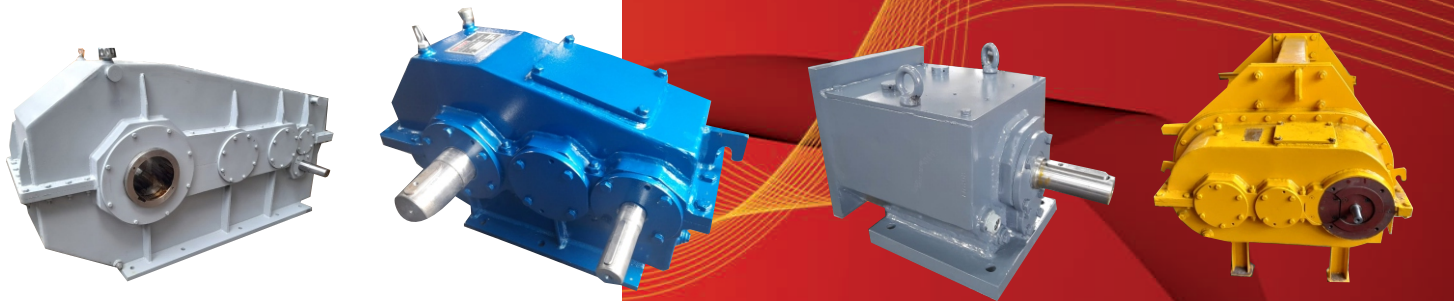


nu-teck®

CRANE DUTY HORIZONTAL & VERTICAL GEAR BOXES



FEATURES

- Housings are fabricated from steel plates, stress relieved and precision machined, without sacrificing rigidity. Precision boring ensures parallelism.
- Shaft Pinions of Alloy / Carbon Steel, duly heat treated and precision cut, ensuring maximum tooth contact.
- Gears of Carbon Steel, duly heat treated where required and precision cut.
- Antifriction bearings of ample capacity to ensure prolonged accuracy and long life.
- Superior Oil seals to ensure freedom from oil leakage.
- Ample capacity oil reservoir to ensure high thermal rating.
- Efficiency: Precision machining all along to ensure high operational efficiency, i.e. 98% per stage.
- Reduction ratios: Maximum 2400:1 available for various horse powers in class M3, M5, M7, and M8 duty.
- For Hoist, Geared output shaft with suitable internal teeth ring available.
- Gearboxes With Solid / Hollow / Spline Input Shafts
- Gearboxes With Solid / Hollow / Geared / Spline Output Shafts
- Flange Mounted Gearboxes
- Modular Gearboxes
- Co-axial Gearboxes
- Customised Spur / Helical / Spiral Bevel Pinions & Gears

nu-teck

LIGHT DUTY THREE STAGE : HORIZONTAL / VERTICAL

Ratio	300/3		350/3		400/3		475/3		550/3	
	6P	8P	6P	8P	6P	8P	6P	8P	6P	8P
30	4.50	3.45	6.6	5.07	8.5	6.54	10.0	7.00	14.5	10.2
40	3.50	2.69	5.6	4.31	7.0	5.38	9.2	6.44	13.0	9.1
50	2.5	1.92	4.5	3.46	6.0	4.61	8.0	5.60	11.0	7.8
63	2.2	1.69	3.6	2.77	5.2	4.0	6.5	4.55	9.5	6.7
70	2.1	1.65	3.4	2.62	4.8	3.68	6.0	4.20	8.9	6.23
80	2.0	1.54	3.2	2.46	4.3	3.31	5.2	3.64	8.4	5.90
90	1.18	1.38	3.1	2.38	3.5	2.69	4.8	3.36	7.4	5.2
100	1.17	1.31	3.0	2.31	3.23	2.48	4.5	3.15	6.5	4.6
112	1.5	1.15	2.8	2.15	3.05	2.35	4.0	2.80	6.0	4.3
124	1.2	0.92	2.68	2.07	2.80	2.15	3.7	2.60	5.5	3.9
140	1.1	0.85	2.5	1.92	2.75	2.11	3.10	2.17	4.8	3.4
150	1.0	0.77	2.45	1.88	2.65	2.04	3.0	2.10	4.5	3.2
160	0.9	0.69	2.2	1.69	2.35	1.81	2.8	1.95	4.2	2.95
165	0.85	0.65	2.1	1.62	2.20	1.69	2.7	1.89	4.0	2.82
170	0.85	0.65	2.0	1.54	2.15	1.65	2.6	1.78	3.9	2.73
180	0.8	0.62	1.92	1.48	1.98	1.52	2.4	1.68	3.7	2.60
192	0.75	0.58	1.9	1.46	1.92	1.48	2.2	1.54	3.55	2.5
200	0.66	0.51	1.8	1.38	1.85	1.42	2.0	1.40	3.4	2.4

TWO STAGE : HORIZONTAL / VERTICAL

Ratio	200		250		300		350		400		500		550		650		750		850	
	6P	8P	6P	8P	6P	8P	6P	8P	6P	8P	6P	8P	6P	8P	6P	8P	6P	8P	6P	8P
8.23	4.50	3.40	16.5	11.8	20.5	15.7	38.0	29.5	55.5	43.0	130.0	104.0	162.0	129	240	190	340	235	470	330
10.35	4.25	3.25	13.6	9.8	18.5	14.2	33.0	25.5	46.0	36.5	110.0	88.0	138.0	109	210	168	300	207	440	308
12.64	4.20	3.20	11.8	8.5	16.5	12.7	28.0	21.5	40.0	31.7	92.0	73.6	100.0	90	182	145	275	190	410	287
15.75	3.80	2.90	9.6	7.0	13.5	10.1	24.0	18.4	35.0	27.0	78.0	62.4	95.0	76	153	122	250	173	340	238
20.50	3.60	2.75	8.7	6.54	12.0	9.23	19.0	14.6	31.0	25.0	58.0	45.4	76.0	56	138	110	220	152	300	210
23.34	3.20	2.45	7.7	5.78	11.0	8.46	16.9	13.0	28.0	22.0	52.0	41.0	68.0	50.5	125	100	195	135	260	182
26.91	3.00	2.30	6.4	4.81	9.5	7.31	14.8	11.38	25.3	19.8	48.0	38.0	60.0	46.4	105	85	170	118	220	155
31.50	2.55	1.95	5.3	4.0	7.5	5.77	12.6	9.69	22.0	17.0	43.0	34.4	53.0	42.4	92	80	150	105	190	135
36.86	2.40	1.84	4.8	3.6	6.2	4.75	11.5	8.84	20.0	15.8	38.0	30.4	48.0	39.0	88	73.6	135	94	160	112
40.17	2.20	1.68	4.3	3.3	5.2	4.0	10.5	8.07	18.0	14.6	33.0	26.4	43.0	34	83.3	67	115	80	130	92
44.0	2.00	1.53	3.8	2.92	4.6	3.68	9.6	7.7	16.0	12.6	30.0	24.0	38.0	30.4	77	61	90	62	110	78
48.0	1.80	1.38	3.2	2.64	4.0	3.2	8.4	6.7	14.0	11.1	25.0	20.0	33.0	26.4	68	54	70	49	95	67
52.20	1.50	1.10	3.0	2.30	3.5	2.8	7.4	6.0	12.0	9.5	20.0	16.0	28	22.4	60	48	60	42	-	-

THREE STAGE : HORIZONTAL / VERTICAL

Ratio	3510		4010		5015		5715		6020		7020		7520		8525		1250	
	6P	8P	6P	8P	6P	8P	6P	8P	6P	8P	6P	8P	6P	8P	6P	8P	6P	8P
40	14	10.7	17.5	13.4	42.5	32.7	55	39.0	70	53.8	115	88.5	120	93	137	110	310	245
50	12	9.2	16.5	12.6	35	26.9	45	32.4	60	46.1	82	59.0	90	64	123	100	260	205
63	10	7.7	14.0	10.8	28	21.5	36.5	26.3	55	42.3	73	55.1	79	56	118	82.2	215	170
70	8.5	6.5	12	9.3	26	20	33.8	24.4	50	38.5	70	53.8	75	55	114	79.2	190	150
80	8	6.2	11.3	8.7	23.5	18	30.5	21.9	45	34.6	67	51.5	72	53	100	70	177	136
90	7	5.3	10.2	7.8	20.8	16	27	19.5	40	30.8	60	45.9	65	50	85	58	160	127
105	6.5	5	9.2	7.1	19.18	14	24.5	17.7	35	26.9	56	42.1	60	45	77	54	138	108
112	5	4.5	8.6	6.6	16.8	12.9	21.8	15.7	32.5	25	50	38.4	53	40	72	50.4	125	100
124	5.2	4.1	8.0	6.15	15.2	11.6	19.7	14.2	30	23.1	44	34.4	46	36	66	47	115	91
142	4.6	3.54	7.4	5.7	13.6	10.4	17.6	12.7	27.5	21.1	40.5	31.1	42	32	58	42	107	85
150	4.3	3.35	6.6	5.1	12.5	9.61	16.2	11.7	25	19.2	36.0	28.0	40	30	53	41	100	78
160	4.2	3.23	5.8	4.46	12.0	9.23	15.5	11.2	24	18.5	32.3	23.0	36	26	50	38	93	72
170	3.6	2.77	5.4	4.2	11.1	8.4	14.3	10.3	22	16.9	29	22.5	33	23	45	31.5	77	54
180	3.4	2.61	5.2	4.0	10.2	7.8	13.2	9.5	21	16.2	27.5	22.0	32	22.5	43	29.4	72	51
190	3.2	2.46	5.0	3.85	9.5	7.2	12.0	8.6	20	15.4	27.0	21.0	31	22	42	28.5	69	49
200	3.0	2.30	4.8	3.69	8.5	6.5	11.0	7.92	18	13.14	26.0	20.0	30	21	40	28	67	47

NOTE : 1) 8P = 750 RPM
2) 6P = 1000 RPM

a) All H.P. Ratings are for Class M5 duty
b) For M3 add 30%

c) For M7 reduce 20%
d) For M8 reduce 35%

Questionnaire for Ordering a Gearbox

- | | | |
|--|---|--|
| 1.Horse Power of drive & RPM | 4.Configuration: horizontal / vertical | 7.Atmosphere: Dusty / Clean / Hot etc. |
| 2.Type of drive: motor/turbine/diesel Engine | 5.End use : Crane / Machine / Equipment | 8.Hours of Service |
| 3.RPM of Input & Output | 6.Shock loading if any | 9.Extension of input and output shaft |

Since Research & Development is an on-going activity, specifications are subject to change without notice.

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