DYNATECT®
DYNAMIC EQUIPMENT PROTECTION

DYNATECT.COM
sales@dynatect.com
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MACHINE ROLL-UPS

Dynamic Protection for Equipment and People

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“Bottom-Up” Travel Safety Barrier Door

Dynatect has supplied custom roll-up machine doors and curtains for over 30 years.

This custom roll-up barrier door is used for industrial machine protection and safety.

This project was for a machine retrofit to prevent falls and operator access during operation.

The safety barrier was supplied in widths of 255.5 and 58 inches. The door travel is 42 inches.

Dynatect supplied an Alumaflex roll-up cover, six-spring custom take-up roller, 1.5HP 460V 3-phase braked gearmotor, limit switches, and fabricated door frame. The door travel was ~ 6 inches/second.

⇨ **Click here for video**

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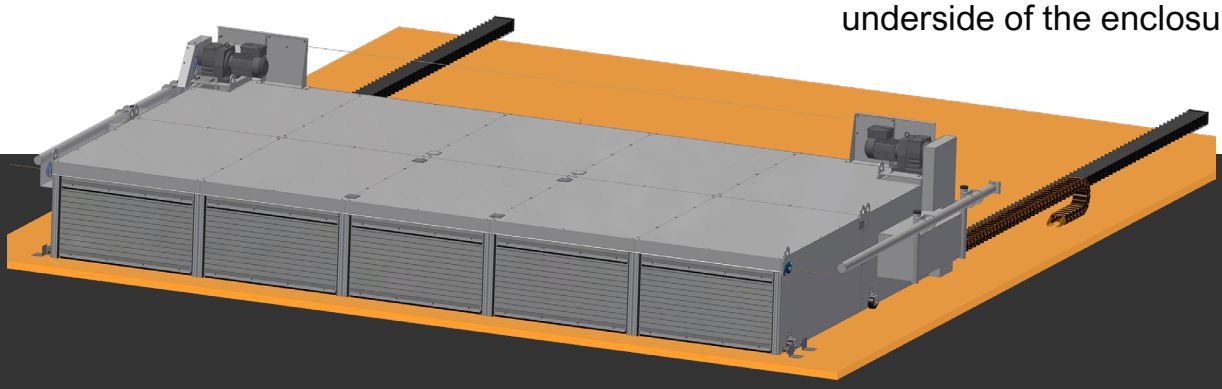
Machine Tool Garage Roll-Up Doors

Dynatect has provided 3, 4, and 5 door versions of this “tool garage” at varying depths dependent on the customer need, with the largest being 104 inches deep.

At the outset of the project, the customer provided specifications and drawings. Dynatect engineering worked closely during the design phase to ensure the motion and method of protection would be suitable for the machine tool and safe for operators. The approved design not only had vertical mounted doors, but the enclosure moved back to provide easier access to the tools.

The design and scope of supply consisted of:

- 5 Roll-up doors driven by gear motor with controls, safety switches, and transformer
- Metal work for the frame
- Rack & pinion system (cover rides back)
- Gortrac® cable carrier for communication and power cables
- Ro-Lab urethane wear strips
- Polyclutch® slip clutches to prevent overload to gearmotor & cog driven doors
- Gortite® bellows and wipers to protect rails and prevent chips from entering the underside of the enclosure



Machine Tool Changer Door & Assembly

Dynatect has the engineering and manufacturing capabilities to fabricate a complete assembly that's ready to drop into your application.

Motorized versions are available with speeds from 12-44” per second, multiple voltage options, optional controls, safety interlocks (up to PLe Cat-4), door position sensors, and LIDAR safety scanning.

Request a quote: Custom Roll-Up Machine Door RFQ

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Laser Cutting Machine Door

Overall door structure: 179.5” wide X 86.7” high

Door Width: 136”

Motorized operation or manual operation with counter-weights

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Engineered Machine Tool Door

Dynatect produces engineered roll-up door systems including all components and metalwork. Doors are used in robotic welding and automated manufacturing in the aerospace, machine tool, and automotive industry.

Dynatect's industrial roll-up doors are generally suitable for light-duty or indirect light/moderate coolant spray in machine tool applications.

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Motorized Curtains

Custom Capabilities:

- Horizontal, vertical, or bi-parting orientation
- Fabric, metal, plastic doors – with and without windows
- Manual roll-up designs available (spring roller or scroll take-up)
- Motorized versions are available with speeds from 12-44” per second, multiple voltage options, optional controls, safety interlocks (up to PLe Cat-4), door position sensors, and LIDAR safety scanning.

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Multi-Axis Enclosure for Robotic Plasma Cutter

This custom assembly is a hybrid of a machine roof cover and a motorized roll-up door. It was built to contain smoke and process hazards within a robotic plasma cutting cell. The door covers an opening that is 25 ft. wide x 15 ft. tall x 16 ft. deep.

Machine Roof Cover on Dynatect.com
YouTube Video Application Spotlight

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Laser Protection – Rigid Aluminum Barrier Door

Dynatect's customers have consistently and successfully conducted their own safety analysis and approval for each application. While customers have used Dynatect roll-up doors in laser-safe applications, Dynatect's doors may require the approval of a site LSO (laser safety officer).

⇨ Click here to learn more

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Multi-Axis Barriers & Shields

⇨ **Web Link**

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ABOUT US

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Dynatect has the industry leading reputation for engineering and manufacturing unprecedented dynamic solution that work the first time.

Solutions like these are critical in “cannot fail” applications including aerospace machining, robotic laser welding, military hospitals, drone enclosures, and more.

Dynatect makes solutions that meet the most extreme conditions including tallest, longest, fastest, coldest, hottest, outdoor, pressurized, and chemical exposure.

Dynatect also has over 75 different manufacturing capabilities to use the right construction method with the right materials to make your unique application successful.

Headquartered in New Berlin, Wisconsin, Dynatect has 9 operations facilities spread throughout United States, China, Germany, and Mexico. With deep application and material science experience, our team of 50+ engineers have developed over 370,000 unique designs of protective solutions.

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Let's Talk.

Do you have a project with challenges like the ones we've shown here?

Why Dynatect?

Dynatect (formerly A&A Manufacturing) delivers engineered motion and protection solutions for machines with deep application knowledge, diverse product offering, and a customer responsive sales philosophy.

Our commitment to you: Listen and deliver a practical and cost-effective solution

As you browse our products, consider the designs you see here as merely a starting point. We're always ready to innovate and we will customize your design whether you need just one piece or thousands. Our engineers and application specialists are keen listeners, and they understand that knowing the details of your situation is key to coming up with the perfect solution. We can draw from over 500,000 customized solutions to offer you the widest range of flexibility, backed by a unique blend of design ingenuity and support from concept through application.

Capabilities

Globally, Dynatect has over 75 different manufacturing capabilities to produce the exact right product in the most efficient way. Consider what any of these capabilities can do to help achieve application success! View the list here

Find Your Local Representative **Request a Quote**

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