

COMPANY PRESENTATION

**UNIQUE SUPPLIER OF COMPLETE
HYDRAULIC SYSTEM SOLUTIONS**

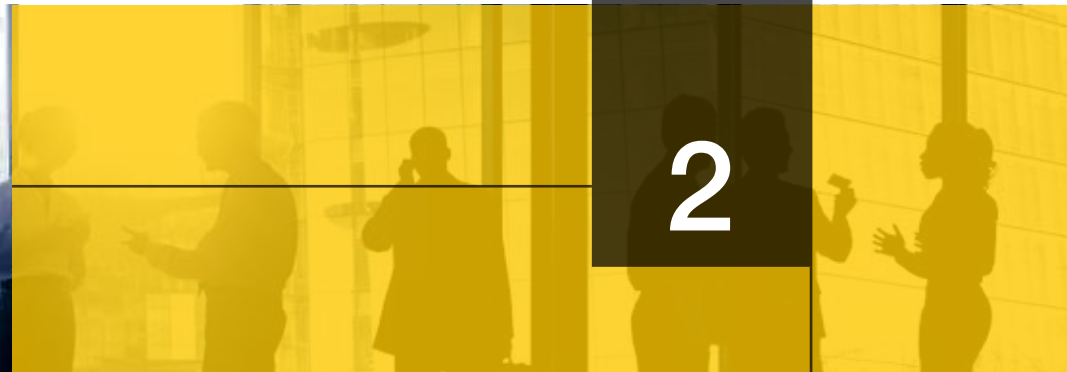


ENGINEERING | DESIGN | MANUFACTURING

hidroser
HYDRAULIC SYSTEMS



Company Profile



2

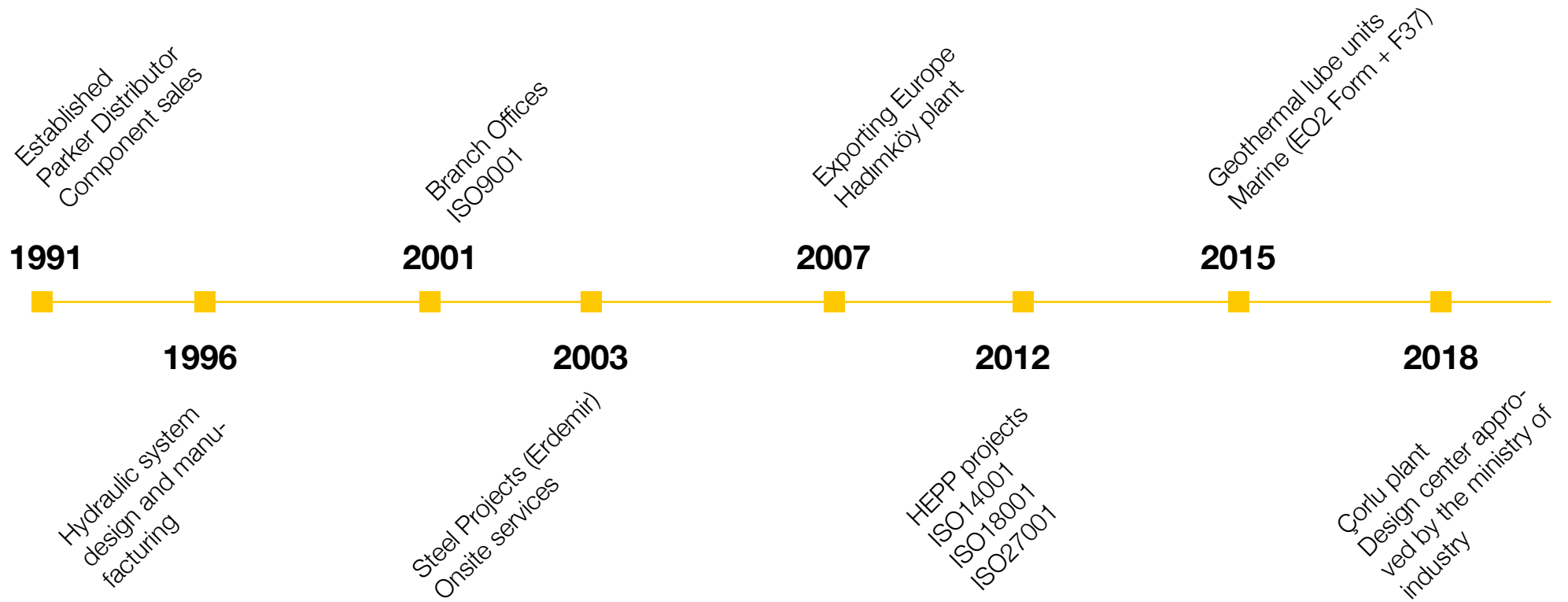
Organizational Structure
Focus Areas
Products
Services



Key Facts

- ▶ **Parker Premier Distributor**
- ▶ **Hydraulic technology + design center**
- ▶ **28 years experience (since 1991)**
- ▶ **Extensive knowledge, know how in ind. hydraulics**
- ▶ **Dynamic, strong workforce of 140 employees**
- ▶ **Outstanding service approach**
- ▶ **Value added services**
- ▶ **Hydraulic system design & manufacturing capability**
- ▶ **Completed turnkey reference projects**
- ▶ **8 locations across Turkey**

Milestones





Parker Hannifin is the global leader in motion and control technologies in mobile and industrial markets.

- ▶ Annual sales \$14 billion (FY18)
- ▶ Over 300 manufacturing facilities
- ▶ 150 sales offices
- ▶ 12.000 distributors
- ▶ 62.000 employees

FOCUS AREAS



STEEL



ALUMINIUM



CEMENT



AUTOMOTIVE



ENERGY



MARINE



Products

Hidroser is operating in significant fields of industry.

Parker Premier Distributor Component Sales

Hydraulics

Pneumatics

Fluid Connectors

Filtration

Instrumentation

Industrial Control

Sealing

Turnkey Design and Manufacturing of Hydraulic and Pneumatic Systems

Hydraulic Power Units

Central Lubrication Units

Hydraulic Valve Stands

Hydraulic Manifolds

Hydraulic Cylinders

Hydraulic Accumulator Stations

Pneumatic Panels

Superior customer service and support provided by **Hidroser**, aiming **total customer satisfaction**.

Services



- ▶ Engineering
- ▶ Design
- ▶ Manufacturing
- ▶ Piping - Pickling - Flushing
- ▶ Start-up
- ▶ Tech. Training and Consultancy
- ▶ Service and Maintenance

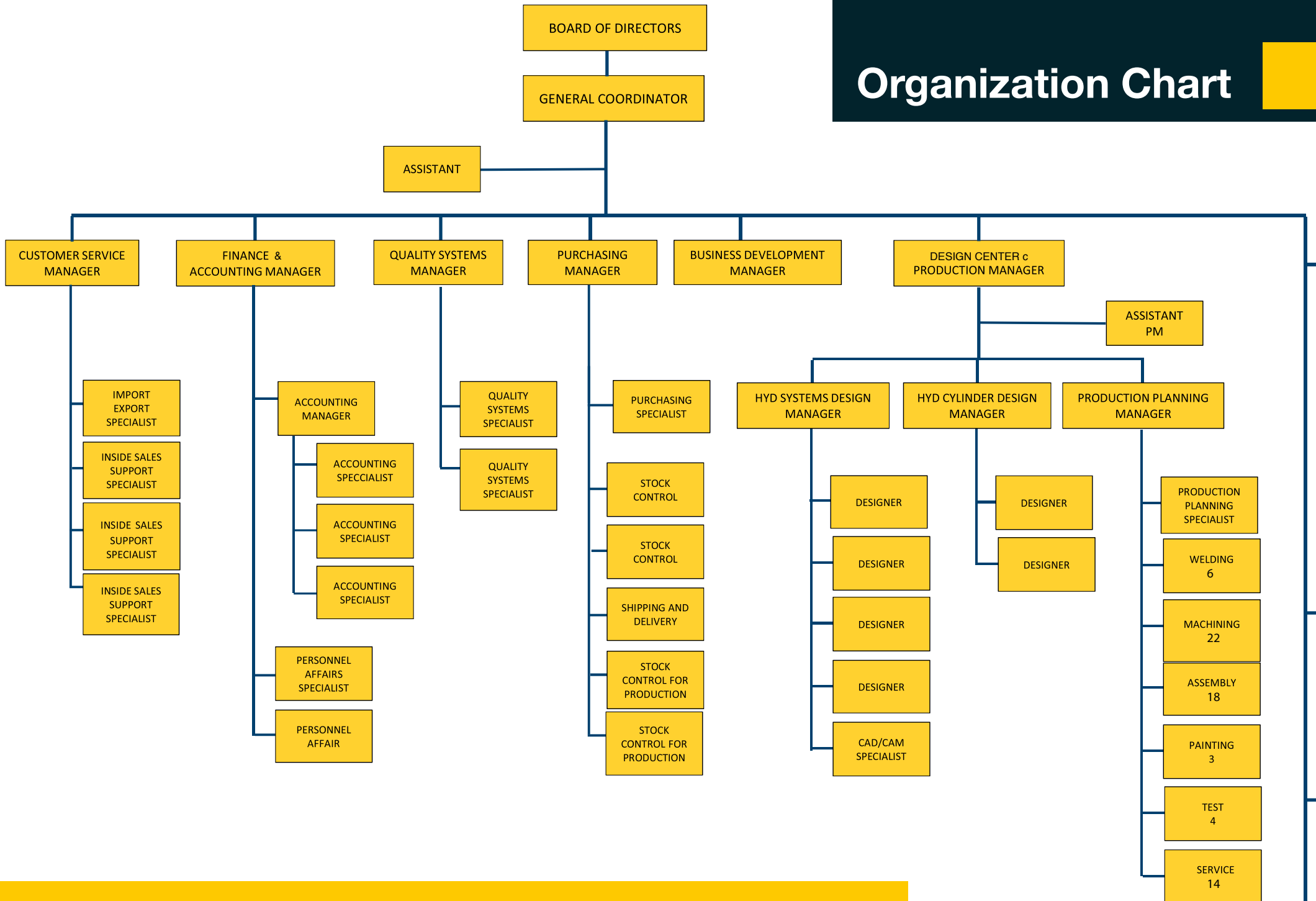
Continuous Improvement

Hidroser displays maximum sensitivity in the fields of;

- Quality
- Occupational health and safety
- Environmental management
- Information security management systems.



Organization Chart



A hand pointing towards a globe with human silhouettes on a grid. The background is a dark blue globe with a grid of white lines. Overlaid on the globe are several white silhouettes of people in business attire, standing on a grid of white squares. A large, glowing hand is pointing towards the center of the globe. A yellow speech bubble is visible in the upper right corner.

Human Resources

140 employees in 8 locations

Hidroser employees add value to the customers with their experience, knowledge and superior service approach.

- **Project & sales engineers (30)**
- **Design engineers (10)**
- **Order processing and inside sales (20)**
- **Finance and accounting (10)**
- **Shipping and delivery (10)**
- **Blue collar workers (60)**

Locations

With 8 spreaded locations in Turkey, we serve our customers almost instant.



	Istanbul	Head Office
	Izmit	Sales Office + Parker Store
	Bursa	Sales Office + Parker Store
	Adana	Sales Office

	Konya	Sales Office + Parker Store
	Ankara	Sales Office + Parker Store
	Izmir	Sales Office + Parker Store
	Çorlu	Manufacturing Plant + Parker Store

Sales Office + Parker Store

hidroser
HYDRAULIC SYSTEMS



**Fast, reliable and
economic solutions**



Value Added Services

14

Project Management
Engineering
Design
Manufacturing
Field Applications



Value Added Services

Engineering, design and manufacturing of complete hydraulic system solutions

Hidroser is providing precision-engineered solutions and partnering customers to improve their productivity and profitability



Project stages	Associated Departments
The agreement and technical specification are mutually signed.	Project
The production schedule and planning table are submitted to the customer and the customer's approval is received.	Project and Production Planning
The schematics and bill of materials are submitted to the customer and the customer's approval is received.	Project
The process of purchase for the materials to be used in the system is commenced and monitored.	Project and Purchase
3D solid model system designs and assembly drawings are submitted to the customer and the customer's approval is received.	Project and Design
The manufacturing processes are executed in accordance with the technical specification and in line with the quality standards. The required interim tests are performed.	Quality
Functional, pressure and leakage tests are performed after welding, assembly and paint. Test reports are issued.	Hydraulic test Quality
The assembly, cabling and testing of the electrical terminal box are performed. Test reports are issued.	Electrical test Quality

Project stages

Associated Departments

The final inspection and tests are performed by the customer. Inspection report and release for shipment document is issued and mutually signed.

Project

The preparations with respect to export, packaging and shipment are performed as specified in the agreement, submitted to the customer and the customer's approval is received.

Sales support

Spare parts list in accordance with the requirements of the end user is offered, price proposal is submitted. After shipment, the as built documents folder is drawn up and submitted to the customer.

Project

The documentation includes the hydraulic schematics, bill of materials, assembly drawings, manuals, product datasheets, test reports, certificates, electrical wiring diagrams and photograph files.

Project, Design and Quality

Hydraulic piping, pickling and flushing applications are carried out on-site in line with the customer's request.

Hydraulic technicians

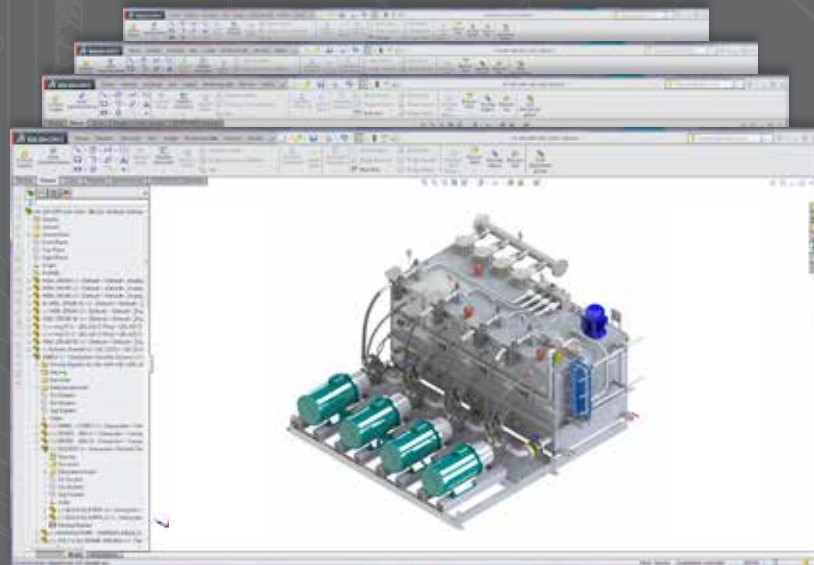
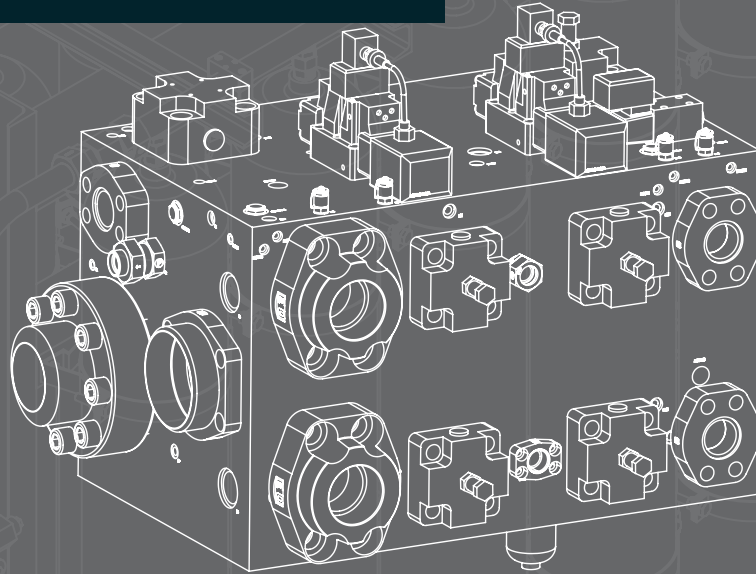
System controls and commissioning is performed.

Hydraulic technicians
Service team

Basic training is provided for the technical maintenance personnel.

Hydraulic technicians
Service team

Design

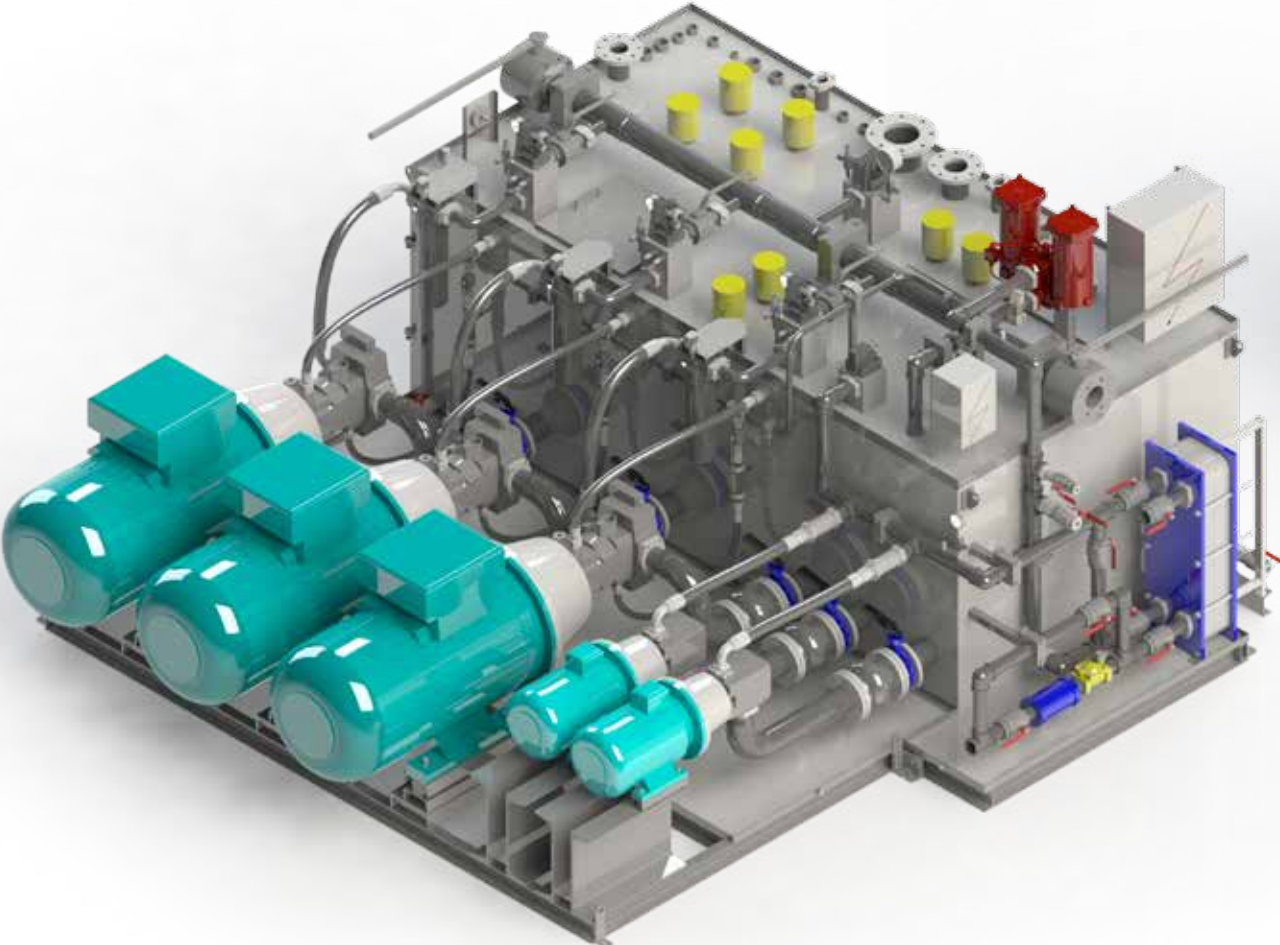


Design of hydraulic power units, manifolds and cylinders are being accomplished by our competent team utilizing SolidWorks, 3D solid modeling software.

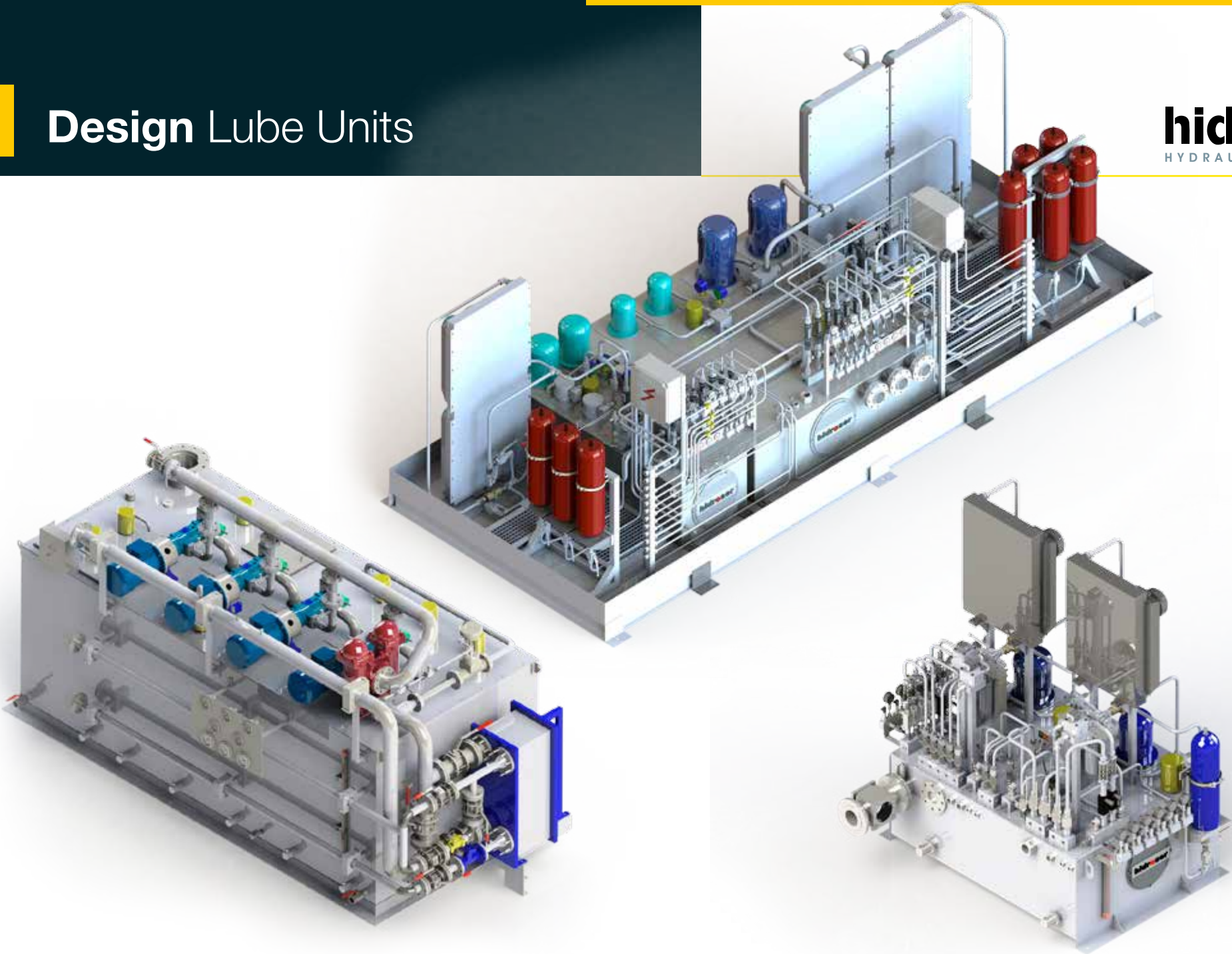
CAD/CAM engineering and CNC integrated equipments are integral parts of hydraulic manifold design.



Design HPU

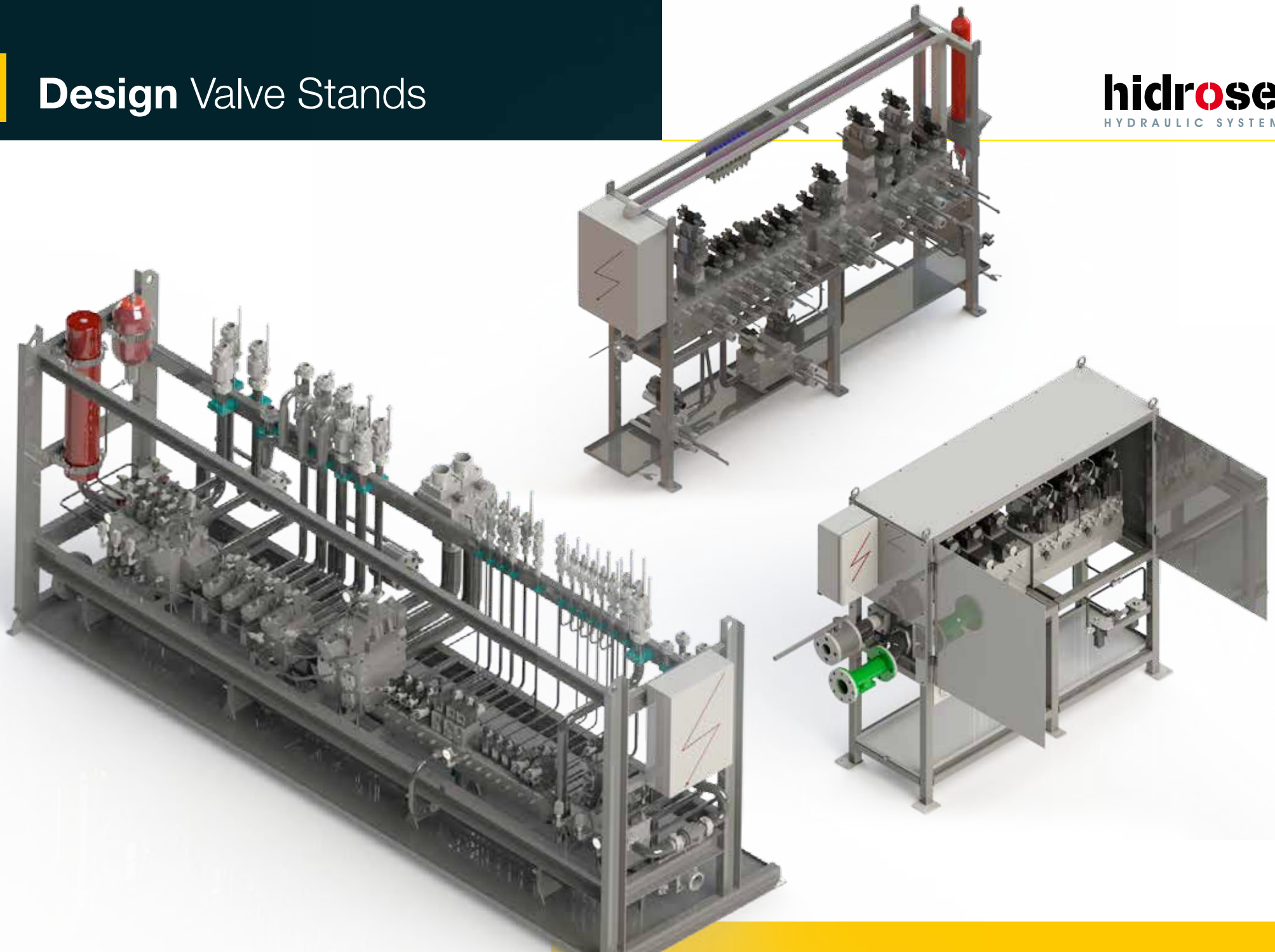


Design Lube Units



Design Valve Stands

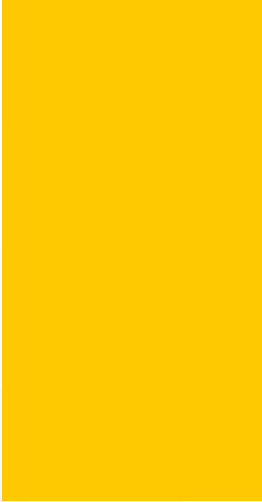
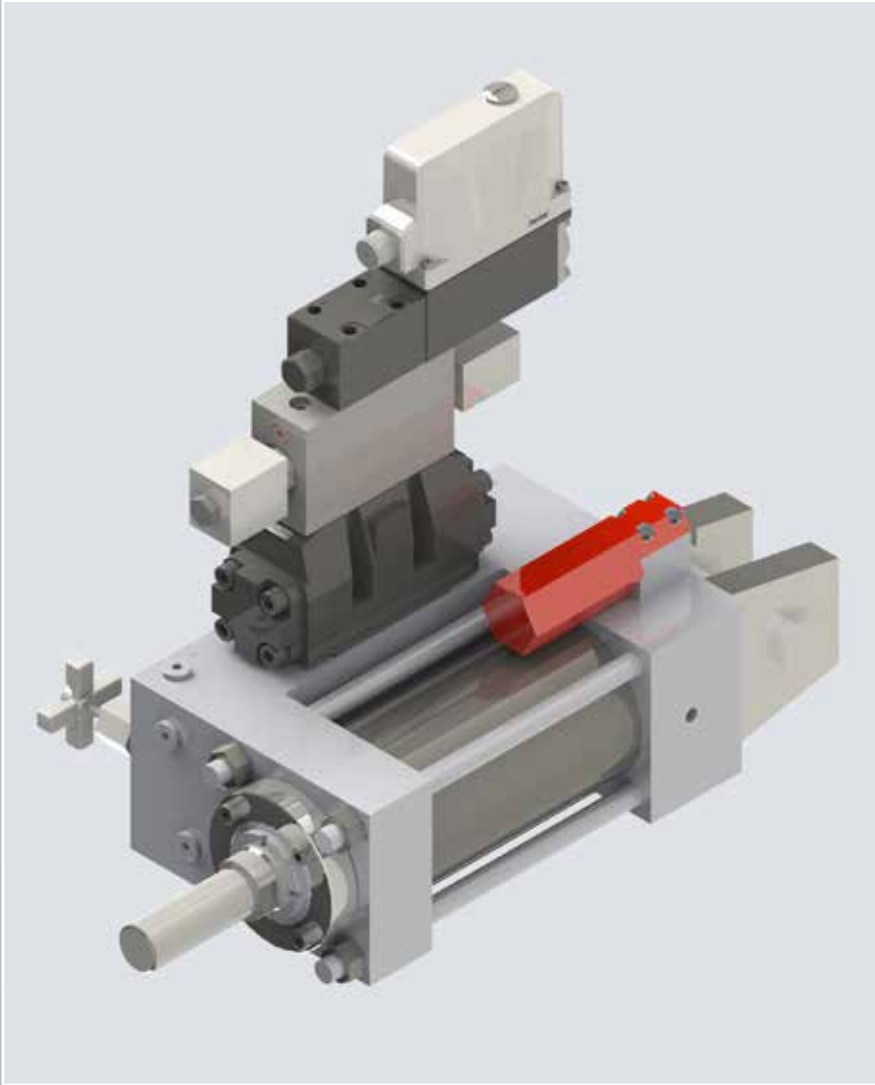
hidroser
HYDRAULIC SYSTEMS



Design Accumulator Stations



Design Hydraulic Cylinders



Manufacturing Plant / Çorlu

hidroser
HYDRAULIC SYSTEMS



6.000 m²
closed area

- Design center
- Warehouse
- Machining area
- Welding shop
- Assembly area
- Painting shop
- Test area



Serving customers in every phase starting from **engineering** to **commissioning**.

Operations	In house / On-site
CNC machining	In house
Welding	In house
Painting	In house
Assembly	In house
Test	In house
Installation / Piping	On-site
Pickling and Flushing	On-site
Start-up	On-site
After sales services	On-site





References

Applications
List of references



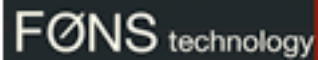
Technology Expertise

Hidroser is providing precision-engineered solutions for industrial markets and partnering customers to improve their productivity and profitability.

Applications

- **Continous Casting Lines**
- **EAF and LF**
- **Hot and Cold Rolling Mills**
- **Walking Beam Furnaces**
- **Galvanizing and Pickling Lines**
- **Cut to Length Lines**
- **Tube Bending Machines**
- **Aluminum Extrusion Presses**
- **Scrap Presses**
- **Die Casting Machines**
- **Deep Drawing Presses**
- **Power Generation**
- **Hydro Electric Power Plants**
- **Geothermal Power Plants**

References International



References Domestic



Steel Plants Cont. Casting Lines

Scope

- HPU, manifolds
- Hydraulic cylinders
- Piping, flushing
- Start-up, documentation
- Domestic and international reference projects completed



Steel Plants WBF + Rolling Mills

hidroser
HYDRAULIC SYSTEMS

Scope

- HPU, manifolds
- Hydraulic cylinders
- Piping, flushing
- Start-up, documentation
- Domestic and international reference projects completed



Scope

- HPU's
- Manifolds
- Hydraulic cylinders
- Piping
- Flushing
- Start-up
- Documentation
- Local manufacturer certification
- 150 reference projects completed



HEP Plants

Turbine Control Governor Systems

Scope

- HPU, manifolds
- Hydraulic cylinders
- Piping, flushing
- Start-up, documentation
- Local manufacturer certification



Geothermal Power Plants

Turbine Lubrication Systems

hidroser
HYDRAULIC SYSTEMS

Turbine ve Generator Lube Units

- **ATEX protection class**
(products, JBs, cabling)
- **Local manufacturer certification**
- **Several completed projects**



Marine

Fishing & Offshore Vessels

Scope

- HPU, manifolds,
- Hydraulic cylinders
- Piping (Parker EO2 FORM & F37),
- Flushing
- Start-up, documentation



Cement

Clinker Cooling Units

Scope

- HPU, manifolds,
- Hydraulic cylinders
- Piping (Parker EO2 FORM & F37),
- Flushing
- Start-up, documentation



Aluminium

Casting & Tension Leveller Lines

Scope

- HPU, manifolds
- Hydraulic cylinders
- Piping (Parker EO2 FORM & F37)
- Flushing, start-up, documentation



Reference List

YEAR	CUSTOMER	LAST USER / PROJECT	COUNTRY	PROJECT DETAIL
2019	ATLAS COPCO ENERGAS	ÖZMEN III	TURKEY	GEOHERMAL TURBINE LUBE UNIT
2018	TOSÇELİK	TOSÇELİK	TURKEY	EAF HYDRAULIC SYSTEMS
2018	AYMAK	ÇAĞ ÇELİK	TURKEY	HOT ROLLING MILL HYDRAULIC SYSTEMS
2018	SARIGÖZOĞLU	SARIGÖZOĞLU	TURKEY	5000T DEEP DRAWING PRESS HYDRAULIC SYSTEM
2017	ATLAS COPCO ENERGAS	LIMGAZ	TURKEY	GEOHERMAL TURBINE LUBE UNIT
2016	ATLAS COPCO ENERGAS	ATLAS COPCO ENERGAS	TURKEY	GEOHERMAL TURBINE LUBE UNIT
2016	İSDEMİR	İSDEMİR	TURKEY	COKE PRODUCTION LINE
2016	EXERGY	EXERGY	TURKEY	GEOHERMAL TURBINE LUBE UNIT
2015	İSDEMİR	İSDEMİR	TURKEY	HOPPER GATES HYDRAULIC SYSTEMS
2015	PRIMETALS	HYUNDAI STEEL	KOREA	LARGE BAR MILL HYDRAULIC SYSTEMS
2015	PRIMETALS	THAI STEEL	THAILAND	HOT ROLLING MILL HYDRAULIC SYSTEMS
2015	SABA STEEL	SABA STEEL	IRAN	PDC / DRI HYDRAULIC SYSTEMS
2015	SMS CONCAST	HYUNDAI STEEL	KOREA	EAF + LF HYDRAULIC SYSTEMS
2015	YAZICI DEMİR ÇELİK	YAZICI DEMİR ÇELİK	TURKEY	LF HYDRAULIC SYSTEM
2014	CVS	TOSÇELİK	TURKEY	EAF HYDRAULIC SYSTEMS

Reference List

YEAR	CUSTOMER	LAST USER / PROJECT	COUNTRY	PROJECT DETAIL
2014	CVS	KOÇÇELİK	TURKEY	EAF 100T/H HYDRAULIC SYSTEMS
2013	TENOVA	KHORASAN	IRAN	EAF 110T/H + LF 110T/H HYDRAULIC SYSTEMS
2013	CVS	CETINSAN	IRAQ	CONTINUOUS CASTING MAC. HYD. SYSTEMS
2013	CVS	NDGC	OMAN	HOT ROLLING MILL HYDRAULIC SYSTEMS
2012	CVS	FF STEEL	IRAK	HOT ROLLING MILL HYDRAULIC SYSTEMS
2012	SIEMENS	IDC	TURKEY	HOT ROLLING MILL HYDRAULIC SYSTEMS
2012	SIEMENS	GERDAU	BRASIL	HOT ROLLING MILL HYDRAULIC SYSTEMS
2012	SIEMENS	EVRAZ	RUSSIA	HOT ROLLING MILL HYDRAULIC SYSTEMS
2012	SMS CONCAST	KARDEMİR	TURKEY	CONTINUOUS CASTING MACH. HYD. SYSTEMS
2012	VIG MAKINA	EUROMETAL	POLAND	HOT ROLLING MILL HYDRAULIC SYSTEMS
2012	FATA SPA.	WEIQIAO	CHINA	COIL COATING LINE HYDRAULIC SYSTEMS
2011	FATA SPA.	WANJI	CHINA	TENSION LEVELER HYDRAULIC SYSTEMS
2011	KUENKEL WAGNER	MES DOKUM	TURKEY	MOULDING MACHINE HYDRAULIC SYSTEMS
2011	FATA SPA.	NANSHAN	CHINA	TENSION LEVELER HYDRAULIC SYSTEMS
2010	CANSAN	KOC CELİK	TURKEY	EAF 70T/H HYDRAULIC SYSTEMS

Reference List

YEAR	CUSTOMER	LAST USER / PROJECT	COUNTRY	PROJECT DETAIL
2010	VIG MAKINA	VIG MAKINA	TURKEY	AL. COLD MILL HYDRAULIC SYSTEMS
2010	VIG MAKINA	VIG MAKINA	TURKEY	AL. CONT. CASTING LINE HYDRAULIC SYSTEMS
2009	FATA SPA.	JNMC	CHINA	TENSION LEVELER HYDRAULIC SYSTEMS
2009	RTI MUHENDISLIK		IRAN	WALKING BEAM FURNACE 90T/H HYD. SYSTEMS
2008	CEBITAS	CEBITAS	TURKEY	WALKING BEAM FURNACE 120T/H HYD.SYSTEMS
2008	EGE CELIK	EGE CELIK	TURKEY	WALKING BEAM FURNACE 120T/H HYD. SYSTEMS
2008	SIEMENS	MUKALLA	YEMEN	HOT ROLLING MILL HYDRAULIC SYSTEMS
2008	SIEMENS	HABAS DEMIR CELIK	TURKEY	HOT ROLLING MILL HYDRAULIC SYSTEMS
2008	SIEMENS	IZHSTAL	RUSSIA	HOT ROLLING MILL HYDRAULIC SYSTEMS
2008	FATA SPA.	TEKNIK ALU	TURKEY	AL. CASTING LINE + TENSION LEVELER
2007	FATA SPA.	MMK	RUSSIA	COIL COATING LINE HYDRAULIC SYSTEMS
2007	HABAS	HABAS DEMIR CELIK	TURKEY	WALKING BEAM FURNACE 120T/H HYD. SYSTEMS
2006	TURKISH AIRLINES	TURKISH AIRLINES	TURKEY	TAIL DOCK REPAIR PLATFORM FOR BOEING 737
2006	GAZI METAL	GAZI METAL	TURKEY	CUT TO LENGHT LINE HYDRAULIC SYSTEMS
2006	TATMETAL	TATMETAL	TURKEY	PICKLING LINE FOR COLD MILL

Reference List

YEAR	CUSTOMER	LAST USER / PROJECT	COUNTRY	PROJECT DETAIL
2006	YILDIZ KALIP	YILDIZ KALIP	TURKEY	2250T DEEP DRAWING PRESS ACC. UVV
2006	MERCEDES BENZ TURK	MERCEDES BENZ TURK	TURKEY	TORSION TEST SYSTEM FOR TRUCKS
2006	RAK STEEL CO.	RAK STEEL CO.	DUBAI	HOT ROLLING MILL HYDRAULIC SYSTEMS
2006	NURSAN	NURSAN	TURKEY	WALKING BEAM FURNACE 120T/H HYD.SYSTEMS
2006	MNS	AL ITTEFAG STEEL CO.	S.ARABIA	HOT ROLLING MILL HYDRAULIC SYSTEMS
2006	PROSES METAL	PROSES METAL	TURKEY	SKIN PASS LINE HYDRAULIC SYSTEMS
2006	OZTURKLER METAL	OZTURKLER METAL	TURKEY	2000T BRASS EXTRUSION PRESS
2005	KAPTAN DEMIR CELIK	KAPTAN DEMIR CELIK	TURKEY	WALKING BEAM FURNACE 120T/H HYD.SYSTEMS
2005	ERDEMIR	ERDEMIR	TURKEY	FLAT HOT ROLLING MILL MODERNISATION PLANT:1
2003	ERDEMIR	ERDEMIR	TURKEY	FLAT HOT ROLLING MILL MODERNISATION PLANT:2
2003	ISDEMIR	ISDEMIR	TURKEY	FLAT HOT ROLLING MILL MODERNISATION PLANT:2
2002	IZMIR DEMIR CELIK	IZMIR DEMIR CELIK	TURKEY	HOT ROLLING MILL HYDRAULIC SYSTEMS
2002	MEGA CELIK	MEGA CELIK	TURKEY	GALVANIZING LINE HYDRAULIC SYSTEMS
2001	DILER DEMIR CELIK	DILER DEMIR CELIK	TURKEY	CONTINUOUS CASTING LINE H8 UNIT
2000	BORUSAN	BORUSAN	TURKEY	TUBE CALIBRATION PRESS HYDRAULIC SYSTEMS



**UNIQUE SUPPLIER OF COMPLETE
HYDRAULIC SYSTEM SOLUTIONS**

Hidroser Hidrolik-Pnömatik Ekipmanları San. ve Tic. A.Ş.

Oruçreis Mah. Tekstilkent cad. Tekstilkent Sit. Koza Plaza B Blok Kat:21 No:12a/211 İç
Kapı No:76-77 Esenler / İSTANBUL Tel: 0212 886 7270

Hidroser Çorlu Fabrika: Velimeşe OSB Mh. 6. Yanyol Cd. 46/22
Ergene / Tekirdağ Tel: 0282 676 4922

hidroser
HYDRAULIC SYSTEMS