

PRODUCT OVERVIEW

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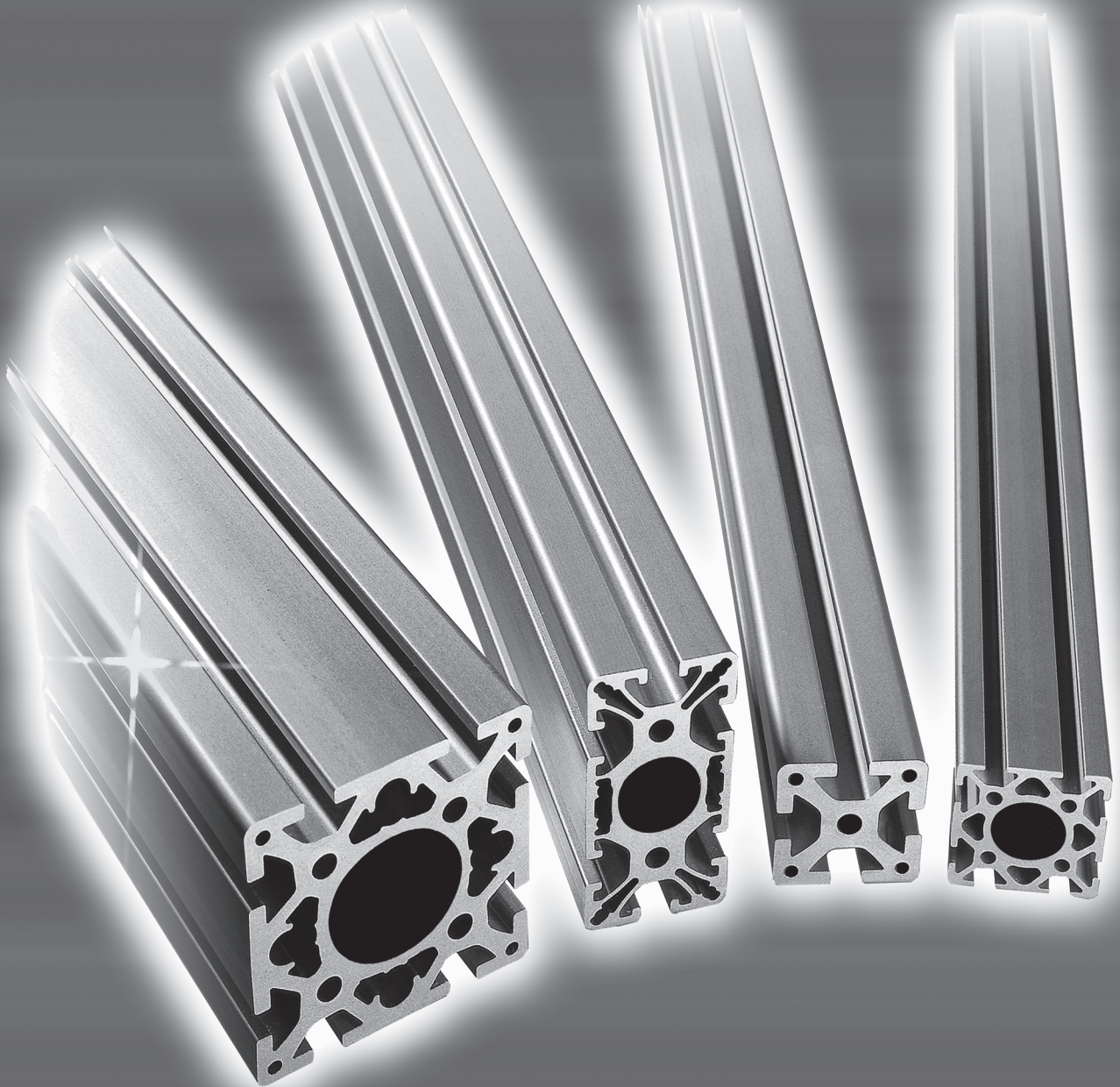
Air-Oil Systems, Inc.

AUTOMATION SOLUTIONS

753 WAMBOLD ROAD SOUDERTON, PA 18964-2715

215.721.9595 800.333.5520 FAX 215.721.7666

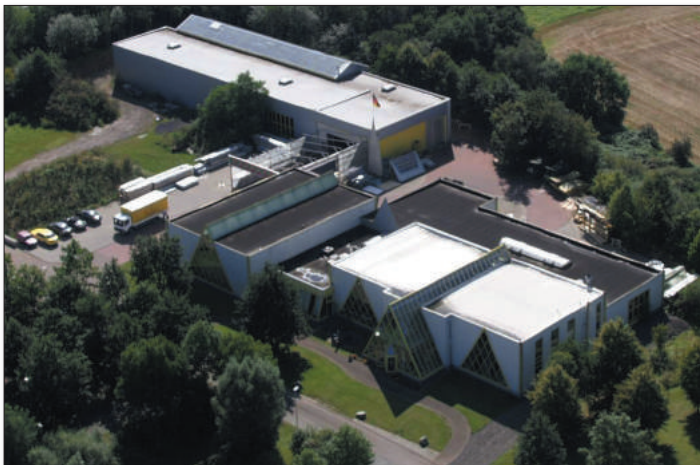
www.airoil.com





Build Better with the Silverline Profile System

Paletti Profilsysteme is a young organisation that began with one basic goal: to provide highly flexible and economically viable solutions for machine and plant construction.



Head office in Minden / Meißen

Fast & Easy

Our Silverline profile system is flexible, compatible and competes with any welded steel option. All components are structurally designed to assemble without difficulty, decreasing assembly time and maximizing profit.

Build Better

Equipped with the most up-to-date CNC production facilities and a qualified team of engineers and specialists, we are ready to turn your visions into a reality.

Explore the possibilities with Paletti's revolutionary Silverline aluminum profile system.

With rapid progress regarding production improvements and work flow adaptability, it has become increasingly necessary to deliver a multitude of affordable machine building options.

Our manufacturing strength lies in the development and production of modular-based profile systems that are suitable for all fields of application.

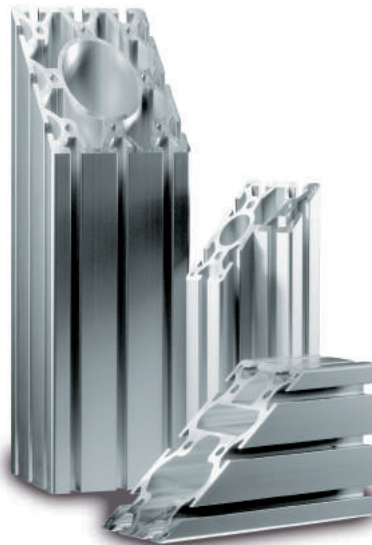
Paletti provides innovative aluminum profile solutions for industrial applications, eliminating the need for cumbersome steel systems.

Paletti's benefits are:

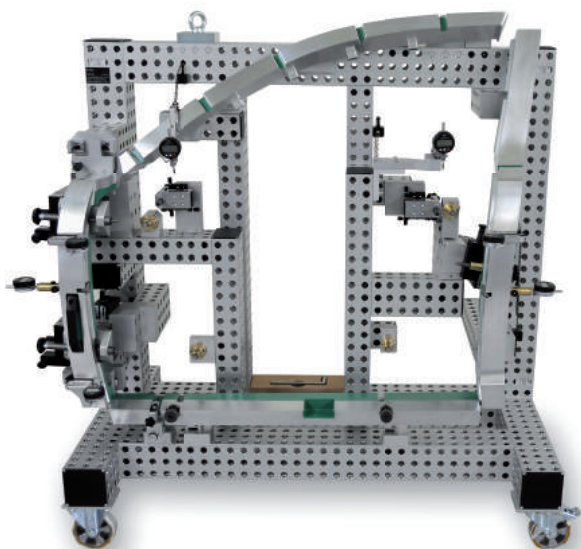
- ▲ high quality
- ▲ precision work
- ▲ very effective price / cost ratio
- ▲ order-processing that meets deadlines
- ▲ planning and development services



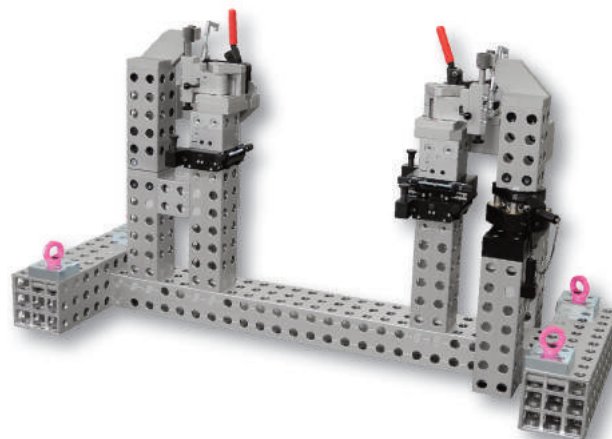
Plant in Lahde



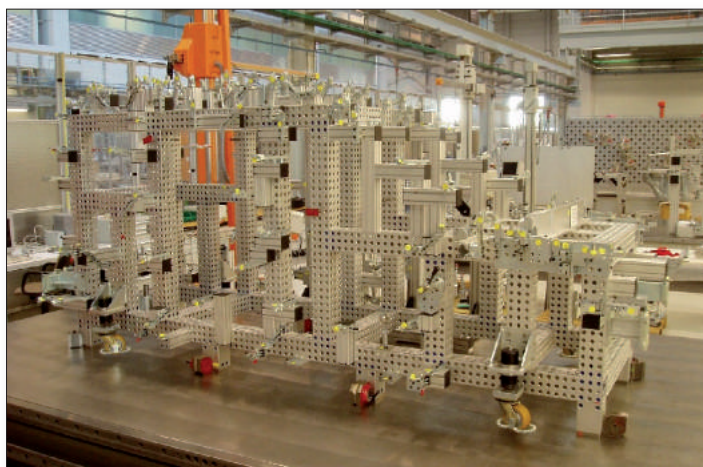
Checking Fixture Automotive



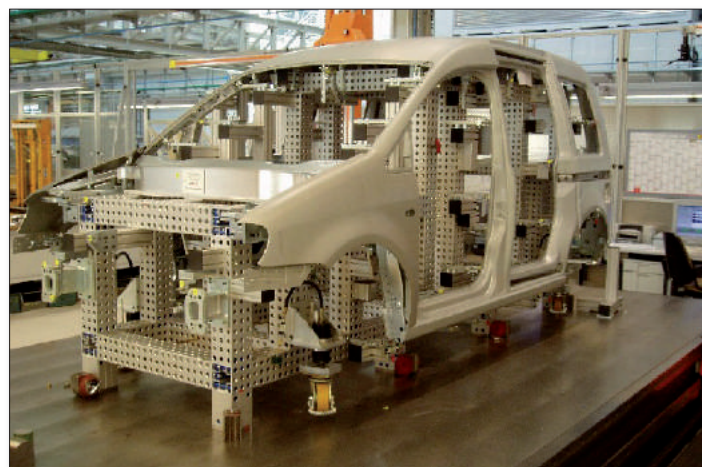
Checking Fixture Door



Checking Fixture platform



Matching Fixture

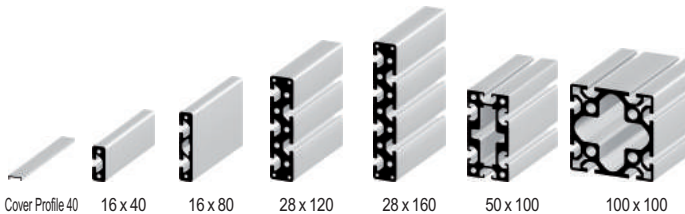
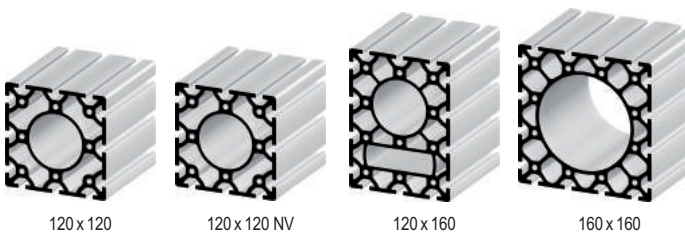
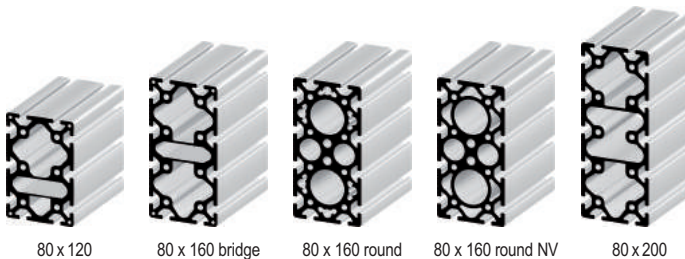
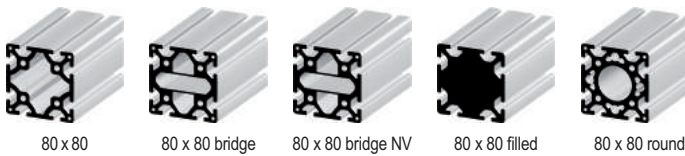
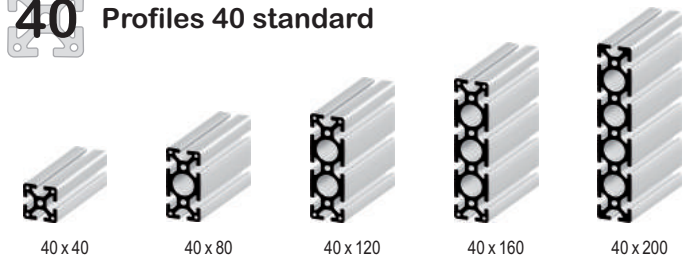


Matching Fixture incl. parts

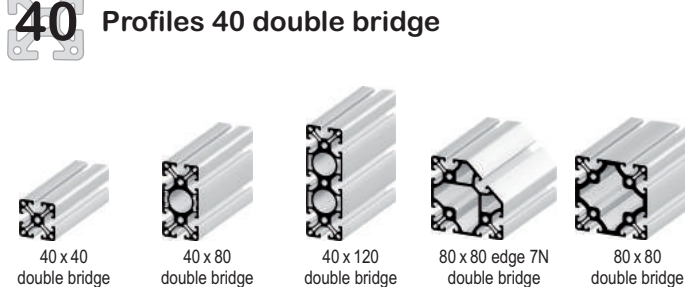


Gauges for press parts

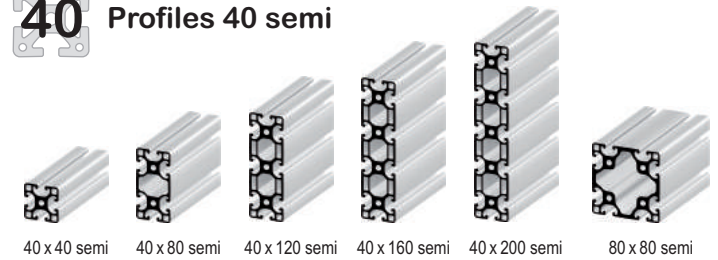
40 Profiles 40 standard



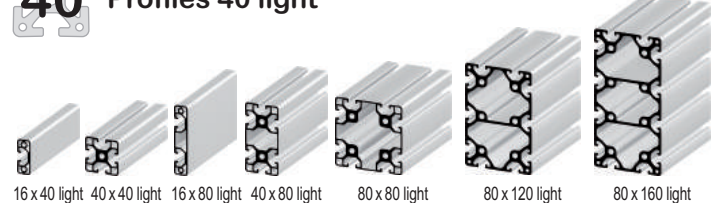
40 Profiles 40 double bridge



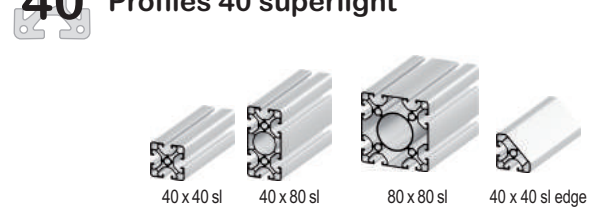
40 Profiles 40 semi



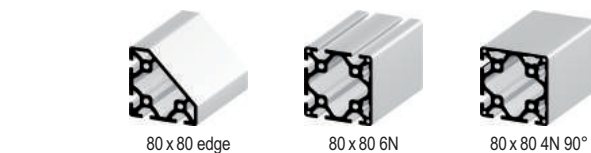
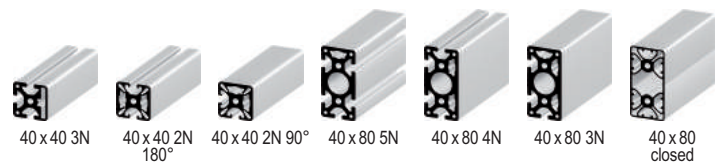
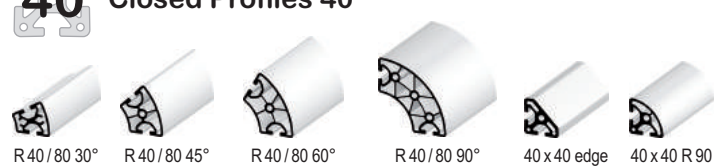
40 Profiles 40 light



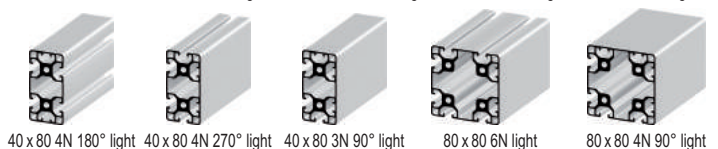
40 Profiles 40 superlight



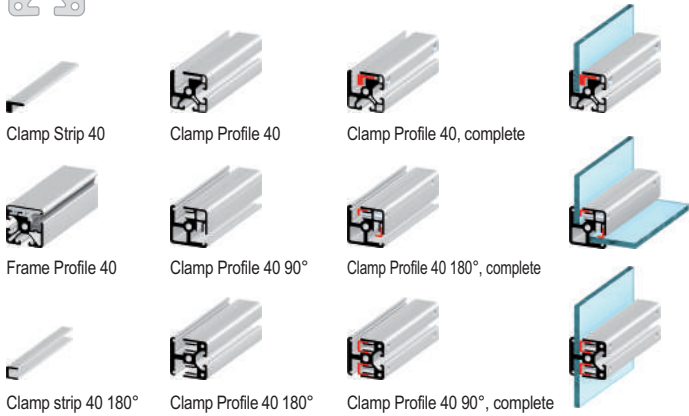
40 Closed Profiles 40



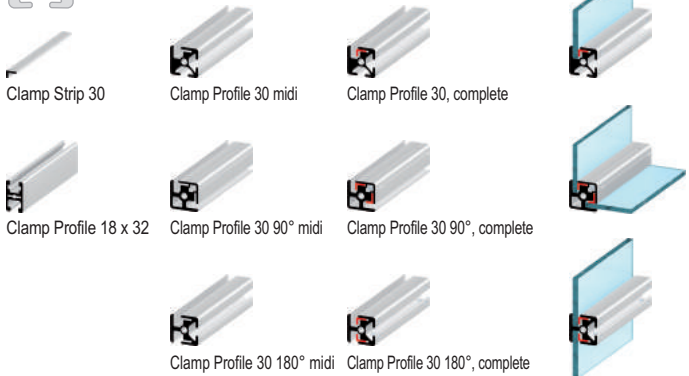
40 Closed Profiles 40 light



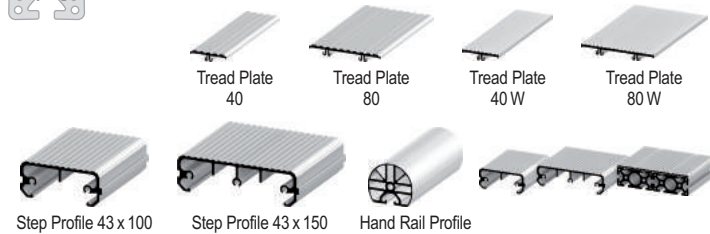
40 Clamp Profiles 40



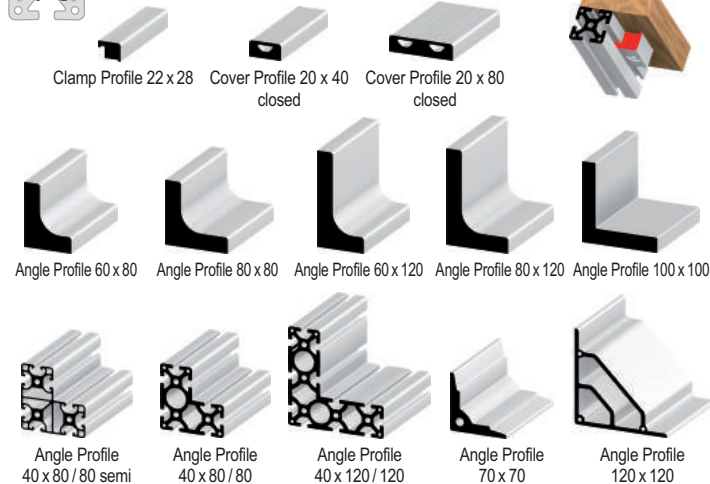
30 Clamp Profiles 30



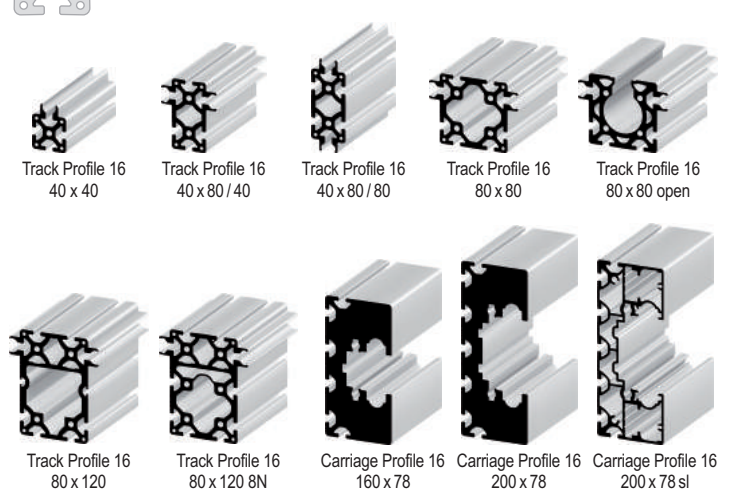
40 Tread And Step Profiles



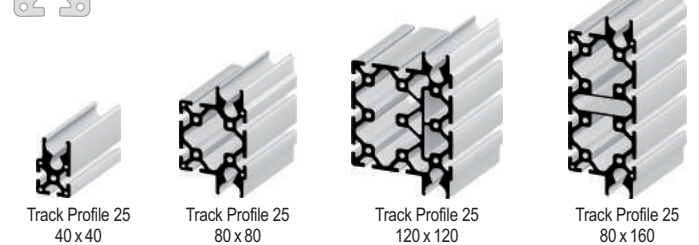
40 Angle Profiles



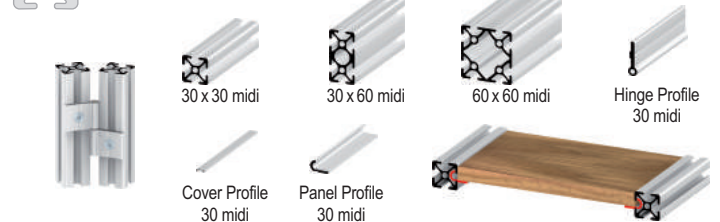
40 Profiles Linear Actuator System 16



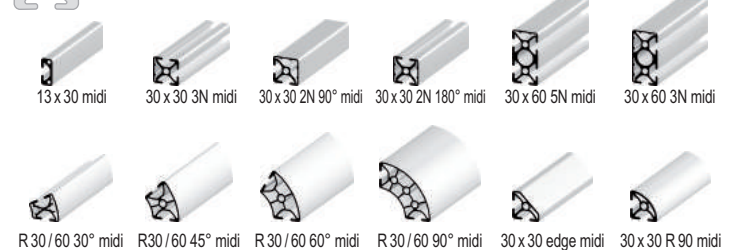
40 Track Profiles 25



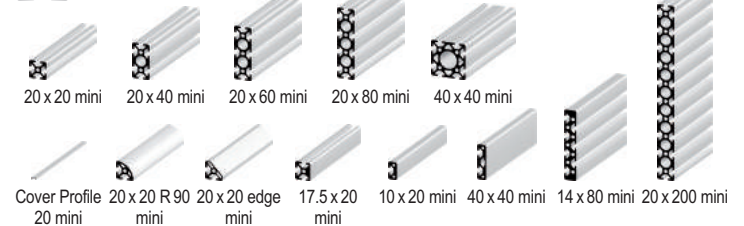
30 Profiles 30 midi

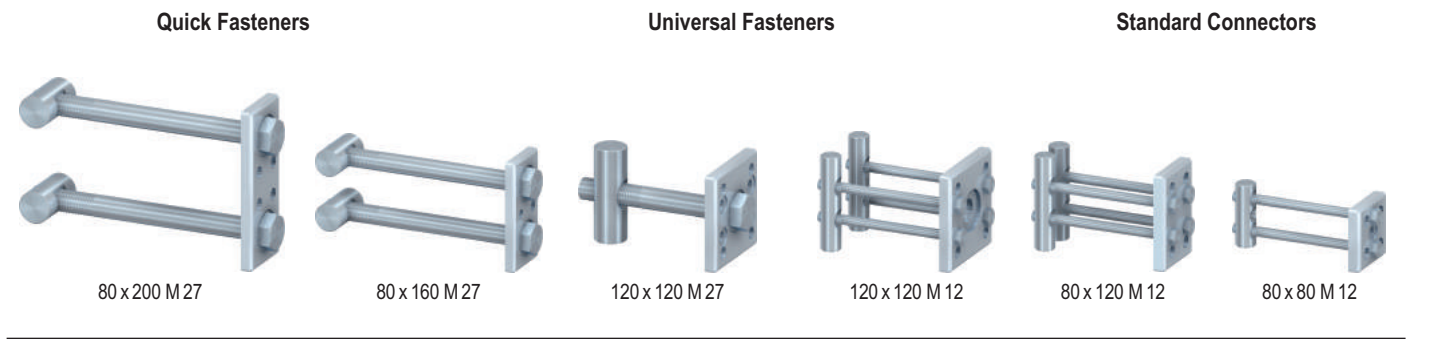
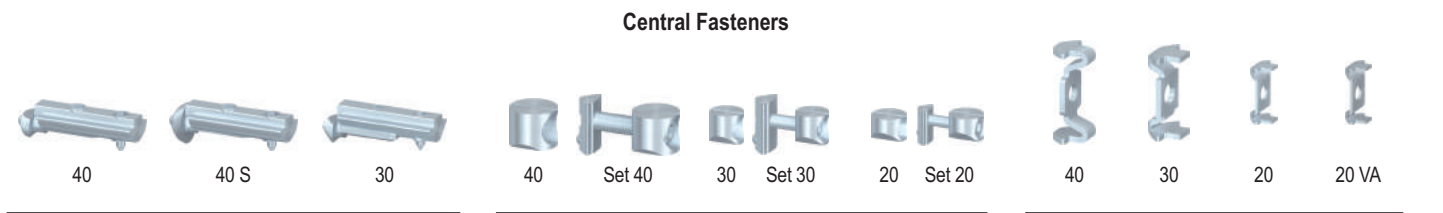
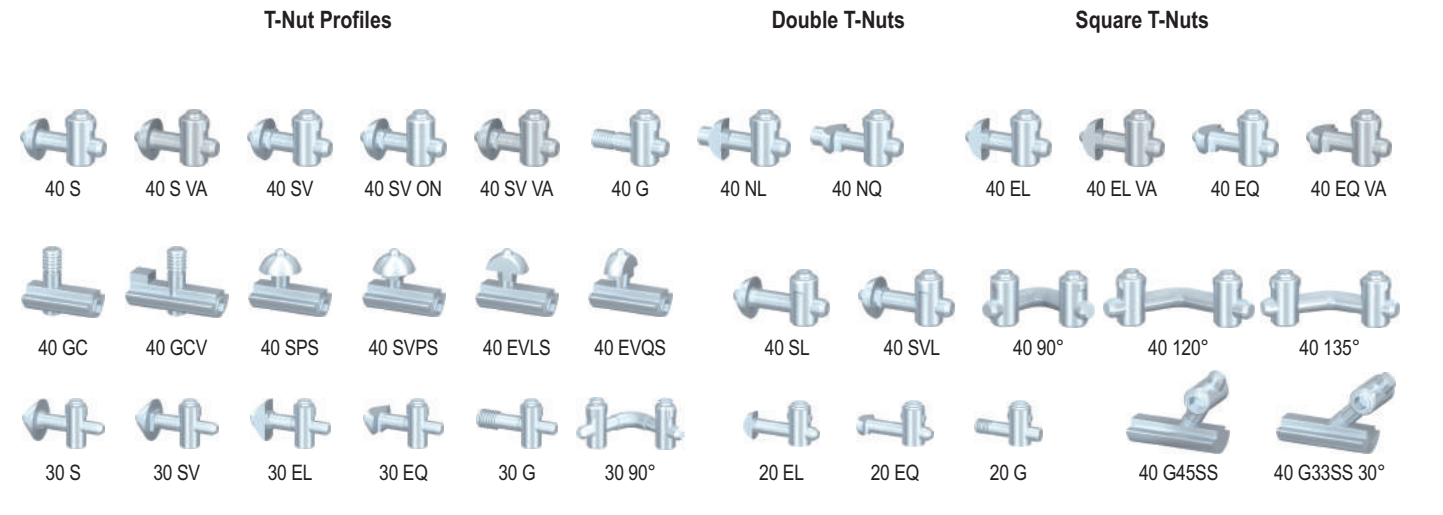
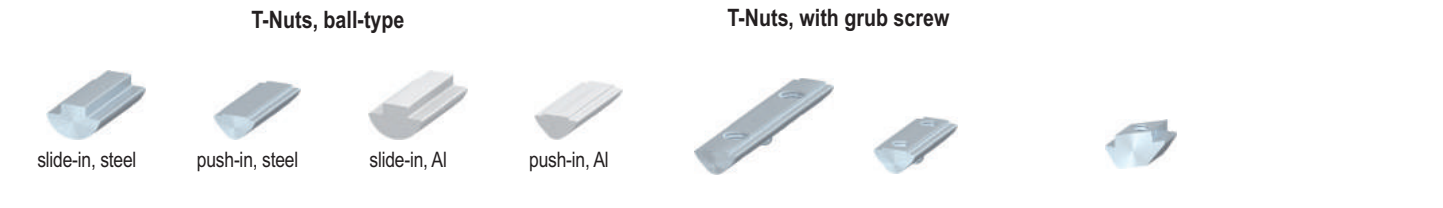
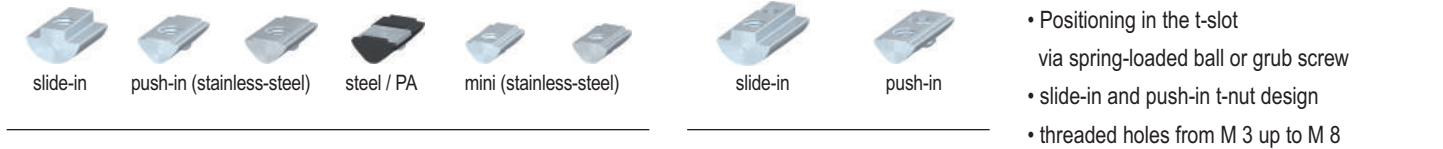
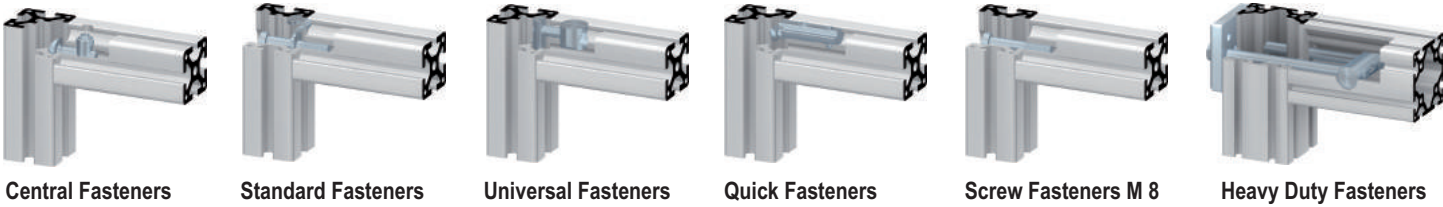


30 Closed Profiles 30 midi



20 Profiles 20







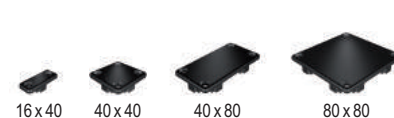
R 30 / 60 30° R 30 / 60 45° R 30 / 60 60° R 30 / 60 90°

Profile Caps 30



40 x 40 45° 40 x 40 round 40 x 40 edge

Corner Fastener Caps 40 x 40



16 x 40 40 x 40 40 x 80 80 x 80

Wiring Duct Caps



80 x 80

80 x 80 edge 7N

80 x 120

80 x 160

80 x 200

Foot Plates 80, zinc-plated



M 5 / L 41

M 8 / L 41

M 8 / L 65

Adjustable Feet Ø 29



M 8 / L 41

M 8 / L 65

M 10 / L 65

Adjustable Feet Ø 39



M 8 / L 44

M 8 / L 68

M 10 / L 68

Adjustable Feet Ø 54



Handle AI, 147 mm

Handle AI 55°

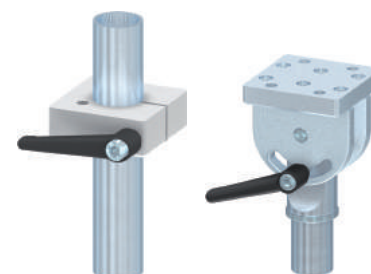
Handle PA

Handle AI, 700 mm

Handle light

Protection Wall Handle

Handles



Adjusting Elements



Corner Bracket Zn 40 x 80 (complete)



Corner Bracket Zn 40 x 40 (complete)



Element 1 45° 40 x 40



Element 1 45° 40 x 80



Corner Bracket Zn 30 x 30 (complete)



Corner Bracket Zn 20 x 20 (complete)



Element 2 45° 40 x 40



Element 2 45° 40 x 80

Corner Brackets Zn

Angle Elements



Fastener 40 x 40 45°

40 x 40 round

40 x 40 45°

40 x 40 edge

Corner Fastener Sets 40 x 40



40 x 40 (with clamp lever)

40 x 40, robust

40 x 80 (with clamp lever)

Heavy Duty Joints

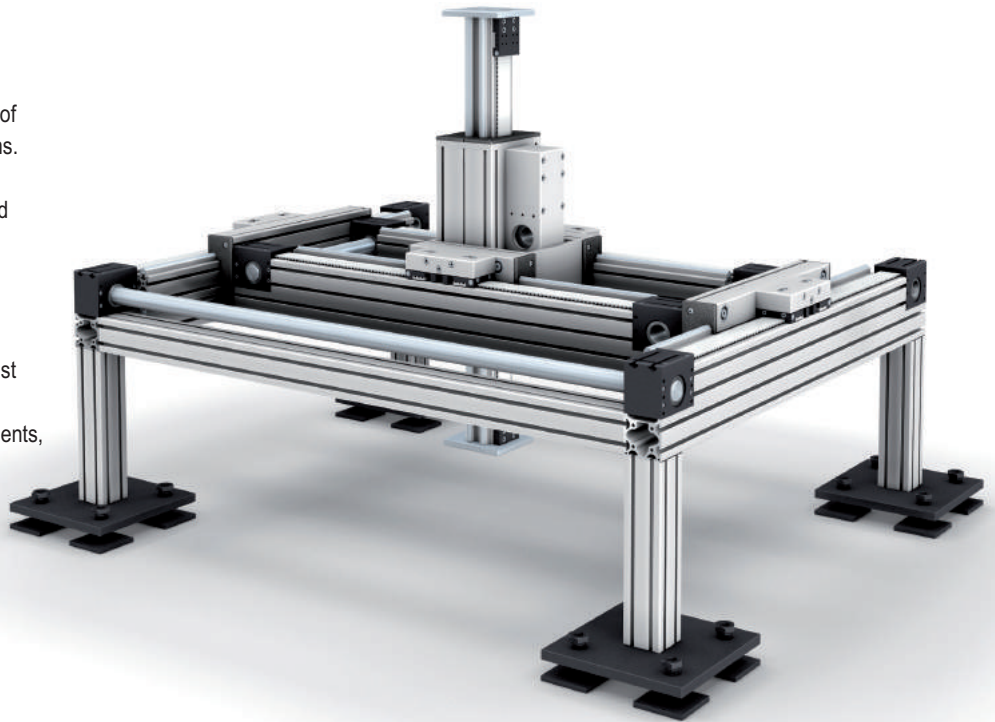


The Linear Actuator Systems

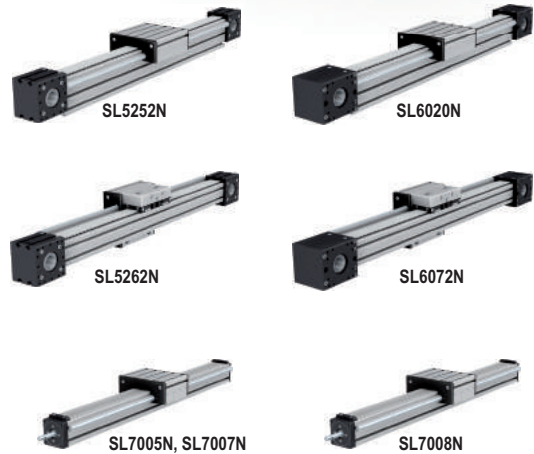
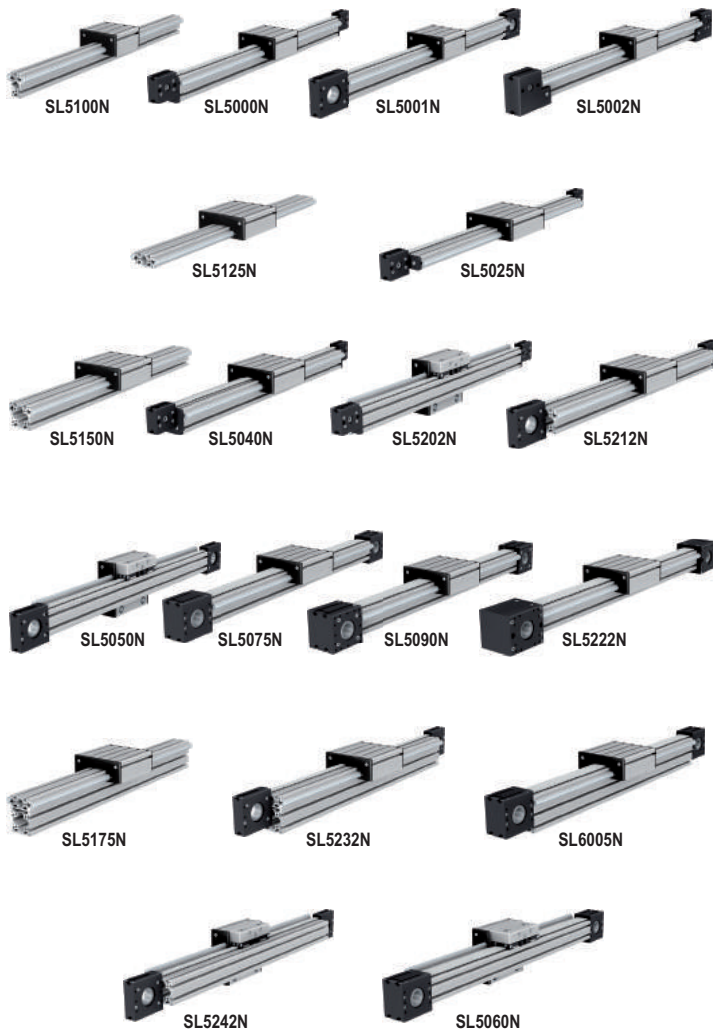
All *Paletti* linear motion systems are comprised of extruded aluminum profile track and carriage systems. Timing belts and ball bearing screws provide the transmission with a combination of electric motor and gearbox units. Pneumatic cylinders are also used to provide linear motion.

The *Paletti* modular approach allows for simple and complex systems to be manufactured to suit most customer and design requirements.

Paletti supplies individual linear motion components, single built actuators or complex multi-axis systems.



40 Linear Actuator Systems 16



Ball Bearing Screw 20 x 5, Ball Bearing Screw 20 x 20

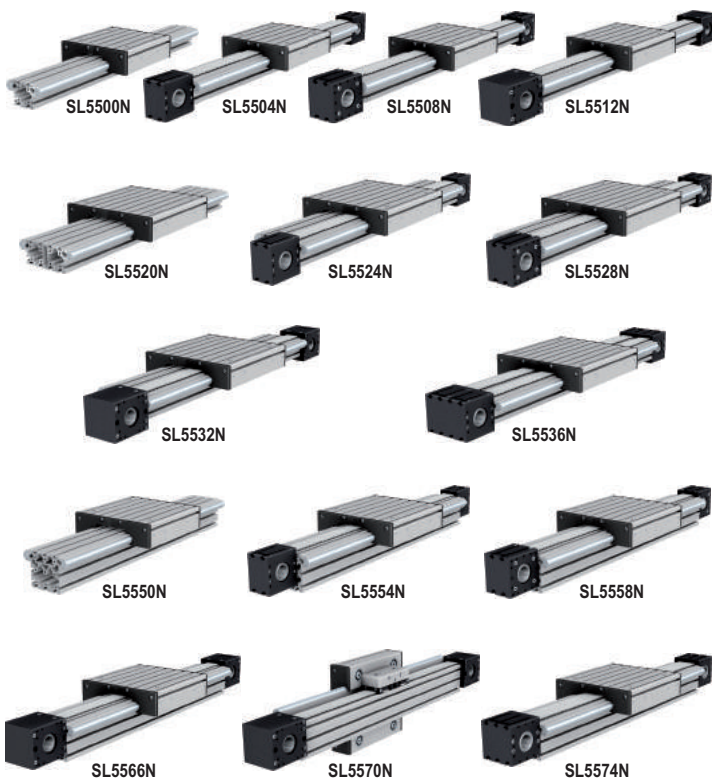
Trapezoidal Screw



40 Linear Actuator Systems 16 with Omega Drive



40 Linear Actuator Systems 25



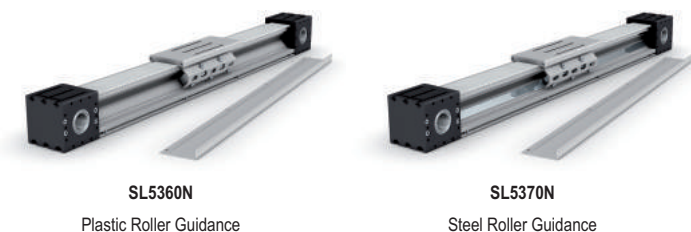
40 Internal Drive Systems



40 Internal Drive Systems 80 / 90



40 Internal Drive Systems 120 / 120



40 C-Tracks C 40 / 100

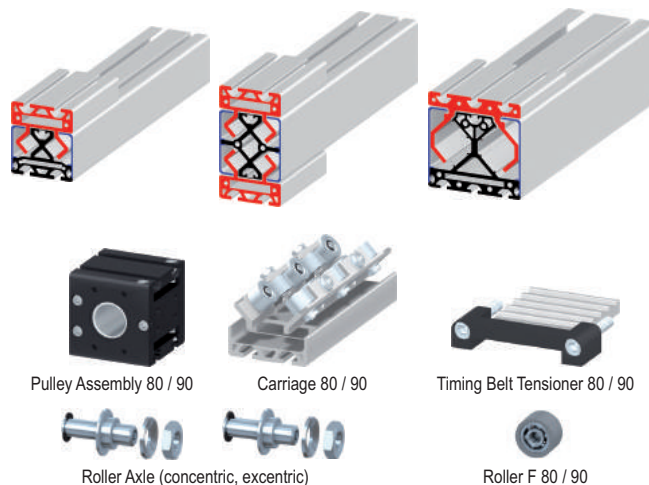


40 C-Tracks C 80 / 100

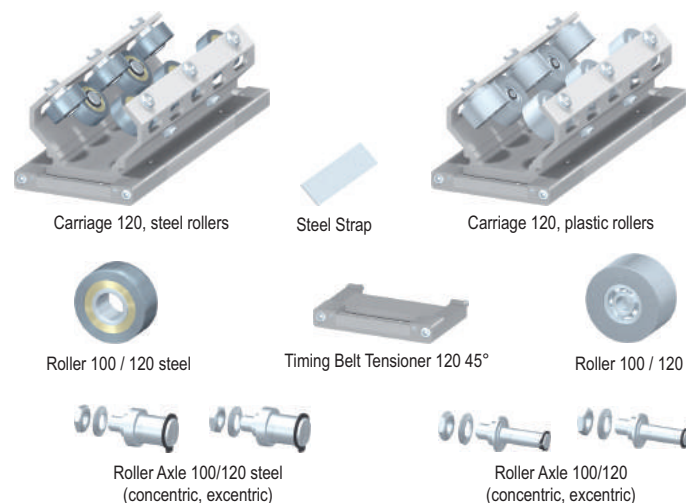


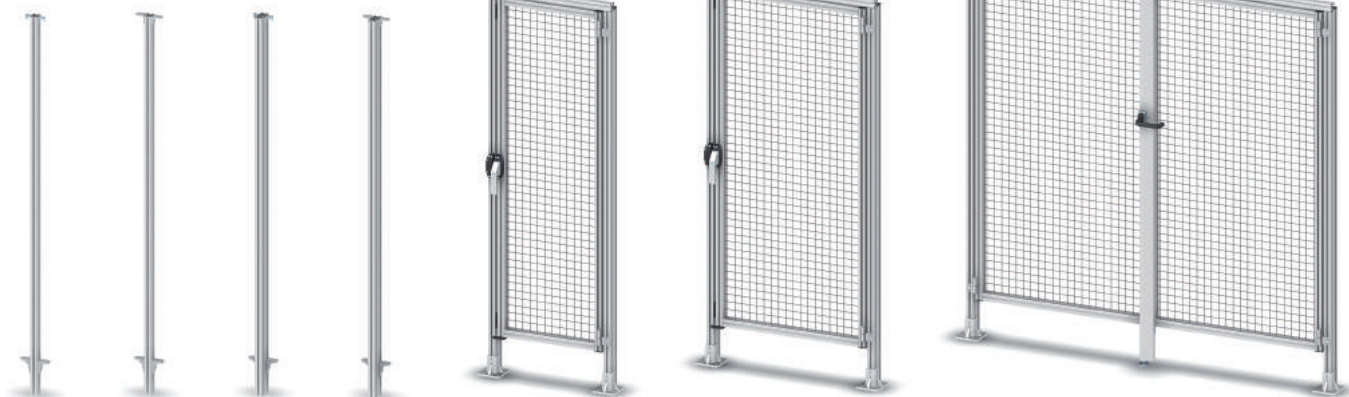
C-Track Components

Linear Actuator 80 / 90 Components



Linear Actuator 120 / 120 Components





Support Legs 40 x 40 sl Support Legs 40 x 80 sl

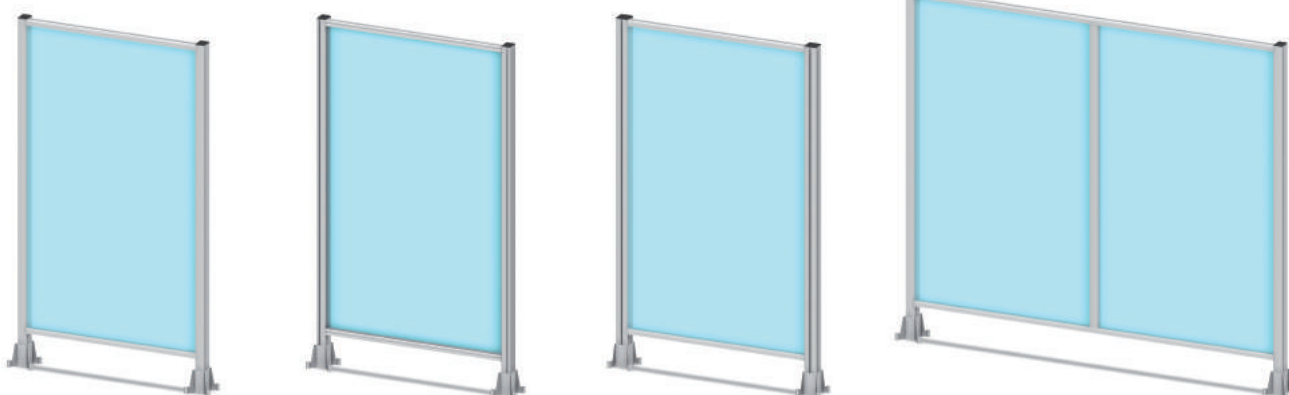
Door Kit 750

Door Kit 1000

Double Door Kit

- preassembled protection panels in standard grids: 500, 750, 1000, 1500
- preassembled support legs
- compatible to the standard program
- panel thickness: 7.8 mm

- doors and double doors with latch system
- slide doors with and without super structure
- attachment of the frame elements to the support legs occurs via an adjustable holder and an adjustable angle



Frame Element 60 x 80

Frame Element 60 x 80 5N

Frame Element 80 x 80

Double Frame Element 60 x 80



40 / 4



40 / 4 8.6



40 / 4 semi



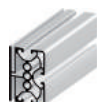
40 / 4 8.6 semi



Hinge 40 Al, natural



Locking Mechanisms



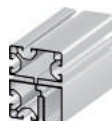
40 / 4 180°



60 x 80



60 x 80



60 x 80 5N



80 x 80



Stabilising Rollers

- for 4 mm panels
- preassembled frames in standard sizes with differing number of t-slots (3 / 5 / 6)
- preassembled support legs

- compatible to the standard program
- lockable single doors and double doors
- smooth, clean surfaces
- various applications



Door Stops



Segment Door

Laser Enclosures

- free standing laser enclosures
(no additional structural members required)
- self-supporting lengths up to 12 m
- enclosure length and width unlimited
- innovative design
- double wall structure
- four-wall construction for applications in focal range
- multiple beam systems can be combined within a wall
- corner angles can be infinitely positioned
- standard t-nuts facilitate simple installation of additional components
- automatic part insertion options without disabling laser
- laser safe exhaust vents
- specially designed hose, pipe and cable entry systems
- our system structure is patent-protected worldwide



Segment Door Profile 120 x 42.5



Segment Door Profile 120 x 66.5

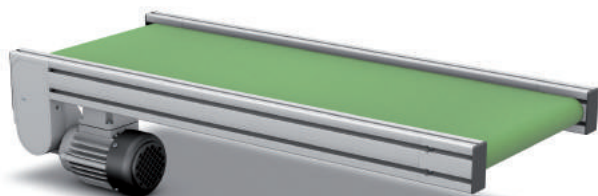
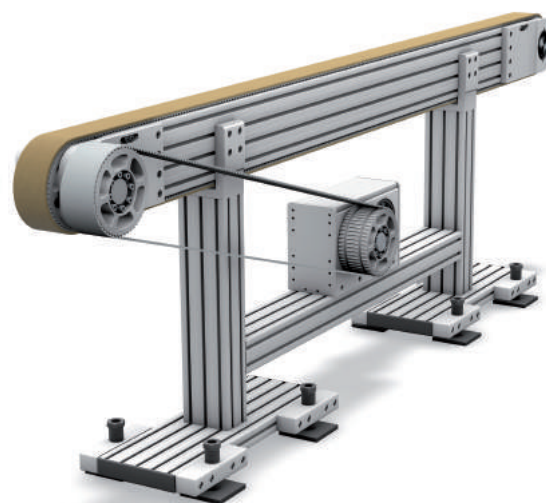
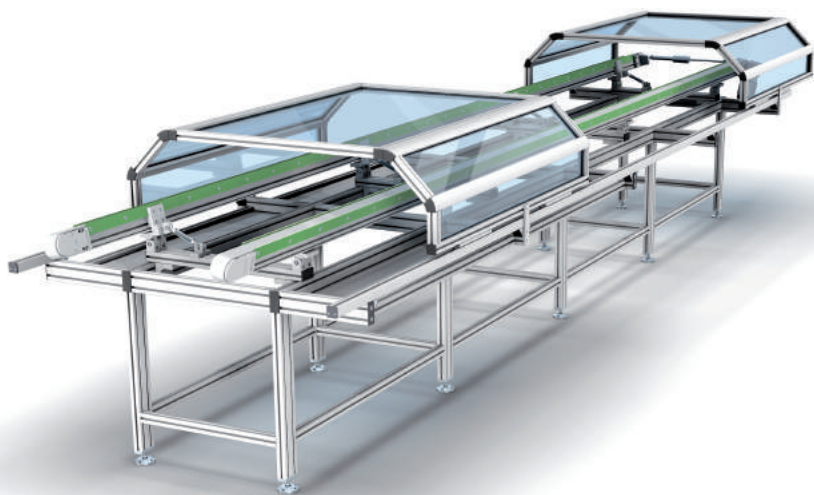


Segment Door Profile 80 x 42.5



Timing Belt Clamp Profile

Segment Door Profiles



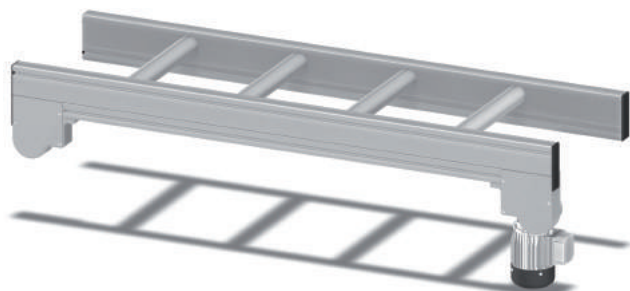
Belt Conveyor



Motor with Gearbox TD (90 W)



Motor with Gearbox TD (180 W)



Driven Roller Conveyor



Conveyor Roller



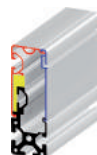
Return Roller



Idle Roller



Conveyor Belt Tensioner



Conveyor Profile



Roller Fastening Sets



Roller Protective Covers



Belt Conveyor with drum motor



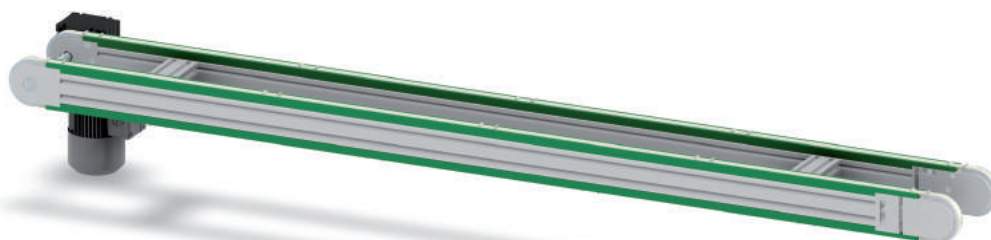
Drive Unit Attachment (left, right)



Return Unit



Return Roller Ø 85



Timing Belt Conveyor

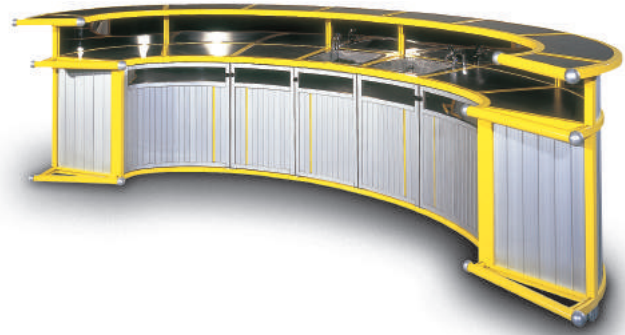
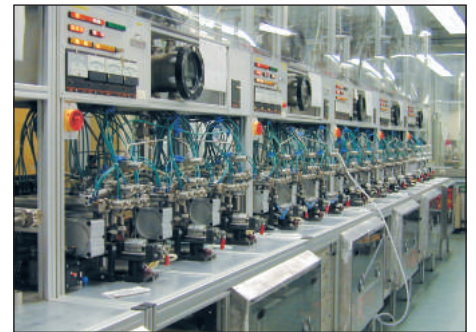


Table Profile 40



Table Corner (45°)

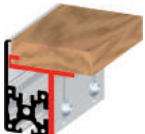


Table Profile 40 x 80



Miter Connector 40 90°



grooved



non-grooved



Support Angles



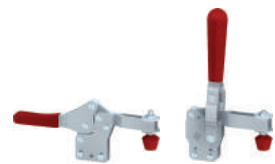
Extensions



Layshafts



Pressure Forks



Clamp Units



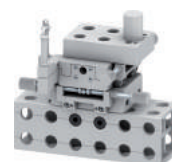
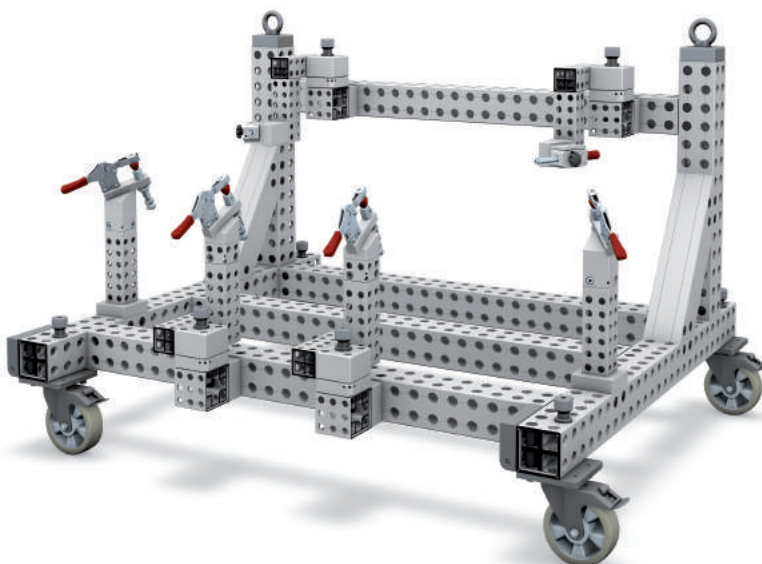
Joint Arm Systems



Double Fastener Set

Double Fastener Set,
with Positioning Element

Bolt Connection Set



Adjusting Elements



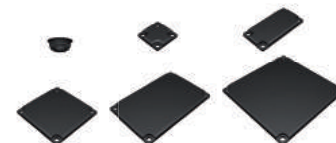
Tooling Mounting Brackets



Anchors

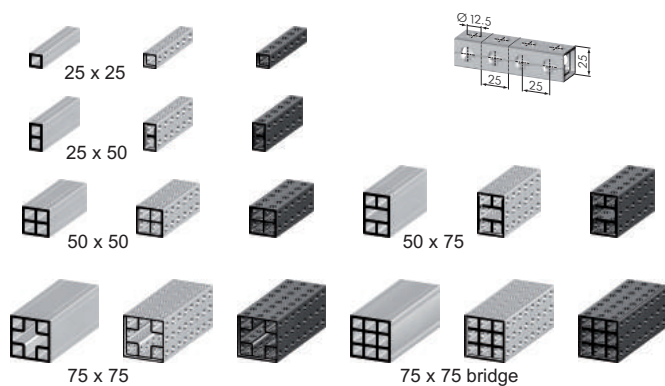


Foot Plates, with screw joint positioning

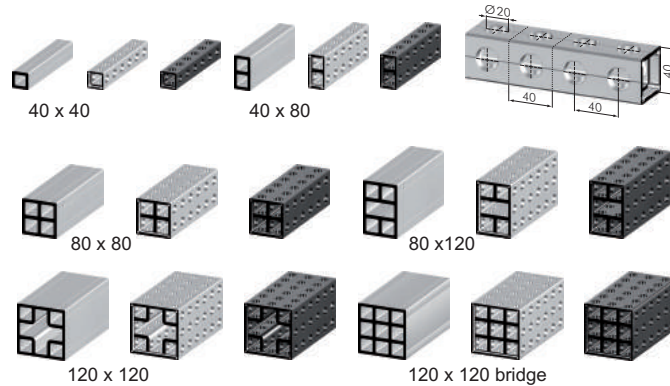


Profile End Caps

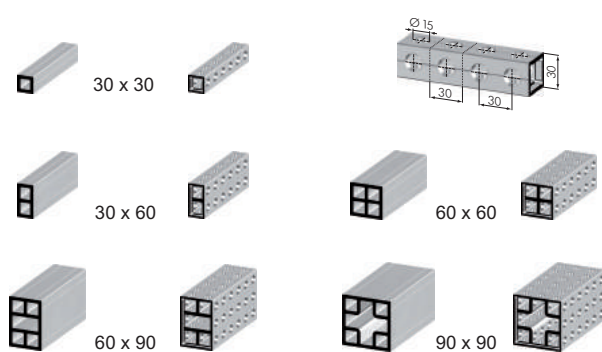
Precision Profiles 25



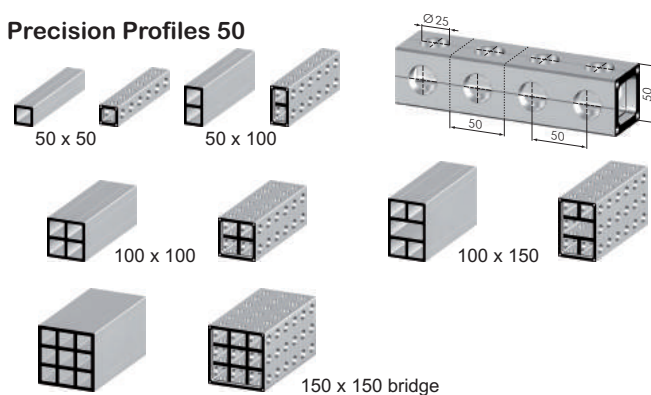
Precision Profiles 40



Precision Profiles 30



Precision Profiles 50





Office enclosure



Welding booths



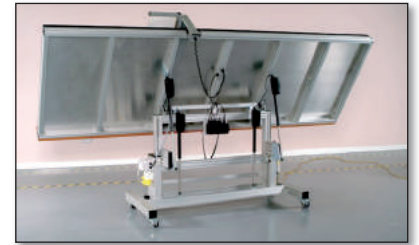
Industrial partitioning and guarding



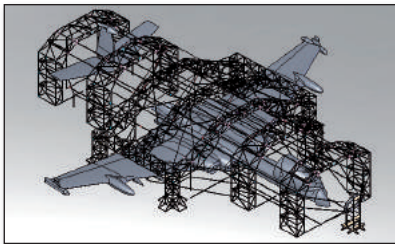
Composite assembly tooling



Shipping container for jet engines



Harness assembly board



Nimrod lightning strike framework design



JSF boom tooling



Environmental frame



Flask inspection platform



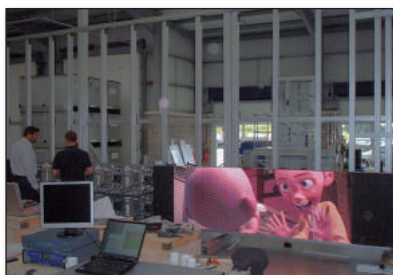
Wind screen



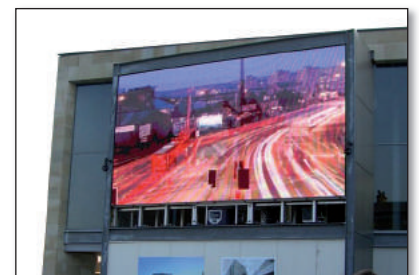
Frame



Production lines



LED support screen



LED support screen