

PRODUCT GUIDE



DISTRIBUTORS

MODQUIP

A division of Mechanical Equipment Group (MEG), Modquip produces in-house custom bulk material's handling solutions, assembled from locally stocked components for immediate delivery.

The innovation of the Modquip brand comes from our unique design that allows for easy conveyor assembly, which can be done with basic tools – no welding or special equipment required. This solution delivers increased productivity and unmatched durability for heavy industries.

Our team work side-by-side with industry specialists to understand the needs of a continually evolving landscapes to deliver solutions for safer, more productive workplaces. Through identifying the frustrations, the needs and the limitations. We set out to completely rethink a solution and deliver our game-changing product range.

At Modquip we are not simply a manufacturer – we are innovative problem solvers.

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BECOME A MODQUIP DEALER

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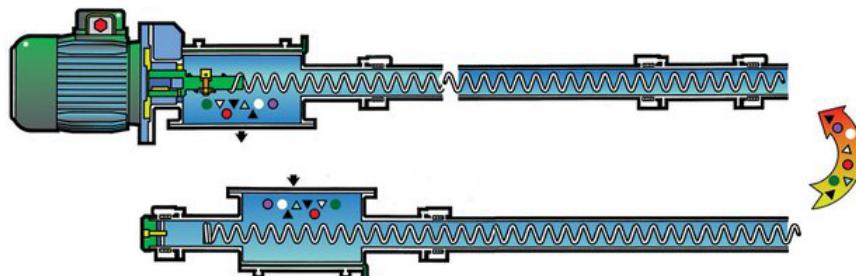


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FLEXIBLE SCREW CONVEYORS



Modquip Flexible Screw Conveyors offer a robust and adaptable solution for handling a wide range of dry bulk materials. Designed with reliability and ease of use in mind, these systems are ideal for conveying powders, granules, and blended products across various industries.



FEATURES

- ▶ Rilsan PA12 tube available in multiple diameters, with excellent resistance to torsion, vibration, and wear.
- ▶ Spiral design ensures consistent mixing while conveying, improving product uniformity.
- ▶ Operates horizontally, vertically, or at any angle—even around obstructions—for maximum installation flexibility.
- ▶ Available in carbon steel or stainless steel (including food-grade and ATEX-compliant options).
- ▶ Can connect to hoppers, weigh-filers, emptying stations, or MOR mixing systems.
- ▶ Configurable in different lengths, diameters, and setups for industries such as food, chemical, pharmaceutical, and industrial.





BENEFITS

- ▶ Ideal for conveying powders, granules and blends
- ▶ Extremely simple to install, to use and to clean
- ▶ Available with stainless steel tube for high temperature
- ▶ High-resistant tubes in Rilsan
- ▶ Spirals in stainless steel and Cr-Si with maximum resistance to torque, to vibrations and to wear and tear
- ▶ Product gets homogenous while conveying
- ▶ Suitable to cover considerable lengths and also with steep slopes

| | MODEL | INDICATIVE OUTPUT | | D | R MIN. |
|-------------|--------------|--------------------------|-----------------------------------|----------|---------------|
| | | KG/H D.A. | B.D. 0,6 KG/DM² | | |
| GR 1 | TS 5 | 300 / 500 | | 50 | 1400 |
| | TS 6 | 800 / 1300 | | 63 | 1600 |
| GR 2 | TS 7 | 2000 / 2600 | | 70 | 1800 |
| | TS 8 | 3000 / 3700 | | 80 | 2000 |
| | TS 9 | 4300 / 5200 | | 90 | 2500 |
| | TS 10 | 6000 / 7000 | | 100 | 3000 |

LOSS IN WEIGHT SYSTEMS



Modquip's Loss-In-Weight (LIW) Feeders are suitable for both small to medium feeding ranges, and offer extreme precision and flexibility in the bulk handling of solid and liquid materials.

Our LIW Feeders are commonly used for handling food products, coarse powders, pellets, granulates, fibres, glass fibres, and pharmaceutical powders. Each system is engineered to ensure accurate and consistent feeding, even with challenging materials.

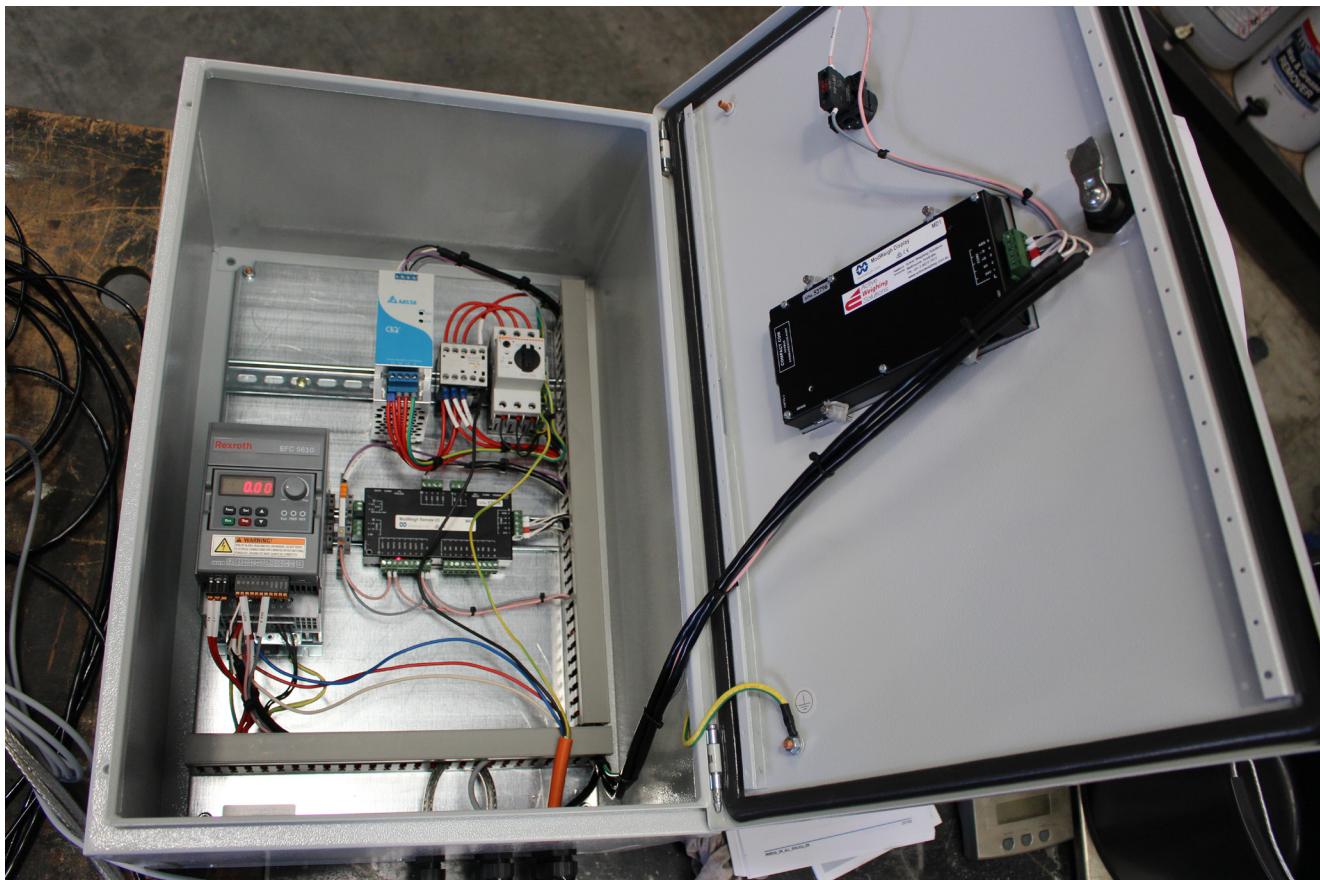
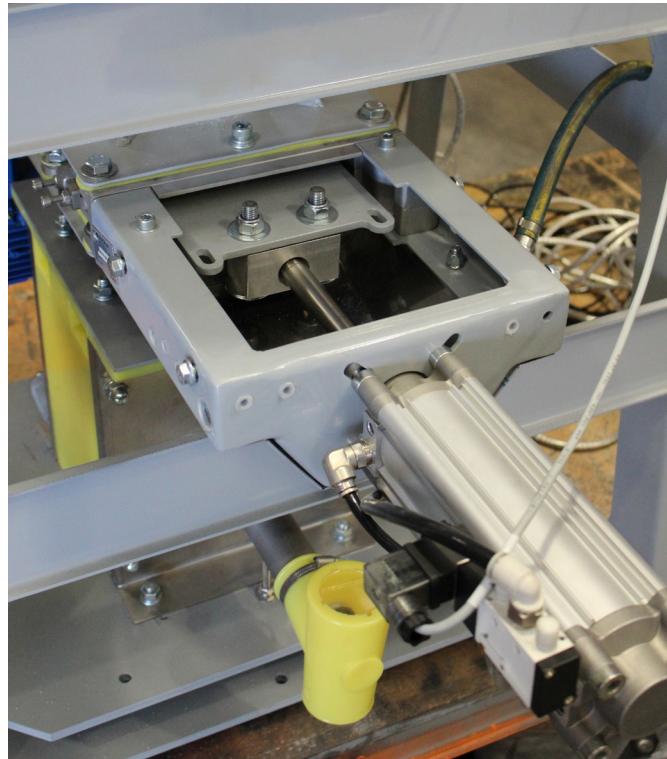
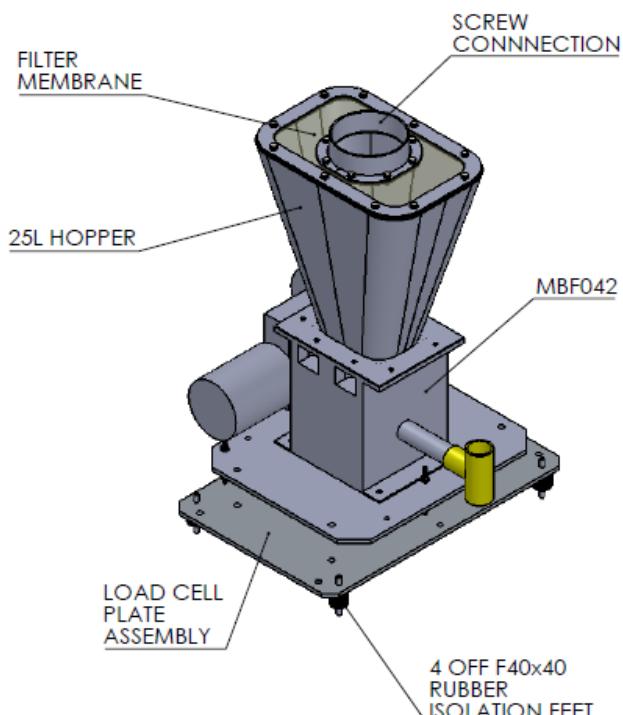


FEATURES

- ▶ Continuous real-time controlling and adjustment depending on material flow
- ▶ (DCC Loss-in-Weight Feeder)
- ▶ Feeding accuracy between 0.5 and 1.0%
- ▶ Compact system with non-stick contact surfaces manufactured from stainless steel
- ▶ Feed hoppers with different volume capacity
- ▶ Batch or Continuous versions available

BENEFITS

- ▶ Accuracies of +0.25% to +0.5%
- ▶ Quick & easy cleaning
- ▶ Maintenance-free vibration discharge
- ▶ Volumetric and gravimetric gentle weighing
- ▶ High metering accuracy



MODULAR CONVEYORS



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Modquip Conveyors are assembled from locally stocked components for immediate delivery, and are manufactured and assembled using basic tools – no welding or special equipment is required. Flat packed to minimise freight costs, they can be delivered anywhere in Australasia quickly. We offer full assembly and site installation including commissioning when required.

The conveyors can be ordered in standard widths and lengths, or special requirements are also available and designs are completed in hours.



FEATURES & BENEFITS

- ▶ All Conveyors are powder coated before assembly
- ▶ Inclination up to 33 degrees available
- ▶ Stainless Steel Conveyors available for food application and corrosive environments
- ▶ Standard Duty and Heavy Duty trough conveyor also available
- ▶ VSD Drives – Scrapers – Magnets – Diverter Chutes and many other standard additions available
- ▶ Conveyor Lengths available in 500mm increments
- ▶ Conveyors supplied flat packed for on-site assembly and economical installation
- ▶ Site installation teams available in all states

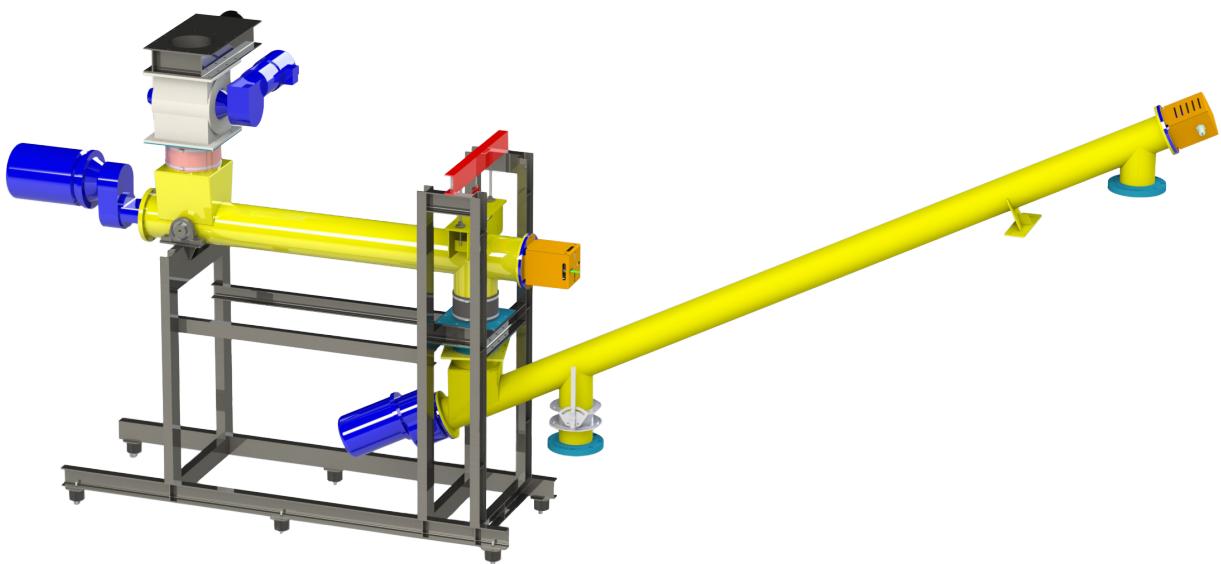




| CODE | STANDARD WIDTHS | TPH | ANGLE | HEAD DRUM DIA | RPM | STANDARD SPEED MTR/SEC |
|----------|-----------------|-----|-------|---------------|------|------------------------|
| MQPA050A | 300 | 5 | 0 | 168 | 56.8 | 0.5 |
| | | | 15 | | | |
| MQPB063B | 350 | 10 | 0 | 168 | 56.8 | 0.5 |
| | | | 15 | | | |
| MQPC063C | 450 | 20 | 0 | 219 | 65.4 | 0.75 |
| | | | 15 | | | |
| MQPD075D | 600 | 50 | 0 | 219 | 87.2 | 1 |
| | | | 15 | | | |
| MQPE080E | 750 | 75 | 0 | 273 | 70.0 | 1 |
| | | | 15 | | | |
| MQPF093F | 1000 | 125 | 0 | 323 | 59.1 | 1 |
| | | | 15 | | | |

| CODE | STANDARD CONVEYOR LENGTH (AVAILABLE UP TO 100 METRES) | | | | | |
|----------|--|--------|--------|--------|--------|--------|
| | 3M | 5M | 8M | 10M | 15M | 20M |
| MQPA050A | 0.37kW | 0.37kW | 0.37kW | 0.37kW | 0.37kW | 0.37kW |
| | 0.37kW | 0.37kW | 0.37kW | 0.37kW | 0.37kW | 0.37kW |
| MQPB063B | 0.37kW | 0.37kW | 0.37kW | 0.37kW | 0.37kW | 0.37kW |
| | 0.37kW | 0.37kW | 0.37kW | 0.55kW | 0.55kW | 0.55kW |
| MQPC063C | 0.37kW | 0.37kW | 0.37kW | 0.55kW | 0.55kW | 0.55kW |
| | 0.37kW | 0.37kW | 0.55kW | 0.75kW | 0.75kW | 1.1kW |
| MQPD075D | 0.55kW | 0.55kW | 0.55kW | 0.75kW | 0.75kW | 1.1kW |
| | 0.75kW | 0.75kW | 1.1kW | 2.2kW | 2.2kW | 3kW |
| MQPE080E | 0.55kW | 0.55kW | 0.75kW | 1.1kW | 1.1kW | 1.1kW |
| | 1.1kW | 1.1kW | 1.5kW | 3kW | 3kW | 4kW |
| MQPF093F | 0.75kW | 0.75kW | 1.1kW | 1.5kW | 1.5kW | 1.5kW |
| | 1.1kW | 1.5kW | 2.2kW | 4kW | 4kW | 5kW |

PIVOT WEIGH SCREWS



Modquip Pivot Weigh Screws (PWS) continuous weighing systems are designed for precision and efficiency and are frequently used in backfill paste plants on mining sites.

Integrated into material handling processes, this system continuously measures and monitors the flow of materials. Crafted with precision and utilising high-quality components, the Pivot Weigh Screw ensures accurate and reliable measurements.



FEATURES & BENEFITS

- **High-Quality Components:** Inquip sources and delivers top-tier parts to guarantee durability and longevity.
- **Expert Design and Manufacturing:** Modquip, utilises cutting-edge technology to design and manufacture pivot weigh screws with unmatched precision.
- **Electrical Excellence:** Automation & Control specialises in sourcing and producing state-of-the-art electrical equipment, including motor control systems and weighing systems, ensuring seamless integration and reliable operation.



Accurate performance starts with thoughtful design. Screw diameter and speed are precisely engineered to ensure optimal material loading and maximise weighing accuracy. The achievable accuracy depends on both the product characteristics and the specific application.

The Modquip system applies a constant-weight design principle to maintain the highest possible accuracy across the entire operating range.



Key Design Parameters

- ▶ Flow Rate
- ▶ Speed
- ▶ Bulk Density

Balanced w/ Physical Screw Parameters

- ▶ Diameter
- ▶ Pitch
- ▶ Fill Capacity

| TYPICAL ACCURACY | |
|--|--|
| Free Flowing Products (e.g. canola & malt) | ~±1% (Note: Malt out loading has been tested and proved at better than ±0.5%) |
| Non-Free Flowing Products (e.g. flour) | ±1 to 2% |
| Difficult Products (e.g. cement) | ±2 to 3% (Note: Cement is difficult to feed, however, if good flow control is established, ±1% can be achieved) |
| 661 | ~0 |

TYPICAL FLOW RATES

| | |
|---------------|--------|
| Malt | 100tph |
| Hydrated Lime | 6tph |
| Cement | 25tph |



**Need more information about Modquip products,
customised products and services?
Get in touch.**

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Supplier

