

EXCEL SCREW PRESS

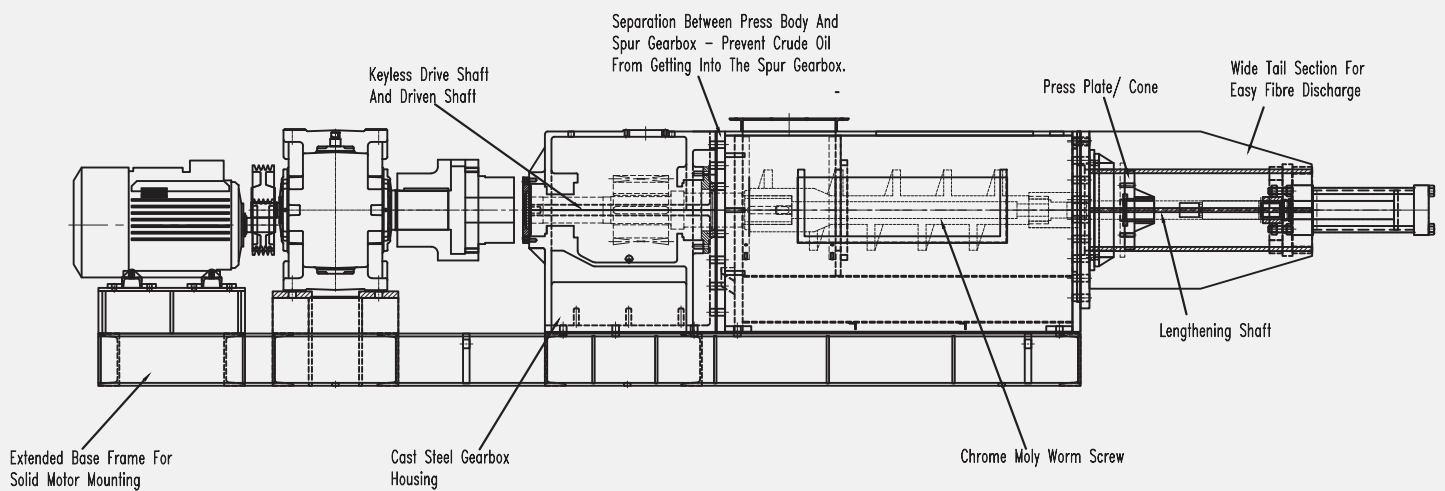


Palm Oil Mill Equipment Specialist

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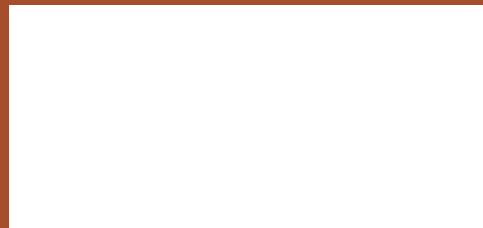


SCREW PRESS



MODEL	EXCEL P15	EXCEL P20	EXCEL P25
Type		Double Worm Screw	
Capacity	15-17 tons FFB/hr	20-22 tons FFB/hr	25-27 tons FFB/hr
Motor	30kW (40hp)	45kW (60hp)	45kW (60hp)
Gearbox		Helical Gearbox	
Running Amp	35-50	50-70	50-70
Average Oil Loss (Dry Basis)		6-8%	
Average Nut Breakage		8-11%	
Pressing Plate / Cone Pressure	40-60 bar	50-70 bar	50-70 bar

For further information, please contact sales office, or:



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Excelmech Engineering Sdn. Bhd. (Company No. 862039-X)

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SCAN ME

EXCEL FRUIT DIGESTER



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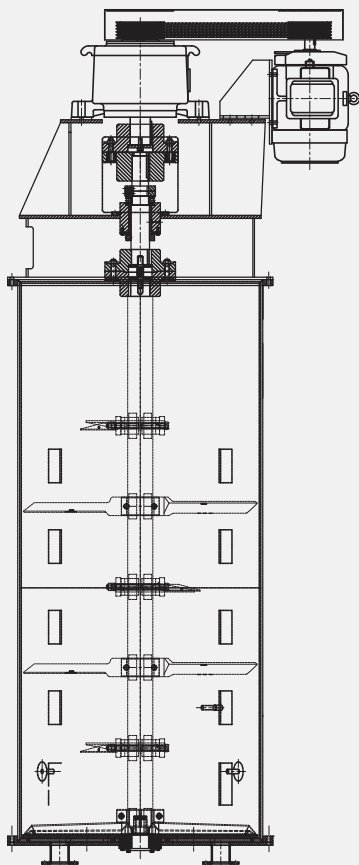
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FRUIT DIGESTER

Fruit Digester come with intermediate shaft for long operational life of parts, easy alignment and easy maintenance.

1. Capacity: 3,500 litres to 6,500 litres.
2. Perforated stainless steel bottom plate
3. Intermediate connecting shaft for easy installation and maintenance.
4. Thrust bearing provided on intermediate shaft and square shaft.



SHELL & DRIVE



DRIVE

- Electric Motor 30hp to 60hp
- Fluid Coupling
- Speed Reducer: SEW, Flender, Hansen, Elecon.

CONNECTING SHAFT

- Flexible Top Coupling.
- Ball Thrust Bearing 51320.
- Intermediate connecting shaft .
- 110mm to 130mm ASSAB 705/709 material.
- Fixed bottom coupling.

DIGESTER SHELL

- 114 SQ. or 125 SQ. M.S./ASSAB 705 Shaft c/w SS304 lining.
- 4 pairs or 5 pairs beater arms
- 1 pair bottom expeller arms

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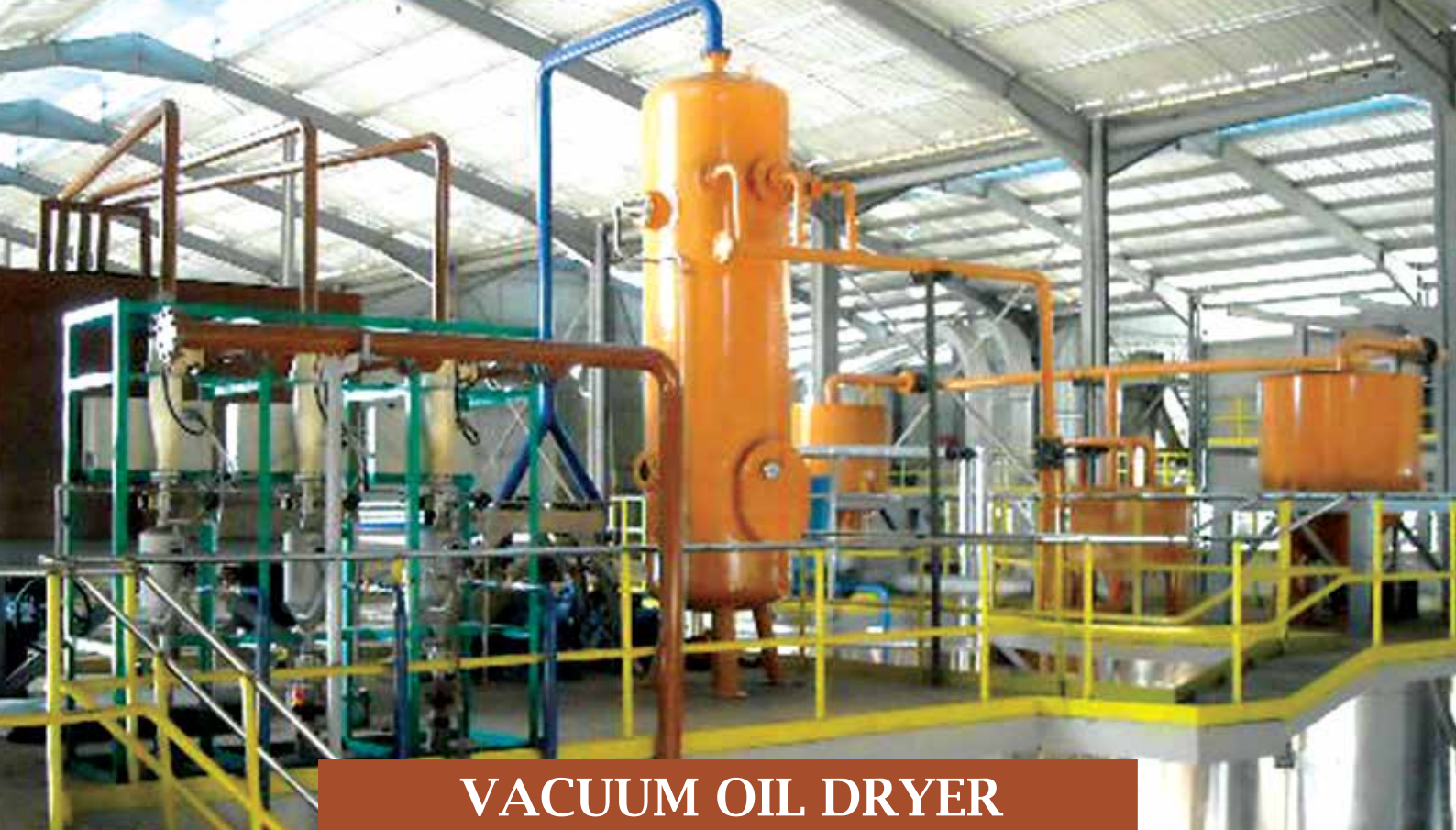
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EXCEL VACUUM OIL DRYER



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VACUUM OIL DRYER

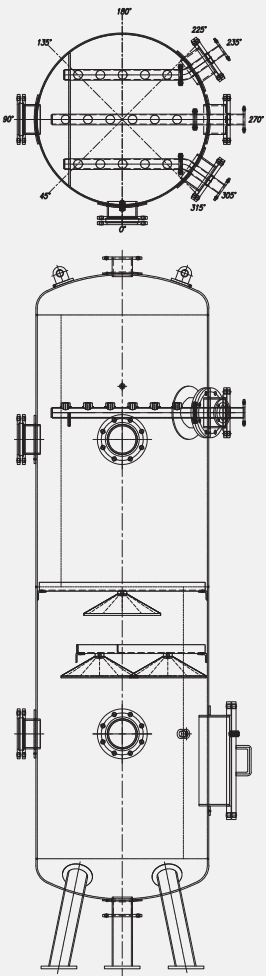
Vacuum Dryers are used for the drying of palm oil under vacuum before sending it to the CPO storage tank.

MAIN FEATURES

- Capacity range from 5-25 tons/hr.
- Reduce moisture content in dried oil to 0.08%.
- Operation under vacuum at 760mm HG.
- Vessel designed to ASME code Sect. VIII Div.1.
- Material of mild steel and stainless steel or fully stainless steel.

APPLICATIONS (CLARIFICATION STATION)

- The oil to be dried is pumped at a temperature of at least 90°C, to a float tank. From there it is sucked into the Vacuum Dryer via nozzles.
- The oil will leave the nozzles in the form of a spray.
- Any moisture contained in the oil is vaporized and removed from the Vacuum Dryer by the vacuum generating equipment.
- The dried oil collected at the bottom of the Vacuum Dryer is removed by a pump.
- The dried oil pump is prevented from running dry by a float valve fitted inside the Vacuum Dryer or using Mobrey switch.
- The float valve controls the oil level in the re-circulated from the pressure side of the dried oil pump.
- Air is prevented from entering the Vacuum Dryer by a float controlled valve in the feed tank.



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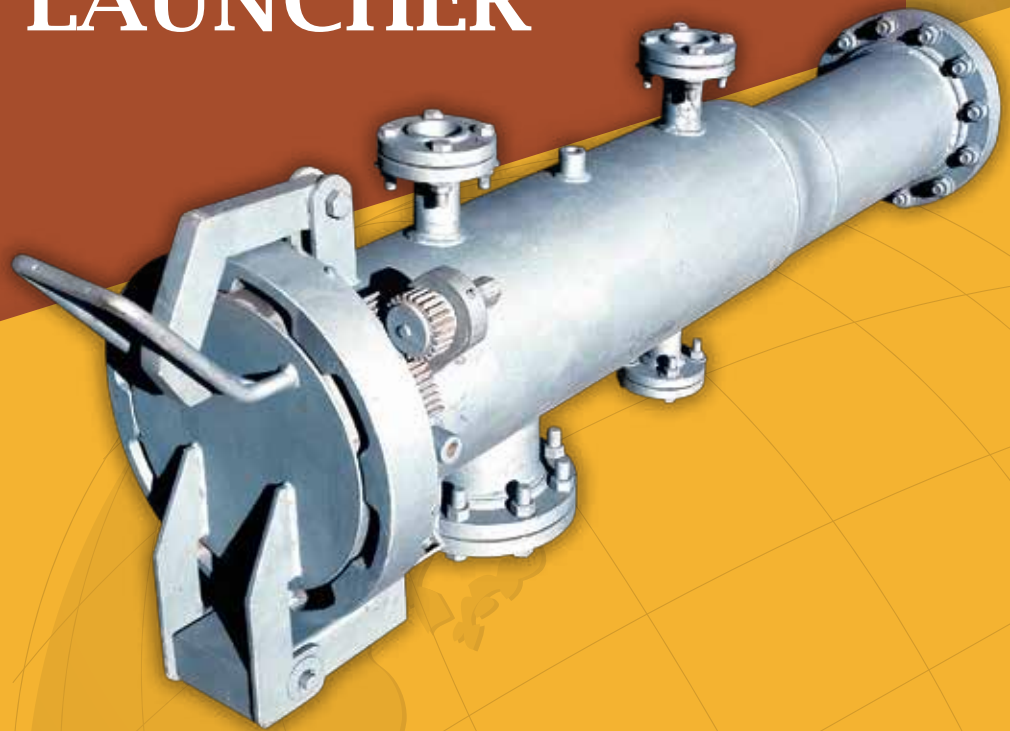
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SCAN ME

EXCEL PIG LAUNCHER

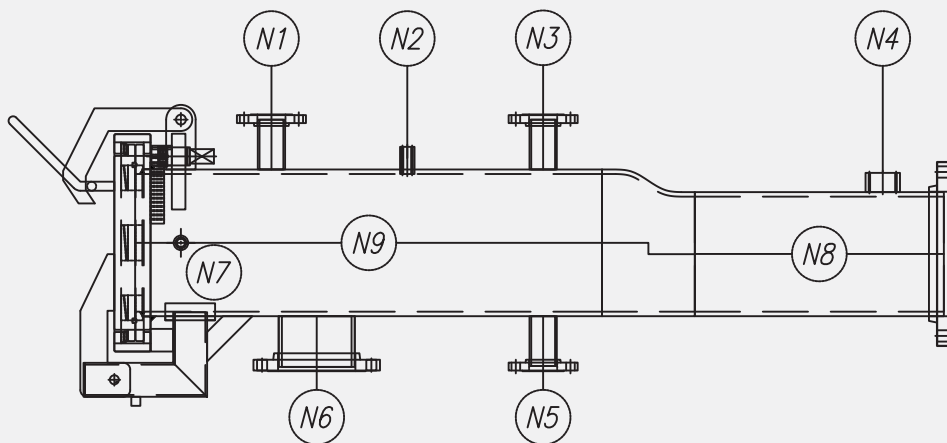


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PIG LAUNCHER



ACCESSORIES

1. Pig Signaller
2. Cleaning Pig
3. Separation Pig
4. Foam Pig

SPECIFICATION

Design Code : ASME SECT. VIII DIV 1
 Working Pressure : 1,000 - 2,000 kPa
 Design Pressure : 1,000 - 2,000 kPa
 HT Pressure : 1,300 - 2,600 kPa
 Medium of Service : Oil

NO.	SIZE	FUNCTION
N1	50	Air Inlet
N2	15	Pressure Gauge
N3	50	Air Vent
N4	50	Pig Signaller
N5	50	Drain
N6	150	Bypass
N7	15	Relieve valve
N8	250/200	Pipe outlet
N9	300/250	Pipe inlet

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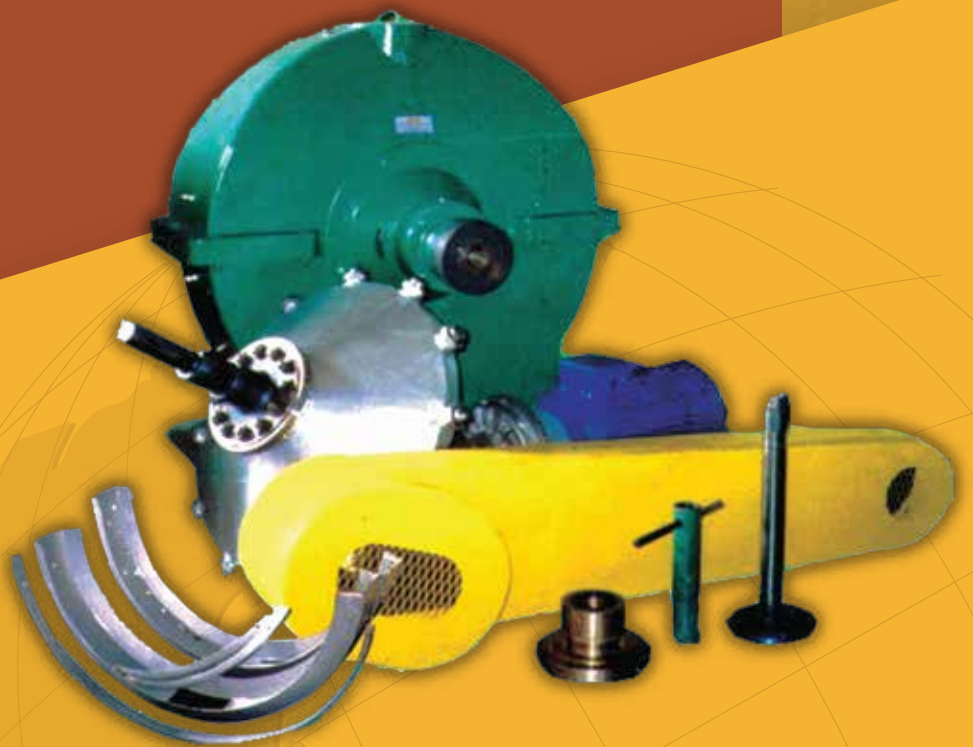
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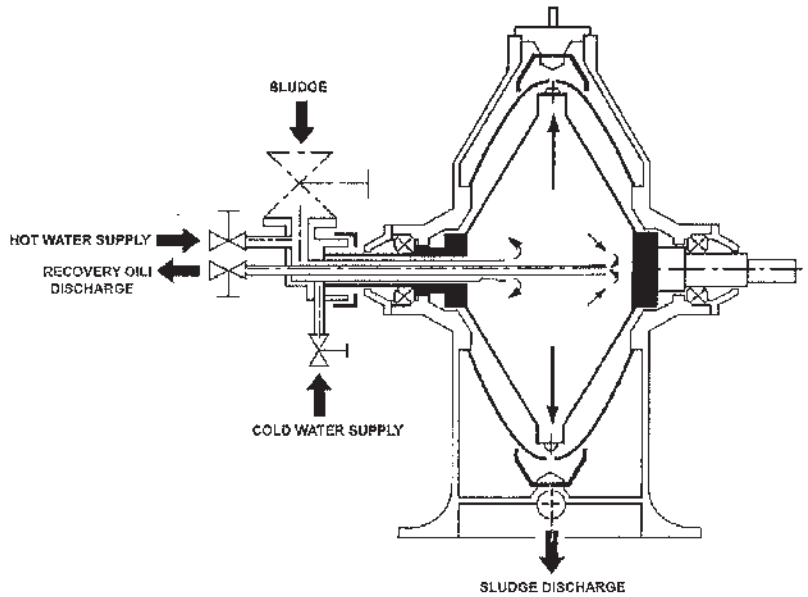
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SLUDGE SEPARATOR



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SLUDGE SEPARATOR

INTRODUCTION

Sludge Centrifuge come with robust design to maximize the process to recover the palm oil present in the sludge water from oil clarification station. This sludge centrifuge physical size is small but the operating capacity is higher. This sludge centrifuge are Dish Bowl type with 12 nozzles. The rotation speed is maintain at 1500 r.p.m with capability of achieving higher capacity of 8000 litres per hour of sludge while maintaining normal oil loss.

ADVANTAGES

- Increase productivity and efficiency of oil recovery.
- Higher capacity in term of power to space and weight ratio.
- Easy to operate.
- Balancing of the dish bowl by specialist is not required.
- Less vibration and maintenance cost.
- Better shearing effect on sludge resulting in reduction of sludge viscosity.

SPECIFICATION

Capacity	8000 Litre/Hour
No. of Nozzles	12
Motor	15kW (3 Phase) x 4 Pole F/t Mounted
Fluid Coupling	11 KSD
Rotor Speed	1500 rpm
Transmission	V Belt and Pulley
Bearing	SKF
Rotor Material	6mm Stainless Steel 304L
Nozzle	Tungsten Carbide
Casing/Housing	Cast Iron
Media Parts	Stainless Steel 304L

The **advantage** using dish bowl is that it doesn't required specialist or special equipment to balance it compare to star bowl. Mill personnel can easily calibrate or balanced it without any issue.

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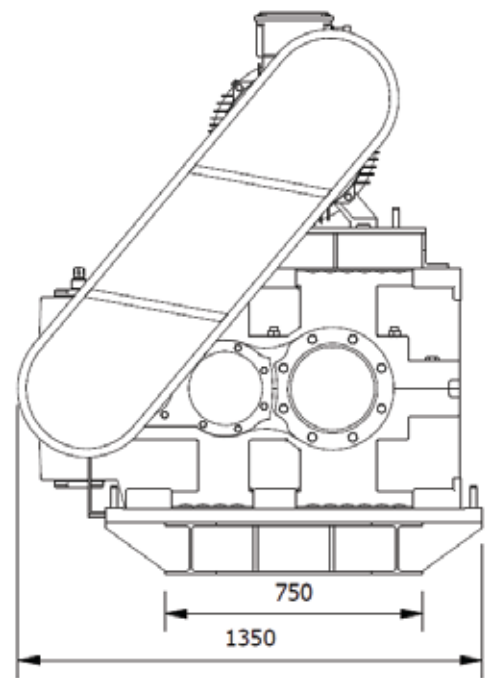
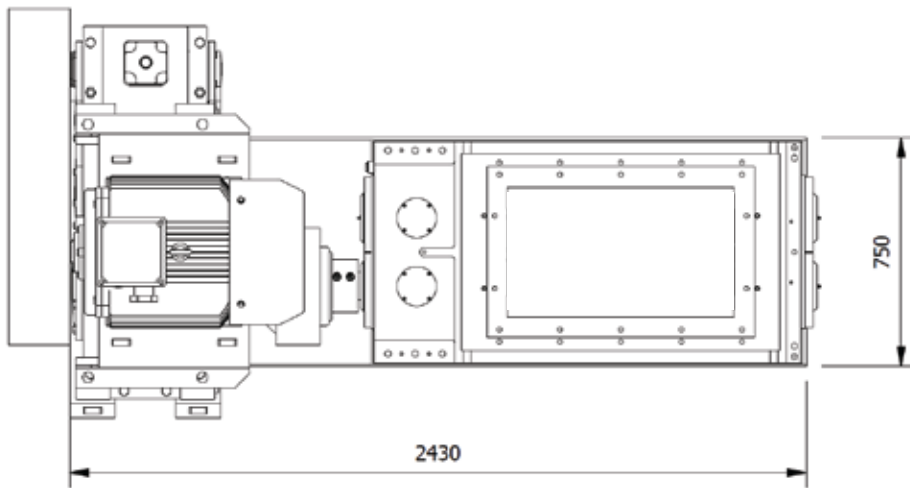
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EXCEL EFB SHREDDER

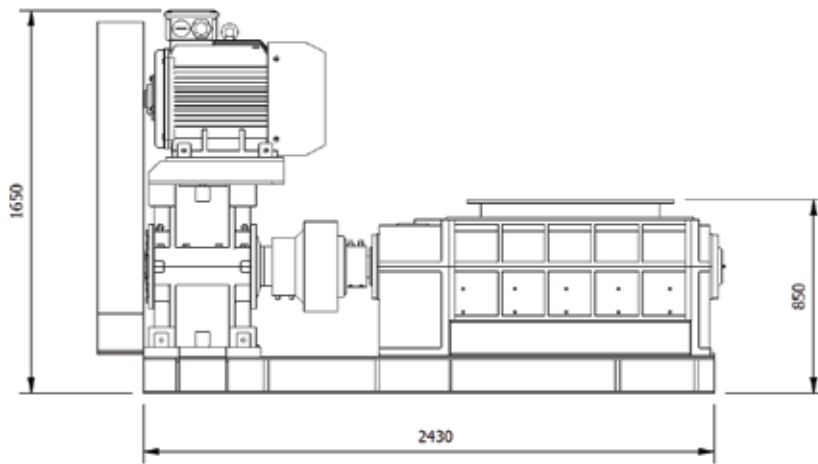


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EFB SHREDDER



EXCEL EFB SHREDDER

Model	EXCEL EFB SHREDDER 8
Type	Twin Knives
Capacity	7 – 8 Tons EFB/hr
Main Frame	Cast Steel
Base Frame	Mild Steel
EFB Cutter	Hardened Steel Cutter
Shaft	ASSAB 705
Bearing	SKF / FAG
Gearbox	SEW / Sumitomo Paramax
Motor	75 hp x 1,480 rpm
Final Speed	45 rpm
Empty Bunch Fibre Length	50 mm – 125 mm

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EXCEL EFB PRESS

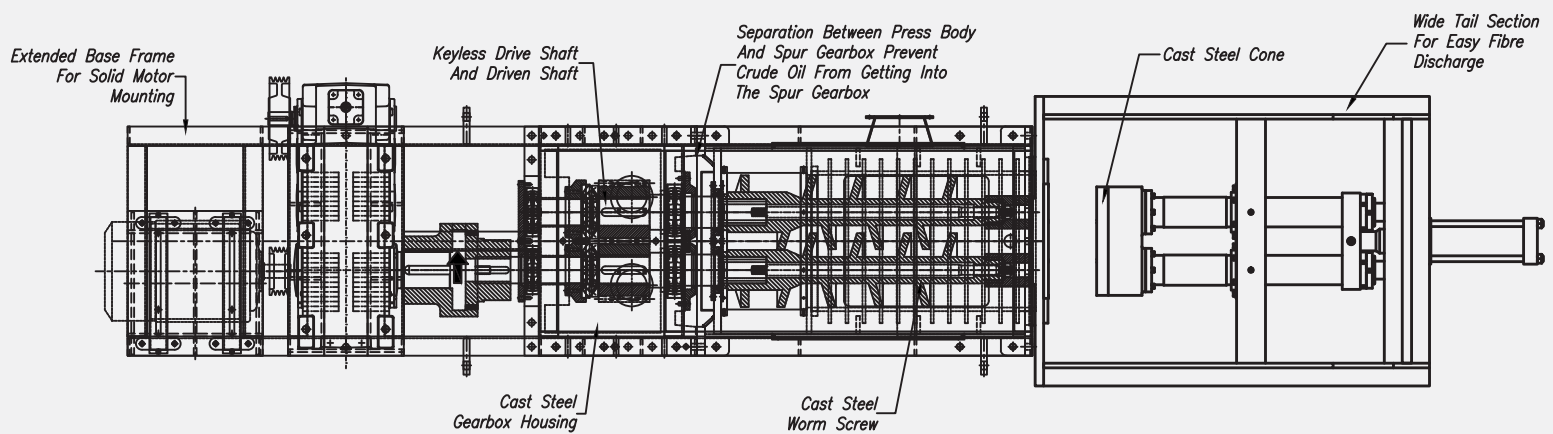


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EFB PRESS



EXCEL EFB PRESS

Model	EXCEL EFB PRESS 8
Type	Twin Screw
Capacity	7 – 8 Tons EFB/hr
Moisture in EFB	45 – 50 %
Main Frame	Mild Steel & Cast Iron
Base Frame	Mild Steel
EFB Press Screw	Manganese steel screw with hard facing
EFB Press Cage	Mild steel c/w reinforcement rings
Shaft	ASSAB 705
Bearing	SKF / FAG / NTN
Gearbox	SEW / Sumitomo Paramax / Benzler
Motor	60 HP x 1,450 rpm
Final Speed	24 rpm
Oil Extraction Rate	0.1 – 0.2 % FFB

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SCAN ME

EXCEL FFB CRUSHER



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FFB CRUSHER

INTRODUCTION

FFB Crusher is used to crush the FFB hard bunches to ease steam penetration during the sterilization process.

It is proven to decrease the percentage of uncooked bunches and helps to increase the efficiency of sterilization process.

SPECIFICATIONS

MODEL	EXCEL FFB CRUSHER
TYPE	SINGLE DRIVE
CAPACITY	45 TONS FFB/HR
MOTOR	37 KW
GEARBOX	SEW MC3PLSF04
FINAL SPEED	32 RPM & 21 RPM
BEARING	UCF BEARING, UCFCX20D1
TRANSMISSION	PULLEY AND BELT
MAIN FRAME	MILD STEEL
BASE FRAME	MILD STEEL



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EXCEL EFB CRUSHER



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EFB CRUSHER

INTRODUCTION

EFB Crusher is used to crush the unstripped hard bunches to loosen the bunches thus ease the separation of the fruits from the bunches during the threshing process.

SPECIFICATIONS

MODEL	EXCEL EFB CRUSHER 50T
TYPE	SINGLE DRIVE
CAPACITY	10 TONS EFB/HR
MOTOR	15 kW
GEARBOX	PREMIUM WORM GEARBOX U800
FINAL SPEED	35 RPM & 25 RPM
TRANSMISSION	PULLEY AND BELT
MAIN FRAME	MILD STEEL
BASE FRAME	MILD STEEL

MODEL	EXCEL EFB CRUSHER 60T
TYPE	SINGLE DRIVE
CAPACITY	12 TONS EFB/HR
GEARMOTOR	APEX GEARMOTOR 22 KW
FINAL SPEED	35 RPM & 25 RPM
TRANSMISSION	GEARMOTOR TYPE
MAIN FRAME	MILD STEEL
BASE FRAME	MILD STEEL



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