



**BOTTLING • CANNING • PACKAGING**

**C H A N G E P A R T S**

## Change Parts

**Engineering Plastics Limited** is the leading New Zealand designer and manufacturer of Change Parts. These are engineered to the highest standards of quality and accuracy in one of the most advanced manufacturing facilities.

Since the early 1980's our commitment to the bottling and packaging industry is unrivalled and our superior engineered products are supplied to a wide range of customers, including **market leaders** in the food, drink, household, pharmaceutical, health and beauty, car care and chemical industries. We supply everyone from end users, OEMs and project management/consultant engineers to second hand equipment dealers.

As a major stockist of **High and Ultra High Molecular Weight (UHMW) polyethylene** pressed sheet and extruded rod, the **industry standard change part material**, we can supply all your change part needs.

With the assistance of our specially developed **container simulator CAD software**, we have the ability to custom design and produce parts for any system quicker and more economically than by traditional methods.

Our change parts are supplied fully assembled and ready for use, complete with all the necessary metal components. We can also provide **colour coded** parts with **lightweight, quick release** and **tool free** features, which allow the operators themselves to quickly make the changeover, freeing engineers for other important tasks.



## The Range

### *STARWHEELS, PLOUGHS, GUIDES*

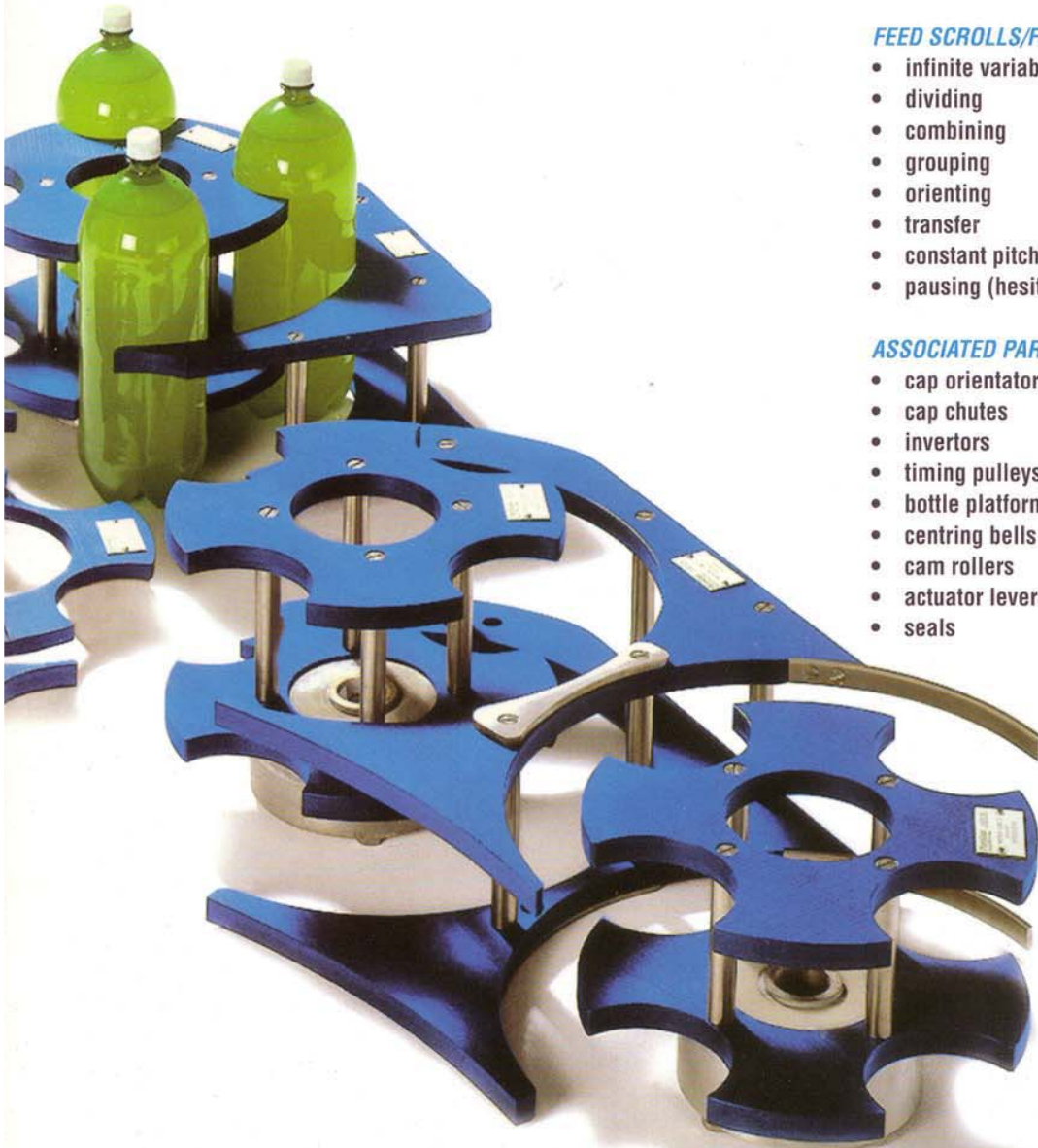
- fully assembled with metal parts
- to suit any type or make of machine
- colour coded
- quick release, tool free features
- lightweight designs
- stainless steel fasteners

### *FEED SCROLLS/FEED WORMS*

- infinite variable, accelerating pitch
- dividing
- combining
- grouping
- orienting
- transfer
- constant pitch
- pausing (hesitant pitch)

### *ASSOCIATED PARTS*

- cap orientators
- cap chutes
- invertors
- timing pulleys
- bottle platforms
- centring bells
- cam rollers
- actuator levers etc.
- seals



**“OUR INVESTMENT IS YOUR GUARANTEE OF QUALITY”**

## The Service

**Engineering Plastics Limited** is your single source supplier. We can fulfill all your change part requirements, saving you valuable time instead of dealing with various individual equipment suppliers.

Contact our Project Sales Office with your enquiry, if necessary one of our engineers will undertake a preliminary on-site survey of machinery and collect sample containers. A detailed quotation will be provided from the information collated.

Once agreed, we will revisit during a pre-arranged production stoppage for a comprehensive site measure of your equipment, then design, manufacture and speedily deliver your precision change parts. We will even site fit and commission them if required.

Your machine details will be stored on our CAD database, ensuring complete control of designs for your equipment in the future. Thereafter only new container specifications are required for quotation and further supply.

- full consultancy service
- custom design
- on-site survey, fitting and commissioning
- rapid delivery
- quality, high tech production
- cost effective solutions
- speed and precision
- complete repeatability
- single source supplier



Extensive packaging expertise and sophisticated technology mean that **Engineering Plastics Limited** have the unrivalled capability to design and produce high performance change parts with speed, accuracy and complete repeatability. Working in partnership with both major equipment manufacturers and end users, **Engineering Plastics Limited** packaging engineers develop the most cost effective solution to customers' requirements.

## The Material

The unique properties of **Engineering Plastics Limited High and Ultra High Molecular Weight (UHMW)** polyethylene, **the industry standard change part material**, provide optimum resistance to wear. Its ability to withstand high abrasion and impact and its high flexural strength make it ideal for handling glass at high speed performance levels. It will not fracture or delaminate. Its low co-efficient of friction, excellent sliding properties and high quality surface finish make it ideal for handling thin walled pre-printed cans and pre-sleeved containers.

- excellent abrasion resistance
- exceptional low wear
- high impact and strong flexibility
- low co-efficient of friction
- nil absorption
- good acid, alkali and chemical resistance
- compliance with all hygiene requirements
- comprehensive range of colours and grades



**Engineering Plastics Limited** also stocks other associated plastic materials i.e. nylon, acetal, P.T.F.E., P.E.T.P., PEEK, PVDF, polysulfone, PVC, polycarbonate, polyurethane and others.

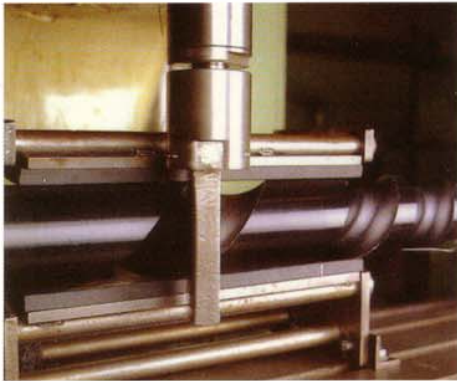
# Sophisticated Technology Guarantees Quality



Engineering Plastics Limited has an on-going policy of investment and material development. We have extensive, **sophisticated CNC machining equipment** which, together with our **CAD/CAM** link, ensures the complete repeatability of our components, which are machined to close tolerances and have a high quality finish, which produces the ultimate in bottle and can handling.



All Feedworms are produced on purpose-built CNC machines using a dedicated program written especially for us. This allows the manufacture of Feedworms with true acceleration, giving smoother container handling.

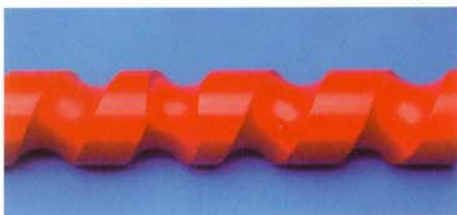


**Rounds**

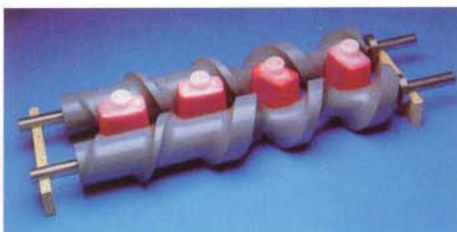


**Profiles**

Years of experience enable us to design Feedworms for round containers and also for many obscure profile containers. We can design Pause Worms, Combiner Worms, Transfer Worms and Orienting Worms (used extensively in the multi-packaging industry).



**Pause Worm**



**Orienting Worms**



**Various Worms**

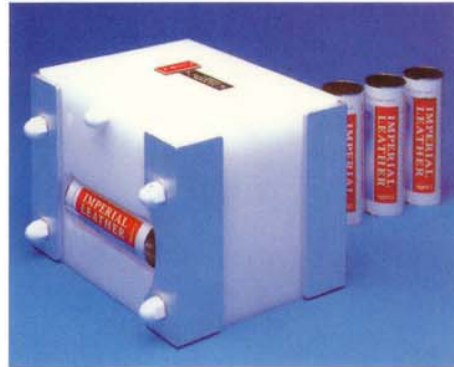
## Invertor Features

The B.M.H. Invertor is a most significant contribution to the improved handling of bottles, cans, cartons, tins and the many other articles in high volume production in all parts of the industrial world. Its design concept and practical application are so simple and logical that any production process which needs the product's normal attitude to be changed can now be integrated with smooth continuous flow.

Palletising, De-palletising, Washing, Rinsing, Draining, Drying, Air-jetting, Inspection, Mixing, Coding and Labelling are just some of the operations in which the B.M.H. Invertor can be used in the bottling and packaging fields. These, and many other processes in other industries can be added to the scope of this very simple and efficient product from Engineering Plastics Limited. The B.M.H. Invertor can be designed to give any change of attitude from upright to inverted (and vice versa) and any intermediate angle the process may need. B.M.H. Invertors can give any required sequence of attitude changes. There is no practical limit to the size, shape and nature of articles which can be handled. Any component which is already in high volume production is a likely candidate for improved efficiency with the B.M.H. Invertor in the production line. The range of applications throughout all industries is almost infinite.



This version has infeed and discharge Invertors linked with a centre guide rail section for airblowing or rinsing applications. The container is raised as it passes through the infeed Invertor to bring it out above the conveyor belt or slat. The rail section maintains this height (allowing you to fit a small air pipe between slat and containers). After processing, the discharge Invertor returns the containers to slat level.



The 90° Invertor widely used in the can manufacturing industry to lay a can cylinder down, prior to dropping into the seamer.



Because the Invertor system relies on line pressure to 'push' the containers through, and some customers may be restricted on the room needed to create line pressure, a side belt pressure unit is available. This unit can be supplied with variable speed drive and remote switching to stop and start pro rata with line requirements. This belt unit has also been used as a transfer system across cross-overs and dead plates. Containers can be transported across gaps in conveyors with no rotational motion from the container. This enables bar coding from under the slat level.