

CNC and automation components

Motion control, linear motion, machine framing, lubrication, electrical components and tooling for machine builders, maintenance teams and workshops.

- Motion control & drives
- CNC controllers & interfaces
- Linear guideways & blocks
- Ball screws & supports
- Linear axis modules & actuators
- Gearboxes & transmission
- Spindles & cooling
- Aluminium profiles & framing
- Centralised lubrication
- Electrical components & sensors
- Clamping & cutting tools
- CNC plasma & oxy-fuel

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CATEGORY 01 / 12

Motion control & drives

Stepper and servo drives, inverters



MKS SERVO42C



DM556 Stepper Driver



DM860H Stepper Driver



HF020 Single Axis Control...



Integrated Closed Loop M...

Everything that makes an axis move: closed-loop stepper motors with the driver built into the motor, open-loop steppers with separate drivers, AC servo motors with matching drives and frequency inverters for spindles, pumps and conveyors. Motor, drive and mechanics are selected together so the axis runs without lost steps and without oversizing.

SERIES AND BRANDS

MKS Servo

Servo Stepper

DM556 / DM860H

TB67S

Folinn

- Closed-loop stepper motors 2.5–12.5 Nm with integrated driver and encoder
- NEMA 17 / 23 / 34 stepper motors with DM556, DM860H and TB67S drivers
- AC servo motors and drives 0.4–3 kW
- Single-axis controllers for simple positioning tasks
- Frequency inverters, braking resistors, motor brackets and couplings

PRODUCTS IN THIS GROUP

 DM556 Stepper Driver
 DM860H Stepper Driver
 HF020 Single Axis Controller
 Integrated Closed Loop Motors
 MKS SERVO42C
 Servo Stepper 2.5 Nm

 Servo Stepper 5.0 Nm - 12.5 Nm
 Stepper Motors
 TB67S Stepper Driver
 ZK-SMC01 Single Axis Controller
 AC Servo CZ
 PMSM AC Servo

 AE200 Frequency Inverter
 Cumark ES580 Inverter
 EDS800
 EN600 Flux Vector
 Folinn H110 Frequency Inverter

STEPPER TORQUE
2.5–12.5 Nm
SERVO POWER
0.4–3 kW
INVERTERS
0.75–7.5 kW

CATEGORY 02 / 12

CNC controllers & interfaces

Stand-alone controllers, cards and pendants


NW-980TDca



DDCS CNC Controllers



HF020 Single Axis Control...



NW-990MDca



NW-990TDca

Control electronics for milling, turning, routing, plasma and oxy-fuel machines. Stand-alone controllers with display for machines without a PC, Ethernet and LPT motion cards for PC-based control, pendants for setup and manual jogging.

SERIES AND BRANDS

DDCS

NW-980 / 990

NVEM

Mach3

MPG6

- Stand-alone 3–6 axis motion controllers with colour display
- Lathe and milling controllers of the NW-980 / NW-990 family
- Ethernet (NVEM) and LPT (Mach3) motion cards, 3–6 axes
- MPG hand wheels and pendants with axis and step selection
- Single-axis controllers for feeders, indexers and positioners

PRODUCTS IN THIS GROUP

 DDCS CNC Controllers
 HF020 Single Axis Controller
 NW-980TDca
 NW-990MDca

 NW-990TDca
 ZK-SMC01 Single Axis Controller
 MPG Hand Wheel
 MPG6AA

 LPT Cable
 Mach3 5-Axis Board
 NVEM CNC Ethernet Controller
 USB MACH3 4 Axis Controller

 AXES
3–6

 INTERFACES
Ethernet, USB, LPT

 PROGRAMS
G-code

CATEGORY 03 / 12

Linear guideways & blocks

Profile rails and carriages


HGW Linear Block



GHH Linear Block



HGR Guideways Limiter



HGR Linear Guideways



Pneumatic Linear Guide R...

Profile rail guideways for machine tools, automation and handling. Dimensions follow the common HG format, so rails and blocks on existing machines can be replaced one-to-one. Standard, roller, miniature and self-lubricating types in three precision grades, plus round-rail linear bearings for simpler guiding.

SERIES AND BRANDS

SHAC

GHH / GHW

HGH / HGW

LM-UU

HGR

- SHAC GH-series rails and GHH / GHW blocks, HG-compatible
- Rail sizes 15, 20, 25, 30, 35 and 45 mm
- Flanged (W) and narrow (H) blocks, standard and long
- Precision grades C, H and P; preload classes to order
- Guideway limiters and pneumatic rail clamps
- LM-UU and LM-LUU linear ball bearings, rails cut to length

PRODUCTS IN THIS GROUP

HGH Linear Block
 HGR Guideways Limiter
 HGR Linear Guideways
 HGW Linear Block
 Pneumatic Linear Guide Rail Clamp –
 Normally Open and Normally Closed
 SHAC GHH Linear Block

SHAC GHR Linear Guideways
 SHAC GHW Linear Block
 LM-LUU
 LM-UU
 LMF-LUU
 LMF-UU
 LMK-LUU

LMK-UU
 SBR-LUU
 SBR-UU
 SCS-LUU
 SCS-UU

RAIL SIZES
15–45 mm

GRADES
C / H / P

LENGTHS
up to 4–6 m

CATEGORY 04 / 12

Ball screws & supports

Rolled and ground screws with nuts

SFA



SHAC Ball Screw Nut – SFNU/SFA



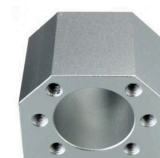
Ballscrew SFU Nut



DFU Double Ball Screw Nut



SFU Ballscrew by Size



SFU Nut Housing

Ball screws convert motor rotation into precise linear motion. Rolled SFU screws for general positioning, SHAC SCR / SSR ground screws where accuracy matters. Supplied with single or preloaded double nuts, nut housings and end supports, end-machined to drawing.

SERIES AND BRANDS

SHAC SCR / SSR

SFU

DFU / DFNU

BK / BF

T8

- Diameters 12–50 mm, leads 4–20 mm; SFU1605 and larger ready machined
- Accuracy classes C3 and C5 (ground), C7 and C10 (rolled)
- SFNU / SFA single nuts, DFNU / DFU preloaded double nuts
- Fixed (BK / EK) and supported (BF / EF) end bearing units
- Nut housings, shaft collars, lock nuts and couplings
- T8 lead screws and nuts for light axes and 3D printers

PRODUCTS IN THIS GROUP

Ballscrew SFU Nut
 DFU Double Ball Screw Nut
 SFU Ballscrew by Size
 SFU Nut Housing
 SFU1605 Ballscrews Machined
 SHAC Ball Screw Nut – SFNU/SFA

SHAC Ball Screws – SCR/SSR
 SHAC DFNU Double Ball Screw Nut
 T8 Screw - Nut for 3D Printer
 T8-Screw Shaft Collar
 Angular Contact Bearings Sets
 BF Type

BK Type
 FF Type
 FK Type
 RBK Motor Bracket
 T8 Adjustable Screw Support

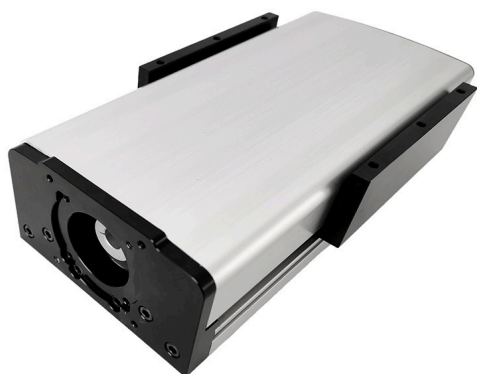
DIAMETER
Ø12–50 mm

CLASSES
C3–C10

LEAD
4–20 mm

CATEGORY 05 / 12

Linear axis modules & actuators

Ready-to-mount axes and round-rail guides


Z-Axis Module with Cover



Chromed Linear Shaft Gui...



CLTAM Shaft Support



Linear Shaft Positioning Li...



SBR Linear Rail Guide

Complete linear axes with guide, drive and carriage in one aluminium body, and round-rail systems for simpler guiding tasks. Z-axis modules with cover are ready to take a spindle or tool; SBR supported rails and chromed shafts with SK / SHF supports build light gantries quickly.

SERIES AND BRANDS

Z-axis module

SBR

SK / SHF

CLTAM

- Z-axis modules with cover, ball screw driven, motor-ready
- Belt-driven modules for long, fast travel; screw modules for force and precision
- SBR supported linear rails with open bearings
- Chromed linear shafts with SK, SHF and SHFL supports
- Shaft cross connectors and positioning limiters

PRODUCTS IN THIS GROUP

 Z-Axis Module with Cover
 Chromed Linear Shaft Guide
 CLTAM Shaft Support

 Linear Shaft Positioning Limiter
 SBR Linear Rail Guide
 Shaft Cross Connector

 Shaft Support SHF
 Shaft Support SK
 SHFL Shaft Support

TRAVEL
up to 3 m
DRIVE
belt / screw
SHAFTS
Ø8-40 mm

CATEGORY 06 / 12

Gearboxes & transmission

Reducers, racks, pulleys, belts

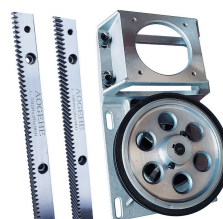

Helical Gearbox DN Series



Helical Gear HG



Planetary Reducer PEH90



Rack and Pinion Gearbox



Straight Gearbox PF Series

Speed reduction and torque transmission for servo and stepper axes. Planetary reducers mount directly on the motor flange, helical reducers for heavier drives, rack-and-pinion for long travel, GT2 pulleys and belts for compact drives.

SERIES AND BRANDS

PL / PLR / PF

DN series

PEH90

GT2

- Planetary gearboxes PL, PLR and PF series, ratios 3:1 to 100:1, low backlash
- Helical gearboxes DN series and helical gear sets HG
- PEH90 planetary reducer for larger servo motors
- Rack and pinion sets with matching gearbox and mounting plate
- GT2 / 2GT timing pulleys, idlers and closed belts
- Jaw, bellows and disc couplings

PRODUCTS IN THIS GROUP

Helical Gear HG
 Helical Gearbox DN Series
 Planetary Reducer PEH90
 Rack and Pinion Gearbox
 Straight Gearbox PF Series
 Straight Gearbox PL Series

Straight Gearbox PLR Series
 2GT Idler Pulleys
 GT2 Timing Belt - Closed
 GT2 Timing Pulley
 Timing Belt GT2-6mm Open
 E69-C06B

HB Couplings
 KS19-24-06-06D
 Rigid Couplings for 3D Printers
 Simple Rigid Couplings for 3D Printers

RATIOS
3-100:1
BACKLASH
low
MOUNTING
motor flange

CATEGORY 07 / 12

Spindles & cooling

Spindle motors, inverters, chillers, dust extraction



GDL60-30-24Z 6kw



ATC Spindle 3.0kw



Folinn H110 Frequency Inv...



GDL70-24Z-9



GDL80 ATC Spindle

Spindle motors for routers and small milling machines, with the inverter, cooling and tooling to match. Water-cooled spindles run quietly and hold speed under load; ATC spindles change tools automatically; chillers keep the temperature stable for consistent accuracy.

SERIES AND BRANDS

GDZ

GDL ATC

Folinn H110

ISO20 / ISO30

- Water-cooled spindles 0.8–6 kW, up to 24 000 rpm
- Air-cooled GDZ spindles with ER collet, 1.5–4.5 kW
- ATC spindles GDL60 / GDL70 / GDL80 with ISO20 / ISO30 tool change
- Folinn H110 frequency inverters and spindle cables
- Water chillers and pumps for spindle cooling
- Dust collectors and brushes for routers

PRODUCTS IN THIS GROUP

ATC Spindle 3.0kw
 Folinn H110 Frequency Inverter
 GDL60-30-24Z 6kw
 GDL70-24Z-9
 GDL80 ATC Spindle
 GDZ-ATC 4.5kw

GDZ80×73 Air Cooled Spindle
 Water Cooled Spindle
 Dust Collector
 Dust Collector Brush
 Dust Collector V1
 ER Collets LC

ER20 Clamping Collet Nut
 Hose for Spindle Cooling
 Industrial Water Chiller for CNC Spindles
 Spindle Bracket Holder
 CNC Mist Coolant

POWER

0.8–7.5 kW

SPEED

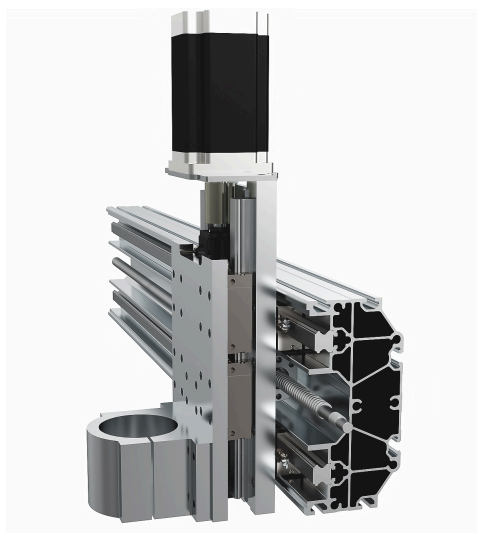
up to 24 000 rpm

COOLING

water / air

CATEGORY 08 / 12

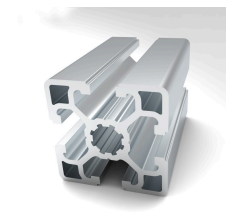
Aluminium profiles & framing

Profiles, connectors, nuts, feet


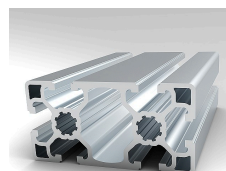
CNC-X-Axis Alu Profile 200×96



Alu Profile 30×30



Alu Profile 40×40



Alu Profile 40×80



Alu Profile 80×120

Structural aluminium profiles for machine frames, gantries, enclosures and guards. Heavy X- and Y-axis profiles are made for CNC router gantries; a full accessory programme lets you build without welding.

SERIES AND BRANDS

30 / 40 series

80 series

X / Y gantry

T-nuts

- Standard profiles 30×30, 40×40, 40×80, 80×80, 80×120, 180×20 mm
- Gantry profiles: X-axis 200×96 and 235×125, Y-axis 215×126 mm
- T-slot, spring and hammer nuts, socket bolts
- Angle and 45° connectors, inner connectors, end caps
- Levelling feet and castors for machine bases
- Cut to length; frames and gantries pre-assembled on request

PRODUCTS IN THIS GROUP

Alu Profile 180×20
 Alu Profile 30×30
 Alu Profile 40×40
 Alu Profile 40×80
 Alu Profile 80×120
 Alu Profile 80×80

CNC-X-Axis Alu Profile 200×96
 CNC-X-Axis-Heavy-Alu Profile 235×125
 CNC-Y-Axis Alu Profile 215×126
 45 Angle Connector
 Angled Side Bracket
 Corner Cube Connector

Door Ball Latch
 End Connection Plate
 Hinge Bracket
 Hinges for Alu Profiles
 L Angle Bracket
 Plastic Handle

PROFILES

30×30–235×125

SLOT

8 / 10 mm

SERVICE

cut to length

CATEGORY 09 / 12

Centralised lubrication

Pumps, distributors, tubing, fittings


ELOP-1.5 Oil Pump



Hand Lubrication Pump



Hand Tube Bender CT-36...



High Pressure Tube



Oil Brush Lubricator

Automatic lubrication keeps guideways and ball screws running and extends their life several times over. Electric pumps with timer, hand pumps for smaller machines, and volumetric distributors that deliver a measured amount of oil to every point.

SERIES AND BRANDS

ELOP

Hand pump

Divider bridge

Ø4 / Ø6 tube

- ELOP-1.5 electric oil pump with timer and level control
- Hand lubrication pumps for small machines
- Volumetric oil distributors and divider bridges, 1-20 outlets
- Nylon and copper tubing, high-pressure tube, spring protectors
- Nozzle joints, pipe fittings, sealing plugs, brush lubricators
- Hand tube bender CT-369FHA

PRODUCTS IN THIS GROUP

ELOP-1.5 Oil Pump
 Hand Lubrication Pump
 Hand Tube Bender CT-369FHA
 High Pressure Tube
 Oil Brush Lubricator

Oil Divider Bridge
 Oil Nozzle Joint
 Oil Pipe Fittings
 Oil Sealing Plug
 Spring Tube Protector

Tube Cutter 3-16
 Oil Separator Block
 Oil T-Distributor
 Volumetric Oil Distributor

OUTLETS
1-20

MEDIA
oil / grease

CONTROL
manual / timer

CATEGORY 10 / 12

Electrical components & sensors

Sensors, connectors, power supplies, cable tracks



LJ12A3-4-Z Proximity Sensor



EE-SX670-WR Slot-type O...



SN04 Proximity Sensor



GX16 Aviation Connectors



DH Open Type

The parts that complete the electrical side of a machine: sensing, connection, power and cable management. Selected for industrial use and compatible with the drives and controllers we supply.

SERIES AND BRANDS

LJ12A3

SN04

EE-SX670

GX16

MDR

- Inductive proximity sensors LJ12A3 and SN04, M8-M30, PNP / NPN
- Slot-type optical sensors EE-SX670 for home and limit positions
- GX16 aviation connectors, cables and glands
- DIN-rail power supplies MDR-60 / SW series, adjustable supplies
- Cable drag chains, open (DH) and semi-closed (SC) types
- Relays, solid-state relays, push buttons and enclosures

PRODUCTS IN THIS GROUP

EE-SX670-WR Slot-type Opto Sensor
 LJ12A3-4-Z Proximity Sensor
 SN04 Proximity Sensor
 GX16 Aviation Connectors

DH Open Type
 SC Semi Closed Type
 Adjustable DC Power Supply
 Adjustable Power Supply APS

MDR-60/20 DIN Rail Power Supply
 Power Supply SW
 Toroidal Transformer 1000W 60V

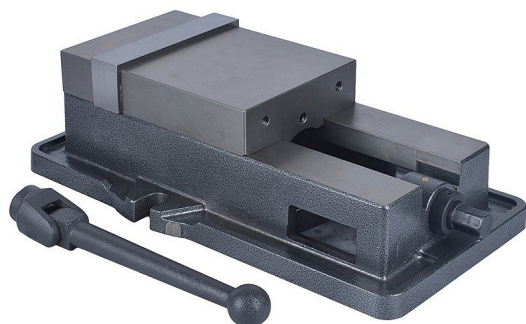
SUPPLIES
24 V DC

SENSORS
M8-M30

CABLE CHAINS
DH / SC

CATEGORY 11 / 12

Clamping & cutting tools

Vises, parallels, collets, probes


Precision Milling Machine Vise



Precision Ground Parallels...



ER Collets LC



3D Edge Finder TP06-V6



CNC Automatic Tool Setter

Workholding and tooling for milling, drilling and engraving. Precision vises and ground parallels for the table, ER collets and holders for the spindle, tool setters and 3D edge finders for fast and repeatable setup.

SERIES AND BRANDS

ER collets

TP06-V6

Tool setter

Parallels

- Precision milling machine vises 100–160 mm
- Precision ground parallel sets
- ER collets (ER11–ER32), collet chucks and tool holders
- CNC automatic tool setters
- 3D edge finders TP06-V6 and touch probes
- Milling cutters, drills and engraving tools

PRODUCTS IN THIS GROUP

Precision Ground Parallels for Machine Vise

 Precision Milling Machine Vise
 ER Collets LC

 3D Edge Finder TP06-V6
 CNC Automatic Tool Setter

 COLLETS
ER11–ER32

 VISES
100–160 mm

 PROBES
3D touch

CATEGORY 12 / 12

CNC plasma & oxy-fuel

Cutters, torches, controllers, THC


CNC Plasma Cutter



LGK Plasma Cutter



P80 Plasma CNC Torch



YK100 Plasma CNC Torch



F2100B Plasma CNC

Thermal cutting for steel plate: plasma cutters and machine torches for thin to medium plate, oxy-fuel for thick sections. Controllers with torch height control and a full range of consumables keep the cut quality consistent.

SERIES AND BRANDS

LGK

P80

YK100

F2100B

HP105

- LGK plasma cutters 60–200 A
- P80 and YK100 machine torches with consumables
- F2100B plasma / oxy-fuel CNC controller
- HP105 torch height control (THC) and remote control
- Anti-collision torch holders and Z-axis torch lifters
- Oxy-fuel cutting torches and gas equipment

PRODUCTS IN THIS GROUP

 CNC Plasma Cutter
 LGK Plasma Cutter
 P80 Plasma CNC Torch

 YK100 Plasma CNC Torch
 F2100B Plasma CNC
 Plasma THC HP105

 Remote Control for Plasma Controller
 Plasma Torch Anticollision Holder
 Z-Axis Torch Lifter

PLATE
up to 25 mm plasma
CURRENT
60–200 A
CONTROL
F2100B + THC

Contact us

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Replacement and retrofit

Send a photo or the marking of a worn rail, screw or motor. We identify a compatible part and deliver it with mounting hardware.

Complete axis kits

Guideway, ball screw, supports, coupling and motor selected together for your load and travel.

Installation and service

Our technicians install linear axes, lubrication systems and drives on site and commission the controls.