

MACHINE CUT DOUBLE HELICAL WHEELS

have long been appreciated, but the old processes of making them, either by bolting together one right-hand and one left-hand helical wheel, or by milling out the teeth singly by means of a small milling cutter, make the wheels not only too expensive but do not admit of the highest accuracy.

Our process of cutting Double Helical Wheels in one operation on a special double generating machine (Patent) ensures that high degree of accuracy, without which this type of gear has more drawbacks than advantages. It ensures absolute uniformity of all the teeth of a wheel, and theoretically accurate shape. The process is applicable to solid and split wheels, and the smallest pinions as well as the largest wheels are being cut by the same tools.

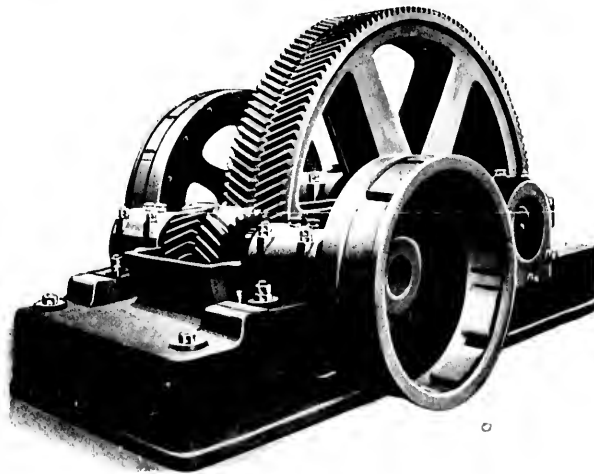
Double Helical Wheels should have a great width in proportion to their pitch. Our minimum standard width is equal to six times the pitch.

To avoid delay, enquiries and orders should always contain the following particulars:—

- Power to be transmitted by gear in B.H.P.
- Speed of driving shaft.
- Ratio of reduction.
- Distance between centres of shafts. If possible a certain margin should always be allowed.
- Pitch and width of face, if decided upon.
- Diameter of bore of pinion and wheel.
- Length of boss, whether flush with the rim or extended on one or both sides.
- Dimensions of keyways: if we are expected to cut same.
- If possible, sketch showing the arrangement required.
- Number of wheels of one size to be ordered at one time.
- Whether wheels are to be solid or split.

ENQUIRY FORMS WILL BE SENT ON APPLICATION.

We call special attention to our high ratio Single Reduction Gears, and to our patent "D.R." Gears, which have all the advantages of Worm Gears without any of their drawbacks.



Self-contained Single Reduction Gear: 140 H.P., 280-15 R.P.M.

Manufactured by THE POWER PLANT COMPANY, Limited,
WEST DRAYTON, MIDDLESEX, ENG.