



S PADAMTM

ISO 9001-2008 Certified Company



Company Profile

The Managing Director of the company has an experience of 40 years in the field of Gear Box manufacturing. S.Padam with Its unmatched strengths & Experience in technical expertise and commitment to serve customers. He has made innovative changes in the gear box industry India across with superior research & development. Padam Transmissions has been manufacturing gears boxes with redefined excellence.

Padam has comprehensive range of gear boxes, which includes Horizontal, Vertical and Universal models.

Padam keeps upgrading its operations to manufacture gear boxes for special applications as per customer's requirements and specifications.

This improvement of technology is not accompanied by an elevation in prices but also elevates quality standards. Padam's policy is for high production, which reduces the fixed cost per unit to a level, which enables its products cost effective and thereby ensuring a higher value for money.

Padam's determination to excel and its adherence to international

standard of quality control. It ensures that all the gears and worms are perfectly harden and grounded, thus ensuring a trouble free longer life of the gear boxes.

it also realises the importance of after sales service to its customers. Padam has a good backup in an inventory of spare parts. A team of qualified engineers with a commitment to provide a superior after sales services to its valued customers.

Padam Transmission is always committed for Quality & Commitment.

Features

Padam's Single, Double and triple type reduction gears are manufactured in latest state of the art infrastructure, which is fully equipped with imported CNC machines and latest technology. Every reduction gear is manufactured in technical hands through a rigorous quality test before being dispatched to the customers. We have unique methods and processes for selecting out faulty products. So that it cannot reach into market for distribution.

THE HOUSING

Made from the best grade of cast iron duly seasoned to stand tropical conditions. It's of neat mechanical appearance and strong construction having a large capacity of oil reservoir. All faces & bores are accurately machined on CNC Machining centres to ensures the perfect alignment. The case is made completely oil tight and dust proof.

WORM

The worm is of special alloy steel duly harden and ground on imported worm grinding machines. Worms are generated on special purpose imported worm cutting machines.

WORM WHEEL

Made from selected grade of phosphorus bronze and cast under controlled conditions to give the best combination of strength and bearing properties. The worm wheels are hobbled on precision hobbing machines

with high accuracy aa class hobs. Each and every wheel is checked to match with the master worms for ensuring complete inter-change ability.

WHEEL SHAFT

The wheel shaft is of high tensile carbon steel to carry the torsional stresses and bending lends.

BEARINGS

The worms and worm wheels are supported on ball or roller anti friction bearings to bear the radical as well as thrust load.

LUBRICATION

Oil bath lubrication is provided to lubricate both, the shaft bearing and 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.

COOLING

Air cooling is effected by means of standard plastic or metal fans, which

directs a continuous flow of air over the ribbed surface of the case. Suitable fans and ribs are provided for cooling.

MACHINERY INSTALLED:

1. CNC horizontal machining centre 630 table bt 50
2. CNC vertical machining centre 1200x600 bt 50
3. CNC turning centre 1 meter
4. CNC turning centre 750 mm
5. Worm cutting lees bradners 1200 mm
6. Worm thread grinder klingenberg 1200 mm
7. Worm gear tester klingenberg 1200 mm
8. Worm wheel shaving machine
9. Gear hobbing machine 1000 mm
10. Keyway milling duplex john shipmen and many other machines for custom built gear boxes.

CNC TURNING



CNC GEAR CUTTING



THREAD GRINDING



HMC



DRILL TAP CENTER



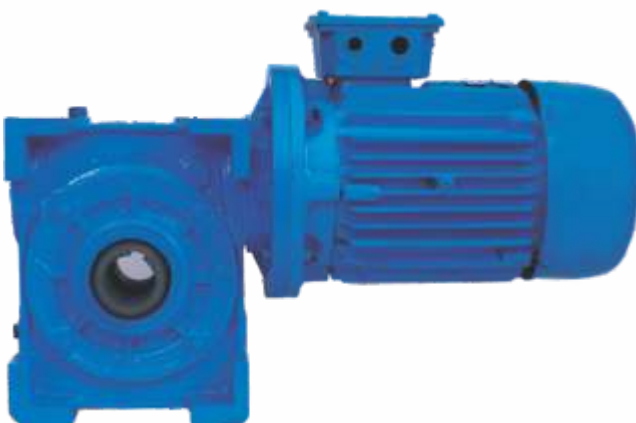
OIL SEAL/ SHAFT DIA METER & OIL CAPACITY FOR STANDARD GEAR BOXES

SIZE	INPUT OUTPUT		I. SHAFT	O. SHAFT	OIL CAPACITY	
			DIA/LENGTH	DIA/LENGTH	NS/H	HVD/U
2"	20X40X7	25X40X10	18/44	23/54	0.500	0.500
2.5"	25X47X7	30X47X10	23/48	27/56	0.750	0.750
3"	30X52X10	35X52X10	27/58	33/68	1.500	1.500
3.5"	30X52X10	40X60X10	27/58	38/78	1.750	1.750
4"	35X52X10	50X72X10	32/65	45/90	3.500	3.500
5"	45X65X10	60X80X10	38/70	55/102	5.00	5.00
6"	45X65X10	65X90X10	38/75	60/110	7.5	7.500
7"	50X72X10	75X100X10	45/86	65/127	10.5	10.5
8"	55X80X13	80X100X13	45/90	70/130	12.5	12.5
10"	65X90X13	90X110X13	60/120	85/152	23.5	23.5

Recommended Oil Lubricants

- Castrol Alpha Zn 320
- Bharat Petroleum Carbol 320
- Indian Oil Servomesh 320

SIZES: 2" to 12"
RATIO: Min 5:1 to 70:1



HORSE POWER RATING

Ratio Gears	R.P.M Input	R.P.M output	HP 2	HP 2.5	HP 3	HP 3.5	HP 4	HP 5	HP 6	HP 7	HP 8	HP 10"	HP 12"
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
	1000	200	2.50	2.50	5.00	8.20	1.10	16.30	28.00	39.00	48.00	68.00	90.00
	750	150	2.00	2.00	4.10	6.70	9.20	13.40	22.00	31.80	40.00	56.00	78.00
10:1	1500	150	2.60	2.60	3.80	6.20	8.50	14.20	21.80	30.60	40.10	72.00	98.00
	1000	100	1.50	2.00	3.10	5.10	7.20	11.80	17.10	24.00	32.00	55.00	80.00
	750	75	1.80	1.50	2.50	4.10	5.90	10.20	15.70	20.80	27.50	42.00	62.00
15:1	1500	100	1.40	1.80	3.20	5.10	7.20	11.10	17.60	25.10	31.80	54.00	75.00
	1000	66.7	1.10	1.40	2.70	4.00	5.60	8.50	13.80	19.80	26.20	42.00	50.00
	750	50	1.50	1.10	2.10	3.20	4.20	7.00	11.80	15.20	21.60	35.00	48.00
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
	1000	50	0.80	1.10	2.10	3.10	4.20	7.20	10.80	15.70	19.90	33.00	49.00
	750	37.5	1.25	0.80	1.60	2.40	3.60	5.80	8.80	13.90	16.70	26.00	31.00
25:1	1500	60	0.90	1.25	2.40	3.90	5.10	8.20	12.50	18.50	22.10	40.00	60.00
	1000	40	0.70	0.90	1.80	2.80	3.90	6.70	10.20	14.70	17.60	30.00	45.00
	750	30	1.10	0.70	1.40	2.10	3.10	5.20	8.00	11.70	14.70	23.00	34.00
30:1	1500	50	0.80	1.10	2.10	3.20	4.50	7.20	10.70	16.20	19.90	34.00	53.00
	1000	33.3	0.60	0.80	1.60	2.50	3.50	5.90	8.20	12.10	15.60	27.00	38.00
	750	25	0.90	0.60	1.20	2.00	2.70	4.70	7.10	9.80	13.10	21.00	30.00
40:1	1500	37.5	0.68	0.90	1.80	2.50	3.60	6.30	9.20	13.20	18.00	29.00	41.00
	1000	25	0.50	0.68	1.30	1.90	2.90	4.80	7.20	10.60	13.90	20.00	32.00
	750	18.8	0.70	0.50	0.90	1.40	2.10	3.40	5.70	8.40	10.80	16.00	24.00
50:1	1500	30	0.55	0.70	1.40	2.10	2.90	5.10	8.10	10.30	15.80	22.00	36.00
	1000	20	0.45	0.55	1.10	1.50	2.20	4.00	6.50	8.30	12.10	17.00	27.00
	750	15	0.60	0.45	0.70	1.10	1.70	3.10	6.10	7.00	8.40	14.00	20.00
60:1	1500	25	0.60	0.60	1.10	1.80	2.30	4.40	6.80	8.40	12.20	18.00	30.00
	1000	16.7	0.50	0.90	0.80	1.30	1.80	3.30	5.20	7.00	9.70	14.00	22.00
	750	12.5	0.40	0.40	0.60	0.90	1.30	2.40	4.10	6.10	8.10	12.00	17.00
70:1	1500	21.4	0.90	0.90	0.90	1.20	1.90	3.80	6.00	7.50	10.20	16.00	26.00
	1000	14.3	0.70	0.70	0.70	1.00	1.50	2.80	4.50	6.30	8.20	13.00	20.00
	750	10.7	0.56	0.56	0.56	0.80	1.20	2.20	3.70	5.30	7.10	11.00	17.00

Details for Selection of Gear Boxes

1. Input Horse Power
2. Input R.P.M
3. Output Speed of Gear Unit
4. Ratio of the Gear Unit
5. State Desired Input and Output of Shafts Position
Whether Horizontal. Upward, Downward or Worm Overhead
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 Mixture, Etc.)



PADAM TRANSMISSION GEARS

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Dealer's Stamp

