

# Aluminum Structural

# Framing for Aerospace



# Shaping the lean workspace for aerospace manufacturing

Today's aerospace industry features a vast array of products and systems, manufactured by thousands of firms – everything from passenger seats to hydraulic and electromechanical flight systems, cockpit electronics to in-flight entertainment platforms and flight deck tow motors to landing gear and jet engines.

To keep aerospace manufacturing lean, flexible, and profitable, the aerospace “workspace” – at every tier – needs the right tools and the right environment. The right solution: Rexroth Aluminum Structural Framing.



## ASSEMBLY



For assembly lines – of electronic components, or passenger seats, or any sub-assembly – aluminum structural framing offers an excellent resource for building manual production systems or material handling and movement systems. For large-scale assembly applications, build anything from simple platforms and rolling systems to large, multi-level structures able to flex and change as major products – helicopters, satellites, aircraft – go through assembly stages.

### Benefits:

- Replace welded steel with bolt-together aluminum profiles
- Strong enough to handle heavy loads
- Durable, cost-effective components engineered for wear and tear
- Wide range of accessories lets you build nearly anything – engine stands, nacelle carts, adjustable height assembly carts and training stations.

## MATERIAL FLOW & HANDLING



Improve the flow of material, people and information with workstations, carts and other production floor tools. Build custom carts designed to deliver the right materials, in the right sizes, to specific assembly points, reducing error and rework. Flow racks and bolt-together workstations organize cell-based manufacturing so production remains precisely aligned with customer demand.

### Benefits:

- Complete set of components needed for custom lean workstations
- Build carts to move anything – from electrical components, to passenger seats, to jet engines
- No need for special tools to assemble or reconfigure structures
- Anodized aluminum provides clean, polished look, with no painting or finishing required

**SERVICE & REPAIR**



The aerospace industry has a significant service and repair aftermarket – one that also needs the right environment to be lean and productive. Cost-effective structural framing makes the perfect resource for building fuselage platforms, workstation guarding, lift platforms and display boards, so service bays and repair shops stay well organized and efficient.

**Benefits:**

- Widest range of profiles for every price point
- Easy to assemble and change – requires no special tools
- Creates clean, professional work environment – key for service operations with regular customer contact

**LEAN PRODUCTION**



Aerospace manufacturing – at both the supplier level and at final assembly – is the epitome of low-volume, high-product mix production. Rexroth structural framing helps you stay lean and responsive because it is engineered for easy use, assembly and changes. Plus, with so many profile types available – from 20 x 20 to 90 x 360 mm cross sections – as well as individual workstations, accessories and specialized systems (for guarding, cleanroom and manual conveyor applications), virtually every shop floor, staging area and workspace is infinitely configurable and reconfigurable.

**Benefits:**

- Ergonomic workstations improve productivity and quality
- Perfect for continuous process improvement environments
- Change configurations when production requires – no need for special tools
- Aluminum profile design lets you position anything – tool holders, signage, computer displays, work instructions and other required items – anywhere along the T-slot

**The right structure for productive aerospace manufacturing**

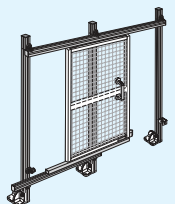
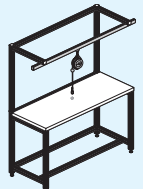
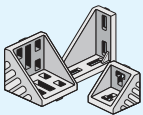
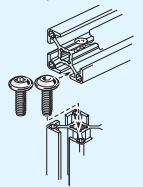
Rexroth Structural Framing gives aerospace manufacturers at every level the perfect tool to get their manufacturing operations in shape. Rexroth’s structural framing components – aluminum T-slot profiles, connectors, flow racks, workplace components, and other accessories – can cleanly, efficiently organize aerospace manufacturers’ workstations and production areas. Bolt-together structural framing lets you re-use and re-shape production floors with minimal effort, since it is engineered for fast, easy changes to meet changing manufacturing and marketplace demands.

**Aluminum Structural Framing: Everything to Build Anything**

With over 120 different profile cross-sections and hundreds of accessories and connectors, Rexroth offers the world’s largest selection of aluminum framing components. Plus, our specialty profile systems make short work of demanding applications, such as cleanrooms and perimeter guarding.

**Our offerings include:**

- Profiles/Connectors/Fasteners – precision engineered for fast assembly
- Hundreds of accessories to let you build virtually any application
- Manual Production Systems – complete ergonomic workstations and manual conveyors optimized for information, people and material flow
- Material transfer elements – including conveyors, roller profiles, and linear slides for manual material movement
- Dynamic linear elements and ecoslides
- Point, perimeter and machine guarding elements; specialty and panel mounting profiles; panel mounting, standard, bi-fold, counter balance and sliding doors – to let you enclose and guard virtually any machine



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