

SKS Control and SKS Mekaniikka - strong technical knowhow

SKS Control Oy is a specialist in control systems and drives. We serve machine builders and stage technology professionals. High-class products, technical know-how and long experience guarantee reliable deliveries from designto implementation and maintenance.

SKS Mekaniikka is an experienced professional in the machine building industry. Our wide product range covers the needs for power transmission and linear technics solutions as well as mechanical components. Strong technical know-how is a significant part of our service. We cooperate closely with our partners to ensure high-class solutions.

SKS Group offers application expertise and professional experience in close cooperation with our customers. We have long-term and excellent supplier relationships. In addition to supplying top-quality products, SKS Group offers the best services to help customers in all development stages of technical solutions.

SKS Group is part of Axel Johnson International, a global industrial group that acquires and develops companies in strategically selected niche markets, primarily technical components and industrial process solutions. Axel Johnson International comprises 200 companies in 34 countries. Axel Johnson International is part of the Swedish family-owned corporate group Axel Johnson.

SKS Group suppliers

Ammega, Arbor Technology, Bonfiglioli, Bege, Cactus Technologies, Codesys, Columbus McKinnon, Compomac, Crevis, CSB, Danfoss, Delta Electronics, Delta Computer Systems, Diamond Systems, EKD, Elsa Solutions, Elte, Esco, ETP Transmission, Euroconnection, Gates Europe, Gewes, HBE, IMAnalytics, IPL Transmission, Janz Tec, JVL, Keba, KB Electronics, Kipp, Leroy Somer, Lika Electronic, Mavilor Motors, MayTec, Michael Koch, Motor Power Company, Motortronics, Murtfeldt, Nexcom, Nidec Control Techniques, Oemer, Paulstra, Renice Technology, ROSTA, Sati, Sinadrives, Sintrones, Sumitomo Cyclo, Suspa, Stieber, Tandler, TB Woods, Tecnotion, THK, Thomson, Tolomatic, Trenton Systems, Tsubaki, SIR, Vecow, Weintek, Wippermann, Xenarc Technologies

"We are a longterm partner for our customers and suppliers and develop SKS Group constantly. Our skilled staff guarantee that customers receive the best expertise at all stages of the process." Thomas Söderberg, CEO, SKS Mekaniikka Oy

"Close collaboration means providing product and production solutions that better meet customer needs. Our extensive expertise and long experience in the field contribute to the growth of our customers competitiveness."

Jussi Sirpoma, CEO,
SKS Control Oy

Everything great consists of parts

SKS Group experts have fulfilled hundreds of machine building customer projects. Our solid experience, combined with detailed product knowledge, has resulted in first-class, customer-specific solutions. By making the right choices it's possible to lengthen machine life cycles and save energy.

High-quality products, technical expertise, and experience ensure reliable deliveries from design to implementations and scheduled maintenance of equipment.

Our strengths lie in good supplier relationships and understanding customer needs, enabling us to assist in all stages of technical solution development. We implement comprehensive automation and mechanical systems, such as the modernization of machines and production lines, as well as testing equipment.

We continuously develop our product range based on feedback from our customers. By working closely with customers and our suppliers, we can guarantee state-of-the-art, reliable equipment solutions. Our own logistical and warehousing strengths ensure quick deliveries.

Our operations have decades of continuity and development - experience is made through doing, and trust is built on success.

SKS Control Oy SKS Mekaniikka Oy



Our versatile expertise, technical readiness, and extensive partner network ensure a competitive advantage in the implementation of mechanical machine components and stage technology solutions. Customers can benefit the most by concentrating all their mechanical and automation purchases in technically and logistically strong SKS Group.

SKS Group, part of Axel Johnson International, consist of companies SKS Control Oy, SKS Mekaniikka Oy and SKS Tehnika OÜ.
SKS Group's turnover is around € 30,8 M with 100 employees.

Linear motion products

SKS Mekaniikka's suppliers are leading developers of linear motion products. By making the right choices it's possible to lengthen machine life cycles and save energy. The linear motion product group suits applications that require high precision, speed and stability. High-quality products are the pre-requisite for customer success.

Application examples



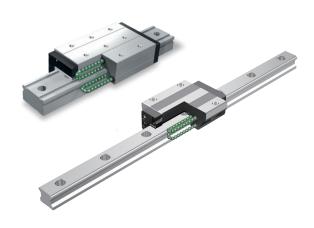
ROBOT WELDING STATION



PACKAGING MACHINE
(KOCH PAC-SYSTEME GMBH)

Linear motion

THK linear guides



Linear units



Maintenace-free linear motion systems



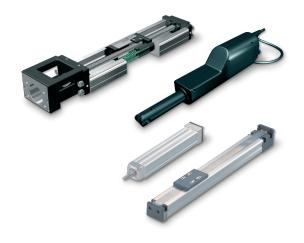
Ball bushings



Slide guides and miniature linear guides



THK linear units



THK, other products



Trapezoidal and ball screws



Linear actuators



Mechanical machine components

We have energy chains for all practical needs. Technically suitable products extend the service life of chains, cables and tubes. Our aluminium profile systems can meet a wide variety of machine building needs, including demanding applications.

Due to our machining and assembly service, we can deliver turnkey packages. We also have a large number of other mechanical machine components to cover the needs of equipment manufacturers.

Application examples



FRAMES FOR HEALTHCARE SECTOR ACCESSORIES



ENERGY CHAINS: TANDEM DRIVE

Dampers

Damping pads and adjustable levellers



Other components

Machine covers



Aluminium profiles



Vibration dampers



Gas springs



Operating parts



Hand wheels



Industrial wheels



Aluminium profile systems



Polymer energy chains



Metal energy chains



Gears and motors

Our full range of closed-loop gears and motors makes it easy to concentrate your purchases. The unique features of high-quality gears and motors ensure machine builders the opportunity to succeed on domestic and international markets.

Our service package includes assembly and the customisation of products.

Application examples



SWING AND TRAVEL DRIVES FOR WIND TURBINES



SWING AND TRAVEL GEARS FOR EXCAVATORS

Gears and gear motors

Swing, bewel and angle gears





Helical bevel gears and gear motors



Induction motors



Precision gears

Helical gears

Worm gears and gear motors







Coaxial gear motors

Industrial gears

Cyclo gear motors







Screw jacks and actuators

Incremental encoders

Automatic lubrication



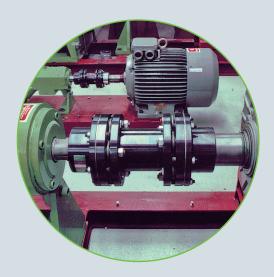




Shaft joints

Our technical experts help customers find the most suitable shaft joint, considering performance, product lifecycle and price. The couplings and shaft joints in our product range are either standard constructions or tailored in line with customer drawings.

Application examples



TORQUE TRANSFER WITH A DISC GEAR COUPLING



THE FREE WHEEL
MANUFACTURING PROCESS

Shaft joints

Flexible couplings



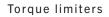
Sure-Flex® ja Dura-Flex®, flexible couplings. electromagnetic couplings and brakes



Universal joint shafts



Disk type couplings, gear couplings, clamp and flange couplings



Precision couplings







Mechanical shaft-hub clamping bushes



ETP, hydraulic and stainless steel clamping bushes



Free wheel couplings



Magnets

Magnets



Chain drives

SKS Mekaniikka's extensive range of chains provides economical solutions for each and every application. Whether you require long lifecycles, freedom from maintenance, maximum power handling capacity, or the ability to operate in demanding environments, the special components of our reliable suppliers will cover for your needs.

Application examples



POWER TRANSMISSION CHAIN DRIVES FOR CONVEYORS



MOTOR BASES

Chain drives

Power transmission chains



Special chains



Sliding guides



Leaf chains



Maintenance-free chains



Chains for demanding environments



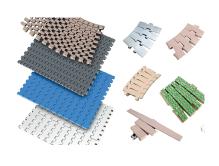
Sprockets



Sprockets, racks and tapered wheels



Plate chains, modular belts and conveyor components



Chain and belt tensioners



ROSTA chain and belt tensioner devices



Belt drives

SKS Mekaniikka's belt product group represents leading expertise. The products of our suppliers, Gates and Megadyne, combine quality and reliability. The Gates belts — Predator, PowerGrip GT4 and Poly Chain GT Carbon — transmit power efficiently and suit applications requiring great durability and wear-resistance.

Application examples



PU SYNCHRONOUS BELT DRIVES



V BELT DRIVES FOR SAWMILL MACHINERY

V belt drives

V belt and flat belt drives, conical sleeves



Synchronous belt drives

POWERGRIP® GT4, synchronous belt drives



HTD® synchronous belt drives



INDUSTRIAL V BELTS-Quad-Power® 4

- Super HC®
- Hi-Power®
- Delta Classic™
- Delta Narrow™



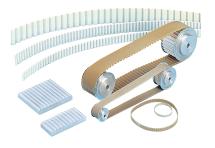
MICRO-V BELT DRIVES



PREDATOR®
V belts for extreme applications



PU synchronous belt drives



POLY CHAIN® GT CARBON™ VOLT™ drives



Classical synchronous belt drives



Other products

Laser alignment device for belt drives



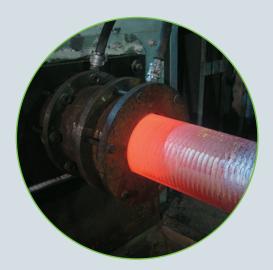
SONIC TENSION, tension meter



Bearings and slew rings

SKS Mekaniikka's bearings group includes various slide bearings, plain bearings and slew ring bearings. We stock thin-walled, metal-based and polymeric slidebearing solutions, as well as bearings cut to size from different materials. The range of slewing ring bearings consists of rings equipped with external and internal teeth or without teeth. The most common types of material used for the ring are CK50, 42CrMo and polymer blends.

Application examples



THE PROCESS OF CASTING BRONZE TUBES



SLEWING BEARINGS FOR LIFTING APPLICATIONS

Bearings



Polymeric bearings

Polymeric bearings



Parts according to customer drawings

Hardened bushings



Graphite bronze bearings



Bearings cut to size



Slewing ring bearings

Slewing ring bearings



Maintenance-free slewing ring bearings



Machine parts



Electric drives

SKS Control's extensive know-how combined to globally known suppliers constitutes a strong competitive advantage for the customer.

Application examples



WRAPPING MACHINES Customer: Haloila Oy



SMART PEEL -VENEER LATHES Customer: Raute Oyj

Drives and servo drives

IC-SERIE
Drives for the process industry



VLT® REFRIGERATION FC 103 drives



VACON® 100 Industrial drives



VLT® -serie VLT® Automation FC 302 drives

VLT® AQUA FC 202 drives

VLT® HVAC FC 102 drive







VACON® 100 X-drives

VACON® 100 FLOW drives

VACON® NXP drives







VARIABLE FREQUENCY DRIVES IP65

CFP2000 IP55 drives for pump and blower applications





Accessories Linear technics

Our range of electrical appliances includes servo drives, DC drives and frequency converters with various protection class requirements, along with accessories.

Application examples



VENEER HANDLING MACHINERY Customer: Plytec Oy



MANUFACTURING SOLUTIONS Customer: Ginolis Oy (Tecnotion linear motors)

Braking energy recovery and reserve supply

DES and DEVI Brake resistors



Encoders

Encoders and position measuring systems



Linear technics

Linear motors





Accessories

BR-Brake resistors and EMC-filters



Power resistors



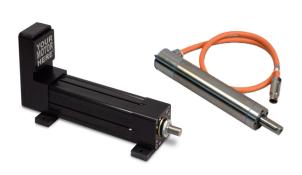
SI Option cards



CABLES
Custom made servo cables



Linear actuators



Linear servo motor units



Motors

SKS Control's product range represents the latest technology, which allows significant increase in energy efficiency. Electric-mechanical actuators and high-efficiency permanent magnet motors can replace low-efficiency in relation to pneumatic and hydraulic solutions.

Application examples



TEST DEVICE FOR ELECTRIC MOTORS Customer: South-Eastern Finland University of Applied Sciences



RAIL DRILLING MACHINE Customer: Vossloh Rail Services Finland Oy

Motors

Permanent-magnet motors and permanent magnet reluctance motors



Servomotors



IEC induction motors
Brake induction motors





Permanent-magnet motors

Torque motors







Asynchronous servomotors and Synchronous servomotors

Asynchronous servomotors

Integrated stepper motors







AC motors

Saw motors and high speed precision spindles

AC generators







Automation and motion control

CODESYS programmable logic controllers, industrial PCs, and fieldbus I/Os combined with next-generation motion controllers provide the opportunity for open-architecture control systems. These systems combine the scalability of programming and controls with cost-effectiveness. Additionally, the best solutions for machine control can be selected from our global suppliers' products.

Application examples



PLAST CLEANING ROBOTS Customer: Blastman Robotics Oy (Keba Mobile operating devices)



T-DRILL S-54-COLLARING-MACHINES
Customer: T-Drill Oy
(Weintek HMI operating devices)

Motion control

ACN-motion control system



Control units



Visualization and Runtime System



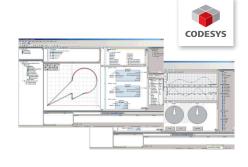
Motion controls

Soft Motion motion controller

Softmotion







User interfaces

Mobile operating devices



HMI solutions



Distributed I/O

Modular fieldbus I/O

IIoT

Condition monitoring solutions







Industrial and Mobile IT

Our product range in industrial and mobile IT includes industrial computers, industrial storage devices, in-vehicle computing solutions, in-vehicle display solutions, power supplies, and condition monitoring solutions. The product range is particularly suitable for industrial automation, public transportation, and defence industry applications.

Application examples



PASSENGER INFORMATION SYSTEM Asiakas: Neonmedia Oy (In-Vehicle display solutions)



SOLUTIONS FOR MINING INDUSTRY Panel PC, SKS solutions

Industrial IT and IoT

Storage devices



Mobile IT

In-Vehicle display solutions



Embedded systems





Storage devices



DC power supplies



In-Vehicle computing solutions









Network communication components



Box and panel PCs



Stage technology

We design and engineer stage mechanics and stage control systems for demanding customer needs. We have succeeded when the audience does not notice our solutions. Reliability, operational safety, customer oriented approach and sustainability are important values for us.

Application examples



RISING TIDE BAR Luxury Cruise Ships



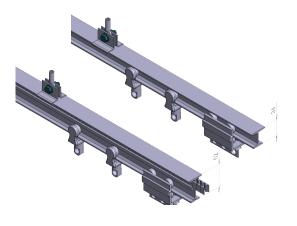
THE MODERNISATION OF THE MAIN STAGE
Oulu Theatre

Stage mechanics

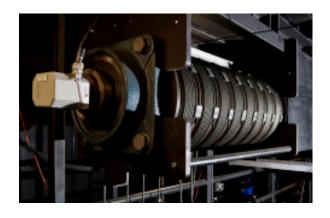
SKS batten hoists



Curtain tracks and track systems



Theatre mechanics



Lighting grids



SKS point hoists



Stage curtains and fabrics



Visual Stage Motion control system



Stage gantries with equipment



Spare parts



Understanding the customers expectations

Preventive maintenance program's benefits are great when unexpected break ups and faults can be minimized. Predictive maintenance ensures systems operational safety and makes it is easy to follow and predict the needs for spare parts and other services.

Our experienced engineers come on-site for manufacturer preventive maintenance inspection. They check the condition of the system and create a clear and cost-effective action plan that ensures operational safety for next season.

We take the responsibility over the operational safety of the stage technology solution right from the beginning to the end of the project including testing. The delivered solution includes designing, needed components and systems installed and after sales services such as maintenance, education, system modernizations and possible expansions. Turnkey solution provides cost savings over single systems and components.

We provide remote support 24/7, along with training.

Stage technics maintenance

Safety inspections



Mechanical maintenance and service



Software updates



Support



SKS safetycard



Motion control and electrical system services



Electrical work



Remote support



Training



Services for your needs

Correctly chosen products will operate as planned through their life time and save service and maintenance costs.

SKS Mekaniikka's specialists will advise you in all matters concerning product selection. We take responsibility for individual components, for assembly, and for overall deliveries. Our versatile assembly and machining services allow us to tailor products for each customer, while our customer service produces any special solutions you might need.

Ready for right measurements

The logistics and service centre in Vantaa, Finland, has a machine workshop, chain workshop, gear motor assembly shop, profile cutting, drilling and milling lines, and a cut-to-size and installation service for linear guides.

The machine workshop's versatile machine tools and skilled employees cooperate with SKS Mekaniikka's sales team to ensure that each customer's needs are met flexibly and reliably.

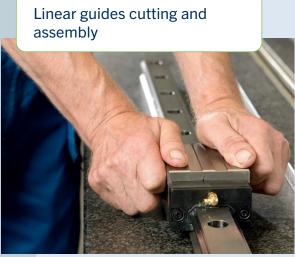












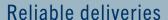




Best service

The close collaboration with the product manufacturers and our expertise in design of applications and systems help us to provide our customers high quality products and best service.

SKS Control is known for its strong expertise in motion control and stage technology control systems and stage mechanics.



SKS Group pays special attention to logistical excellence. Our ample warehouse stock is ready for immediate delivery. If the customer wishes, we can also store customer-specific items.

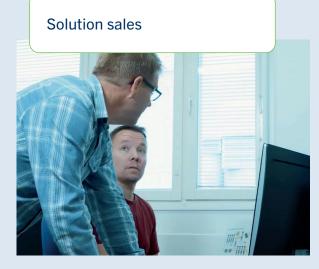
The 24/7 service takes care of deliveries when there are urgent needs outside office hours and on weekends.

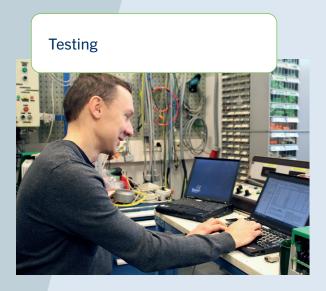




















SKS CONTROL OY

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Warehouse and Service Center

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Western Finland Area Office

Juhana Herttuan Puistokatu 21, FI-20100 Turku, Finland

Warehouse

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24/7 service number

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SKS Group

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SKS Tehnika OÜ (Tallinn, Estonia)

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