

# AluFlexGroup

YOUR PARTNER IN AUTOMATION SOLUTIONS

AluFlex AB | item profilli oy | LinearModul A/S | AluFlex System AS



# Your Partner in Automation Solutions



Item Aluminiumprofiles



D30 Tube System



Work Bench System



Belt Conveyor System



Palette Conveyor System



Lean Production System



Item News Every Year



Ball Bushings



Rack and Pinion System



Compact Rail



Linear Guides



Ball Screws



Easy Rail



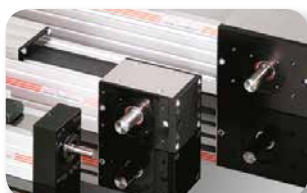
Heavy Telescopic Rail



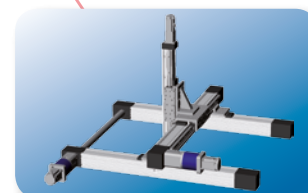
Light Telescopic Rail



Servo Motors



Linear Modules



Complete Solutions



## We have the automation solution for you!

Aluflex Group operates throughout the Nordic region and delivers automation solutions to Scandinavian industry.

We work with the market's leading suppliers of automation products. Our wide product range includes the item aluminium profile system, belt conveyors, roller conveyors, modular belt conveyors, modular transfer systems and workbench systems, linear products such as linear guides, ball screws, linear modules, telescopic movements and rack and pinion solutions.

From our workshop and large warehouse in Helsingborg we offer customised design solutions and optimal logistics. We can cut, machine and assemble quickly according to your wishes. There are CAD and PDF files on our website to simplify the design work.

Aluflex turns your ideas into ready solutions!



## item PROFILE SYSTEM

We offer the item aluminium profile system, which is the market's absolute leading profile system with many hundreds of different aluminium profiles and a multitude of associated components. The system is well adapted to build everything from simple stands, trolleys, guards and fixtures to advanced automation solutions.

With the item profile system, we help you to find the optimal solution for your automation.

Only your imagination is the limit to this system!





## LEAN PRODUCTION SYSTEM TUBE PROFILES D30

The D30 tube system is ideal for quickly building solution-oriented factory equipment such as trolleys, stands, work surfaces etc. No machining is needed, just cut and assemble, easy and cost effective.



## TROLLEY SYSTEM, SYSTEM MOBILE LTU

The item Mobile System is the perfect solution for building flexible trolleys for products, transport boxes and work materials. With the aid of a simple configurator you can easily customise trolleys to suit your material handling.



## item XMS SYSTEM

The XMS system is the ultimate profile system with a sleek design and machine stand, as well as machine protection in the same application. Unique to the XMS system is that all wiring is inside the profiles. The XMS system is our most soundproofed machine protection system.



## WORKBENCH SYSTEM WBS

With the item flexible workbench system, the workbench is directly optimised for the intended production, and the optimal working position is offered. The workbench is very flexible and future adjustments is always possible. It can easily be rebuilt for an other production or integrated with a production line.



## STAIRWAY AND PLATFORM SYSTEM TPS

The item flexible TPS system makes it easier than ever to be able to reach every part of the machine for maintenance and installation. With this system you simply build stairways and platforms using the same profiles as the machine is built from.



## item NEWS

The item aluminium profile system is developed every year with new products and solutions according to our customers' wishes and needs. New products are launched every spring and autumn!





## BELT CONVEYORS

We offer a wide range of belt conveyors and timing belt conveyors built on our aluminium profiles. Belt and timing belt types are optimised for each application and product. The conveyors are easily built into machine stands or stand on their own legs. The conveyors are intended for weights up to 150 kg wide spread load.



## MODULAR TRANSFER SYSTEM

Elcom's modular transfer system is the most flexible transfer system on the market. With the help of our configurable CAD files, we can quickly and flexibly build production flow with this system. Pallet width varies between 100 and 400 mm and can handle products up to 20 kg. The transfer system is easy to rebuild in the future.



## FLEXIBLE MODULAR BELT CONVEYORS

A flexible transport solution for products that need a stable surface. Our modular belt conveyors offer the possibility of building in different levels, curved solutions etc. Our modular belt conveyors are tailored to customer preferences in different radius and different widths between 190 - 650 mm. The modular belt conveyors have various accessories such as adjustable side guides, cleats, special fixtures etc.



## ROLLER CONVEYORS

We build roller conveyors for both low and high loads and in both driven and undriven designs. Roller conveyors are built in our profile system and are therefore very easy to integrate into existing stands or they can stand on their own legs. The conveyors are available in straight and curved designs.



## STRAIGHT MODULAR BELT CONVEYORS

The simple modular belt conveyor that also offers a variety of special solutions. With our wide range of modular belt solutions we build special solutions such as folding cleats, built-in rollers, built-in lateral movements etc. Modular belt conveyors are customised in both width and length. The belt type is optimised for the product.



## CHAIN CONVEYORS

With our chain conveyors, we build customised product flow, from smaller to larger applications. The ability to make long movements with a small number of motors is a great advantage. Our chain conveyors are available in widths from 45 - 275 mm and with a variety of different types of chains, as well as many other accessories to be able to adapt the conveyors to each product.



## LINEAR GUIDES

Linear guides are well suited for linear movements where there is a demand for high precision and medium to high loads. Linear guides are our most common linear bearings and come in many different models and sizes. We adapt the linear guides with various gasket and lubrication options.



## LINEAR ROLLER GUIDES

Linear roller guides offer a very high precision and very high stiffness. A suitable linear bearing for applications that require high accuracy or that have heavy loads.



## COMPACT RAIL

Compact Rail is a rolling linear bearing with the unique advantage that it takes up angular misalignment in parallelism and in height differences, while maintaining its load bearing ability. The rail is made of surface hardened steel and has a carrier of aluminium. Compact Rail is the optimal choice for dusty environments.



## FLEX FIT

Flex Fit is a compact linear bearing that is available in both standard steel and stainless material. Flex fit is used in linear movements with a requirement for stainless material, as well as in simpler designs with limited requirements for precision and loads.



## LIGHT TELESCOPIC RAILS LTR

Used in simpler telescopic linear solutions up to 300 kg per pair on a wide spread load. Available in many different models and up to 140% extension.



## HEAVY TELESCOPIC RAILS HTR

For telescopic linear solutions in industrial applications up to 4500 kg per pair on a wide spread load. Available from 50% to 100% extension and with extension in both directions. Manufactured from cold drawn ground and hardened steel to handle high loads with good precision.



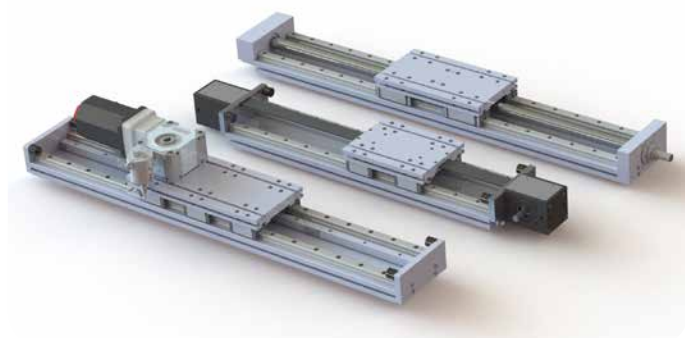
## LINEAR MODULES LM

LM is a linear module that offers high precision and has two operating options, belt or ball screw drive. It is designed with a cover band and the bearings are a linear rail and two linear carriages. Suitable for loads up to 150 kg per linear module. Complete motor packs are available as accessories. The extension length is adapted to customer needs.



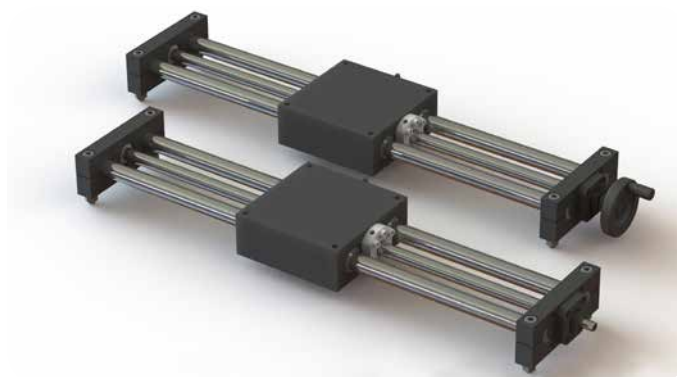
## LINEAR MODULES KE

A compact linear module with low height that can withstand high lateral torque and loads. Designed with circulating cover band and the bearings are two linear rails and two or four linear carriages to withstand high lateral torque. Suitable for loads up to 150 kg per linear module. Complete motor packs are available as accessories. The extension length is adapted to customer needs.



## LINEAR MODULES FKK, FKR, FKZ

FK linear module is a powerful module and has three different drive options, balls crew, belt or rack and pinion. This gives the FK module series a area of use. The linear module has two rails and 4-6 carriages and is suitable for linear movements with high precision and high loads up to 750 Kg.



## LINEAR MODULES JM

A linear module that has two operating options, manual adjustment with a wheel or motorised. The module is built on four ball bushings and two shafts and is supplied with trapezium threaded screw or ball screw for operation.

## item LINEAR SYSTEM iLMU

Item offers a complete linear range with linear modules, motor pack and item's own servo motor system. The linear modules integrate easily into the profile system. With the aid of item's linear configurator, you can easily dimension complete linear module packages. item's self-calibrating software for the servo motor is included.

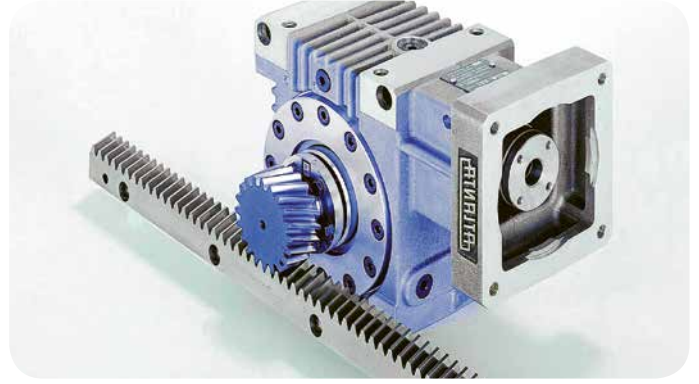






## BALL SCREWS AND BEARINGS

We have a wide range of ball screws in different models and associated ball screw bearings. Ball screw packages are also supplied with complete motor flanges and motor package. All ball screws are machined in our workshop according to customer requirements.



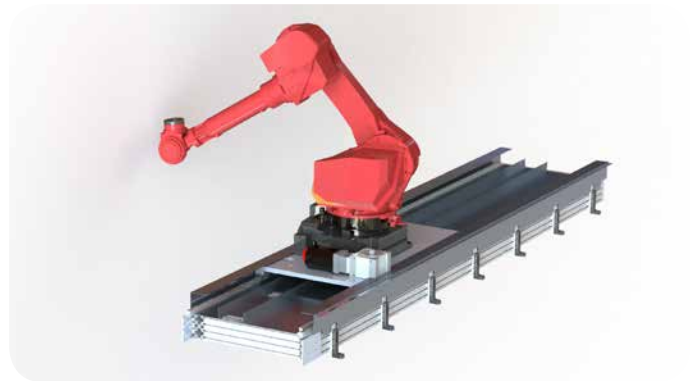
## RACK AND PINION

Complete rack and pinion units for automation applications that offer good precision and a wide range of applications. Rack and pinion units are available in hardened steel, stainless steel and plastic materials and in many different qualities.



## BALL BUSHINGS AND SHAFTS

We have a wide range of ball bushings in many different models as well as shafts in associated sizes in steel and stainless steel material. Suitable uses are simpler linear solutions with smaller or medium-sized forces or where there is a requirement for stainless material.



## ROBOT TRACK SYSTEM

Aluflex robot track system is a high-performance servo driven robot track for one or two robots. The robot track system is built on our own profile system and can easily be adapted for weight and desired length. Suitable when the robot is to move during operation or to transport the robot between different workstations.

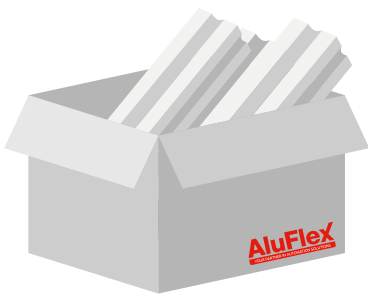


# Complete solutions with flexibility

With 30 years' experience, Aluflex has genuine experience in automation solutions and resources to be a long-term partner - from idea to finished solution.

Aluflex has human knowledge and mechanical muscle that allow the company to deliver specialist automation solutions to our customers every day. We turn your ideas into ready solutions, where we offer design assistance, choice of products, dimensioning design and calculations and then production and assembly of our products.

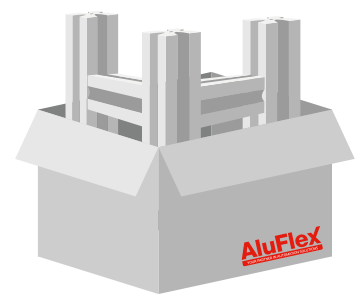
## YOU CAN BUY OUR PRODUCTS IN 3 DIFFERENT WAYS:



- 1 In full lengths with components that you machine and assemble yourself.

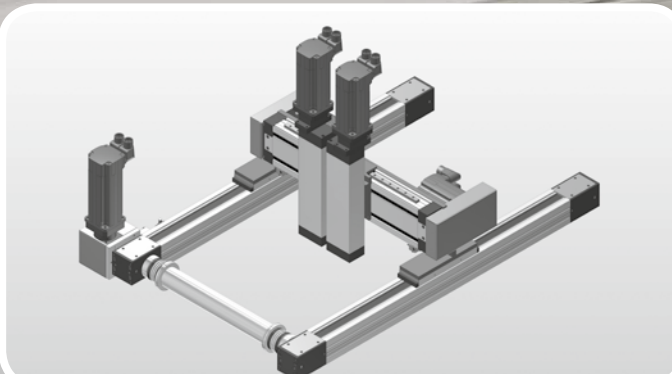
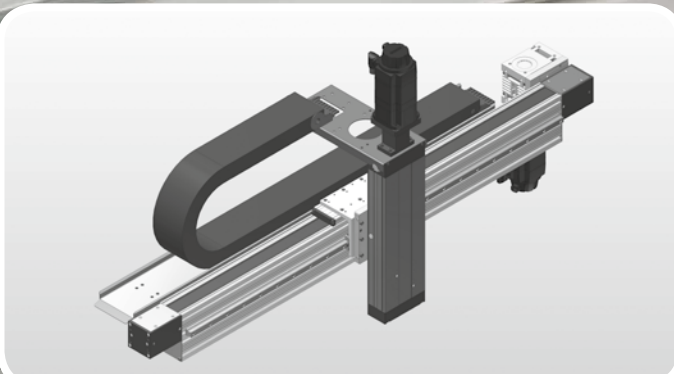
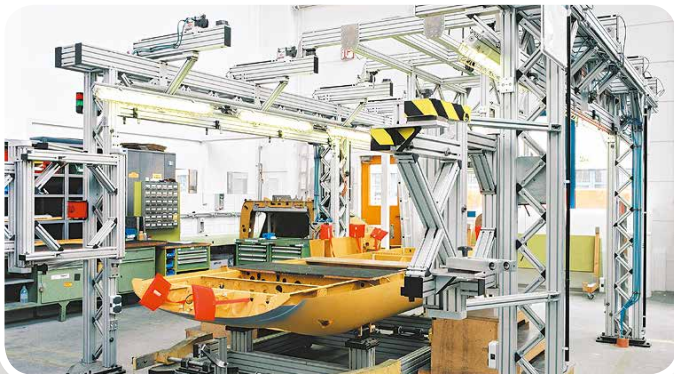


- 2 In building kits that we machine according to your drawings and you assemble.



- 3 We deliver to you assembled and ready according to the drawings.





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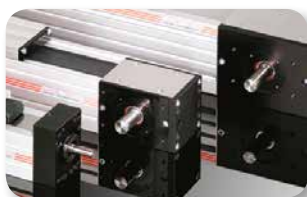
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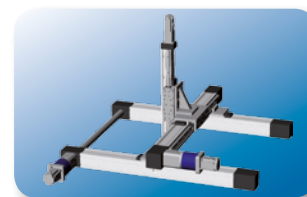
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