

An ISO 9001:2015 Certified Company

OM ENGINEERING WORKS

Fabrication of All Crane Duty Gear Boxes

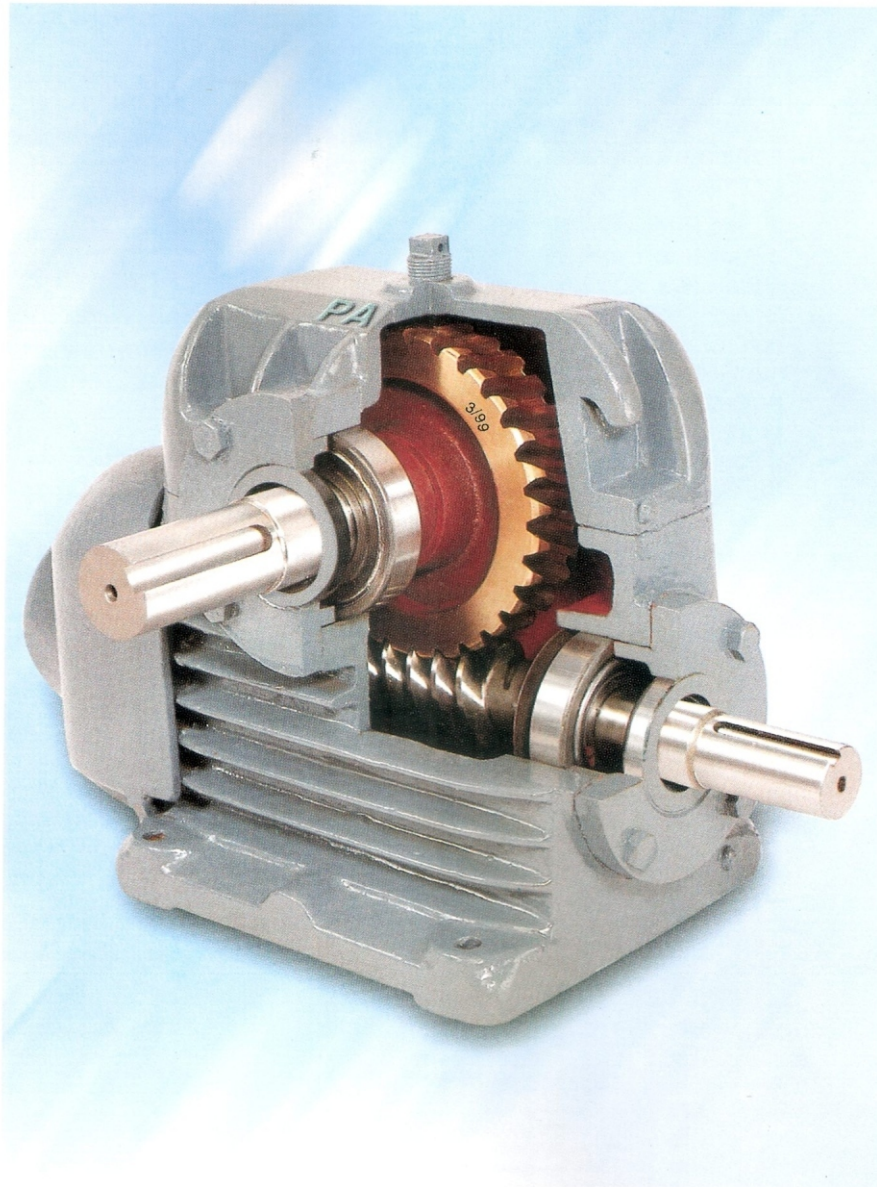


®

www.omengineeringworks.in

E-14 , Maya Puri Industrial Area, Phase-II, New Delhi-110064  8860705952, 9560885952

REDUCTION GEARS



Serving Gear Industry for over 30 years

UNIQUE FEATURES OF REDUCTION GEARS

Introduction :

Single and Double Type Reduction Gears are manufactured in our most sophisticated factory; fully equipped with imported machines catering to the latest technology. Each Padam Reduction Gear is manufactured by technical hands. Every Padam Reduction Gear goes through a rigorous quality test before being despatched. We have the unique distinction of getting back any gear due to manufacturing defect.

1. The Housing : Made from the best grade of cast iron duly seasoned to stand tropical conditions. It is of neat mechanical appearance and strong construction having a large capacity oil reservoir. All faces and bores are accurately machined on imported machines to ensure the perfect alignment. The case is made completely oil tight and dust proof.

2. Worm : The worm is of special Alloy Steel duly hardened grounded on imported cnc thread grinding machine. Worms are generated on special purpose imported worm milling machines.

3. Worm Wheel : Made from selected grade of phosphorus bronze, cast under controlled conditions to give best combination of strength and bearing properties. The worm wheels are hobbled on precision hobbing machines with high accuracy grinded hobs. Each and every wheel is checked to match with the master worms to ensure complete interchangeability.

4. Wheel Shaft : The wheel shaft is of carbon steel to carry the torsional stresses and bending loads.

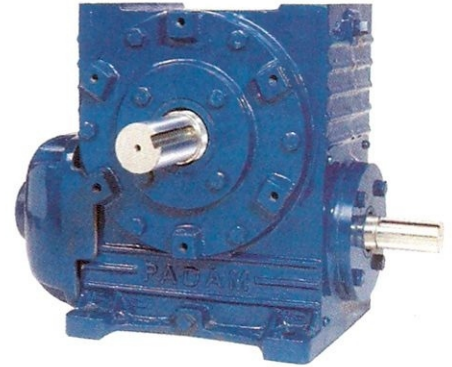
5. Bearing : The worms and worm wheels are supported on ball or roller antifriction bearings to take the radial as well as thrust load. SKF Bearings are used depending upon availability or other wise standard make are used.

6. Lubrication : Oil bath lubrication is provided to lubricate both the shaft bearings and the gear sets for extra smooth running, to effectively circulate the oil to the high and low speed bearings depending on the working position of the unit.

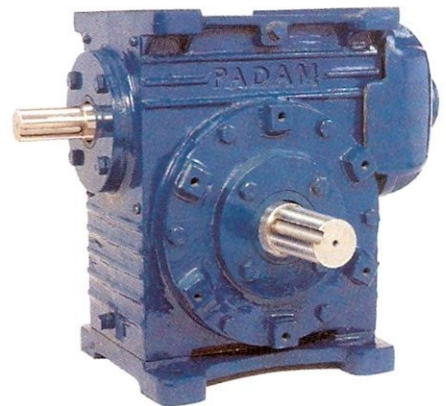
7. Cooling : Air cooling is effected by means of standard plastic or metal fans which direct a continuous flow of air over the ribbed surface of the case. Suitable fans and ribs are provided for cooling.

8. Test and Inspection : Proper tests are carried out during and after manufacturing. A full speed test is carried out to verify smooth and noiseless operation.

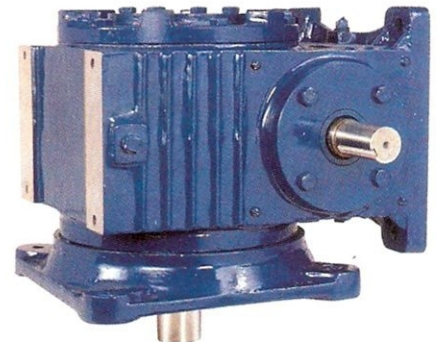
NEW SERIES OF GEAR BOXES



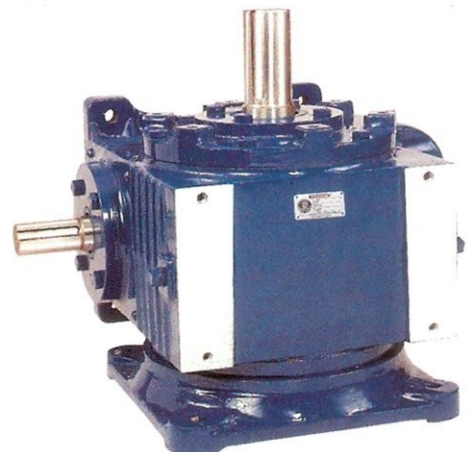
Type : NS/H:
Size : 1.5" to 6"
Ratio : 5 to 70



Type : NS/O
Size : 1.5" to 6"
Ratio : 5 to 70



Type : NS/VD
Size : 1.5" to 6"
Ratio : 5 to 70



Type : NS/VU
Size : 1.5" to 6"
Ratio : 5 to 70

COMPANY PROFILE

OM ENGINEERING WORKS with its unmatched strengths in technical expertise and commitment to customers, has pioneered radical changes in the Gear Box Industry in India. With superior R & D and quality-control, Padam has been manufacturing Gear Boxes which have redefined excellence.

Its comprehensive range of Gear Boxes include horizontal, vertical and universal models. Not satisfied with this, Padam has even upgraded its operations to manufacture Gear Boxes for special application and also as per customer specification.

But this improvement of technology is not accompanied by an elevation in prices. In fact, INDIAN policy of high production reduces the fixed cost per unit to a level which enables



to price its products at a lower rate, thereby ensuring a higher value for money.

It is OEW determination to excel and its adherence to international standards of quality control ensures that all the Gears and worms are perfectly hardened and grounded, thus ensuring a trouble-free longer life of the Gear Box.

It also realises the importance of after sales - service to its customers. For this, Padam has a ready inventory of spare parts and a team of qualified engineers with a commitment to provide superior after sales service to its valued customers.



It is no wonder that excellence in Indian Gear Box Industry is synonymous with Padam

Details Required for Selection of the Gear unit :

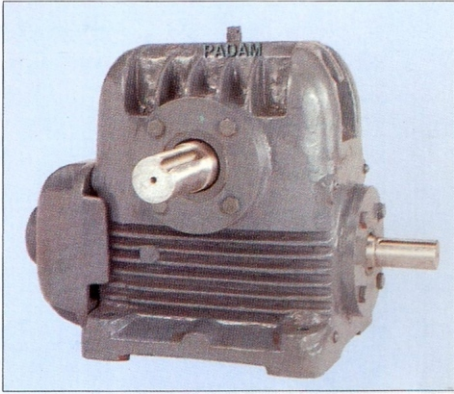
1. Input Horse Power.
2. Input R.P.M
3. Output Speed of Gear Unit.
4. Ratio of the Gear Unit required.
5. State desired input and output of shafts position whether horizontal, upward, downward or Worm over-head.
6. Duty hours/day the gear unit will be in operation.
7. Type of load (Continuous, Shock, Reversal)
8. Type of Machine for which Gear Unit is required.
(Conveyor Agitator, Rotary, Dryer, Rubber mixer, etc.)

Horse Power Rating Table For All Types of Worm Reduction Gear Units Size of units

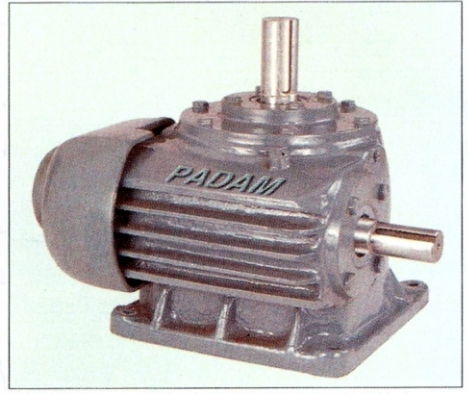
Gear Ratio	Input R.P.M.	Output R.P.M.	2" HP	2.5" HP	3" HP	3.5" HP	4" HP	5" HP	6" HP	7" HP	8" HP	10" HP	12" HP	14" HP
5:1	1500	300	2.30	3.10	6.20	10.20	13.60	20.30	35.20	49.80	63.50	87.00	114.00	158.00
	1000	200	1.80	2.50	5.00	8.20	11.10	16.30	28.00	39.00	48.00	68.00	90.00	125.00
	750	150	1.40	2.00	4.10	6.70	9.20	13.40	22.00	31.80	40.00	56.00	78.00	115.00
10:1	1500	150	1.50	2.60	3.80	6.20	8.50	14.20	21.80	30.60	40.10	72.00	98.00	132.00
	1000	100	1.20	2.00	3.10	5.10	7.20	11.80	17.10	24.00	32.00	55.00	80.00	105.00
	750	75	0.90	1.50	2.50	4.10	5.90	10.20	15.70	20.80	27.50	42.00	62.00	86.00
15:1	1500	100	1.25	1.80	3.20	5.10	7.20	11.10	17.60	25.10	31.80	54.00	75.00	110.00
	1000	66.7	0.90	1.40	2.70	4.00	5.60	8.50	13.80	19.80	26.20	42.00	50.00	90.00
	750	50	0.70	1.10	2.10	3.20	4.20	7.00	11.80	15.20	21.60	35.00	48.00	74.00
20:1	1500	75	1.10	1.50	2.90	4.30	6.20	9.80	15.70	22.90	25.80	45.00	67.00	95.00
	1000	50	0.80	1.10	2.10	3.10	4.20	7.20	10.80	15.70	19.90	33.00	49.00	75.00
	750	37.5	0.60	0.80	1.60	2.40	3.60	5.80	8.80	13.90	16.70	26.00	39.00	60.00
25:1	1500	60	0.85	1.25	2.40	3.90	5.10	8.20	12.50	18.50	22.10	40.00	60.00	88.00
	1000	40	0.70	0.90	1.80	2.80	3.90	6.70	10.20	14.70	17.60	30.00	45.00	64.00
	750	30	0.50	0.70	1.40	2.10	3.10	5.20	8.00	11.70	14.70	23.00	34.00	52.00
30:1	1500	50	0.65	1.10	2.10	3.20	4.50	7.20	10.70	16.20	19.90	34.00	53.00	75.00
	1000	33.3	0.55	0.80	1.60	2.50	3.50	5.90	8.20	12.10	15.60	27.00	38.00	55.00
	750	25	0.45	0.60	1.20	2.00	2.70	4.70	7.10	9.80	13.10	21.00	30.00	42.00
40:1	1500	37.5	0.40	0.90	1.80	2.50	3.60	6.30	9.20	13.20	18.00	29.00	41.00	60.00
	1000	25	0.30	0.68	1.30	1.90	2.90	4.80	7.20	10.60	13.90	20.00	32.00	46.00
	750	18.8	0.25	0.50	0.90	1.40	2.10	3.40	5.70	8.40	10.80	16.00	24.00	35.00
50:1	1500	30	0.30	0.70	1.40	2.10	2.90	5.10	8.10	10.30	15.80	22.00	36.00	48.00
	1000	20	0.25	0.55	1.10	1.50	2.20	4.00	6.50	8.30	12.10	17.00	27.00	37.00
	750	15	0.20	0.45	0.70	1.10	1.70	3.10	5.10	7.00	8.40	14.00	20.00	30.00
60:1	1500	25	0.25	0.60	1.10	1.80	2.30	4.40	6.80	8.40	12.20	18.00	30.00	42.00
	1000	16.7	0.20	0.50	0.80	1.30	1.80	3.30	5.20	7.00	9.70	14.00	22.00	34.00
	750	12.5	0.18	0.40	0.60	0.90	1.30	2.40	4.10	6.10	8.10	12.00	17.00	28.00
70:1	1500	21.4	0.25	0.55	0.90	1.20	1.90	3.80	6.00	7.50	10.20	16.00	26.00	36.00
	1000	14.3	0.20	0.45	0.70	1.00	1.50	2.80	4.50	6.30	8.20	13.00	20.00	29.00
	750	10.7	0.15	0.35	0.56	0.80	1.20	2.20	3.70	5.30	7.10	11.00	17.00	24.00



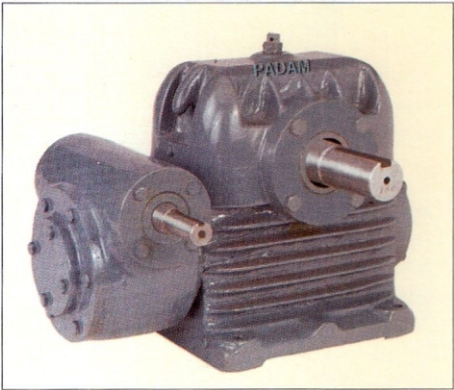
PRODUCTS



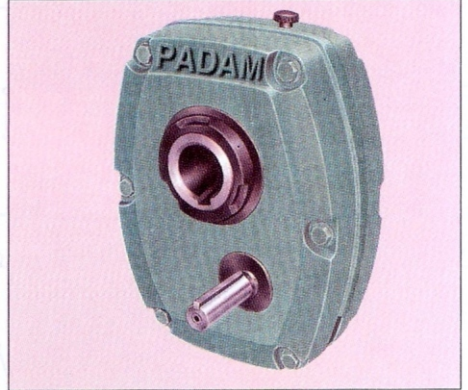
◀ Type : HHL
Size : 1.5" to 12"
Ratio : 5 to 70



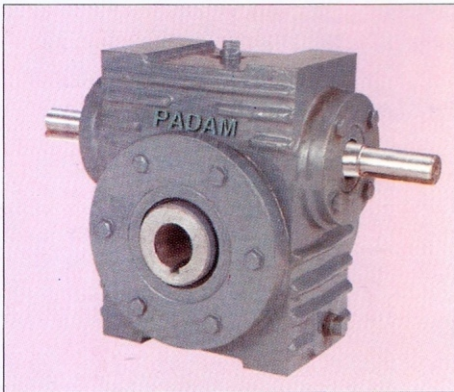
▶ Type : HVU
Size : 1.5" to 12"
Ratio : 5 to 70



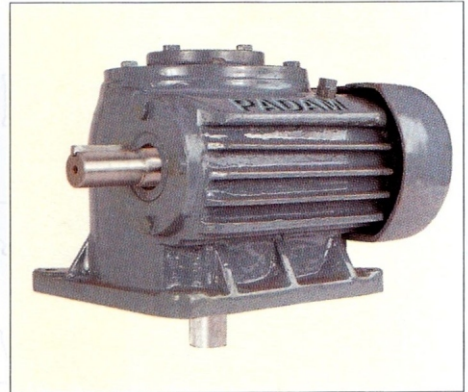
◀ Type : D/P
Size : 1.5"/1.5" to 6"/12"
Ratio : Upto 4900:1



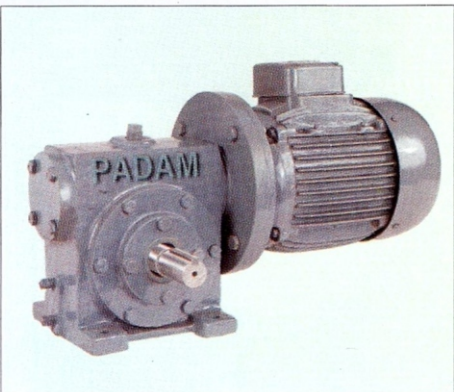
▶ Type : H/SM
Size : B to F
Ratio : 5 to 20



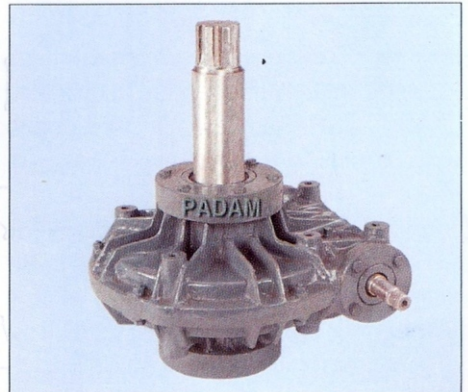
◀ Type : SM
Size : 1.5" to 6"
Ratio : 5 to 70



▶ Type : HVD
Size : 1.5" to 12"
Ratio : 5 to 70



◀ Type : M
Size : 1.5" to 6"
Ratio : 5 "to 70



▶ Type : CB

UAN: DL11A0007259

OM ENGINEERING WORKS
Fabrication of All Crane Duty Gear Boxes



www.omengineeringwork.in

Authorised Dealer



