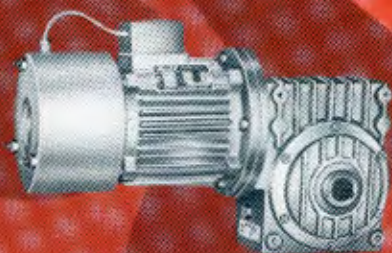
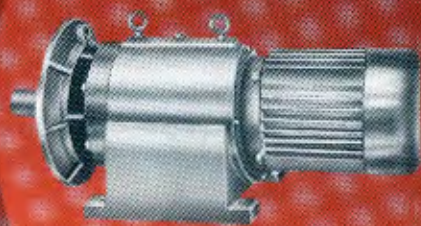
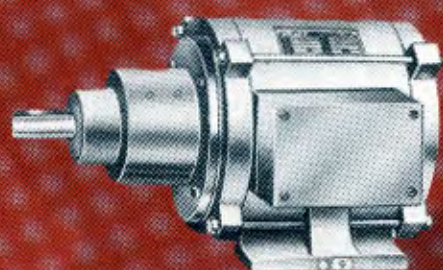
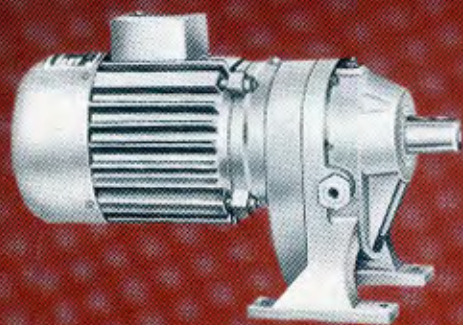


Shakti

GEARED MOTORS



SHAKTI IS POWER

Shakti GEARED UNITS

SHREE SHAKTI Geared Motors are designed to provide, a most efficient, economical and compact drive for low speed Applications. It is a most compact combination of an electric motor (A.C. or D.C.) and a gear box (helical, worm or epicyclic) converting the high speed of the prime mover to low speed with maximum efficiency. These units are manufactured under the supervision of trained, technical personnel, with strict quality control, and with latest technical knowhow.

SHREE SHAKTI Geared Motors and Gear Boxes are available in single, Double, Triple and Quadruple reductions. Combination gear units such as Heliworm, Hollow shaft etc., are also manufactured. They are available in foot, foot cum flange, Agitator type of mountings. The opposite page illustrates some of these designs.

The motor body, end covers, gear boxes are manufactured from close grained cast iron. All the gears and pinions are made out of top grade special alloy steels, which are heat treated and lapped for long life and silent running. The ball/roller bearings used are of good quality and are suitable for heavy duty application. The input and output shafts are of high quality steel. For low speeds, the motor shaft has integral pinion and the shaft is made out of special alloy steel.

The Electric Motor is designed for trouble free, economical performance. It seals off the input side of the gear box. Normally it is totally enclosed, fan cooled, continuously rated, Class B insulation operating on 400/440 volts, 3 phase, 50 cycles A.C. supply as per I.S:325. Class F or H insulation, IP 55 enclosure etc. can be offered.

The lubrication of bearings, gears, pinions is achieved by splash lubrication which provides ample and positive flow to all of them. Oil leakage is prevented due to the provision of oil seals. No special care is needed except periodic topping up of the lubricating oil to the required level.

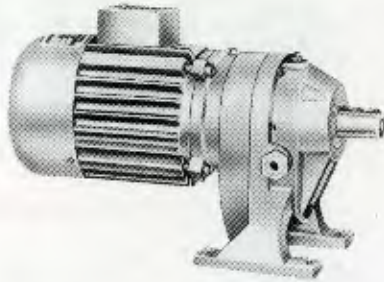
SHREE SHAKTI GEARED MOTORS are warranted for Twelve Months against any manufacturing defects.

A questionnaire is given at the back for you to fill in. This when sent along with your enquiry, will enable us in offering you the most suitable geared motor for your application.

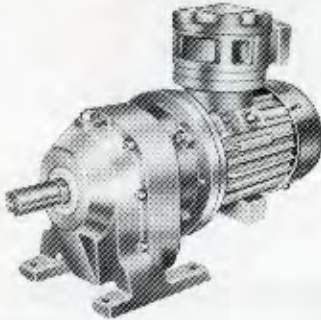
SPECIAL PURPOSE/CUSTOM MADE GEARED MOTORS. We undertake to manufacture Geared Motors as per your specifications if our Standard units do not fit in.

We can offer geared motors fitted with flame proof motors or Dual or Triple speed motors, motors of your choice, D.C. motors etc.,

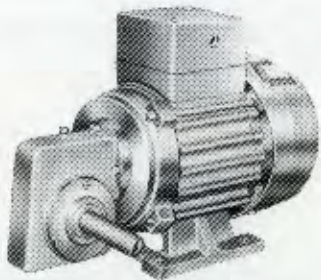
RANGE OF GEARED MOTORS AND GEAR BOXES



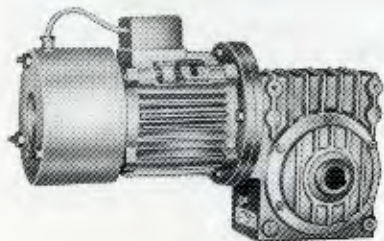
HELICAL GEARED MOTORS, Two stage reduction, horizontal foot or vertical flange mounting type continuously rated, rated power 0.09 Kw to 15 Kw, torques from 50 NM to 2000 NM, Output speed 0.1 RPM to 500 RPM.



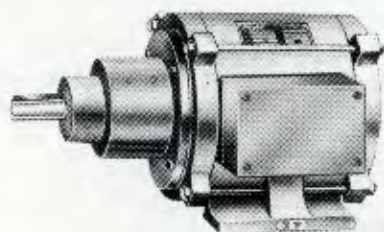
Similar to above mentioned HELICAL GEARED MOTORS but fitted with Flame Proof Electric Motors. Similarly Dual Speed, Triple Speed Electric Motors could be provided to obtain dual, Triple Speed Geared Motors. D.C. Gear Motors along with thyristor controller offered.



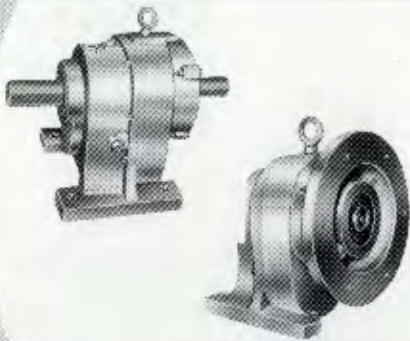
WORM GEARED MOTORS, foot or flange mounting type, rated power 0.09 Kw to 25 Kw, in various ratios giving Output Speed 12.5 to 200 RPM with proper selection of input speed and ratio, Output torque 20 NM to 6000 NM.



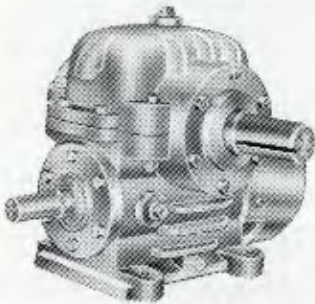
WORM GEARED MOTORS same as described above but with Hollow Output Shaft which enables to mount the Geared Motor on the driven shaft without any need for foundation etc. Electro-magnetic Disc brake is shown which can be provided to other type too.



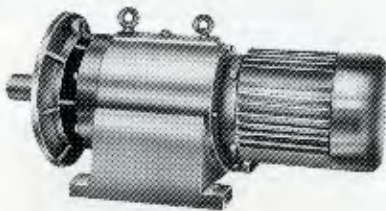
EPICYCLIC GEARED MOTORS give very low RPM in most compact size, very high reduction ratios are possible, thereby obtaining very low revolutions. These designs are not recommended for Heavy Duty Applications.



ADOPTA GEAR BOXES are Helical Inline Gear Boxes, designed to mount flange type I.E.C. Standard Electric Motors. Inline Helical Gear Boxes shown here are suitable for coupling to I.E.C. Standard motors. Foot Mounting. For the capacity refer to **STANDARD GEARED MOTORS**.



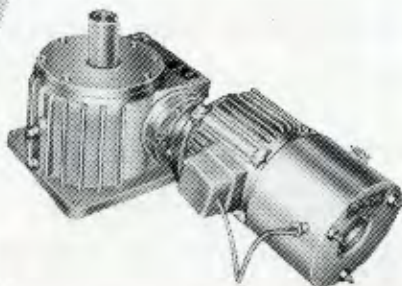
WORM GEAR BOXES from 1 1/8" Crs to 10 1/2" Crs 7:1 Ratio to 60:1 Ratio having universal, horizontal, flange type of mountings suitable for coupling to the prime mover.



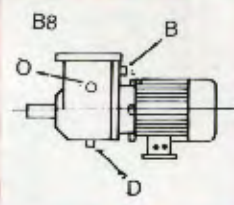
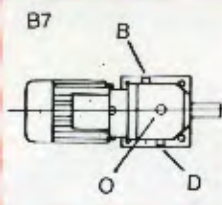
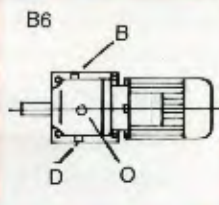
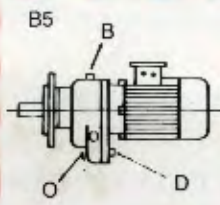
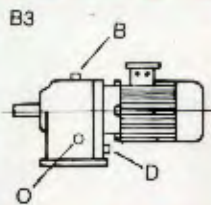
HEAVY DUTY THREE STAGE GEARED MOTORS give low RPM in the most compact and in the most economical price. 0.37 Kw to 25 Kw, output torque 50 NM to 15,000 NM, output speed 3.0 RPM to 300 RPM, horizontal foot or flange mounting.



HOLLOW SHAFT HELICAL GEARED MOTORS flange mounting type are most suitable for stirrer duty. The depth of the stirrer can be adjusted freely without disturbing the arrangement.



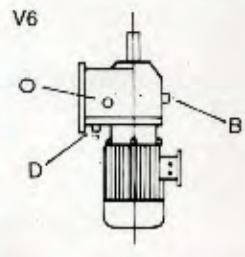
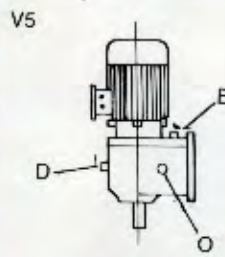
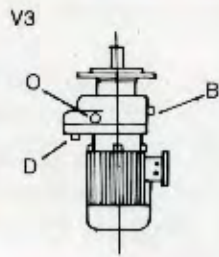
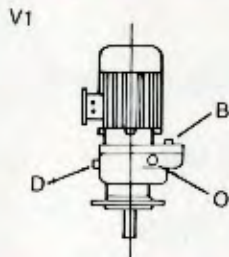
CUSTOM BUILT UNITS is our speciality. We can offer you various type of combinations such as mounting dimensions, type of insulation, degree of protection, dual speed, triple speed, flame proof, D.C. etc. We can develop a **GEAR DRIVE SYSTEM** as per your requirements.



D - Drain plug

O - Oil level indicator

B - Breather plug and oil filler



QUESTIONNAIRE

Kindly fill up this questionnaire to enable us in recommending the most suitable
GEARED MOTOR:

- 1) Power to be transmitted _____ Kw/Hp
- 2) Power supply _____ V _____ Ph. _____ C/s
- 3) Output RPM required: _____ RPM \pm _____ % (Please indicate the tolerance)
- 4) Variable speed needed No/Yes (Min. speed _____ Max. speed _____)
- 5) Type of mounting:
 - a) Horizontal B3/B5
 - b) Vertical V3/V6/V1/V5
- 6) Output torque needed _____ Kgm.
- 7) Service factor _____
 - a) Duty hrs/day i) 8 Hrs ii) 12 Hrs iii) 24 Hrs
 - b) Type of load i) Uniform ii) Moderate shock iii) Heavy shock iv) High inertia loads.
 - c) Number of starts/stops per Hour/shift
 - d) Reversible (if any) _____ Nos/Hour
- 8) Is the unit required to stop instantly _____ Yes/No (We can provide Electromagnetic brake on the motor, to stop the unit instantly)
Whether brake is to be provided _____ Yes/No.
- 9) Load on the output shaft
 - a) Radial _____ b) Axial _____
- 10) Details about worm gear box, if previously used
 - a) Ht. of centre _____ b) Ratio _____
- 11) Environment:
 - a) Ambient Temp. _____ $^{\circ}$ C
 - b) Corrosive _____ Yes/No
 - c) Explosive _____ Yes/No
- 12) Class of Insulation needed: B / F / H
- 13) Type of enclosure: T.E.F.C. (IP44), Weather proof (IP55)
- 14) Method of starting - DOL / Star Delta / Any other method
- 15) Any other special requirements

Please tick whichever is applicable, we shall appreciate if you will send it typed on your letter head.

SHAKTI ENGINEERS

8-F, NEW EMPIRE INDUSTRIAL ESTATE (A), J.B. NAGAR,
KONDIVITA ROAD, ANDHERI (E), BOMBAY-400 059. TEL.: 8219870 • FAX : 91-22-8351397
E-mail: shaktiengr@vsnl.com