

Automation Components



*MovoZ
Movopart
Accuslide
Superslide
Microstage
Precision Actuators*

Conventions

- Drawings are made to European standard.
- Comma (,) instead of a point (.) is used as separator between integers and decimals (e.g. 40,5).
- All dimensions are metric unless otherwise stated. For conversion to imperial measures, please use the chart below.

To obtain	Multiply	By
inches	mm	0,0393701
feet	mm	0,00328084
inches	m	39,3701
feet	m	3,28084
lb. -force	N	0,224809
lb ft	Nm	0,737562
lb	kg	2,20462
feet/sec	m/s	3,28084

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Introduction



Large variety of models

The rodless actuator product range from Thomson Tollo are designed to provide a fast, yet accurate movement in one or multiple axes. All units are based on beams of aluminium with one or multiple integrated saddles driven by a ball screw or a belt.

The large variety of models makes it possible to select an actuator that perfectly match the demands of your application. Choose between prism guided units for quiet and smooth operation and ball guided units for low friction and high accuracy, or between ball screw driven units for high forces and belt driven units for high speeds.

All our linear drive units are also available with a broad range of accessories such as mounting kits, gears and flanges.

Modular design

Due to the modular design a few standardised components can easily be combined to create an almost infinite number of customer specific systems.

Already from the initial development our products have been designed to operate in industrial environment. For the toughest applications there are non-corrosive and chemical resistant units available.

Choice of accuracy

The actuators can be divided into two ranges of accuracy.

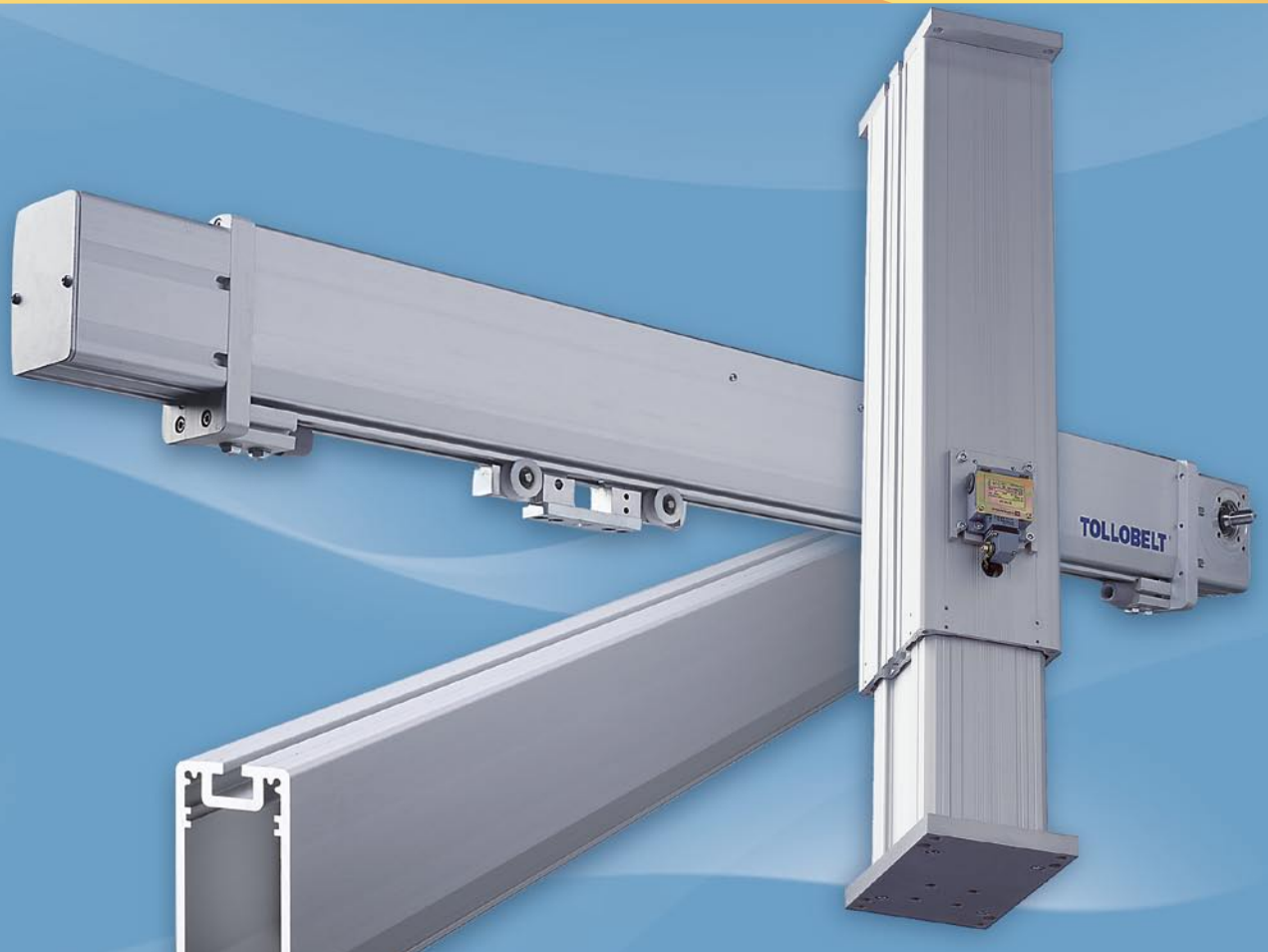
First there are the **Movopart** and **MovoZ** product families which are used in systems where the needed accuracy is down to a few tenths of a mm and the repeatability down to 0,05 mm. These units can also operate in very harsh environments.

Secondly there are the **Microstage**, **Accuslide** and **Superslide** family that manage accuracy down to a few hundreds of a mm and repeatability down to 0,01 mm. These units are perfect for machining and measuring tasks.

Typical applications

Areas where you will find rodless actuators useful are:

- In the loading and unloading of parts to and from machines, in conveyor lines, at work- and inspection stations, etc.
- In X-Y tables, printing, cutting, scanning and labelling equipment
- Circuit board production
- In pick and place applications and for palletising and packaging equipment
- Integrated in machines for internal handling of parts
- In positioning and measuring equipment
- For supervision equipment in hazardous areas.



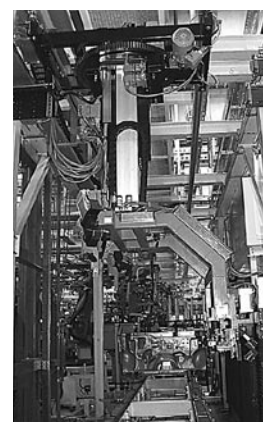
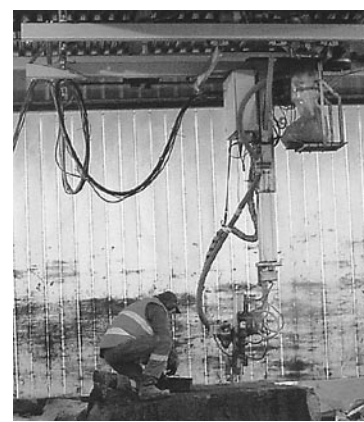
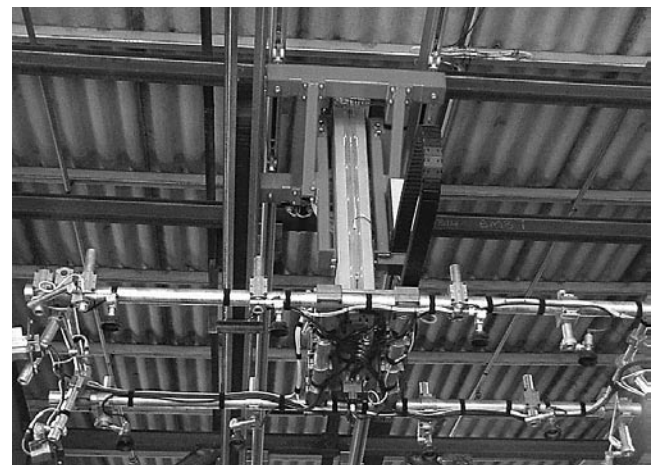
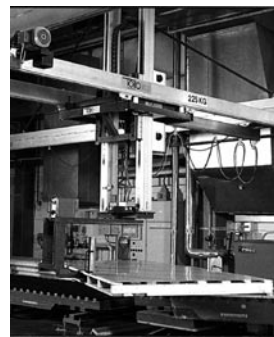
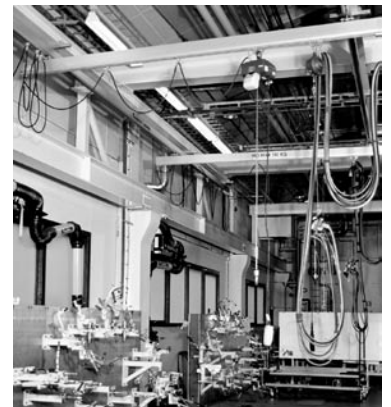
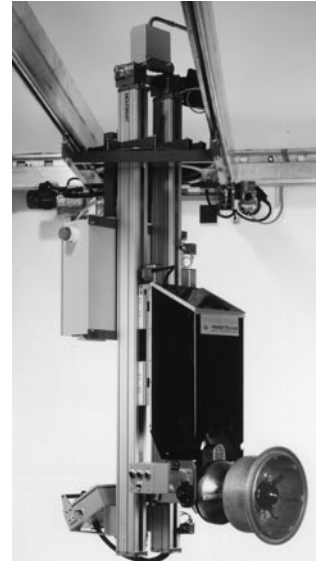
Handling Components

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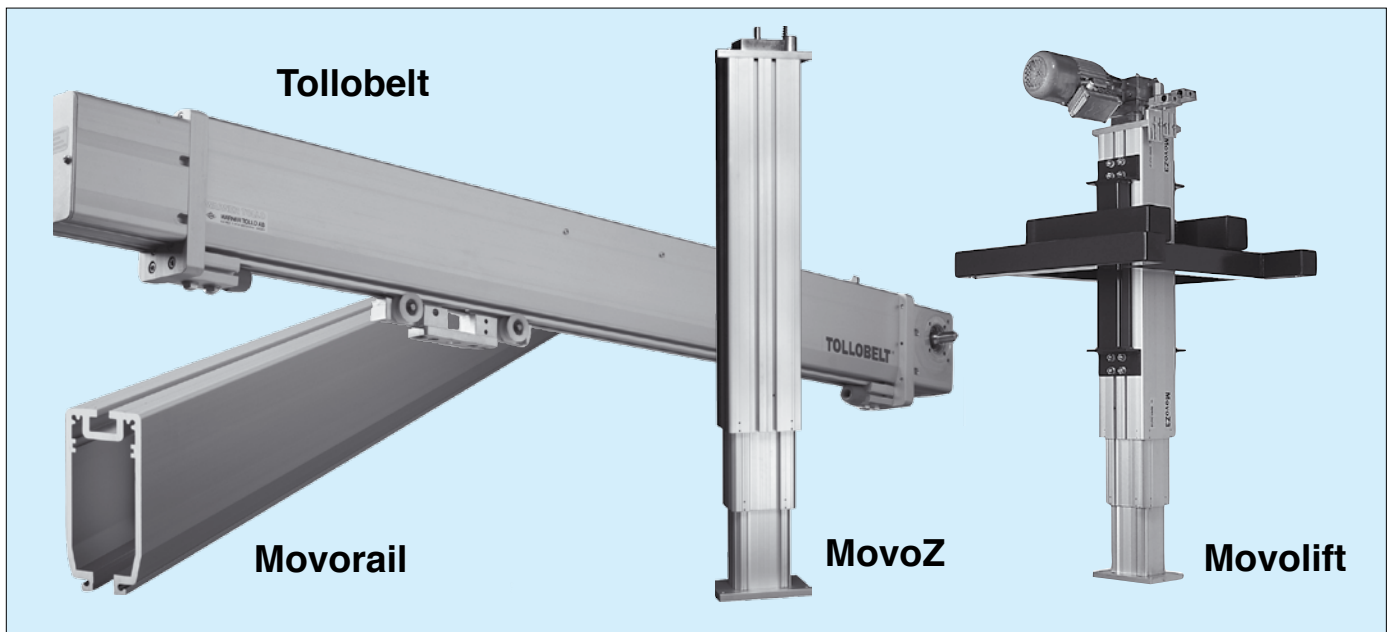
THOMSON[®]

Linear Motion. Optimized.[™]

Applications



Introduction



A complete range

The Thomson Tollo range of material handling units are designed for manual, motorised and automated equipment, in one or multiple axes, for all kinds of industrial handling applications. The range consists of:

- Movorail, an “easy to move” overhead rail system available in a number of sizes.
- Tollobelt, a belt driven high speed linear drive unit for overhead installation with strokes up to 20 meters.
- MovoZ, a series of telescopic space saving linear drive units for lifting applications.
- Movolift, a lifting unit based on MovoZ Z3 fitted with mounting frame, gearbox and motor which can be directly suspended to a Movorail or Tollobelt system.

Flexibility and versatility

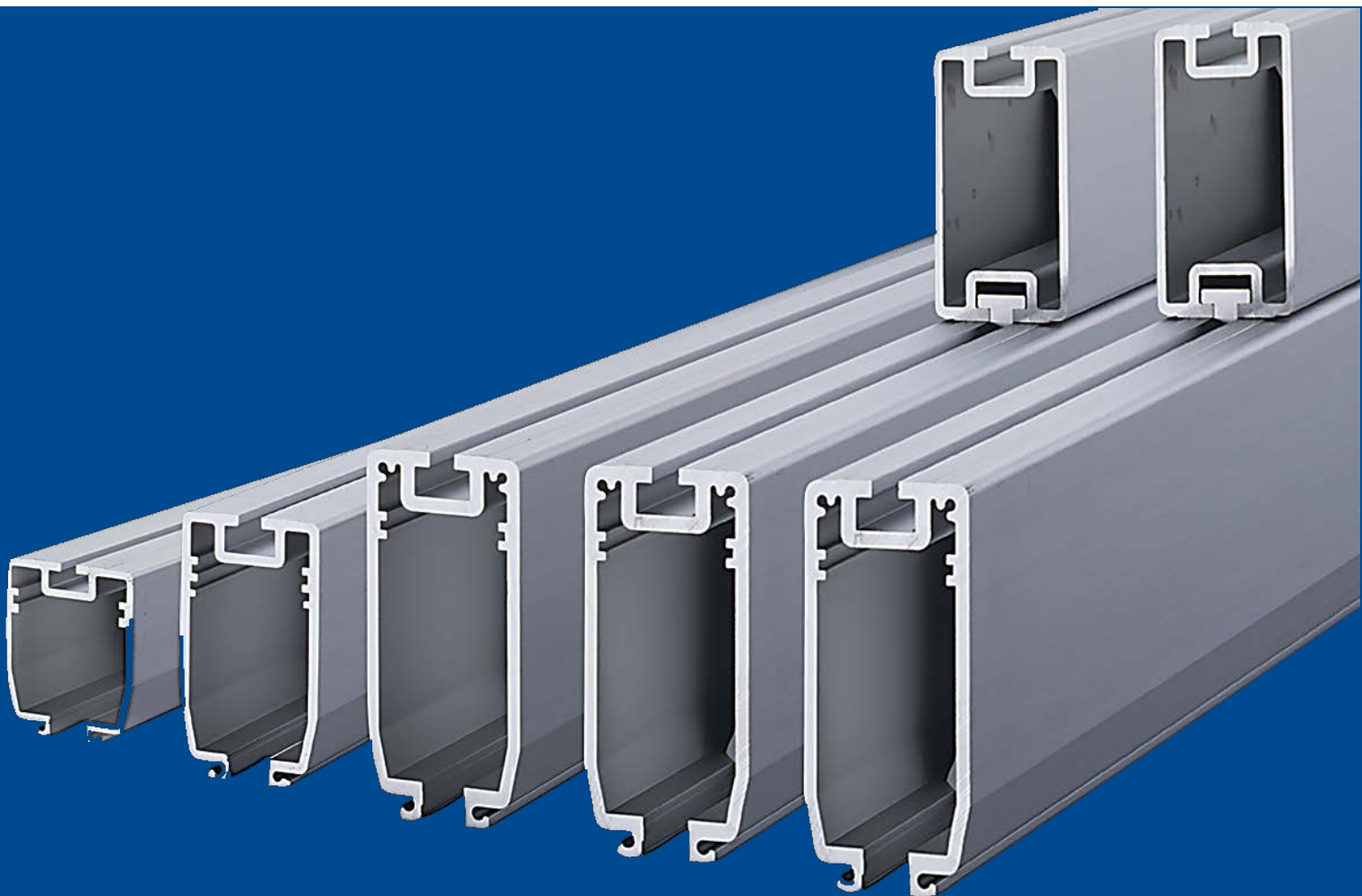
The whole range of units are based on extruded anodised aluminium profiles making them light, easy to install and resistant against corrosion and many chemicals. All units are modular in concept and come with a broad range of accessories so that they can easily be combined into an almost

infinite number of combinations. This makes it easy to design a solution for most tasks in the field of material handling as well as to re-configure an existing system so that it can be re-used in a new configuration.

Applications

Below is a small selection of all the areas where Thomson Tollo handling equipment can be useful:

- In workshop crane systems for lifting and moving objects up to 600 kg.
- In the automotive industry for the handling and the mounting of doors, hoods, wind shields, roofs, seats, dashboards, motors, wheels, etc.
- In the wood industry for the handling and mounting of boards, plates, doors, windows, etc.
- In the moving and handling of sheet metal, bricks, bags, pallets, boxes, barrels etc.
- At workstations for the suspension of electrical and pneumatic tools.



Movorail Crane Rail System

- Light-weight crane rail system
- Made of extruded anodized aluminum profiles
- Five rail sizes available
- For loads up to 600 kg
- Simple and fast to install
- Easy rolling trolleys
- Modular design
- Accessories such as switches, suspensions, current track and motor trolleys.

Introduction

For over 20 years the Thomson Movorail system has been used and proven by companies around the world and has become one of the leading light weight rail systems on the market.

The success of the Movorail system can be attributed to its highly modular design, light weight material, its simple and quick installation and the broad range of accessories which accompany the range. It's as easy to install a Movorail system as it is to move, enlarge, rebuild or rearrange one. In other words, a Movorail system is an investment that can grow and change as demands change.

This folder only highlights the Movorail range of standard components, however in addition we have years of application experience and a large network of distributors and system houses to assist you with your project.

Definitions of dimensions and directions

