 mm in diameter and length up to 24 m. The maximum module dimensions - 3500x3500x26000 mm.

Own production of headers for heating surfaces fitted with equipment for drilling, machining and welding.



Shell-type equipment production

Production: High and Low pressure heaters, HP, IP and LP drums, evaporators, deaerators, separators, water treatment filters.

Park of the equipment and description of technological process:

The mechanized submerged arc welding of longitudinal and circular weld joints is widely used in manufacturing of the shells of vessels, drums, as well as water treatment plants. Longitudinal weld joints of shell-type equipment with the wall thickness of up to 24-140 mm as a rule, are welded in one pass by means of electroslag welding.

The production is equipped with:

- bending rollers for shells up to 13000 mm in length and thickness 25 mm and length 4000 mm with thickness up to 150mm.
- set of “**Babcock**” technological equipment (CNC 3-spindle drilling machine and welding equipment) with the ability to machining holes for nozzles and welding nozzles with full penetration for the manufacture of headers
- CNC 3-spindle drilling machines “**Kolb**” for machining the holes in thick tube plates;
- machines for fixing the heat-exchange tubes in tube plates by hydrostatic method of HYDREX model produced by **MAUS** (Italy)
- set of equipment for around-welding of tubes in tube plates using orbital heads “**Polysoude**”
- edge-planing machine with machining length of up to 12,000 mm;
- gas furnaces for heat treatment of assemblies and products including the pulse gas firing furnace with the automatic control of operation, it corresponds to the world standard requirements. The furnace working space amounts to 4,500 x 4,500 x 14,500 mm.
- gantry welding machines of in-house development for the circular weld joints of the products of up to 3,600 mm in diameter.
- welding machines produced by “**Ransome**” (USA) and “**ESAB**” (Sweden) for weld joints of shells of up to 5,000 mm in diameter and longitudinal weld joints with length of up to 6,000 mm.



Steel structures production

Production : welded and bolted steel structures (boiler steel structures, beams, shields, etc.), regenerative and tubular air heaters, burners, suspension, rods, pipe fittings.

Park of the equipment and description of technological process:

Partly mechanized active-gas welding, manual arc welding, and machine submerged arc welding with flux UP are applied for manufacturing steel structures of boilers and buildings.

The production is equipped with:

- special molding lofts for the trial assembly of the structural elements. The facilities make possible the manufacture of structural elements, the weight of an individual element being up to 100 tons.
- the set of welding equipment that is used for manufacturing steel structures.
- roll-straightening machine (sheet width 3250 mm, thickness up to 60 mm) for workpieces preparing.
- special continuous shotblasting chamber for the sheets, plates and rolled sections pre-production stage.
- turning-and-boring lathe (mod. 1580L) for machining of cogwheel rim bodies and radial seal plates with maximum machining diameter of 8000 mm
- “Toshiba” horizontal-boring mill for machining of components and products with overall dimensions up to 10000x1500x6000 for the manufacture of regenerative air heaters (RAH)
- “**Kraftsanlagen**” (Germany) production line for the manufacture of hot- and cold-end baskets of RAH (capacity is 60 baskets per shift)
- radial marking-out floor plate for assembly-welding of RAPH 18000 mm in diameter, that has the special grooved plates for fixing the parts during assembly works
- floor plate for assembly of RAH steel structures with area 400 m²
- levelled floor plate for assembly of RAH support beams with overall dimensions 15000x4000 mm that allows to carry out assembly and welding works with high accuracy
- levelled floor plate for trial assembly of RAH housing
- two CNC gas cutting machines RB-400/650 for cutting of pipes from 50 to 630 mm in diameter



The blanking production (comprises three sub-divisions)

1. Blanking and cutting of parts from sheets/plates and shaped sections

Specialization: provision of assembly workshops with parts of sheets/plates and shaped sections, manufacture of boiler integral piping.

Park of the equipment and description of technological process :

- thermal cutting gantry machines for sheets and plates of carbon and low-alloy steel grades up to 200 mm thick with work piece cutting accuracy of 1 mm and surface roughness Ra 80
- high-capacity CNC gas cutting machines “**Easy Therm**” (2 pcs., produced by “**Messer**” (Germany))
- machines with photographic tracking control system “**Korta**” (by “**Messer**”), “**Statosek**” (“**Messer**”)
- cutting machine with six cutting torches “**Variosek**” (by “**Messer**”) and with four cutting torches “**Dnepr**” (Ukraine)
- CNC plasma cutting machines for sheets and plates of carbon, low-alloy and stainless steels of austenitic class
- narrow-stream plasma cutting machines “**MetalMaster**” (by “**Messer**”) and air-plasma cutting machine “**Comet**” (Ukraine)
- machines for manufacturing boiler integral piping allowing to carry out bending of pipes with outer diameter from 76 up to 426 mm
- band saw machines for cutting of tubes and shaped sections up to diameter 630 mm



- specialized mechanized machines using copper flux pads allowing to carry out welding in one run of longitudinal welds of shells up to 3600mm in diameter and up to 4000 mm long
- metal machining equipment: screw-cutting lathes with height of centers from 200 to 700 mm; turning and boring lathes with face plate diameter from 1200 to 8000 mm
- horizontal-boring mills: twin-column mill HC-60, mill HC-212 which allows installing products 800 – 3400 mm in diameter, up to 24000 mm long and with weight up to 150t; produced by “**Toshiba**”

2. Machining and machine-assembly works

Specialization: machining of parts for assembly shops, manufacture of power valves, HP heater valves, soot-blowers

Park of the equipment and description of technological process:

- turning-and-boring lathes to process the machining parts up to 8000 mm in diameter and up to 3200 high
- screw-cutting lathes to process the machining shafts up to 2000 mm in diameter and up to 10000 mm long
- horizontal-boring mills with spindle diameter from 80 to 220 mm



- machining centers of IS800 PMF4 model (multi-purpose CNC horizontal drilling and boring mill with increased accuracy with dimensions of table working surface 800x800 mm)
- machining centers of IR500 PMF4 model (multi-purpose CNC horizontal drilling and boring mill, with dimensions of table working surface 500x500 mm)
- gear-milling machines with maximum diameter of machined parts 2000 mm, maximum knife module for steel -20, for cast iron -25
- piano-milling machines equipped with two horizontal and two vertical spindles with maximum table dimensions 2500x8000 mm
- set of equipment for the manufacture and hydraulic testing of power valves, HP heater valves and soot-blowers

3. Press Forging

Specialization: manufacture of a wide range of forgings and stamped work pieces for assembly workshops

Park of the equipment and description of technological process:

Used in production:

- forging equipment: air-and-steam hammers with falling part weight from 0,075 up to 3 t capable to produce forgings with mass up to 400 kg of various steel grades,
- press equipment: hydraulic presses, crank presses, screw-down presses (friction-screw presses and screw presses with electric arc drive) with force characteristics from 40 to 2500 t which allows to produce a wide range of stamped work pieces at the company:
 - elliptic heads 325 - 3400 mm in diameter and $S = 6 - 115$ mm
 - expansion bellows from plate stock
 - return bends 133, 159, 168, 219, 273 and 325 mm in diameter
 - bends bent in dies 108-465 mm in diameter
 - built-up branch pipes 720, 1020 and 1420 mm in diameter
 - stamped half-shells up to 80 mm thick
 - perforated plates
 - fixing arrangements for assemblies: S-turns, scallop plates, post plates, semi-yokes, yokes, etc.
 - flat ends of fire-tube boilers
 - forged and stamped bottoms

TKZ “KRASNY KOTELSHCHIK”: QUALITY

- In order to manufacture qualitative and reliable products, ensuring its safe operation and compliance to requirements of ecological protection, general reliability and convenience of operation Krasny Kotelshchik have all the necessary technical and manufacturing potential and proper licenses.
- The Central Complex of Experimental and Research Laboratory is a part of the company. It is equipped with the necessary devices of control. There is a welding laboratory for training and certification of the personnel and working off of technology of welding, check of welding materials.
- The quality policy is provided with the developed quality control systems and is confirmed with certificates.
- PJSC TKZ “Krasny Kotelshchik” have been certified by the Russian GosStandart in the field of non-destructive examination and have been granted a license for the inspection by the Russian Maritime Register of Shipping.
- In 2003 Krasny Kotelshchik was granted a license for manufacture of equipment for the nuclear power industry.

The following basic inspection and testing methods have been implemented, certified and successfully function at Krasny Kotelshchik:

- *visual and dimensional examination;*
- *non-destructive examination of the base metal and weld joints;*
- *radiographic, ultrasonic, magnetic particle and liquid-penetrant testing, etc.;*
- *chemico-spectrum analysis;*
- *mechanical tests (including a heat resistance test) and metallographic examinations of the base metal and welded joints;*
- *hydraulic tests;*
- *test stands in the research laboratory.*

TKZ “KRASNY KOTELSHCHIK”: QUALITY

- The company guarantees high quality of service and products. The company has developed and maintained an international quality management system ISO 9001:2008.
- The company is certified and has experience in the European Directive PED 97/23/EC, the American code of ASME, stamps S, U, U2. We have experience of working on other standards: British BS, Indian IBR etc.



DURO DAKOVIC TEP: THE MAIN INFORMATION

Duro Dakovic (EMAlliance asset in Croatia) is the second manufacturing facility of the company and one of the largest boiler manufacturers in Europe.

Duro Dakovic company is founded in 1921
 The Group employs 859 people including 80 engineers.
 Duro Dakovic has two main manufacturing facilities -
 Blank production is located in the town of Lužani (1 hectare), the main is located in Slavonski Brod (3,7 hectare).
 The total area of workshops is 15,500 square meters
 DURO DAKOVIC is able to produce annually about 15,000 tons of steel products.



- Duro Dakovic competence focused on basic and detailed engineering, as well as the manufacture of the following products:
 - gas fired small capacity boilers
 - HRSG for industry (metallurgy, petrochemical, pulp and paper industry);;
 - boilers for burning different types of biomass.
 - pressure parts and components for:
 - subcritical and supercritical steam boilers (fuel gas and coal), steam output of up to 1000 t/h (300 MW);
 - HRSG for combined cycle power plants with gas turbines up to 70 MW;
 - boilers for burning municipal solid waste (W-to-E).

Heating surfaces manufacturing



Membrane walls manufacturing



Headers and pipes cleaning



Headers manufacturing



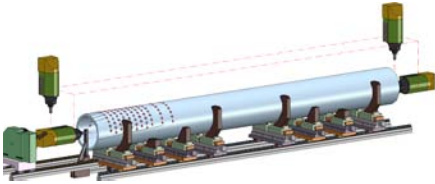
DURO DAKOVIC: MANUFACTURE

Headers manufacturing line



5 Axes Machining Center

Length of header is 1500 - 8000 mm
Diameter of a header is 88,9 - 700 mm
Shaft capacity 38 (56) kw
Shaft speed 16 - 6000 about/m
Number of tools 52



Cladding of headers and pipes



Membrane walls :
- wall sizes 12000 1355mm
- cladding capacity 60m² per month
- cladding material Alloy 625/686
- protective gas (Cronigon® Ni 10)

Headers and pipes :
Sizes min.38mm max.300mm
- length max.8000mm
- cladding capacity 140m² per month
- cladding material Alloy 625/686
- protective gas (Cronigon® Ni 10)

Metalwork shop (parts not under pressure)



shot-blast cleaning plant - width 2500, height 650



Cutting machine with plasma and oxygen. The working surface of 2500 x 21000mm

DURO DAKOVIC: QUALITY

- The company guarantees high quality of service and products. The company has developed and maintained an international quality management system EN ISO 9001 (European norms) and CR ISO 9001 (Croatian norm).

- The company is certified and has experience in:

- o AD 2000 Merkblatt HP0/TRD201/EN729-2 - German standards for pipelines
- o ONORM M 7812-1 - Austrian rules
- o DET NORSKE VERITAS - norms of Scandinavia
- o DIN 18800-7, DIN 18801, DIN 18808, DIN 15018, DIN 4132 - specific norms for welding and processes
- o ASME S - the American norms for boilers
- o ASME U -the American norms for vessels under pressure



