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JSC Single Screw Extruders

- **501-SP Steam Conditioned Single Screw Extruder (93mm)**

Capacity 200- 500kg/hr

To suit the production of high quality shaped and unshaped products such as:

- Pet food
- Aqua feed
- TVP
- Snack foods

Some features of the 501-SP include:

- Heated/cooled barrels
- Various screw configurations
- Die mounted cutter head
- 50kW main drive including VSD
- Double chambered preconditioner including volumetric feeder and high moisture extruder feed auger

- **2000-SX Steam Conditioned Single Screw Extruder (133mm)**

Capacity up to 2000kg/hr

To suit the production of high quality shaped and unshaped products such as:

- Pet food
- Aqua feed
- Full fat soya bean meal

Some features of the 2000-SX include:

- Split barrels
- Heated/cooled barrels
- Various screw and liner configurations
- Die mounted cutter head
- 90kW main drive
- Single chambered preconditioner including volumetric feeder and high moisture extruder feed auger

- **2000-DRY Single Screw Extruder (133mm)**

Capacity up to 1000kg/hr

To suit the production of basic shaped and unshaped products such as:

- Pet food
- Aqua feed
- Full fat soya bean meal

Some features of the 2000-DRY include:

- Split barrels
- Various screw and liner configurations
- Die mounted cutter head
- 90kW main drive
- Volumetric feed auger

- **3000-SX Steam Conditioned Single Screw Extruder (133mm)**

Capacity up to 4000kg/hr

To suit the production of high quality shaped and unshaped products such as:

- Pet food
- Aqua feed
- TVP
- Snack foods
- Full fat soya bean meal

Some features of the 3000-SX include:

- Split barrels
- Heated/cooled barrels
- Various screw and liner configurations
- Die mounted cutter head
- 110kW main drive
- Double chambered preconditioner including volumetric feeder and high moisture extruder feed auger

- **6000-SX Steam Conditioned Single Screw Extruder (178mm)**

Capacity up to 7000kg/hr

To suit the production of high quality shaped and unshaped products such as:

- Pet food
- Aqua feed
- TVP
- Snack foods
- Full fat soya bean meal

Some features of the 6000-SX include:

- Split barrels
- Various screw and liner configurations
- Die mounted cutter head
- 160kW main drive
- Double chambered preconditioner including volumetric feeder and high moisture extruder feed auger

- **6000-DRY Single Screw Extruder (178mm)**

Capacity up to 4000kg/hr

To suit the production of basic shaped and unshaped products such as:

- Pet food
- Aqua feed
- Full fat soya bean meal

Some features of the 6000-DRY include:

- Split barrels
- Various screw and liner configurations
- Die mounted cutter head
- 160kW main drive
- Volumetric feed auger

- **51-SP Steam Conditioned Laboratory Single Screw Extruder**

Capacity up to approx. 50kg/hr

To suit the development of high quality shaped products such as:

- Pet food
- Aqua feed
- TVP
- Snack foods

Some features of the 51-SP include:

All stainless steel construction including frame, barrel, screw and liner components
9kW main drive
Single chambered preconditioner, with counter rotating shafts. includes volumetric feeder and high moisture extruder feed auger

Single Screw Extrusion Spare Parts

Spare Parts are available for the following brands:

JSC Extrusion

MILTENZ

MILLBANK

BühlerMillbank

And for the following Single Screw Extruders:

- 51-SP / BASL
- 500
- 1000 / BASG
- 2000 / BASN
- 3000-SX / BASF
- 6000-SX / BASH

Spare Parts Manuals are available for viewing and downloading at www.buhlermillbank.co.nz

Ancillary Equipment

1. Driers

- **VD005 Free flow vertical Drier**
Capacity up to 800kg/hr from 25% down to 10% moisture
- **VD010 Free flow vertical Drier**
Capacity up to 1500kg/hr from 25% down to 10% moisture
- **VD030 Free flow vertical Drier**
Capacity up to 3000kg/hr from 25% down to 10% moisture
- **VD050 Free flow vertical Drier**
Capacity up to 5000kg/hr from 25% down to 10% moisture

Specifications:

Counter flow design with adjustable bed depth. Automatic startup, shut down and over temperature alarm

2. Coolers

- **VC005 Free flow vertical Cooler**
Capacity up to 800kg/hr from 150°C maximum down to ambient +5°C
- **VC010 Free flow vertical Cooler**
Capacity up to 1500kg/hr from 150°C maximum down to ambient +5°C
- **VD030 Free flow vertical Cooler**
Capacity up to 3000kg/hr from 150°C maximum down to ambient +5°C
- **VC050 Free flow vertical Cooler**
Capacity up to 10,000kg/hr from 150°C maximum down to ambient +10°C
- **VC100 Free flow vertical Cooler**
Capacity up to 10,000kg/hr from 150°C maximum down to ambient +5°C
- **VC150 Free flow vertical Cooler**
Capacity up to 15,000kg/hr from 150°C maximum down to ambient +5°C

Specifications:

Counter flow design with adjustable bed depth. Automatic startup, shut down and over temperature alarm

3. Fans

- **FAN010 Centrifugal Fan**
Centrifugal fan for 1,500m³ per hour air flow
1.5kW 3phase motor wired to suit local power supply
- **FAN030 Centrifugal Fan**
Centrifugal fan for 4,000m³ per hour air flow
3.0kW 3phase motor wired to suit local power supply
- **FAN060 Centrifugal Fan**
Centrifugal fan for 6,000m³ per hour air flow
4.0kW 3phase motor wired to suit local power supply

Specifications:

Centrifugal with dynamically balanced rotor, direct driven off motor shaft

- **FAN100 Centrifugal Fan**
Centrifugal fan for 10,000m³ per hour air flow
11.0kW 3phase motor wired to suit local power supply

Specifications:

Centrifugal with dynamically balanced rotor, driven off twin V belts

- **FAN150 Centrifugal Fan**
Centrifugal fan for 14,500m³ per hour air flow
18.5kW 3phase motor wired to suit local power supply
- **FAN200 Centrifugal Fan**
Centrifugal fan for 25,000m³ per hour air flow
37.0kW 3phase motor wired to suit local power supply

Specifications:

Centrifugal with adjustable speed rotor driven by set of pulleys and V belts

4. Cyclones (Mild steel painted)

- **CYC030 Cyclone**
Airflow 4,500m³ per hour
- **CYC060 Cyclone**
Airflow 7,000m³ per hour
- **CYC100 Cyclone**
Airflow 11,000m³ per hour
- **CYC150 Cyclone**
Airflow 15,000m³ per hour
- **CYC200 Cyclone**
Airflow 26,000m³ per hour

5. Rotary Valves (Stainless steel)

- **RV010 rotary valve**
- **RV012 rotary valve**
- **RV030 rotary valve**
- **RV060 rotary valve**

6. Fat Coaters

- **FC010 Fat Coater**
- **FC030 Fat Coater**

Specifications

Stainless steel rotating drum gently tumbles product to ensure even coating of pellets

- **FC050 Fat Coater**

Specifications

Externally driven stainless steel rotating drum gently tumbles product to ensure even coating of pellets