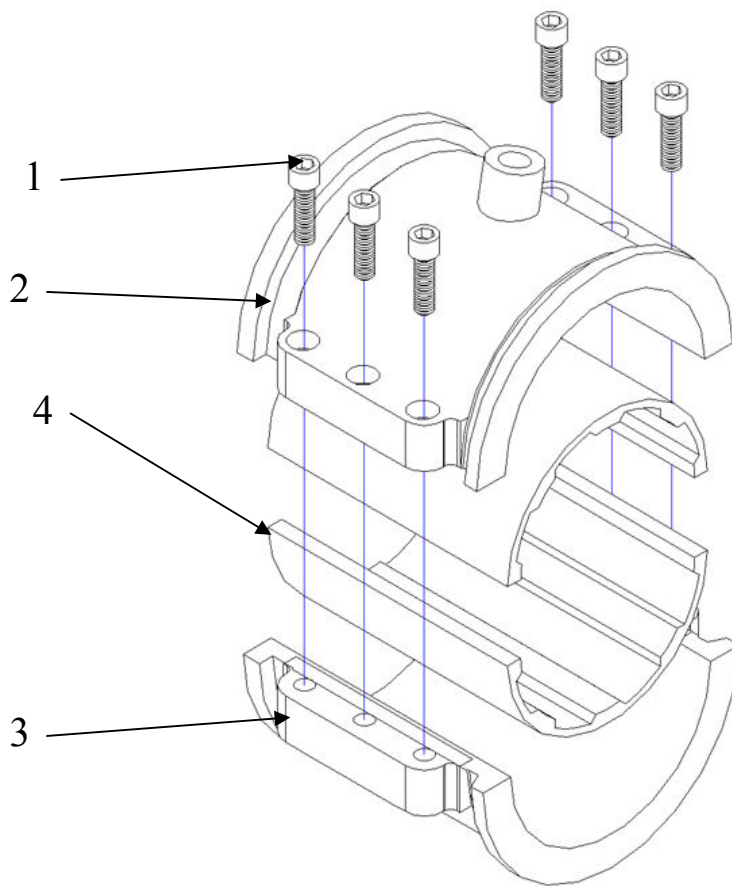


**Technical improvements for 1000 and 2000 model
Millbank extruders**

New Split Barrels



| Item | Part number | Description | Quantity |
|------|---------------|---------------------|----------|
| 1 | E100-BA139 | CAPSCREW M12 X 40 | 6 |
| 2 | E100-BA080 | SPLIT BARREL UPPER | 1 |
| 3 | E100-BA081 | SPLIT BARREL LOWER | 1 |
| 4 | E100-BA082 OR | NIHARD LINER | 2 |
| | E100-BA084 OR | STRAIGHT GROOVE | 2 |
| | E100-BA087 | NIHARD SPIRAL LINER | 2 |

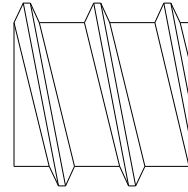
Benefits

1. Much easier to clean a blocked barrel. The barrels can be split and the blockage removed quickly, reducing downtime.
2. New liner designs. There are now 3 different designs.
 - a) The standard design with ni-hard liners replaces the one piece barrels and the wear ring to make the equivalent setup.
 - b) Straight groove liners allow for reduced shear and greater pressures to be generated in the machine. These are matched to barrel length screws
 - c) Spiral liners can be fitted which gives tremendous conveying action and allows the extruder to be run at higher capacity without back feeding, allows for much higher pressure in the extruder and will allow running with higher oil and/or water percentages.
3. Reduced cost. The replaceable liners are made from high wear material and will last much longer than the one piece barrels and the wear rings. It depends on the product and operation but for full fat soya the liners will typically last 5x longer than a 1 piece barrel. In addition the liners are only a fraction of the cost of a new barrel.

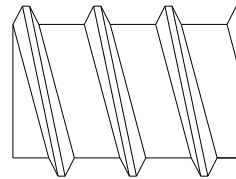
The old designs e.g. 1 piece barrels (E100-BA030) are still available and can be supplied

New Screw & Chokeplate designs

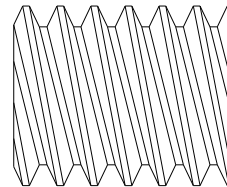
PRESSURE SCREW SINGLE FLIGHT SHORT
E100-BA056



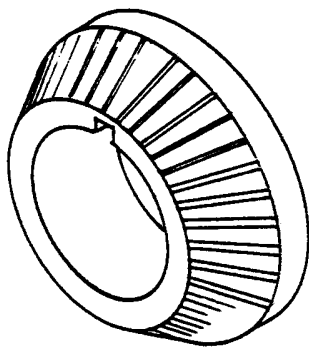
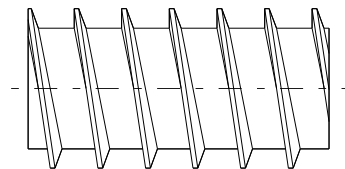
PRESSURE SCREW SINGLE FLIGHT LONG
E100-BA057
OR
SF SCREW 190MM
E100-BA092



PRESSURE SCREW DOUBLE FLIGHT LONG
E100-BA058
OR
DF SCREW 190MM
E100-BA093



INTAKE SCREW
E100-BA105



CHOKE PLATE 130-MACHINED E100-BA151

CHOKE PLATE 136-MACHINED E100-BA152

CHOKE PLATE 139-MACHINED E100-BA153

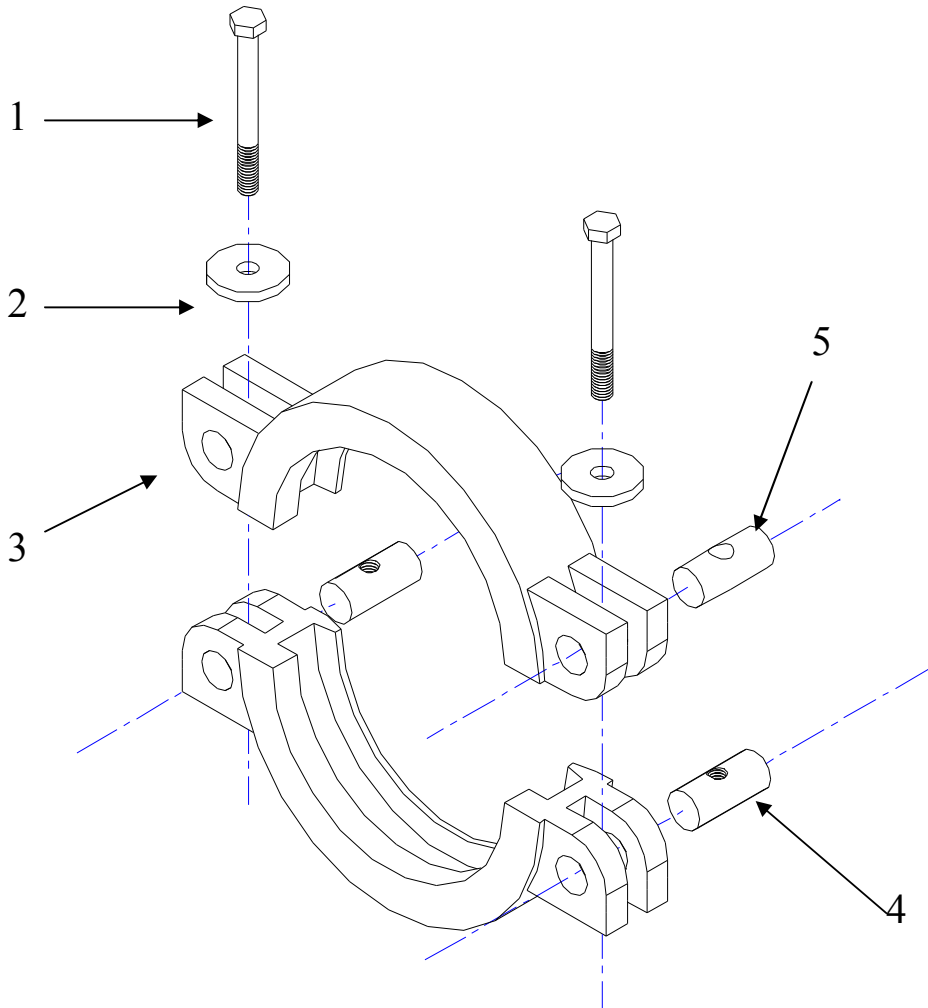
CHOKE PLATE 141-MACHINED E100-BA154

Benefits

1. New screws are machined to a high tolerance on the face as well as more closely fitting to the shaft. This will allow for more stable running of the extruder and will enable the addition of extra processing chambers if desired
2. New Choke plates are also machined to a high tolerance to give the same benefits as above
3. The 190mm screws are used with the straight groove and spiral liners
4. All screws are designed with a variation in orientation and pitch to enable the flights to match up giving the ability to construct a continuous screw design for products like pet and aquafeed

All the old designs e.g. un-machined choke plates are still available and can be supplied

New Clamp design



| Item | Part number | Description | Quantity |
|------|-------------|--------------------|----------|
| 1 | E100-BA138 | BOLT M12 X 110 | 2 |
| 2 | E100-BA135 | WASHER 50 X 13 X 6 | 2 |
| 3 | E100-BA134 | CLAMP | 2 |
| 4 | E100-BA136 | CLAMP PIN THREADED | 2 |
| 5 | E100-BA137 | CLAMP PIN PLAIN | 1 |



Benefits

1. Easier to use hinged assembly
2. Stronger design resulting in longer service life

Old designs are still available and can be supplied



About Us

JSConwell Ltd is a specialised company based in Palmerston North, New Zealand.

We have many years experience in the design manufacture and operation of single screw extruders around the globe.

JSConwell Ltd has been responsible for the design, manufacture and support of all Bühler millbank single screw extruders in the past, and now sell this equipment directly.

We pride ourselves on providing excellent customer service. In addition, our vast technical knowledge and experience ensures that you will receive the best equipment and advice on the market.

Our high quality equipment is designed to give our customers the best value. This is achieved by providing high capacity machines at a good price, efficient operation with low wear part replacement costs.

We have machines especially optimised for full fat soya bean meal processing.

If you have any questions or would like a quote please contact us.

JSConwell Ltd
www.jsconwell.com
Ph: +64 (0) 21 043 1027