

Soydan

FLUID POWER TECHNOLOGIES

Product & Services Catalogue

Your Single Solution Centre for
Hydraulics · Pneumatics · Industrial Automation

5,000 m²

Facility

12,000+

Cylinders / year

400+

HPUs / year

44

Professionals

18

Engineers

Head Office & Factory: AOSB, Izmir, Turkey | Branch Office: Buyaka Kule 2, Istanbul, Turkey
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COMPANY OVERVIEW

Soydan Hidrolik Pnömatik Otomasyon Teknolojileri A.Ş. is a leading Turkish engineering company delivering end-to-end hydraulic, pneumatic and industrial automation solutions. Founded and led by Ertan Soydan — with 40 years of industry experience — the company combines project engineering know-how, a strong global supply base, and vertically integrated manufacturing capabilities.

Headquarters	Atatürk Organized Industrial Zone (AOSB), Izmir, Turkey
Branch Office	Buyaka Kule 2, Ümraniye, Istanbul, Turkey
Facility	5,000 m ² total (3,000 m ² covered production area)
Workforce	44 professionals: 24 white-collar (including 16 engineers), 20 blue-collar production staff
Annual Capacity	~12,000 tailor-made hydraulic cylinders and ~400 hydraulic power units per year
Quality Certifications	ISO 3834-2 (Welding), ISO 9001, ISO 14001, ISO 45001
Expansion	New factory at Aliğa Organized Industrial Zone (6,000 m ² covered) — Investment Incentive approved
Logistics	Direct road and RoRo sea connections from Izmir to Western Europe; weekly exports to Germany, Netherlands, Switzerland

Core Competencies: Project engineering & design · Hydraulic power unit manufacturing · Hydraulic cylinder manufacturing (Hydrocyl brand) · Manifold/block design & manufacturing · Hydraulic hose assembly · Assembling & piping · Pickling & flushing · PLC/SCADA automation · Full commissioning services

PARTNERS & BRANDS

Soydan Fluid Power Technologies partners with the world's leading hydraulic, pneumatic and automation manufacturers, providing customers access to an extensive range of high-quality components backed by local engineering expertise and rapid delivery.

Brand	Product Group	Origin
BOSCH REXROTH	Hydraulic Valves, Pumps, Motors	Germany
PARKER	Hydraulic Valves, Pumps, Motors, Filters	USA
SUN HYDRAULICS	Cartridge Valves	USA
WESSEL HYDRAULIK	Load Holding & Application-Specific Valves	Germany
MOOG	Servo & Proportional Valves, Electronics	USA
VICKERS (DANFOSS)	Hydraulic Valves, Pumps, Motors	UK
ATOS	Hydraulic Valves	Italy
ARGO HYTOS	Hydraulic Valves	Czech Republic
KAWASAKI	Hydraulic Pumps	Japan
DANFOSS	Mobile Valves, Joysticks, PVG Systems	Denmark
AKON	Mobile Valves, Joysticks	Turkey
HYDRO LEDUC	Piston Pumps & Motors	France
CBF HYDRAULIC	Cartridge Valves, Cylinders, Blocks	Italy
SAI	Radial Piston Motors	Italy
BREVINI / DANA	Gear Pumps, Motors, Gearboxes	Italy
VIVOLO	Gear Pumps, Flow Dividers	Italy
HYDAC	Accumulators, Filters	Germany
STAUFF	Filters, Tank Accessories	Germany
GATES	Hydraulic Hoses, Fittings	USA
EMMEGI	Oil & Air Coolers	Italy
DROPSA	Lubrication Systems	Italy
SETTIMA	Low-Noise Screw Pumps	Italy
FESTO	Pneumatic Products & Automation	Germany
PEMAKS	Pneumatic Cylinders	Turkey
AIRCOMP	Pneumatic Valves, FRL Units	Italy
TORK / DURAVIS	Solenoid Valves, Actuators	Turkey
FER-RO	Hydraulic Fittings	Turkey
REKORSAN	Hose Fittings & Connectors	Turkey
PH	Stainless Steel Fittings, Valves, Pipes	Turkey
CASAPPA	Hydraulic Pumps, Motors	Italy
BUCHER HYDRAULICS	Hydraulic Valves, Powerpacks	Switzerland

HYDRAULIC PUMPS, MOTORS, VALVES & FILTERS



PARKER and **BOSCH REXROTH** product groups — including directional control valves, variable displacement pumps, hydraulic motors, accumulators and high-pressure filtration — deliver stable, efficient flow control under the most demanding operating pressures. As authorised partners of both brands, Soydan provides the full range of components with local stock availability and expert application support.

Product Range

- ▶ **Hydraulic Pumps & Motors**
- ▶ **Hydraulic Directional, Proportional & Servo Valves**
- ▶ **Hydraulic Filters & Accumulators**
- ▶ **Hydraulic Cylinders**



HYDRAULIC CARTRIDGE VALVES & MANIFOLD BLOCKS



SUN HYDRAULICS cartridge valves function as integrated precision components within hydraulic power systems, delivering reliable and accurate hydraulic control of force, speed and motion. Combined with Soydan's in-house manifold design and manufacturing capability, these valves enable compact, leak-free and highly efficient hydraulic circuit solutions.

Product Range

- ▶ **Hydraulic Cartridge Valves**
- ▶ **Custom Manifold Blocks**
- ▶ **Pressure Relief & Check Valves**
- ▶ **Hydraulic Proportional Valves**



LOAD HOLDING & FLOW CONTROL VALVES



WESSEL HYDRAULIK valves, with their compact design, provide precise pressure, directional and flow control in hydraulic systems — with zero leakage and vibration-free operation. As the exclusive distributor of Wessel Hydraulik in Turkey, Soydan serves a customer portfolio of leading mobile machinery manufacturers spanning earth-moving equipment, truck-mounted concrete pumps and lifting platforms.

Product Range

- ▶ **Hydraulic Load Holding Valves**
- ▶ **Pressure Control Valves**
- ▶ **Flow Control Valves**



MOBILE VALVES & JOYSTICKS



AKON and **DANFOSS** mobile valve groups feature compact design, precise control and robust construction for efficient flow management in construction machinery, agricultural equipment and material handling systems. Their modular architecture enables flexible adaptation to a wide range of system requirements, including proportional control handles, PVG valve systems and joystick solutions.

Product Range

- ▶ **Monoblock & Sectional Control Valves**
- ▶ **Proportional Control Handles**

- ▶ Joystick Variants
- ▶ PVG Proportional Valve Systems



PISTON PUMPS & HYDRAULIC MOTORS



HYDRO LEDUC combines reliability and performance in industrial and mobile power transmission. With high pressure resistance and a compact form factor, their axial piston pumps and hydraulic motors deliver efficient, long-lasting solutions for demanding applications across construction, marine and industrial sectors.

Product Range

- ▶ Variable Displacement & Piston Pumps
- ▶ Hydraulic Motors
- ▶ Hydraulic Accumulators



HYDRAULIC FITTINGS, VALVES & CYLINDERS



CBF HYDRAULIC and **FER-RO** products provide reliable hydraulic solutions for industrial applications, agricultural machinery and mobile equipment. Their compact construction ensures long service life and efficient operation even under challenging conditions, covering quick-release couplings, in-line check valves, ball valves, load-holding valves and high-pressure hydraulic cylinders.

Product Range

- ▶ Hydraulic & Pneumatic Quick-Release Couplings
- ▶ In-Line Check, Flow Control & Ball Valves
- ▶ Load Holding & Locking Valves
- ▶ Custom Manifold Blocks
- ▶ High-Pressure Hydraulic Cylinders



LUBRICATION SYSTEMS & SCREW PUMPS



DROPSA centralized lubrication systems, dosing elements and progressive distributors enable automatic and precise lubrication across industrial machinery, extending equipment life and reducing maintenance costs. **SETTIMA** produces low-noise, high-flow, vibration-free three-screw hydraulic pumps, delivering superior efficiency in applications requiring precise flow characteristics.

Product Range

- ▶ Lubrication Pumps & Systems
- ▶ Fittings & Connection Equipment
- ▶ Progressive Dosing Units
- ▶ Low-Noise Screw Pumps



SERVO & PROPORTIONAL CONTROL VALVES



MOOG servo and proportional control technologies, combined with electronic drives, deliver precision motion control and repeatability for the most demanding manufacturing applications. **VICKERS**, **ATOS** and **ARGO HYTOS** directional control valves and cartridge solutions provide stable flow management under high pressure, optimizing system dynamics across CNC machinery, rolling mills and robotic applications.

Product Range

- ▶ **Modular & Cartridge Valves**
- ▶ **Servo & Proportional Valves**
- ▶ **Electronic Drives & Controllers**
- ▶ **Hydraulic Pumps**



HEAVY DUTY PUMPS & MOTORS



SAI and **KAWASAKI** hydraulic pump and motor groups operate across wide pressure and displacement ranges, delivering powerful and stable performance in both industrial and mobile applications. Product range includes gear tandem pumps, radial piston motors, high-torque planetary gear motors, axial piston pumps and closed-circuit travel motors.

Product Range

- ▶ Gear Tandem Pumps
- ▶ Radial Piston Motors
- ▶ High-Torque & Planetary Gear Motors
- ▶ Axial Piston & Closed-Circuit Pumps
- ▶ Travel Motors



GEAR PUMPS & ORBIT MOTORS



BREVINI (DANA), **WHITE**, **VIVOLO** and associated brands offer gear-type and orbit motor technology delivering compact construction and high power density for mobile, industrial and agricultural applications. Product range includes aluminium and cast-iron gear pumps, orbit motors, and gear-type flow dividers.

Product Range

- ▶ Hydraulic Gear Pumps & Motors
- ▶ Orbit Motors
- ▶ Gear-Type Flow Dividers



COOLERS & HYDRAULIC HOSES



EMMEGI coolers feature high-efficiency heat exchanger construction that maintains optimal fluid temperature with compact footprint and low pressure drop. **GATES** hydraulic hoses, with their multi-layer reinforced construction and high-pressure rating, ensure safe and reliable fluid transfer even in the most demanding working environments, including fire-resistant applications.

Product Range

- ▶ Air & Water-Cooled Heat Exchangers
- ▶ Standard Hydraulic Hoses
- ▶ Fire-Resistant Hydraulic Hoses
- ▶ Hose Assemblies & Fittings

FILTRATION SOLUTIONS



HYDAC and **STAUFF** filtration solutions enhance system performance while extending equipment life. High-efficiency air and oil coolers ensure optimal temperature control, while advanced filter elements guarantee hydraulic fluid cleanliness to the highest industry standards. Product range covers suction, return and pressure-line filters, level indicators and complete tank accessories.

Product Range

- ▶ Suction, Return & Pressure-Line Filters
- ▶ Level Indicators & Tank Caps
- ▶ Hydraulic Tank Accessories
- ▶ Filter Elements & Housings

FITTINGS, CONNECTORS & STAINLESS STEEL PRODUCTS



REKORSAN offers a comprehensive range of hydraulic hose fittings and connection elements ensuring leak-free, long-lasting joints. **PH** stainless steel products provide outstanding corrosion resistance, preferred across marine, food & beverage, chemical and agricultural sectors for their hygienic and durable construction.

Product Range

- ▶ **Hose & Pipe Fittings**
- ▶ **Stainless Steel Ball Valves**
- ▶ **Stainless Steel Pipes & Connectors**
- ▶ **Plastic & Heavy-Duty Pipe Clamps**



CHROME BARS, HONED TUBES & INSTALLATION PIPES



Hydraulic rods, H8 honed tubes and installation pipes — with precise dimensional tolerances and smooth surface finishes — ensure trouble-free operation across industrial, mobile and agricultural machinery. Available in a wide range of diameters and specifications, these materials are sourced from leading European manufacturers including **URANIE**, **NIMET** and **BENTELER**.

Product Range

- ▶ **Induction-Hardened & Chrome-Plated Rods**
- ▶ **Chrome Rod Stock**
- ▶ **H8 Honed Tubes & H9 Cold-Drawn Tubes**
- ▶ **Phosphated, Galvanized & Stainless Installation Pipes**



PNEUMATICS & AUTOMATION

FESTO

Pemaks
Pnömatik

AIRCOMP
STAMPOTECNICA

FESTO, AIRCOMP STAMPOTECNICA and **PEMAKS** deliver world-class solutions in industrial automation and pneumatics. From production lines to machine automation, these brands provide maximum performance and sustainable efficiency. Soydan is an official Festo distributor with deep engineering expertise in pneumatic system design and implementation.

Product Range

- ▶ **Pneumatic Air Control Valves**
- ▶ **Air Preparation Units (FRL)**
- ▶ **Pneumatic Cylinders**
- ▶ **Valve Terminals**
- ▶ **Pneumatic Fittings & Tubing**



INDUSTRIAL VALVES & ACTUATORS

tork

DURAVIS
VALVE AUTOMATION

TORK and **DURAVIS** offer reliable and innovative solutions in industrial flow control, serving diverse sectors with high-performance valve and automation systems including solenoid valves, pneumatic and electric actuators, butterfly valves and ball valves.

Product Range

- ▶ **Solenoid & Pilot-Operated Valves**

- ▶ **Pneumatic & Electric Actuators**
- ▶ **Butterfly & Ball Valves**
- ▶ **Valve Accessories**

HYDRAULIC POWER UNIT MANUFACTURING

Soydan Fluid Power Technologies designs and manufactures project-specific hydraulic power units (HPU), combining in-house engineering, quality production and comprehensive testing to deliver turnkey hydraulic solutions. With strong expertise in the iron & steel industry, the company designs complete hydraulic systems and piping layouts for new steel mill and rolling mill investments, serving a global customer portfolio from end users to plant suppliers.

Production Capabilities

- ▶ All design by in-house engineers with hydraulic circuit diagrams and 3D CAD drawings
- ▶ All welding, assembling, painting and marking processes performed in-house
- ▶ Manifold design in-house; manufacturing both in-house and outsourced
- ▶ Hydraulic tubes from European manufacturers, shaped in-house
- ▶ Hydraulic hoses from European/American manufacturers, fitting assembly in-house
- ▶ Main components: Bosch Rexroth, Parker, Eaton, Bucher (per customer preference)
- ▶ Customer specifications followed and checked at each manufacturing stage
- ▶ Welds checked with NDT methods; final products 100% tested

Quality Control System

Stage	Key Controls
1. Incoming Materials	Visual inspection, dimension check, supplier Certificate of Conformity, function tests
2. Fabrication & Assembly	Weld integrity (NDT), leak test, surface finish, alignment, torque verification, cleanliness test
3. Pressure & Function Testing	Leak test at working and 1.5x overpressure, operational sequence simulation, relief valve verification, noise/vibration check
4. Final Inspection	Labelling, oil level check, shipping protection, visual checklist, sign-off by QC inspector

HYDRAULIC CYLINDER MANUFACTURING — HYDROCYL



Hydrocyl, a brand from Soydan Fluid Power Technologies, combines quality and customer-oriented production in hydraulic cylinder manufacturing. With all machining, welding, assembly and testing performed in-house, Hydrocyl delivers single-acting, double-acting and customised special cylinders — for applications up to 4 metres stroke and 400mm diameter — across iron & steel, machinery, mining, mobile hydraulics, marine and hydraulic press sectors.

Production Standards & Raw Materials

Component	Specification
Tubes	Cold-drawn seamless, European origin, ISO-H8 tolerance, E355+SR steel, honed to max 0.40 µm Ra. Chrome plating available.
Rods	Hard chrome plated, European origin, ISO-f7 tolerance, C45E steel (EN 10083). Induction hardened, 20MnV6, 42CrMo4 available.
Seals	Exclusively Kastas or European seal brands. Industry-specific sealing solutions. Kastas Europe GmbH logistics centre.
Steel Parts	Front/rear covers, bushes, joints from 1st grade cold-drawn vacuumed steel, Ck45 (DIN 17200). Various grades per application.

Key Advantages

Good lead times:

- ▶ Strong honed tube & chromed bar stocks
- ▶ Separate OEM standard and custom production lines
- ▶ Versatile computerised & manual machinery

High quality production:

- ▶ European raw materials (Marcegaglia, Cromsteel, Uranie, Nimet)
- ▶ ISO 3834-2 welding standards
- ▶ 100% tested per ISO 10100 and higher

Standard ISO Cylinder Range

Hydrocyl's standard production range covers **ISO 6020/1**, **ISO 6020/2** and **ISO 6022** cylinders. For non-standard requirements, the specialty in designing hydraulic cylinders from scratch and flexibly integrating new designs into the production line ensures short lead times even for fully custom solutions.

Thermal Deburring: Hydrocyl utilises thermal deburring technology — a brief blast of extreme heat up to 3,500°C in a sealed chamber — to completely remove burrs from precision-machined cylinder components.

INDUSTRIAL AUTOMATION

Soydan Fluid Power Technologies serves customers with innovative solutions in industrial automation, working with leading brands including **Siemens, Schneider, ABB** and others. Capabilities span the full automation lifecycle from project design through software programming to commissioning and ongoing support.

Service	Scope
Project Design	Profinet/net-based communication systems, 3D CAD models, optimum brand selection (ABB, Schneider, Siemens, Eaton)
Software & Commissioning	SCADA programming (WINCC/WINCC Flexible), Ladder/SCL/function block programming, post-commissioning training
Panel Manufacturing	Mechanical and electrical design per technical norms
Motion & Control	Single and multi-axis motion solutions
Training & Consulting	PLC programming (TIA Portal S7-1200/1500), WINCC SCADA, industrial communication, Simotion
Machine Overhaul	Conventional-to-PLC conversion, Industry 4.0 upgrades

Brand	Product Group	Origin
SIEMENS	Automation and Control (PLC, HMI)	Germany
SCHNEIDER	Circuit Breaker and Drives, Low Voltage	France
ABB	Circuit Breaker and Drives, Low Voltage	Switzerland
EAE	Electric Panels	Turkey
PRYSMIAN	Cables	Italy
PHOENIX CONTACT	Terminal and Marking	Germany

PICKLING & FLUSHING SERVICES

Soydan Hydraulics has a highly experienced team in pickling and flushing services. Before hydraulic, lubrication, turbine or fuel systems are commissioned, it is essential to clean pipe inner surfaces through pickling (acid cleaning) and flushing (oil filtration) to remove particles resulting from welding, cutting or fabrication processes and protect system components.

Pickling removes rust and corrosive particles from pipelines using chemical treatment. **Flushing** circulates hydraulic oil through the piping system using the looping method — connecting pipes end-to-end — to eject remaining particles and achieve the required cleanliness level.

CUSTOMER REFERENCES

Soydan Fluid Power Technologies serves a diverse portfolio of leading manufacturers and end users across iron & steel, automotive, construction machinery, mobile hydraulics, agriculture, defence and general industry sectors:

- ▶ Hidromek
- ▶ Erdemir
- ▶ İsdemir
- ▶ Beko
- ▶ Fliegl
- ▶ Kannegiesser
- ▶ Asil Çelik
- ▶ Jantsa
- ▶ Kastaş
- ▶ Özkan Demir Çelik
- ▶ Kardemir
- ▶ Mazaka Heavy Industry
- ▶ Akyapak
- ▶ Çolakoğlu Metalurji
- ▶ Kocaer
- ▶ Betonstar
- ▶ Neuson Hydrotec
- ▶ Katmerciler
- ▶ Smart İş Makinaları
- ▶ CMS
- ▶ Krone
- ▶ Wessel Hydraulik
- ▶ CTi Systems (Paul Wurth)
- ▶ Lindenberg Technics
- ▶ STC
- ▶ Asko
- ▶ Maxion Wheels
- ▶ Atakaş
- ▶ ELS Lift
- ▶ Döktaş
- ▶ BMC

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