



EQM INDUSTRIAL
Optimising Your Equipment's Performance

Product Guide



**New Zealand's
leading food industry
equipment and
technology supplier**



Produce



Snack



Meat



Beverage



Dairy

www.eqm.co.nz

Why EQM?

At EQM we're focused on optimising your equipment's performance.

We are New Zealand's leading food industry equipment and technology supplier.

We've developed vast experience and expertise in a wide range of equipment and turnkey solutions. We stock some of the world's leading brands such as STM, ABI, DAGU, Clean-Geartech, UNITEC Group and Challenge. We have also developed our own custom materials for handling and packing line equipment.

EQM stocks a huge range of products suitable for all food processing types, from meat and dairy through to produce and snack. Our team have proven technical expertise and exceptional customer service. We won't just find you a suitable solution; we will provide you with high-quality products that will help you strive to get optimal performance while reducing operational costs where possible.

You can rely on EQM. We ensure your equipment is well maintained and if replacements are needed, we'll work fast to get one to you in quick time.

At EQM Industrial we provide the complete service

- A wide innovative product range
- Componentry or assembled products
- New technologies
- Technical helpline
- Turnkey easy-to-install packages and systems
- Extensive stock
- Guaranteed products
- Easy to use equipment
- Prompt and flexible delivery service
- Parts and service backup

EQM Service Guardian

The EQM Service Guardian is your peace of mind promise that we will keep you moving.

If you have a breakdown we promise to have you up and running and back in production as quick as we can.

The EQM Service Guardian promises:

- Installation support
- On-call equipment support & technical support
- Provision of replacement equipment or component within 24 hours
- FREE loan equipment for warranty repairs beyond 48 hours
- Service maintenance reminders
- Equipment inventory archiving – what equipment you have, maintenance records, etc
- Quick quote response



EQM to the rescue! Rapid response for your breakdowns

EQM Rescue provides rapid response that makes sure you have minimal production downtime.

EQM Rescue is easy

Just follow these 2 simple steps:

- 1** Send us 3 photos of the faulty equipment
 - a. The equipment nameplate
 - b. A close up of the equipment
 - c. A wide photo of where the equipment is situated
- 2** Email to rescue@eqm.co.nz

We will then call you with our best solution and a plan on how to get it quickly installed for you that same day.

Note: This service is available during business hours Monday - Friday 7am - 5pm, but don't fret we have an after hours service – phone 0800 147 847 which transfers to our afterhours personnel.

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EQM Industrial Product Brochure

Effective 1 July 2018. Products may on occasion differ slightly from literature and photographs. EQM Industrial reserves the right to incorporate product changes and improvements without prior notice.

EQM DRIVE

Stainless Steel Gearboxes & Motors

STM Worm Gearboxes – Standard Range

STM Helical, Bevel & Planetary Gearboxes

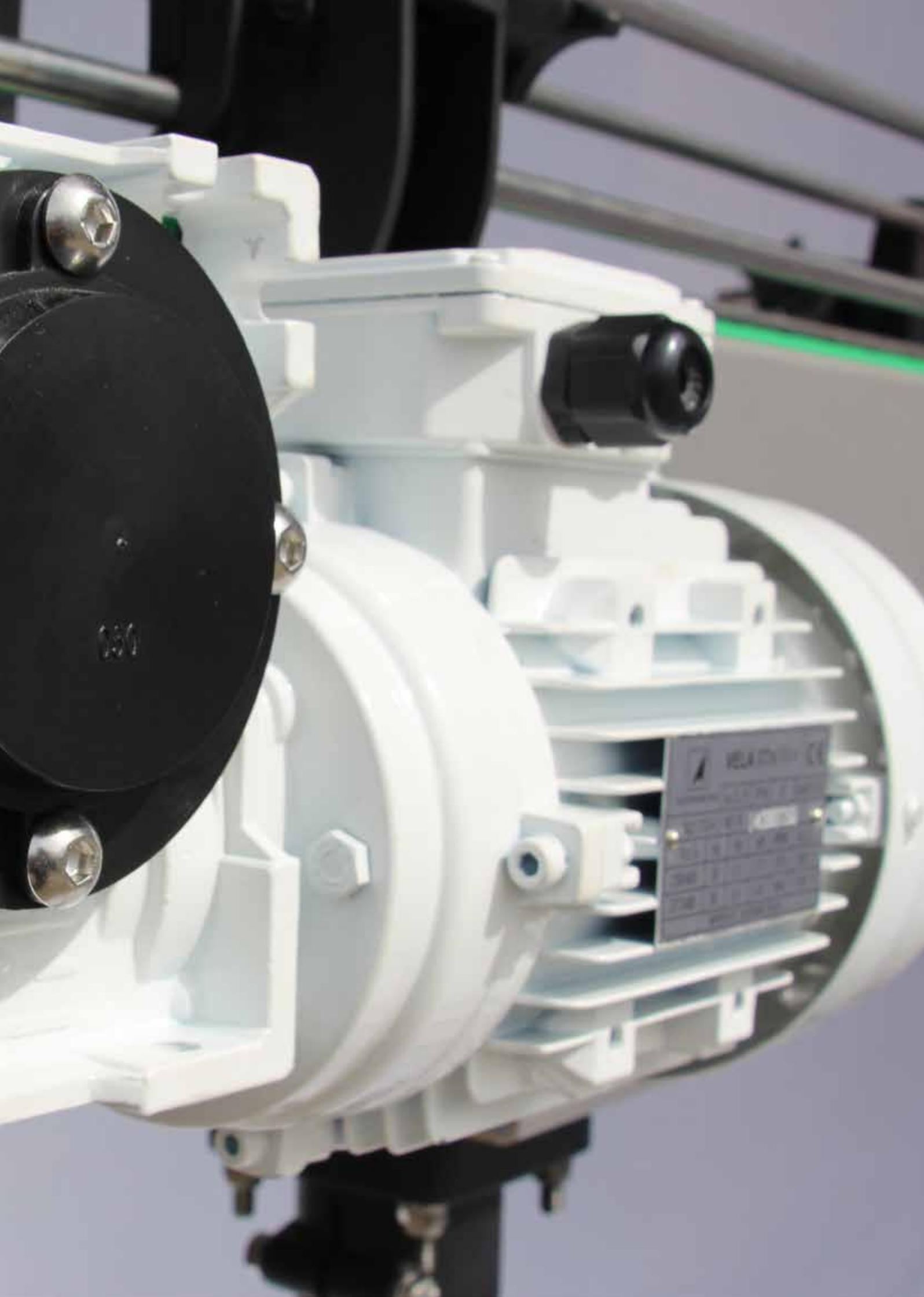
Electric Motors

Low Voltage Battery Powered Motors

Speed Controllers

Bearings & Housings





Stainless Steel Gearboxes & Motors

CLEAN-GEARTECH

When it comes to stainless steel gearboxes and motors for the food industry, EQM offers the widest range, backed by expert knowledge and superior customer support.



Food safety is always under the spotlight and stainless steel doesn't harbour bacteria. The equipment is more hard wearing and can withstand humidity, moisture and corrosion. In essence, stainless steel gearboxes and motors lift the performance of the entire production process.

Why Stainless?

- Eliminates hygiene issues
- Less maintenance downtime
- Reliable performance
- Perfect for harsh environments
- Longer lasting
- Sleek design profile

Suitable for

- Meat
- Poultry
- Dairy
- Seafood
- Petfood
- Confectionery

Clean-Geartech Stainless Steel Worm Gearboxes

- Twin viton seals with stainless steel shield; IP69K certified
- Output shaft AISI 316L
- 100% factory pressure leak tested
- Input coupling for effective torque transmissions



Clean-Geartech Stainless Steel Helical Bevel Gearboxes

- Bevel gears for high efficiency
- Smooth stainless steel housing
- Fully modular IEC flanges and couplings
- AISI 316L stainless steel hollow output shaft. Twin viton seals with stainless steel shield IP69K certified



Clean-Geartech Aluminium Worm Gearboxes

- Twin viton seals with stainless steel shield; IP69K certified
- NTT – special surface treatment that results in modified external properties of the aluminium body.
- Hollow output shaft in AISI 316L stainless steel
- Special smooth surface housing



CASE STUDY:

Like great cheese that gets better with age, the same can be said for long-lasting stainless steel gear drives that have been used at a dairy plant.

EQM installed a stainless steel gear drive to stir a starter fermentation pot used in the process of making cheese.

The plant produces tonnes of cheese every day and the gear drives used to stir the starter pot can work up to 24 hours a day, 7 days a week.

Cheese is the most complex of the dairy products, involving

chemical, biochemical and microbiological processes.

In cheese-making, the “starter” is a culture of carefully selected lactic acid-producing bacteria.

Aluminum gear drives would only last about eight months of heavy use and a better performing alternative was needed.

“We decided to try stainless steel drives and the results have been really good.”

For more case studies visit www.eqm.co.nz/projects/



Examples of use



Metal detector at petfood processing plant



Conveyor at fish processing plant



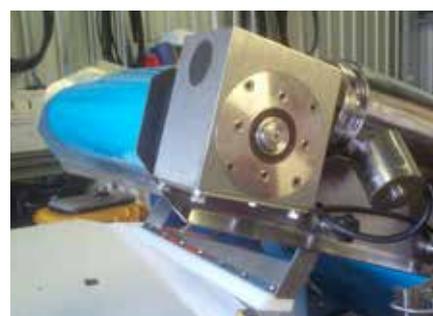
Mixer at confectionery plant



Chicken plucker at poultry processing plant



Stainless gear drive and motor at small goods facility



Washdown conveyor drive

ALSO AVAILABLE



Clean-Geartech IP69K
Stainless Steel Motor



ABI IP69K
Stainless Steel Gear Drive



Up to 7.5 kW
EQM iSeries IP67
Stainless Steel Motor



Clean-Geartech Stainless Steel
Pre-Stage Gearboxes

STM Worm Gearboxes – Standard Range



Thanks to its flexibility in application, STM's standard range of gearboxes provides the best value for money. STM's UMI and RMI Series are the most adaptable and create improved contact between surfaces. These gearboxes offer superior performance with reduced operating noise.

Why STM Standard?

- Modular design
- Wide range of sizes and ratios
- Universal and standard mounting
- Patented input coupling design
- Full range of accessories
- Superior gear componentry
- Suitable for small/medium workloads
- Interchangeable with other brands

Suitable for

- Wide range of food processing systems
- Driving conveyor systems
- Mixers and agitator processes
- Mobile plant equipment
- Materials handling
- Any automation

Square Universal Mount Worm Gearboxes

– UMI Series

- Sizes 40–110
- Ratio 7:1–100:1
- Hollow shafts
18 mm–42 mm



Round Worm Gearboxes

– RMI Series

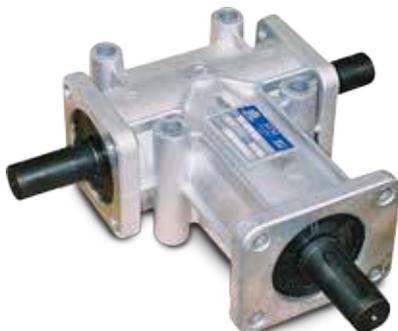
- Sizes 28–180
- Ratio 7:1–100:1
- Hollow shafts
14 mm–65 mm



Bevel Right Angle Gearboxes

– Z & ZL Series

- Z Sizes 12–75
- ZL Sizes 331–434



Helical Worm Gearboxes

– CB Series

- Sizes 40–10
- Ratio 43:1–460:1
- Two-stage gears
- Hollow shafts
19 mm–42 mm



CONFIGURATOR

Add STM to your design drawings. Visit www.eqm.co.nz/stmconfigurator

CASE STUDY:



A fruit marketing company at the forefront of innovation turned to EQM when it was looking for the right equipment to drive their leading-edge packing system.

The company is the first to market apples in a handy tube.

EQM supplied gear drives and conveyor components for the unique tube packing system, which is exported to supermarkets throughout the world.

The facility has several rotary tables at the end of its packing lanes, which are driven by a combination of STM UMI & RMI Series gearboxes.

The UMI & RMI series of gear boxes have been developed to cut down on maintenance and therefore minimise production downtime. The outer gear case is to industry standard dimensions, but the real benefit and where they stand apart is in the use of a non-corrosive input coupling bush.

This system, which connects the electric motor to the gearbox, prevents fretting of the key way, vibration and also corrosion caused by environmental conditions such as moisture.

The UMI series comes with many accessories including output flanges, torque arms, and single or double output shafts, while



the STM RMI Series of worm gearboxes is popular among companies within the food processing sector.

RMI gearboxes are often used on conveyor systems and packaging equipment, such as rotary tables.

For more case studies visit www.eqm.co.nz/projects/

Examples of use



Elevating Belt Conveyor Drive



Mixer Drive



Juicer Infeed Drive



BDR Conveyor Drive



Rotary Platform Drive



Rotary Table Drive

ALSO AVAILABLE/OPTIONS



Your choice of colour



Epoxy coated options



Torque Limiters



Combinations for high ratios

STM Helical, Bevel & Planetary Gearboxes



When it comes to selecting the right gearbox, it's important to eliminate the guesswork. If you guess what's the best and it doesn't give optimal performance, it could become a costly exercise. STM is one of the largest Italian manufacturers of gearboxes and is regarded for its quality and wide range.

Why STM Hightech?

- More efficient
- Large range of size and ratios
- Interchanges with other brands
- Standard IEC motor mounting
- Hardened gears for longer life
- Suited to medium to heavy workloads
- Hollow and solid outputs
- Quieter operation
- Runs cool

Suitable for

- Pumps and drives
- Medium to heavy duty conveyors
- Any range of food processing equipment
- Auger drives
- Heavy duty applications
- Drive rotary valves

Shaft Mounted Helical Inline

– P Series

- Sizes 63-190
- Ratio 2.6:1-278.1:1
- Hollow shafts 25-80mm



– PL Series

- Sizes 25-135
- Ratio 17.2:1-1101:1
- Hollow shafts 20-100mm



Helical Inline

– AM Series

- Sizes 25-120
- Ratio 1.2:1 - 277.3:1



Skew Axis

– SM Series

- Sizes 25-45
- Ratio 8:1-148.8:1
- Hollow shafts 19, 25, 30mm



Planetary

– EX Series

- Large model selection
- Demand for high torque loads
- Efficient



Bevel Helical

– OM Series

- Sizes 63-190
- Large Ratio range
- Hollow shafts 25-80mm



Pre-stage Helical

– M Series

- Sizes M63, M71 & M80
- Ratio 5.3:1
- Output shafts 11, 14 & 19mm



CONFIGURATOR

Add STM to your design drawings. Visit www.eqm.co.nz/stmconfigurator

CASE STUDY:



One of New Zealand's largest apple packing companies has supercharged its apple sizing/grading equipment with a drive upgrade.

The apple packhouse previously relied on one hard-working gear drive; however, wear and tear and its requirement to work constantly put the gear drive under immense pressure to perform.

The sizer, which takes apples across a weighbridge and sorts and sizes them into lanes, was required to move more and more apples at a faster rate and therefore the gear drive was working really hard, and it was just a matter of time before it gave way again.

We recommended a gear drive from the STM range, which had the same footprint and shaft sizes so that the sizer wouldn't need any engineering modifications to fit it.

EQM analysed the different speeds the sizer needed to operate at and calculated the optimum ratio that would deliver the greatest efficiency and torque out of this size gearbox and motor, taking into account that it was being operated by a variable speed drive.

An STM AMP 100/2 in-line gearbox fitted with an 11 kW motor was specified.

The benefits are all delivered in reliability as the bigger motor operates at optimum speed with a stronger gearbox that runs a lot cooler under pressure.

"A tissue, a tissue, we all fall down" is not what a tissue manufacturer ever wants to experience.

The company converts paper into toilet and tissue paper and they were on the search for a back up STM planetary gearbox, should a break down happen.



In sourcing the right kit we used a photo of the nameplate, which had codes, serial numbers and type. We then sourced the exact identical gearbox with the correct mounting flanges, shaft sizes and type, ratios and input arrangements.

Not only were we able to get the right gear box but to provide absolute peace of mind for our customer, we were able to extract further important information about the gearbox, ensuring that there would always be a ready replacement.

For more case studies visit www.eqm.co.nz/projects/

Examples of use



UMI Gearboxes on shredding machine



CB Gearbox on pallet turntable



EX Gearbox on Stratosfear ride, Rainbow's End



SM Gearbox on capiscum sorter



AMP and AM Gearbox with brake motor



OM Gearbox on bark stick belt

ALSO AVAILABLE



Quick Lock Gearboxes



Mechanical Speed Variators



Parallel Shaft and Bevel Helical Gearboxes

Electric Motors

EQM will have the optimum electric motor to drive your food processing facility. Our range of STM, Vela, Clean-Geartech and CMG motors are efficient and high performing. Motors are either cast iron, aluminium or stainless steel.

Why Electric Motors?

- Highly efficient
- Robust design
- Extended warranty
- Standard IEC frame sizes
- High IP rating

Suitable for

- Operating in high humidity and sub-zero conditions
- 24/7 operation
- Matches wide range of gearboxes
- Any industry

Clean-Geartech iP69k Stainless Steel Motor

- Cylindrical housing without welds
- End terminal box with o-rings
- Stainless steel hygiene cable gland
- Completely smooth surface



Clean-Geartech iP69k Aluminium Premium Motor

- Hi-cleaning nano treatment
- Resistant to major aggressive sanitizers
- Completely smooth surfaces



1 & 3 Phase Electric Motors STM/VELA Series



- 1 and 3 Phase Electric Motor
- Foot and flange mounted
- B5, B14, B3 mounting

Aluminium and Cast Iron Electric Motors CMG Series



- 2, 4, 6 pole
- Power range is 0.75 kW–160 kW
- Unique multi-mount design

CASE STUDY:

Don't ever get caught on the hop.

That was what a lime manufacturer wanted to ensure with the processing of lime from a quarry. The company uses hoppers with rotary valves and needed an efficient and highly reliable gear drive to open and close the valves at a consistent pace day in, day out.

With a limited install time frame and being a critical link in the process, what was immediately available in gear drives that didn't compromise reliability became the criteria that put us to the test.

The STM in-line helical gear drive was the recommended

option as it can be made up of a combination of more than one gearbox to provide a low ratio that enables the pouring of lime at between 3–8 rpm as well as producing a high torque.

These gear drives needed to be constructed of materials that would stand up to the harsh environment of operating outdoors in a quarry so being made of cast iron, the STM solution delivered these hard-wearing qualities.

For more case studies visit www.eqm.co.nz/projects/



Examples of use



Steam kettle mixer



Belt Conveyor Motor



BDR Conveyor Motor



Shrink Machine Motor



Foam Conveyor Motor



Rotary Table Motor

ALSO AVAILABLE



Vibratory Motors



0.18kW - 7.5 kW
EQM iSeries IP67
Stainless Steel Motor



B56 Frame Motors



Brake Motors

Low Voltage Battery Powered Motors



DAGU's range of DC motors satisfies both specific and diverse requirements and applications. Whether the power source is a battery, solar or low voltage control circuit, DAGU motors come into their own. With DAGU's permanent magnet design stable, constant speed control is achieved.

Why DC Low Voltage?

- Portable/mobile
- Safe with low voltage
- Diverse uses
- Solar power
- Constant torque

Suitable for

- Aeronautical attachments
- Transport accessories
- Weld rotators
- On-farm agri-equipment
- Marine
- Gates

ME Series

- 12, 24 & 180V DC
- Five standard frame sizes
- 30–2000 Watt
- 1000, 1500 & 3000rpm
- Intermittent or continuous duty
- Standard IEC B5 or B14 flange mounting dimensions
- IP44 splashproof



ME45



ME56



ME63



ME71



ME71V

MRE Series



- Planetary reduction 1–3 stages
- Ratios 4:1–390:1
- Fits ME Series motors
- Matching diameter to motor

CASE STUDY:

Getting a consistent spread is vital for New Zealand's leading manufacturer of aerial spreader buckets.

EQM has recently provided the company with a small 24V DC Right Angle Gear Drive on the hopper to help spread fertiliser, seed or bait.

The large hopper is connected to a helicopter and is a popular and efficient way of spreading fertiliser across farms.

The 24V DC Gear Drive is used to agitate the mixer in the bucket, stopping it from bridging in the hopper.

The gear drive set-up is perfect as it is lightweight, efficient and reliable.

It is also remotely controlled from the helicopter. This drive operates only when the pilot needs it to.



For more case studies visit www.eqm.co.nz/projects/

Examples of use



Agitator Drive



Welding Rotator



Fruit wax applicator

ALSO AVAILABLE



KBMD-240 180 Volt DC Controllers



12-24 Volt DC Controllers



Right Angle Gear Drives

Speed Controllers

Controlling the speed of conveyors, rotary tables, pumps and mixers can be tricky and that's where the speed controllers come into their own.

Why Speed Controllers?

- Control start and stop of motor
- Regulates productivity to match the full process
- Drives efficiencies and uses less power
- Connects motor with automation
- Easy to programme and operate

Suitable for

- Fruit and vegetable packing lines
- All three-phase motor applications
- Food production facilities
- Any conveyor
- Accurate pumping applications

1 Phase to 3 Phase Inverters

Teco L510 Series



- Available as 1 phase input/3 phase output
- Sizes 0.2 kW–2.2 kW
- IP20, IP65 (NEMA4) enclosure
- 16 kHz carrier frequency

KBMA Series



- 1/8-1HP, jumper selectable
- 1 phase input 115/230 VAC, 50/60 Hz
- 3 phase output 230 VAC

3 Phase Inverters

Teco CV Series



- 150% starting torque
- LED/LCD keypad display
- Available in 1 & 3 phase input
- Sizes: 0.75 kW–22 kW

Teco E510 Series



- Vector drive
- Available in 1 & 3 phase input
- Sizes: 0.37 kW–18.5 kW
- Integrated safety stop & fire mode

CASE STUDY:

EQM offers the TECO range of speed controllers, which help regulate exact performance of machines and other functions.

The variable speed drives are easy to operate, very cost efficient and backed with technical support and simple instruction manuals.

TECO Speed Controllers are ideal for anything from food processing factories to quarries, or any industry using an electric motor.

The smaller single phase input and the 3 phase output models are very popular on portable equipment.

These controllers have a built-in EMI filter and an easy to operate keypad, with some models having the bonus of a built-in PLC for intelligent control of motors.

TECO is a well-established company that specialises in motion control and automation, engineering solutions to manufacturing needs for a wide variety of industries.



Controlling the speed of conveyors, pumps and mixers can be tricky and that's where the TECO Speed Controller steps up to the mark.

For more case studies visit www.eqm.co.nz/projects/

Examples of use

Controlling elevator speed



Controlling conveyor speed



Controlling rotary table speed

ALSO AVAILABLE

Washdown IP65 Speed Controller



KBMM-225 Circuit Board



Larger VSD

Bearings & Housings

EQM supplies the widest range of bearings and housings from quality manufacturers such as Challenge. Multiple options are available including stainless steel shields and fluorocarbon, silicon and Teflon seals. The Challenge range of bearings consists of ball, roller and spherical bearings as well as triple seal bearing units using high-quality materials.

Why Bearings & Housings?

- Universal standard
- Fully interchangeable with other makes
- Quality manufactured
- Competitively priced

Suitable for

- Wide range of conveyor types
- Excellent in harsh environments including outdoors
- Food processing and packing
- Fruit handling equipment
- Produce cleaning units

Triple Seal Bearings



- Long life
- Full range of sizes
- Triple = highest seal standards
- Reduces maintenance

Cast Iron Bearing Housings



- Wide range of options
- Pillow blocks
- Flange mount
- Take-Up

Stainless Steel Bearings



- Hygienic
- Non-corrosive
- FDA approved

Plastic Bearing Housings



- Wide range of options
- Hygienic
- Safe
- Cap seals and back seals

CASE STUDY:

A large New Zealand fruit packing operation has had a triple whammy of benefits from using Challenge Triple Seal Bearings.

This packhouse was forever replacing bearings in its fruit brush washer units every season, due to the wet and dirty environment created from cleaning fruit.

Dirty water was penetrating the seals in the bearings making the bearings fail by wearing out or seizing up.

EQM suggested using the Challenge Triple Seal Bearings and they have so far tripled the life of their predecessors.

“The triple seal bearings are definitely worth changing to and are very effective in wet

areas. We have only replaced 18 bearings this time rather than 240!

“Standard bearings wouldn’t even last one season.”

The Challenge triple-sealed bearing units are very competitive as a direct replacement spherical bearing complete with seals that can operate in almost any environment, greatly decreasing the cost of bearing units.

Triple-sealed bearings feature a secure bearing seal with three lips. This special seal offers reliable dust-proofing and waterproofing superior to those of standard bearings.

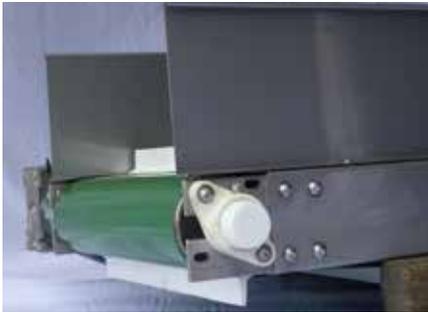
A bearing life that lasts longer than that of a standard



bearing unit means extended maintenance intervals and greatly reduced maintenance labour costs for inspection, lubrication and replacements.

For more case studies visit www.eqm.co.nz/projects/

Examples of use



Plastic housing on stainless steel elevator



Stainless steel bearing on a mixing tank



Triple seal bearings on bark conveyors

ALSO AVAILABLE



Couplings



Chain



Pulleys



Sprockets



Taper Bushes



Stainless Steel Housings

EQM MOVE

Band Driven Roller Conveyor Systems

Belt Conveyor Systems – Lightweight

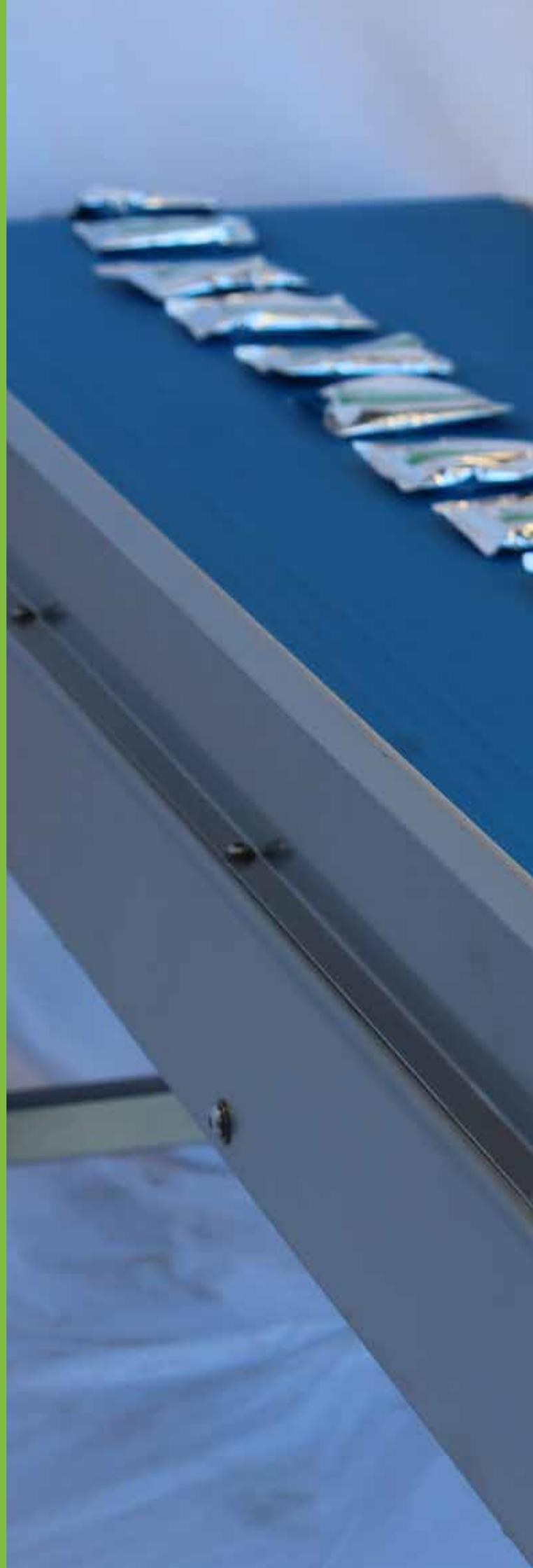
Belt Conveyor Systems – Heavy Duty

Chain Conveyor Systems

Gravity Roller Conveyor Systems

Conveyor Drive Drums, Rollers & Chains

2D & 3D Design





Band Driven Roller Conveyor Systems

The band driven roller conveyor's modular design takes care of your demanding situations. It reduces labour, prevents manual lifting and shifting of operations, and creates a link between existing machinery. Tranzband's inbuilt accumulation has been proven in many industrial situations.

Why BDR?

- Reduces labour requirements
- Prevents numerous manual lifting and shifting operations
- Reduces double-handling of products
- Creates a link between other machinery
- Reduce forklift requirements

Suitable for

- Food production facilities
- Fruit and vegetable handling and packing
- Distribution warehousing
- Carton packing lines
- Pallet and bins supply lines

Tranzband Carton Conveyors

Band driven roller conveyors are powered via a shaft beneath the rollers that offer quiet operation and low maintenance.



Carton handling features

- Corners = tapered rollers maintain alignment of products around corners
- Chain transfer = moves and changes orientation of products off or onto a line
- Carton turner = turns products from one perspective to another
- Switch sorter = directs products off a line at high speed
- Powered gate (pedestrian) = enables people access through a production line
- Rollover stop = controls flow of product to help clear congestion
- Oscillator = merge or demerge products off or on a line horizontally without stopping and changing direction
- Line brakes = inflatable tubes mounted below rollers to index products

Tranzroll Pallet Conveyors



Pallet handling features

- Sprocket driven
- Band driven accumulating
- Motorised roller driven

CASE STUDY:

One of Hawke's Bay's largest packhouse operations has installed a conveyor that has paid back its investment in super quick time.

The 30-metre carton conveyor has eliminated the need of a forklift and driver as well as improving packing efficiencies so much that it will recover its cost in one season.

The conveyor takes cartons from a remote bag and punnet packing area alongside a single-lane-fruit sizer and under some existing conveyors to match up with another conveyor to be taken to the carton palletising.

"A forklift was commuting a lot from the main stacking area to this area so that's no longer

required as the conveyor has become the transporter of cartons. This has eliminated a health and safety issue as well as vastly improving efficiencies. It has paid for itself in one season."

Another benefit is the opportunity in future that the conveyor lends itself to automation of palletisation of cartons and consolidating pallet dispatch into one area.

The conveyor can also play a wider role as it can easily take cartons from various other packing lines along the way and cartons can be loaded and unloaded anywhere along its length.



For more case studies visit www.eqm.co.nz/projects/

Successful Projects



Created a link between carton erection and carton packing at capsiicum packhouse



Reduced handling costs by streamlining packing lines at meat plant



Streamlined dispatch at food distribution centre



Improved efficiencies by streamlining dispatch processes for pharmaceutical products



Upgrade improved production by 30% at apple packhouse



Reduced peak staff numbers by 30% at kiwifruit packhouse

COMPONENTS AVAILABLE



Spools, Clip locks, Universal Joints and Couplings



Endcaps, Bushes and Bearings



Drive Bands and Emergency Bands

Belt Conveyor Systems – Lightweight

N-Track

M-Track

EQM's experienced team will recommend the most suitable belt conveyor for you, with the added ability of adapting its standard designs for your specific application to move packaging and food products such as sachets, punnets, fruit and vegetables.

The M-Track and N-Track are lightweight conveyors of modular design, with the N-Track also offering a hygienic conveyor system.

Why M-Track & N-Track?

- Lightweight
- Easy to assemble/modular design
- Low profile
- Portable
- Horizontal or elevated positioning
- Hygienic designs

Suitable for

- Food packaging such as sachets, punnets and ready to eat packs
- Dry goods
- Waste removal
- Labelling lines
- Bagged product
- Fruit & vegetables
- Packing lines

N-Track (hygiene option)

The EQM N-Track belt conveyor has two solutions – one for moving general products and also an hygienic option that meets FDA and USDA standards.

All components are stainless steel, including the internal drive drum, which in this case was preferred over the external shaft mount options. The design of the belt conveyors eliminates vibration and reduces chances of damage to packaging and products.



Features

- Stainless steel or galvanised frame
- Internal or shaft mounted drive
- Range of belting

M-Track

The EQM M-Track is specifically designed to be lightweight and easy to fit together. They are easy to clean and very safe as the belts return within the profile.

With the belting bed lower than the sides products are contained without the need for extra sides.



CASE STUDY:

It's not a case of throwing everything together in a large bowl and seeing what happens, like we do at home.

EQM has been working with a food company that makes pre-packed ready to eat mixed salads. The market for ready to eat pre-packed food has exploded and salads are one of the many popular off-the-supermarket-shelf products.

This company purchased a new vegetable shredding machine to increase production but needed to make it more efficient to get the production they required. They simply needed a smart hygienic elevating conveyor system to feed product at a constant rate to maximise the production.

standard N Track conveyor that was modified to operate at a steep angle, to minimize floor space but still enabled the vegetables to feed into the dicing and slicing equipment at a constant rate.

The system only needs one operator, who unloads the raw materials into a hopper and then walks down to the end of the process line to where the filled crates accumulate.

“The process was designed so that as they increase production, they just add another person to help. It works well from an ergonomic perspective as well as ensuring there is minimal waste of salad mix and little mess to clean up.”



“For more case studies visit www.eqm.co.nz/projects/”

Examples of use



Feeding tomatoes into bagging machines



Waste bread elevator



Removing rejected fruit



Wine filtering waste conveyor



Bagged apple transfer



Conveyor example

ACCESSORIES & OPTIONAL EXTRAS



Hoppers



Belt Scrapers



Sides



Many drive options

Belt Conveyor Systems – Heavy Duty

C-Channel

EQM's C-Channel belt conveyors have been adapted for many uses over the past decade. This type of belt conveyor is based on a tried and tested but simple and effective design that can span up to six metres without support.

C-Channel belt conveyors are used where extra structural strength is required without being as heavy as a quarry conveyor. Wider conveyors suit this design.

Why C-Channel?

- Long span without supports
- Robust strong design
- Suitable for bulk materials
- Large drive drums for greater traction
- Elevated or flat options
- Diverse range of uses

Suitable for

- Materials handling
- Harvesting
- Fruit and vegetable processing
- General product conveying
- Nursery and landscape supplies



C-Channel Features

- Mild steel powder-coated or galvanised frames
- Shaft mounted drive
- Range of belting – PVC or rubber
- Elevating or horizontal
- Portable

CASE STUDY:

EQM doesn't just have the right equipment to optimise your food production process, it has the know-how to put together and design the best solution.

A large strawberry producer was looking for a new conveyor system that could accommodate up to 20 people working either side of a conveyor to sort and pack strawberries.

The 15-metre conveyor chosen was a modification of the popular C-Channel design, powered by a STM SM Series Skew Axis High-Efficiency Gear Drive with a speed controller to operate at various speeds.

The conveyor is a kitset modular system and was installed and up and running within 24 hours.

The conveyor now has an output of about 1800 punnets packed every hour.

"The conveyor system was based on a similar format to what they already had, just on a bigger scale and with many subtle design improvements to make it easy to clean and flexible enough to set up to suit the number of packers required each day."

A 3D model of the design drawings showed the positioning of people and provided the client with a better picture of how it would work and the packing station layout, which is all adjustable.

Some modifications to the standard design were made,



such as removable packing tables and a stainless steel removable rack underneath the conveyor to hold crates that collect the process grade fruit at the start.

The entire project, from confirmation of design to delivery to site, took just over six weeks.

For more case studies visit www.eqm.co.nz/projects/

Examples of use



Raspberry packing line



Foam recycling infeed



Injection moulding elevator



Bark processing stick belts



Sawdust elevator



Chaff elevator

ALSO AVAILABLE – TROUGH BELT CONVEYORS



Bulk bark



Logs



Trenching



Soil

Chain Conveyor Systems

T-Track

EQM provides experience in knowing what's the most suitable conveyor for you with the added ability of adapting its standard designs for your specific application to move packaging and food products such as beverages, bottles, pottles and pouches.

The T-Track conveyor is also known within the food processing industry as a table top conveyor or a 'slatband' conveyor.

Why T-Track?

- Many layout options
- Creates a seamless link between production lines
- Corners and mergers with ease
- Product accumulation
- Safe and quiet operation

Suitable for

- Food processing sectors
- Plastic and glass bottles
- Cans and aerosols
- Pottles and punnets
- Stand up pouches

T-Track

This is a popular system that enables products such as plastic and glass bottles, cans or pottles to be conveyed to almost any layout required.

- 2.4-metre lengths easy to clean components for maintenance
- Mounted on adjustable pedestal legs



Features

- Stainless steel or galvanised frame
- Shaft mounted drive
- Range of belting – plastic or stainless
- Radius belts for corners
- Merges parallel lines
- Adjustable legs

CASE STUDY:

EQM has designed a new conveyor for the moving of beverages and bottles.

The chain belt conveyor, named T-Track conveyor, is also known within the food processing industry as a table top conveyor or a 'slatband' conveyor.

The T-Track is a popular system that enables products such as plastic and glass bottles, cans or pottles to be conveyed between points in almost any layout you want. It comes in 2.4-metre lengths and the components are easy to maintain and clean.

It can be supplied as a kitset and is simple to assemble and put together on site by your team.

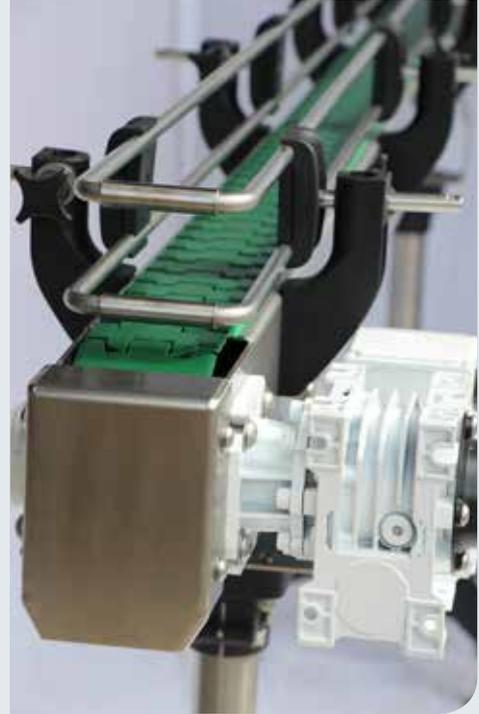
"We can supply it as a kitset with all the required parts and it can be easily assembled or we can do this, if there are space issues."

The T-Track is mounted on adjustable pedestal legs. It is designed so the chain returns on the inside, making it extra safe to operate. It can be fitted with single or double glide rails.

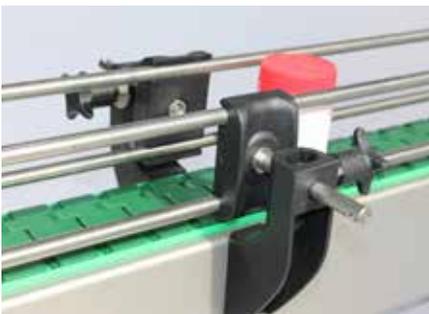
"It's also operationally very quiet, especially for these types of conveyors."

The T-Track is the ideal type of conveyor to bridge the gap between bottling processes such as filling and capping, capping and labelling, and bottle accumulation at the end of a line.

For more case studies visit www.eqm.co.nz/projects/



Examples of use



Taking pottles from filler



Orange juice line



Sauce bottling line

ACCESSORIES



Transfers



Guide Rails



Adjustable



Epoxy or Stainless Steel Drives

Gravity Roller Conveyor Systems

A gravity roller conveyor is a lightweight, low-cost and ergonomic way to move packages. Whether it be carton accumulation, crate handling or bag and pouch transfer roller conveyor, you can optimise production through eliminating physical lifting and shifting activities.

Why Gravity?

- Low cost
- Ergonomic
- Works for free/non-powered
- Portable
- Extremely simple
- No/low maintenance
- Modular

Suitable for

- Food production facilities
- Fruit and vegetable handling and packing
- Distribution warehousing
- Carton and crate movements
- Bagged product
- Cartons of beverages
- Pallet moving

EzyRoll Heavy Duty Roller Conveyors



- Widths and lengths from 100–1200 mm x 1.2–3 m

LightRoll Light Duty Roller Conveyors



- Comes in standard sizes: 450 mm wide 3.0 m long sections
- Kitset design for easy onsite assembly

MiniRoll Wheel Track

Versatility at its best.

- Pre-erected carton racks
- Live shelving
- Conveyor guides
- Lightweight carton handling



MultiRoll Multi Directional Transfer

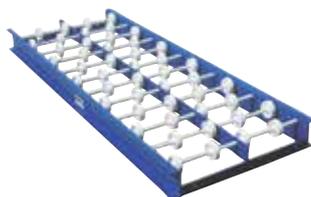
- Scale bases
- Labelling stations
- Quality control benches
- Carton loading stations



SuperRoll Skate Wheel



- Skate wheels allow increased product support
- Pallet and bin storage
- Bag conveyors
- Pouch conveyors
- The EzyRoll frame fitted with wheels



XpandaRoll Extendable Conveyors



- From 1.6 m when compact out to 6 m when extended.
- Mounted on brake castors for stability and mobility

CASE STUDY:

Nothing is sweeter than coming up with the right solution to a sticky problem, and that's just what EQM has done with a conveyor system for a honey business.

The honey business was looking for a new solution to de-box its hives.

This is a decontamination process that cleans and prepares the hives for their next collection of sweet honey nectar.

The hive boxes are unloaded from a pallet onto the new skate conveyor system and are then moved along the conveyor and through an air compression chamber that blows all the debris and remnants of honey.

The skate conveyor is currently a manual process but can easily be converted into an automatically motorised system.

It works very well as a manual system but can be further



optimised by adding a motor and gear drive. For more case studies visit www.eqm.co.nz/projects/

Examples of use



EzyRoll



Stainless Steel Roller Conveyor with sides



MiniRoll



MultiRoll



SuperRoll



XpandaRoll

ALSO AVAILABLE



Controlled Decline



Guide Rails



Tapered Roller Bends



Manual Rollover Stop

Conveyor Drive Drums, Rollers & Chains

EQM has a wide range of componentry for belt, band and chain driven conveyors. Whether you are repairing or undertaking maintenance on an existing conveyor or building a new one, we have everything you need.

Why Conveyor Components?

- Quality product range
- Matching specifications for rollers
- Large range
- Easy ordering system

Suitable for

- Food production facilities
- Fruit and vegetable handling and packaging
- Distribution warehousing
- Carton handling
- Tray packing lines

Drive Drums

- Wide range of diameters
72 mm–135 mm
- Standard lengths from 200 mm
to 1000 mm
- Belt Speeds from 2.9 m/min to
47 m/min
- 60–750 watts
- Stainless steel, anodised
aluminium or zinc plated
options



Axis AX Series

- Light duty conveyor drives
- Suitable for smaller conveyors
- Planetary gear systems with
many speed options



Axis TM Series

- Heavy duty
- Suitable for the most demanding
conveying operations
- Strong gearbox construction

Zero Pressure Accumulation Conveyor Drive



- Integrates with other automation
- Uses a series of 24V motors and sensors
that communicate with each other
to start and stop zones of rollers or belts
- Creates space between products
- Eliminates carton damage and congested
conveyors

CASE STUDY:

Operating a milk powder bag filling system in a tight confined space is now a lot easier following the installation of high-quality axis stainless steel internal drums.

The plant can operate up to 24 hours a day and with this in mind, it was important to minimise any downtime. Standardising drives over a number of conveyors made it worthwhile investing in a complete spare for immediate replacement if the need arises.

The nature of the process is that there is a lot of starting and stopping to fill and seal bags. The bags are also heavy on a small footprint, so EQM specified and

supplied motorised drums with heavy duty gears and oversized motors.

“The client was able to retrofit the existing conveyors to fit the new drive drums that we’ve specially imported from Europe for the job.

“Supplied with long cables, it eliminated the need for terminal boxes, another item that is often a cause of motor failure in wet and dusty environments.

“The system is also now a lot more food safe due to no external motors collecting dust because



everything is contained within the frame. Another added benefit is eliminating the risk of oil leaks.”

For more case studies visit www.eqm.co.nz/projects/

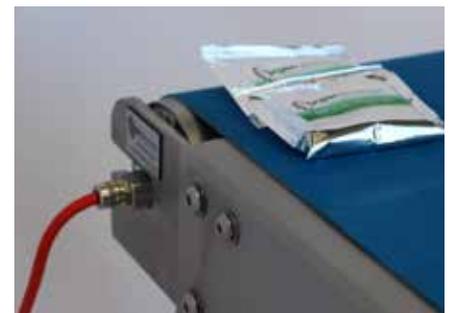
Examples of use



Rollers for cartons



Rollers for meat packs



Drive drums for sachet conveyors



Rollers for foam



Zero pressure drive motors for cartons



Chain for plastic crate conveyors

ALSO AVAILABLE



Internal driven roller



Rollers made to order



Thermoplastic Chain

2D & 3D Design

Expanding your food processing plant requires plenty of planning – not just in constructing the new section of your plant but also in deciding where each piece of equipment will go. 2D and 3D design takes away much of the guess work.

One miscalculation, one misplaced outlet box, and you could end up overspending your budget trying to get everything to fit correctly. So how do you avoid those miscalculations? How do you “see” all your new equipment placed within your plant before it’s even built? How do you guarantee that all your utilities will be in the right place for your equipment? That’s where 3D modelling comes in. With 3D modelling we bring your new project together, with all the new equipment as well as making sure all utilities are placed correctly before any of your equipment is manufactured.

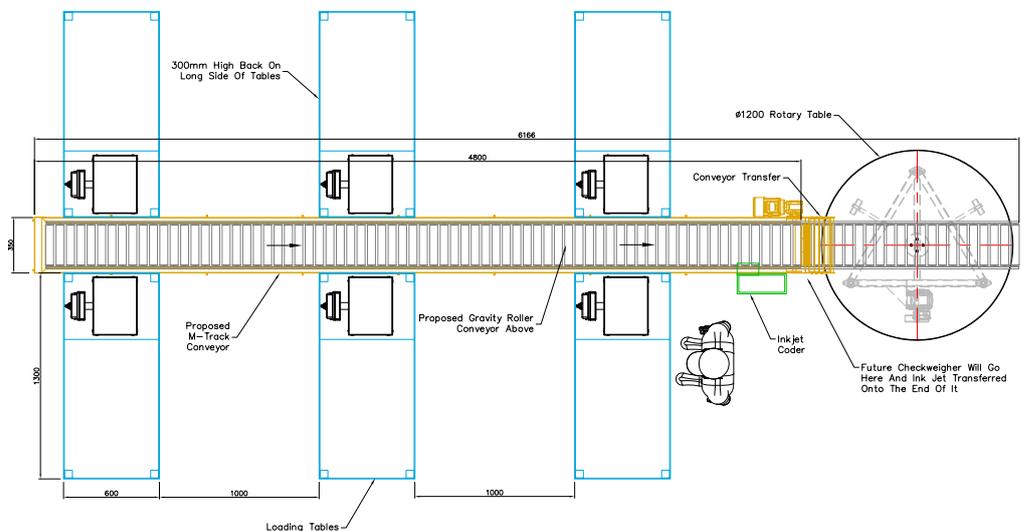
Why Design/CAD?

- Visualise layout to scale
- Calculates placement of staff
- Designs to floor space and plan
- Ergonomically focussed
- Fit for purpose design
- Concept model before committing to investment

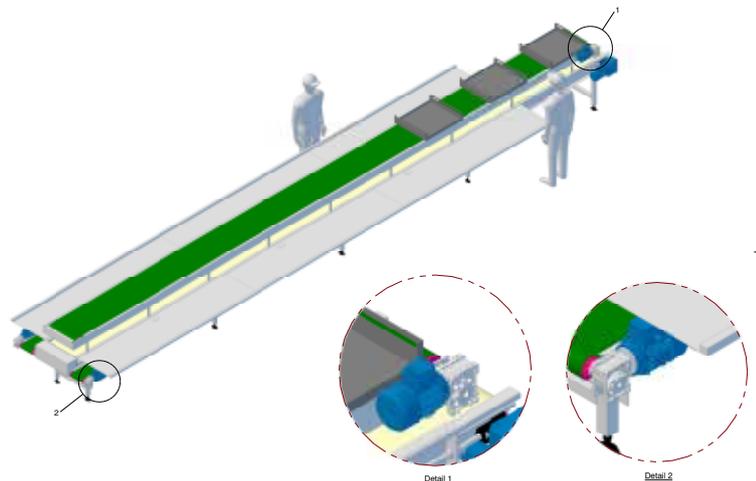
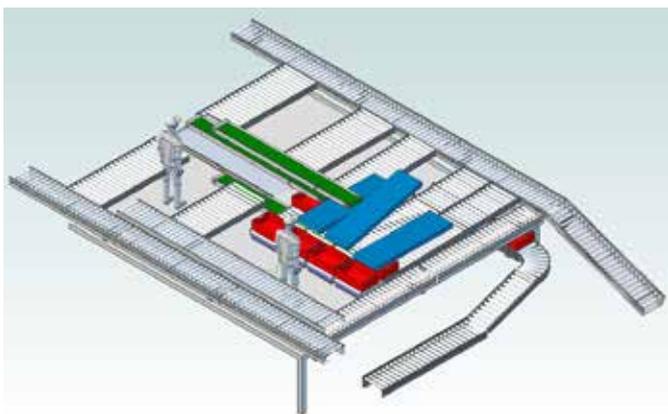
Benefits

- Preview equipment in plant layout
- Visualise how equipment will work
- Visualise how equipment integrates into current line
- Determine where to place utilities
- Visualise conveyor layouts
- Visualise factory plans – new or redevelopment
- Improve production efficiencies

2D Example



3D Examples



TURNKEY PROJECT MANAGEMENT:

So you think you've got an idea of how to improve your production processes but you're unsure whether the equipment will fit or the facility footprint is right?

Rather than going through a time consuming fully fledged design project, EQM can now put together some 2D layout designs and if the idea stacks up, they can then take it one step further by producing a 3D design.

"It's a wise move to put together some 3D drawings to help get a better understanding of what you're considering installing before making a significant capital investment in plant development."

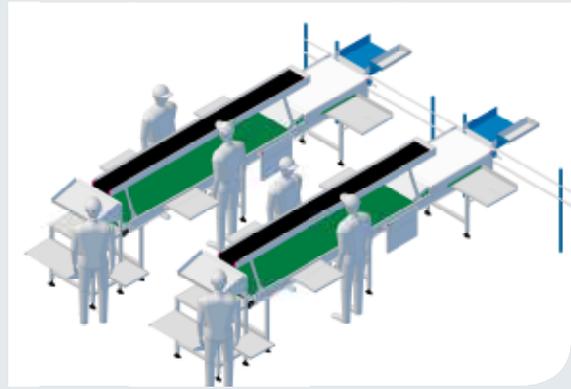
"We've got vast experience in putting together efficient high-performance conveyor systems and if we start with an idea or a problem that needs a solution, we can then design a solution that can be developed or expanded on with a 3D concept."

"Because we have experience in using a wide range of equipment we can match everything together to ensure that it performs to expectation and takes into consideration the size of area being used, placement of staff and ongoing maintenance."

"It's a more calculated and strategic way of looking at future proofing your production line.

We provided the service to a nursery that grew potted plants and they wanted a system to help stack and sort prior to distributing to customers.

We designed a conveyor and racking system in the existing space available and worked out the right placement and positioning of staff. By doing this in a 3D model, we were able to provide a better indication of



what the project costs would be and the future operating cost savings."

Another example is a conveyor and packing table solution designed and developed for a fruit packhouse to bag apples more efficiently and faster.

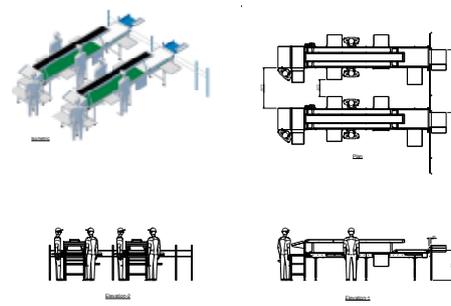
"Not only did we design an effective solution but we were also able to work out the right placement of staff."

For more case studies visit www.eqm.co.nz/projects/

Projects



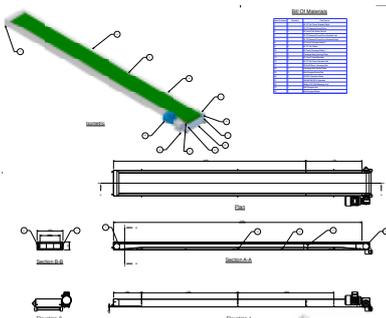
Before



Proposed re-design



New process



Proposed re-design



New process prior to operation



New conveyor in action

EQM PACK

Labellers & Labels

Rotary Tables

Weighing and Filling

Fruit Brushes

Fans & Portable Blowers

Pallet Strapping

Packing Lines





DIX
EQUIPMENT



Labellers & Labels



Digra-Pack, s.l.

Like to increase your market share but don't know how to? EQM can turn your fruit into a high-value brand.

EQM provides labelling technology for fruit packaging and individual fruit, as well as label printing and design. We can provide separate labelling equipment or full systems including conveyors and rotary tables.

EQM's wide range of labellers are available to buy or lease.

Why label your products?

- Get a premium price for your product
- Show origin of product
- Food compliance regulations
- Traceability
- Quality mark
- Create an identity

Suitable for

- Individual fruits
- Punnets



High-Speed Automatic Labellers

A high-speed automatic labeller is the most cost-effective labelling solution for packing facilities and the labelling of individual fruit and vegetables or pre-packed products.

Virtually any self-adhesive label shape on a roll can be dispensed and machines can be customised to meet your specific labelling needs.

Labellers can dispense 600 labels per minute with a 98% success rate of application. They easily mount onto any grader/sizer, singulator or conveyor.

We also offer lease or purchase options with seasonal label contracts to suit your programme.



Hand Labellers – powered & cordless

These delicate and smooth labellers are lightweight, yet heavy duty in performance. The powered option can apply up to six standard labels per second while the cordless option has a labelling rate that remains consistent for the duration of the battery operating cycle. The soft roller applicator tip leaves fruit and vegetables blemish free.

Short and long term hire or lease machines available.



CASE STUDY:

A fruit company installed Dix High Speed Automatic Fruit Labellers couldn't be happier with their performance.

An apple and pear packhouse is thrilled with the performance of its Dix High-Speed Automatic Fruit Labellers.

The packhouse has two banks of labellers mounted on its two-lane sizer, one after the other – one for large fruit and one for smaller fruit. "They are brilliant. It's nice to put the labels up and go away and forget about it."

A quick look at the waste reel on the labeller shows how well the equipment is performing. The labellers are currently running just below maximum speed, at 420 stickers per minute (maximum speed is about 600 stickers per minute).

"Another handy feature is being able to turn off one size and allow fruit to go through unlabelled, if desired. These label applicators are inter-phased with the sizer computer program so we can easily select what we want labelled according to fruit size."

The packhouse buys its labels from EQM, as we carry a full selection of generic apple and pear labels. We are able to custom design and print branded labels in many shapes and sizes as well.

"It's brilliant. I do a big label order at the beginning of December, which gives them time to order in what we need. It's just a matter of keeping an eye on label stock throughout the season."



The fact the labels are a poly material rather than the traditional paper means any stock left over at the end of the season can be stored and used the following season.

Another distinct advantage of poly over paper is that it is harder to break.

The poly also allows the printer to produce thinner labels, which stick and conform to the fruit better.

For more case studies visit www.eqm.co.nz/projects/



ALSO AVAILABLE



Dix Hand Labeller Electric



Punnet Labeller



Hallo Hand Labellers

Rotary Tables

When it comes to optimising your packing production line make sure you consider using an EQM Rotary Table.

Why Rotary Tables?

- Relieves pressure on the production process
- Allows products to accumulate at end of production line
- Moves product from one process to another
- Prevents damage to products

Suitable for

- Punnets and pottles
- Bottles and jars
- Fruit/vegetable collection
- Bagged produce
- Pouches and sachets

Punnet/Package



- Accumulates punnets at the end of a packing line after labelling or quality checking

Bottle



- Accumulates bottles anywhere along the bottling line at the beginning, between filling and corking, capping and labelling, or at the end

Descrambler



- Singulate products on to a conveyor line
- Orientates containers to line up with fillers

Fruit Collection



- Painted wooden top
- High sides to contain loose produce
- Padded to eliminate bruising of fruit

ACCESSORIES



Stainless steel and power-coated frames



Punnet or package transfers



Bottle or punnet guide

CASE STUDY:

EQM has designed and built a large 2450 mm round rotary table for a fresh produce company that mimicked their previous design and size but instead of being fiberglass materials, the new table is completely stainless steel, including the gear drive.

The brief was to make it similar dimensions to the old existing rotary table but with some unique design modifications suggested by the client, such as creating small drainage holes towards the middle of the table to assist with the daily washdown.

This huge table is used to accumulate leaks and other fresh produce at the end of an automated washing conveyor line.

This table is much larger than we have ever made before compared to our standard rotary tables so that more people can fit around it when packing produce into crates, therefore a new custom design and build was the answer.

"It's quite unique with its raised centre piece so that produce doesn't accumulate in the middle of the table, so that those packing don't have to reach very far across the table."

Fitted with the latest Clean-Geartech IP69K stainless steel gear drive completes the fully washdown design, exceeding all expectations and requirements for hygiene now and into the future as consumers' demands for higher



standards in food packing lines are being adopted.

For more case studies visit www.eqm.co.nz/projects/

Examples of use



Unscrambling pottles



Rotating honey pots



Packaging pharmaceutical products



Apple and pear bagging line



Accumulating strawberry punnets



Accumulating labelled products

ALSO AVAILABLE



Motor and Wheel Guards



Formica, stainless steel or powder-coated tops



Emergency Stops

Weighing & Filling

Weighing and filling fruit or vegetables couldn't come any easier than using an EQM's range of weighing, packing and filling options.

Why Weighing and Crate Filling?

- Soft loading of fruit and vegetables – reduces bruising
- Ergonomic for labour
- Packing to weight
- Portable use

Suitable for

Fruit and vegetable packing such as

- Apples and pears
- Avocados
- Capsicums and tomatoes
- Kiwifruit
- Any pre-packing

Packing Tables



- For accurate filling of bags and punnets by hand
- Wicket holder for bags
- Can be integrated with existing packing lines
- Can be supplied as complete packing line system
- Height adjustable
- Stainless steel
- Recessed scale options

Crate Filler with Scale Platform



- Height adjustable
- Powder-coated steel
- Adjustable spring tension
- Low profile platform
- Smart scale indicators

CASE STUDY:

EQM often gets asked to develop innovative equipment solutions tailored to do a specific job.

One request came from a packhouse manager who was looking for a new crate filler that could also accurately record weight.

EQM already had a simple crate filler, but the packhouse manager wanted to know if we could incorporate a weigh scale within the crate filler design, cutting out the step of having to manually move the filled boxes somewhere else to be weighed.

EQM designed the new system using a standard EQM Crate Filler that was modified to incorporate a scale within the loading platform.

This custom-built crate filler with a weigh scale was easy to install at the end of the tray filler, with just two bolts holding it in place.

This design can be used for a wide range of fruit and vegetables.

In the past the packhouse had used the standard crate filler for pears, which were taken off the belt and put into a box by hand. Now they gently roll off the belt and into the box as the pears are already graded.

The new crate fillers have improved accuracy of box and crate weights, which in turn has lifted pack-out performance and saved money.

For more case studies visit www.eqm.co.nz/projects/



Examples of use



Bag filling



Filling cartons with pears



Lowering crates as they are filled with fruit

ALSO AVAILABLE



Bag Scales



Punnet Scales



Bin Scales



Crate Scales

Fruit Brushes

Our unique segment system allows customised brushes to be created for your machinery. The segments can be replaced when worn, saving you having to buy an entirely new brush. They are cost effective, and can be trimmed to specific diameters or corrugations. A wide range of bristle types are available to match specific fruit and produce properties.

Why Fruit Brushes?

- Cost effective and easily assembled
- Can match fill to product type
- Effective way to support and rotate fruit while washing and drying

Suitable for

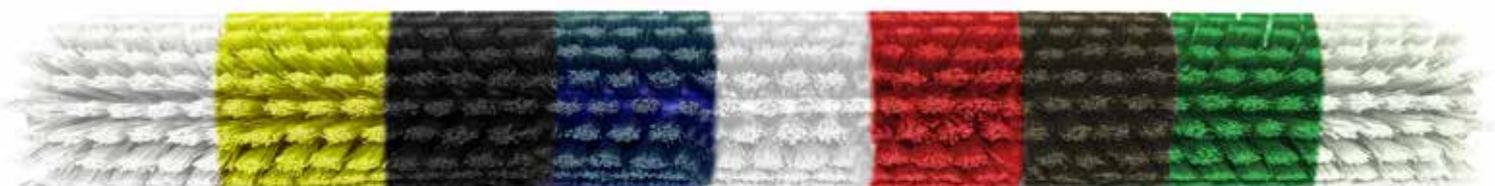
- Washing carrots, pumpkins, potatoes and apples
- Fruit wax application
- Dehairing kiwifruit
- Drying and polishing apples, pears, citrus, feijoas and other fruit types

Segment Brushes



- Straight and corrugated trim
- Steel bushes
- Lock together segments or one piece
- Assembled to order
- A range of bristle material and sizes

Fruit and Vegetable Cleaning System



1 2 3 4 5 6 7 8 9

1. 020 White Polyethylene – washing kiwifruit
2. 012 Yellow Polypropylene – washing vegetables (carrots, potatoes, avocados, onions, grapefruit, etc.)
3. 008 Black Nylon – washing apples
4. Horse Hair/Polyethylene – fruit waxing
5. 020 White Polyethylene – washing vegetables (melons, pumpkins, etc.)
6. 015 Red Polyethylene – washing tomatoes
7. Horse Hair – fruit waxing
8. 018 Green Polyethylene – washing fruit and vegetables
9. 018 White Polypropylene – washing melons, pumpkins and more

Note: Depending on the district where the fruit or vegetable is grown, the skin thickness will vary, so this will influence the brush material used.

CASE STUDY:

Clean and ready to eat is the result of the upgraded brushes used to clean fruit and vegetables for a produce grower.

Faced with brushes that were starting to show quite a bit of wear and tear, EQM took up the challenge of looking to find replacement bristles.

“The brushes washed and cleaned carrots and were almost worn out. The brief we had was to replace the bristles only, so that the existing roller tubes and shafts could be used again avoiding expensive alterations to the scrubber.

“It’s a pretty wet environment, so we had to select the right bristle material that could handle a heavy workload but still deliver a premium finished product. We finalised the best type of plastic material to use – the client ended up with a rotary brush that is superior to his original.”

The client was rapt with the outcome, and now has peace of mind that they can deliver clean carrots and continue to source this special brush ware from EQM, a local source who understands and takes care of their needs.



For more case studies visit www.eqm.co.nz/projects/

Examples of use



Apple brush unit for washing



Apple brush unit for waxing and drying



Tomato brush washer

ALSO AVAILABLE



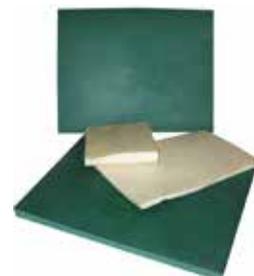
Leaf screen brushes



Foam Doughnuts



Waterbags



Foam Padding

Fans & Portable Blowers

EQM has an effective range of fans that are highly efficient and suitable for a wide range of conditions and desired outcomes, whether it's for reducing the affect of humidity eliminating odour and gas, waste or creating air movement.

Why Fans?

- Drying products
- Ventilation/circulation
- Dust removal
- Odour extraction

Suitable for

- Drying fruit and vegetables
- Dusty packhouses
- Working conditions
- Workshop ventilation

Axial Flow Plate Fans

- 22–190 m³/min air volume
- Six sizes: 250–600mm
- Highly efficient motors
- Powder-coated



Axial Flow Short Ducted Fan

- Thermal overload protection
- Efficient external rotary motor with Class F insulation
- 950 rpm–1300 rpm
- 230 W–500 W
- 3 sizes: 450 mm–600 mm



Portable Fans & Blowers

- High-performance motor
- Safety louvres
- Thermal fuse for safe operation
- Plastic handle for easy moving



CASE STUDY:

In New Zealand we enjoy long summers that can lead to the risk of drought.

With summer comes hot weather and in some instances – depending on where you're based uncomfortable humidity or dry conditions.

EQM has an effective range of fans, which are already in hot demand!

The most popular is the Axial Flow Plate Fan, which is well suited for a wide range of discharge and supply applications in buildings such as warehouses, workshops, industrial units and any factory.

EQM fans have highly efficient motors that match the

aerodynamic performance of the pressed steel propeller blades.

The mounting plate is powder-coated and comes with a finger protection guard.

Also available are Axial Flow Short Ducted Fans, which are more suited for use as a portable fan and where ducting is required.

The portable range is also in demand at this time of the year as air blowers and exhaust fans to help get rid of odour and waste gas effectively.

The Super Blow Drum Portable Fan provides instant cooling and ventilation.



They are ideal for public areas, special events and functions, factories, warehouses and more.

For more case studies visit www.eqm.co.nz/projects/

Examples of use



Air circulation



Packhouse ventilation



Fan with ducting

ALSO AVAILABLE



Pedestal Fans



Wall fans



Portable Man Cooler Fans



Portable Drum Fans

Pallet Strapping

EQM offers the latest in pallet strapping machines from European company Reisopack. These machines bring a wide range of benefits to the ever-growing fruit and produce industry where maximising production efficiencies is a key focus in packing facilities.

Why Resiopack?

- Reduces labour requirements
- Reduces movement of personnel and forklift operations
- Strapping is consistent in tension every time with no metal buckles

Suitable for

- Most fruit and produce, especially
- Fruit exported in cartons such as apples, pears, avocados and kiwifruit
 - Pallets that have corner boards

2820 Horizontal semiautomatic

- Production capacity: 20–30 pallets/hour
- Adjustable tension – between 3 kgs to 80 kgs
- Strapping range: 135 mm to 2400 mm high
- 24V DC c/w single phase 240V AC charger



2903 Horizontal mobile automatic for pallets

- Production capacity: 60-80 pallets/hour
- Control panel with touch screen
- Can store up to 10 programs – each of them with a maximum of 10 strapping heights
- Compression system in arch compacts the load and guides the strap to the correct position

2914 Horizontal automatic for pallets

- Moves from pallet to pallet
- Electronic tension
- Side compactor system for straight stacking
- CRC technology to perfectly position the corners
- Production capacity: 50 pallets/hour
- Maximum pallet height: 2650 mm.



2700 Vertical semiautomatic for pallets

- Aluminium head set and tension roller to ensure long machine life
- Tension is adjustable through a clamp
- Electronic control of the launching, tension, heating and cutting of the strap
- Production capabilities: 50-60 pallets/hour

CASE STUDY:

New Zealand fruit and produce companies now have pallet strapping solutions that increase productivity, reduce risk of injury and improve the shelf life of their quality products.

Reisopack pallet strapping machines offer a wide range of benefits to the fruit and produce industry where maximising production efficiencies is a key focus in packing facilities.

The Reisopack 2820 machine is a must experience due to its mobility, eliminating the need for the pallet to be moved to a strapping area.

It's no longer a case of taking the pallets to a machine but instead moving the battery operated strapper to the pallets. This makes the process faster and

more efficient through less pallet movements as well as minimising the risk of injury from moving unstable and insecure pallets.

The strapper is easy to use and can have indicators attached to the manual height adjustment mast so that locating each strap at the correct height requires no thought at all. An ergonomic handle equipped with a brake release lever takes the effort out of moving from pallet to pallet and holds it in position. The special 12 mm EQM poly strap completes the package as it allows the strap to be tensioned without damage and the electronic heat joining system ensures a reliable join with minimal adjustment required.

With extra accessories such as battery change-out carts and



corner board holders, you won't find it hard to get your staff to achieve this task any longer!

For more case studies visit www.eqm.co.nz/projects/

Examples of use



Fruit cartons



Produce crates



Stacking station

ALSO AVAILABLE



Pallet Conveyors



Strapping Material



Battery Trolley

Packing Lines

EQM has vast experience in developing full packing lines, selecting the right type of conveyor, to suit the application. From pack stations, pack coding, pack accumulation and carton loading, the complete line is set and designed to your requirements which will help improve productivity.

Why a Packing Line?

- Efficient packing system
- Reduces labour
- Meets health and safety needs
- Ergonomic design
- Increases productivity

Suitable for

- Berry punnet packing
- Tray packing of figs/feijoas
- Bagging of vegetables
- Re-packing lines
- Vegetable pre-packs



Punnet Packing

- Multiple stainless steel tables
- Individual smart scales
- Central exit conveyor
- Coding and labelling inline
- Pack accumulation
- Modular, adaptable design



Box Filling

- Pack to weigh stations
- Adjustable for different packing sizes
- High/OK/Low weigh confirmations
- Ergonomic design
- Illuminated environment for quality inspection
- Dual purpose lines

We can make a system to suit your specifications

CASE STUDY:

The Christmas festive season is about berries!

To ensure strawberries, raspberries and boysenberries get to their fans across NZ in tip-top condition, a berry producer has created a new packing system.

What was once a manual process is now swift, smart and looks awesome.

EQM was involved right at the start – to look at a potential outcome and work backwards. The aim was to make the packing of berries more efficient and increase productivity; to get more fresh berries out the door and off to customers quick smart.

However, the challenge was that the packing facility was limited in space and there needed to be

some smart thinking about the best layout.

The brief was to design four packing stations, primarily for berries but also for figs. They also wanted to ensure that the system was capable of at least four additional packing stations for the future.

They came to EQM with an idea and some simple drawings and we put our thinking caps on and provided some 3D drawing concepts.

The packing of berries compared to figs is a little bit different, so there was a need for an overhead roller conveyor for packing figs into trays and cartons.



The company liked the concepts as it included a recessed weighing system, an ink-jet coding printer for labels and a stainless steel rotary table at the end of the line for accumulating and packing into cartons.

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Examples of use



Strawberry sorting



Raspberry and blackberry line



Two-tier blueberry punnet packer



Cherry punnet loading station



Vegetable packing



Vegetable pre-pack station



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