

LINEAR

- LPG Series
- LPT Series



- HDR Series
- SMR Series
- TD Series



PROTECT

DRIVE



- TSB Series
- TSM Series

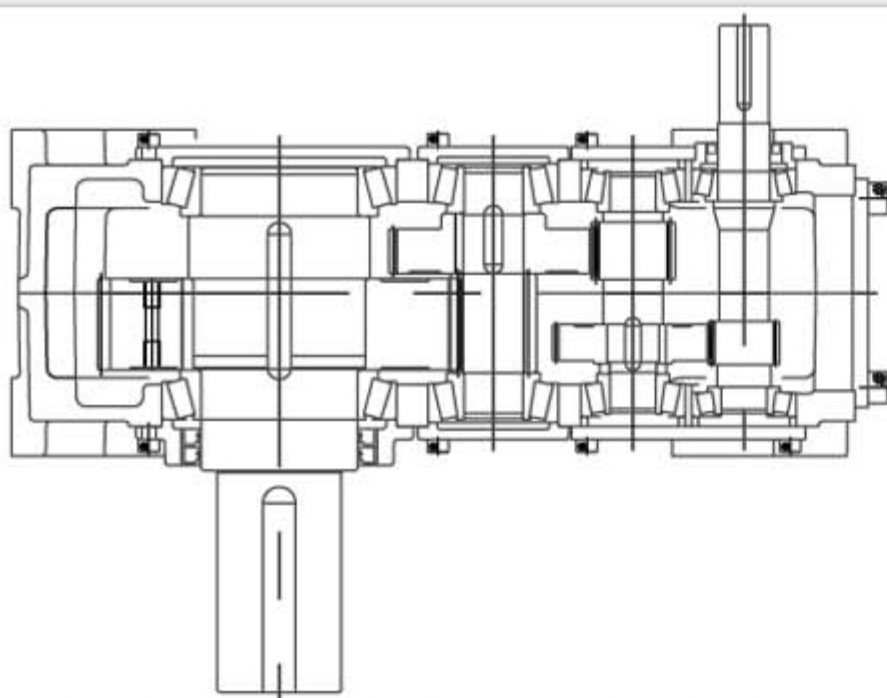
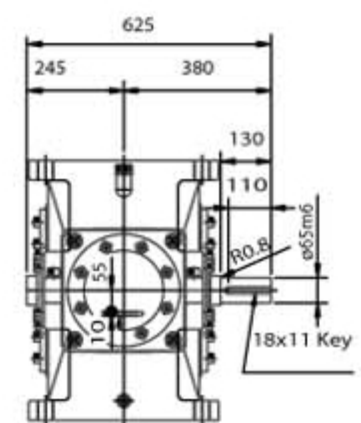
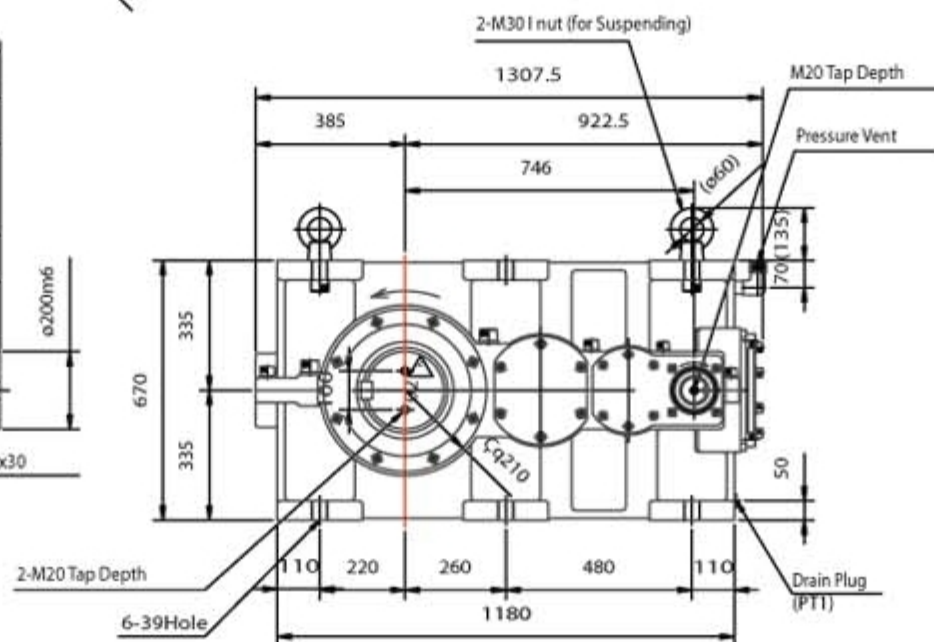
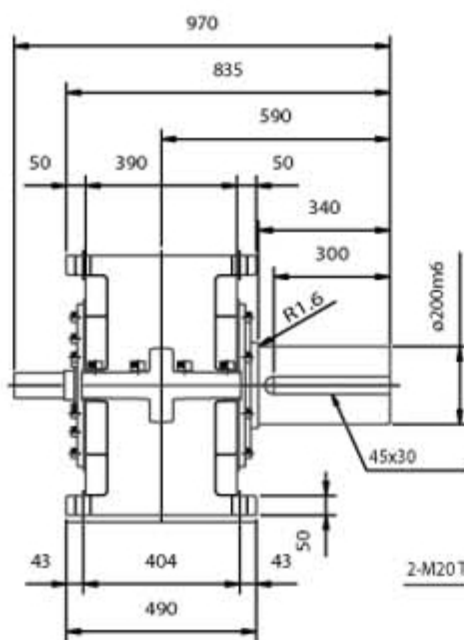
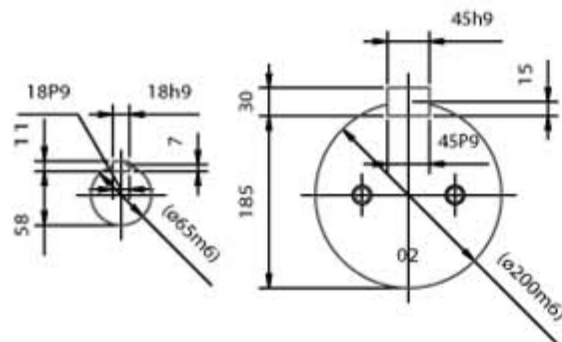
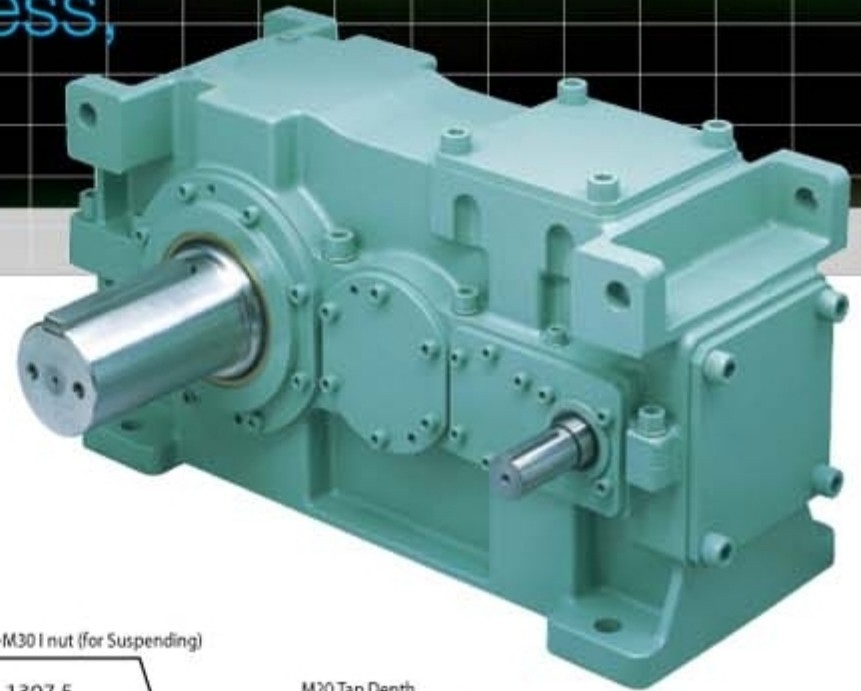
TSUBAKI PTC PRODUCTS

PALM OIL MILL

DRIVE

Helical Power Drive: Reducer

Karnel Expeller, Screw Press,
Empty Fruit Bunch Press



1/33

Helical Power Drive

HDR0803-1/56-PK

kW Rating: 1/56

Rated Torque: 72kN

OHL: 100kN

Gear ratio 1/56

Input Rpm	kW Rating	Allowable Torque(Nm)
1750	240	66709
1450	200	67092
1150	165	69791
950	140	71683

SPECIAL WORM / TROIDAL WORM



SMR



LINEAR

Power Cylinder: Electrical Screw

Sterilizer Open/Close/Lock
Diverter, Hopper Gate, Fruit Gate

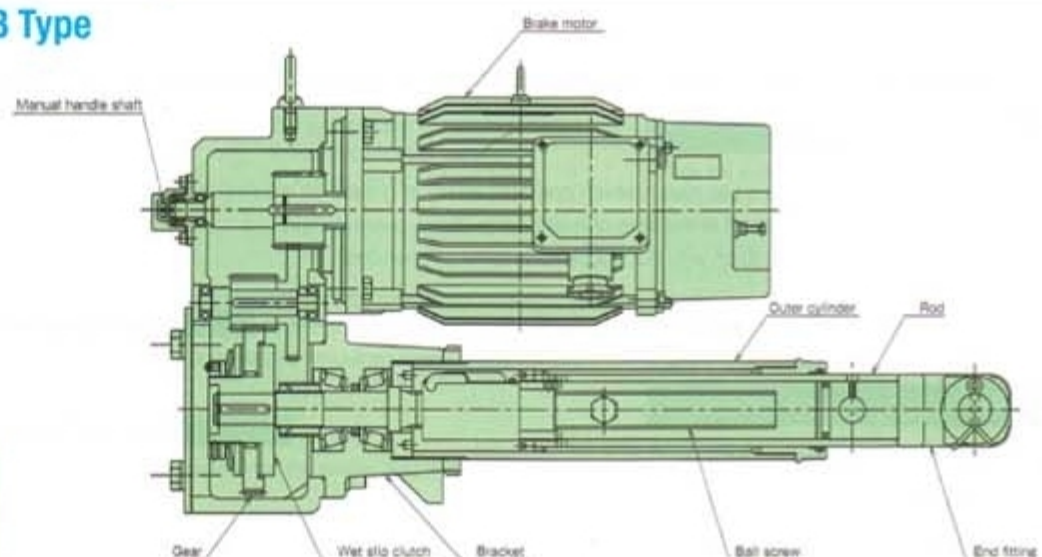
Power cylinder is well designed for Linear Actuator

- **MILL AUTOMATION**
Power cylinder contribute fully automated mill with simple system.
It could have feedback with Encoder or Potentiometer option.
- **SIMPLE LAYOUT**
Power cylinder required only power cable to operate and easy wiring.
Not required piping or many accessory like Hydraulic or pneumatic cylinder.
- **LESS MAINTENANCE**
You will be release from maintenance trouble.
- **SAVE MILL OPERATION COST**
Power consumption is much lower than other system.
VS Hydraulics; 16.6%
VS Pneumatics; 5.5%
At Thrust Load 1000kg, 2 times/min x 12hrs/day x 250 days/year
- **SAFETY**
Over load protection is built in.

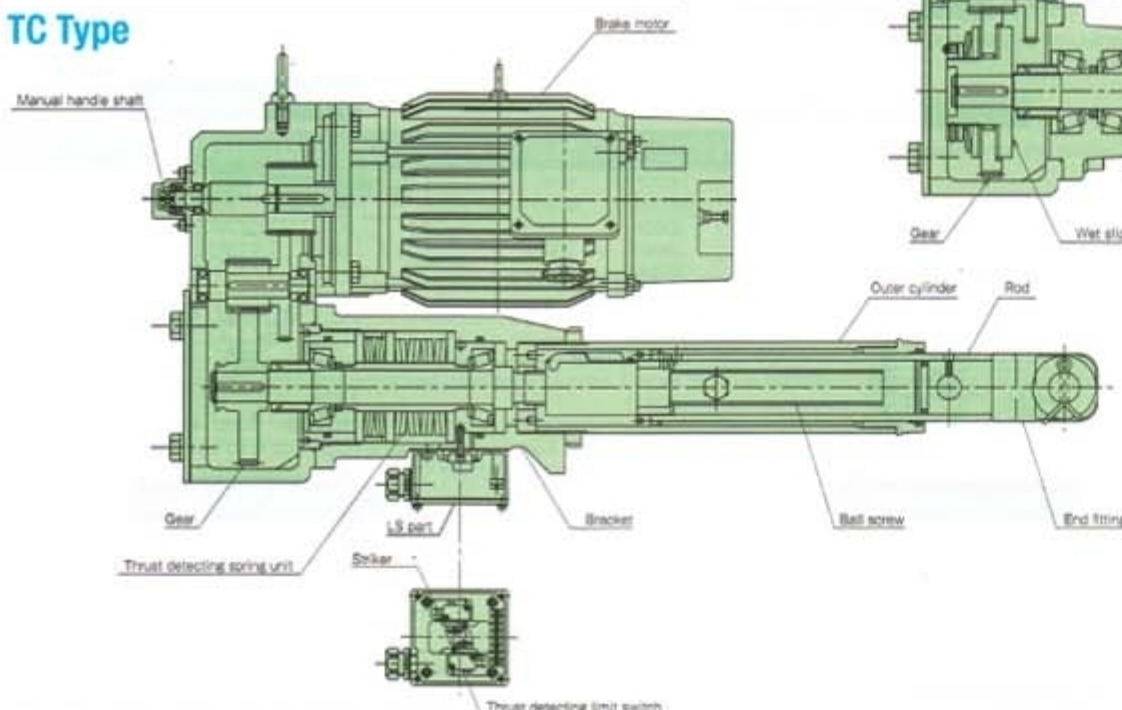


Thrust load: 40kg to 32ton
Stroke: Up to 3 meter

TB Type



TC Type



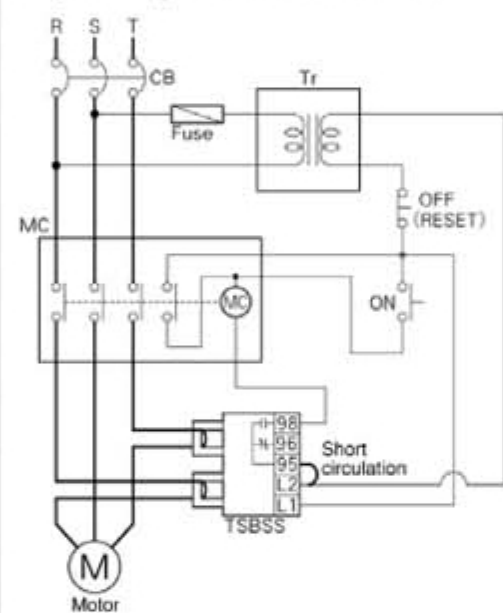
PROTECT

Shock Relay/Shock Monitor: Safety

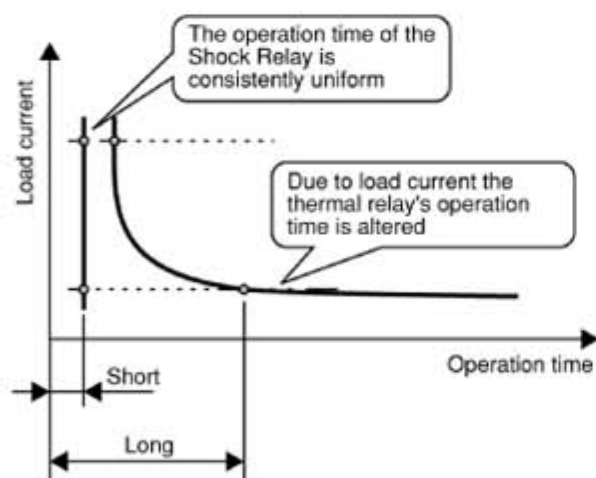
Chain/Belt/Screw Conveyor
Press Machine/Crusher



Simple wiring & install in control box



Different between thermal relay



Protect Equipments from over load

- Protect Equipments from Over Load
- SHOCK RELAY protects overload with motor current.
- It could be installed in the control panel with simple wiring.
- SHOCK RELAY protects not only motor but also your machine with quick detect min in 0.2 sec.
- You could save money with this suitable protection device .
- You may use smaller SF for mechanical parts.
- Compact design with built in CT.

Products range

Shock relay TSB series
kW: 0.1 to 132kW

Further accurate model

Shock monitor TSM series
kW: 0.1 to 110kW

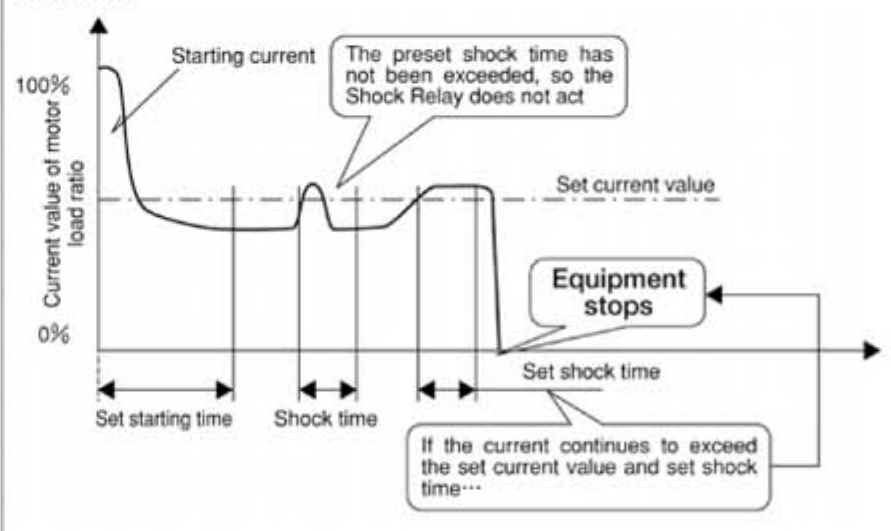
Option

- Digital display
- Analogue display
- Under load

Option

- Built-in forward/reverse sequence
- Load following type
- Contact detection type

Time chart



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