



ELEVATOR DRIVE
petra
SAFE
SMOOTH
AND
RELIABLE



Premium Energy Transmission Ltd. provides most comprehensive range of gearboxes for over 50 years in India. Wide range of Power Transmission products offered by Premium enjoys the domestic and international reputation for quality and reliability.

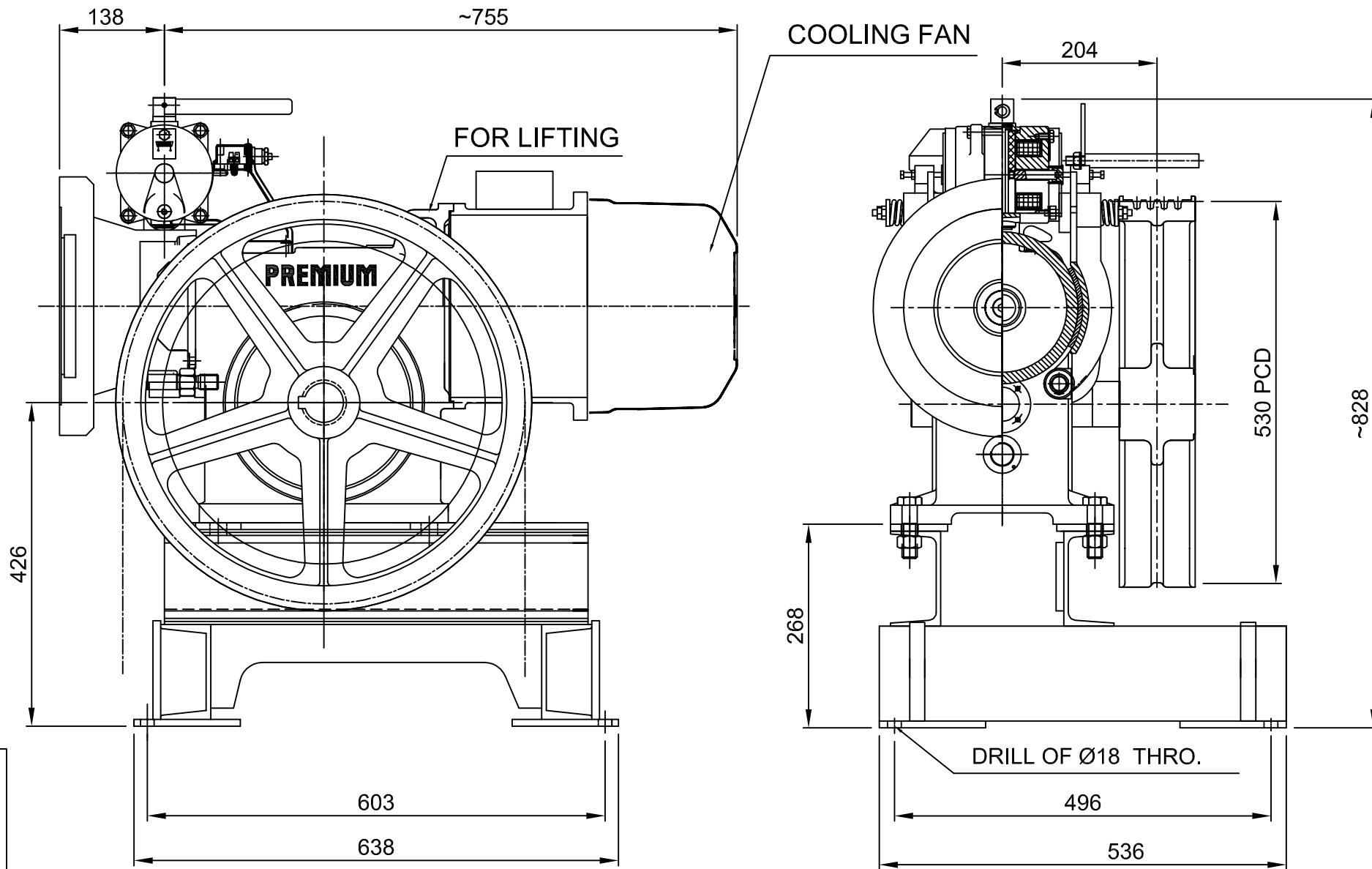
In the journey of 50 years, **PETL** has become major source for 'worm wheel' and 'worm shaft' supplier for all major elevator machines manufactures.

In order to meet meet the customer demand for highly reliable, safe and trouble free smooth performance elevator machine, **PETL** has entered into a technical collaboration with **SICOR S.p.a, Italy** a leading manufacturer of elevator machines in Europe.

These machines are manufactured in Premium's Pune Plant, equipped with the latest machine tools, testing & inspection facilities.

Technical Details

- **Gear Casing** : Petra machine gear cases are of rigid cast iron construction, with esthetic styling.
- **Traction Sheave Shaft** : Traction sheave shaft i.e. output shaft is made of high tensile alloy steel.
- **Worm Shaft** : The worm shaft is made of alloy steel and specially processed for elevator application. The worm threads are profile ground to high accuracies. The angular / taper contact bearing arrangements on worm shaft ensures a perfect alignment with motor.
- **Worm Wheel** : The worm wheel design consists of centrifugal cast phosphor bronze rim shrink fitted to a hub.
- **Traction Sheave** : The traction sheave is made of specially developed SG alloy casting with controlled hardness to increase wear resistance.
- **Electric Drive** : Electric motor is specially designed for Elevator application and rating and is based on 50% counter weighing . Options are available for VVVF, Two Speed (AC2) / Single speed (DOL) motor.
- **Brake System** : The fail safe type electromagnetic shoe brakes are designed to operate on 110 volts D.C. The braking effect through spring may be manually released for emergency hoisting under power failure.
- **Lubrication** : The worm shaft and worm wheel as well as the bearings are all adequately lubricated by oil.
- **Base Frame** : Total elevator i.e. gear box , motor, brakes are mounted on the rigid compact fabricated steel base frame.



TECHNICAL SPECIFICATIONS:

- MAX LOAD CAPACITY :- 6 PASSENGERS (450 KG)
- STATIC LOAD CAPACITY :- 2600 KG
- MAX O/P SHAFT TORQUE :- 1138 Nm
- RATED SPEED :- 1.0 m/s
- NO. OF ROPES & ROPE DIA :- 4 ROPES & 10MM DIA
- SHEAVE PCD :- 530 MM
- GEAR BOX RATIO :- 1/40
- INPUT SPEED :- 1500 rpm
- ELECTRIC MOTOR :- 5.5 KW (7.5 HP) AT 1500 RPM
380 V; AC VVVF
INSULATION CLASS "F", IP 21
- BRAKE :- FAIL SAFE ELECTROMAGNETIC BRAKE WITH
220 V DC SUPPLY

NOTE:-
ALL DIMENSIONS ARE IN MM
DIMENSION FROM CAST SURFACES WITHIN ±3MM

**GENERAL ARRANGEMENT FOR
SLM-127 LIFT UNIT**


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ALTERATIONS

△	ROUGH MACHINE
△△	SMOOTH MACHINE
△△△	POLISHED OR GROUND
△△△△	MIRROR FINISH
sf	- SPOTFACE
✓	- CLA

	SCALE : NTS
DRAWN	DPC
CHECKED	MMD
PASSED	
DATE	16-04-14

Premium Transmission Limited
Unit - I
Chinchwad Pune - 411019
India



DRG. No. - B 50 L 612 0000