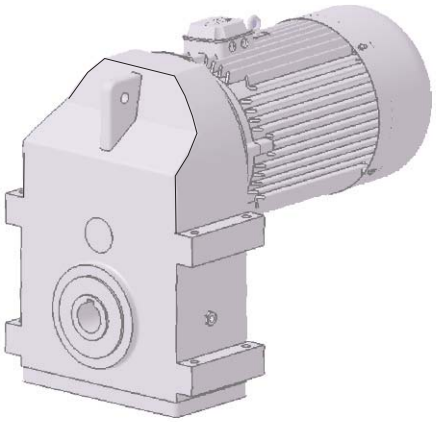
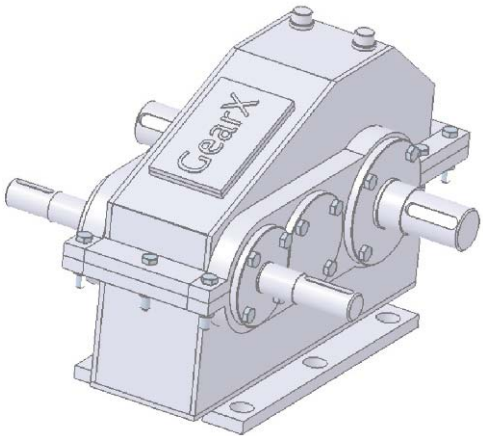
GearX





Geared Brake Motor | Crane Duty Gear Box

EOT Crane Wheel Assembly | Contract Manufacturing

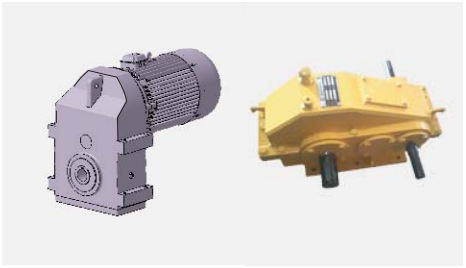
About Us :

M/s Gearx Manufacturing is leading manufacturing company in all types of conventional machining activities & manufacturer of crane wheel assemblies. The company is having unit at S. No-29/1, Near shree control Chowk, Narhe Industria Area, Near Pune – Satara Highway, Pune – 411041.

The company basically manufactures various types of lead screws, shafts, cylindrical components which are required in general as well as automotive engineering industry.

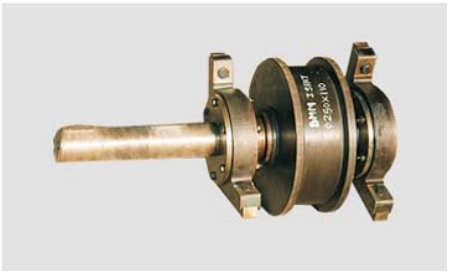
We are expertise in various types of precision machining of components as per requirement of customers.
We are not simply manufacturer of job work basis components. Our perspective is that of solution. We always play role as solution provider rather than service provider in each aspect of customer. This attitude with customer differentiates between regular suppliers & Gearx, hence we create business partner relations rather than customer – supplier relationship.

Apart from this, company has launched series of crane duty Gear Boxes & Geared Brake Motors. The series of gear boxes starts from HR 250. Those gear boxes are designed with good aesthetics as well as quality level is maintained superior as compared with current standards.



GearX

Company has launched series of crane duty Gear Boxes & Geared Brake Motors. The series starts from HR 250.



EOT CRANE WHEEL ASSEMBLY

Wheel assembly is the most important part of crane as it provides actual motion to crane.
The assembly consists of various components including wheel, shaft, bearings, housing etc.

CONTRACT MANUFATURING

Gearx Manufacturing is having strong portfolio with regards to manufacturing of high precision mechanical manufacturing. Gearx has already performed good amount of work for high precise jobs such as lead screws.

Definitions & Formulae: -

Input Speed: [n_1 min^{-1}]

It is the speed at input shaft of gearbox related to the type of prime mover selected.

Gear Ratio: [i]

The ratio of angular speed of the initial or driving member of gearbox to the final or driven member.

From the data given in the catalogue, the value can be calculated using following formula:

$$i=\frac{n_1}{n_2}$$

Output Speed: [n_2 min^{-1}]

This is the gearbox output speed calculated using the formula given below:

$$n_2=\frac{n_1}{i}$$

Requested Torque: [Mr_2 Nm]

This is the torque needed for the application and must be known when selecting a drive system. It can either be provided by the user or calculated according to the application data (if provided).

Nominal Torque: [Mn_2 Nm]

This is the output torque that can be transmitted by the gearbox according to input speed n_1 and gear ratio i. It is calculated based on service with a continuous steady load corresponding to service factor equal to 1. This value is not given in the catalogue but can be calculated approximately with following formula:

$$Mn_2=M_2*sf$$

Output Torque: [M_2 Nm]

This is the gearbox's output torque. It is strictly related to power P1 of the prime mover installed, output rpm n2 and dynamic efficiency. It can be calculated with following formula:

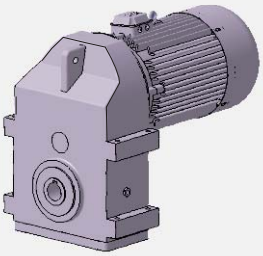
$$M_2=\frac{P1*60000*\eta}{2*\pi*n_2}$$

Efficiency: η

Efficiency is calculated based on dynamic efficiency of the gearboxes.

On helical gearboxes GX, HR and VR the average efficiency is 90%.

GEARED MOTOR



Compactness in design. The weight of complete geared motor is substantially less as compared to conventional gear box.

Housing made from graded steel casting ensures rigidity during working & free from internal & external defects.

Elegant shape of casting causes better aesthetic approach.

- All gears are manufactured from alloy/ carbon steel duly heat treated with specified hardness.
- The gears are ground to ensure maximum tooth contact which decreases noise level.
- Motors used are suitable for variable frequency application & also used as directly without VFD application.
- Proper quantity of synthetic graded oil has been used to ensure splash lubrication during operation of geared motor.
- Installation & mounting of geared motor is easy based on hollow shaft & torque arm method.
- Various types of reduction ratios are available for different horse powers for different class of duty.
- Geared Motors are suitable for Single Girder Cranes for Long Travel & Double Girder Crane for Cross Travel & Long Travel application.

Questionnaire for Ordering a Gearbox / Geared Brake Motor:-

1. Horse Power of drive & RPM
2. RPM of Input & Output
3. Configuration: horizontal / vertical
4. Atmosphere: Dusty / Clean / Hot etc.
5. Hours of Service
6. Extension of input and output shaft.

Note:-

6P = 960 RPM

8P = 750 RPM

All ratings considered for Class II Duty.

For Class III- Reduce 20 % of Rated HP

For Class IV- Reduce 30 % of Rated HP

P_1 (KW)	n_2 min^{-1}	i	M_2 Nm	sf	Model	Mounting Flange
0.37						
(1400min^{-1})	42	33.8	84.12	4.2	Gx1442	B5
	47	30.6	75.18	4.7	Gx1442	B5
	53	26	66.66	5.5	GX1442	B5
	59	24.5	59.89	6.14	GX1442	B5
	70	20.5	50.47	7.5	GX1442	B5
	87	16.5	40.61	9.3	GX1442	B5
	99	14.5	35.69	10.5	GX1442	B5
	118	12.2	29.94	12.2	GX1442	B5
	138	10.4	25.60	13.8	GX1442	B5
	193	7.48	18.31	17.4	GX1442	B5
	21	65	168.25	12	GX1723	B5
	23	60.2	153.62	13.4	GX1723	B5
	25	56	141.33	14.8	GX1723	B5
	30	46	117.77	19.3	GX1723	B5
	36	38.2	98.15	36.4	GX1723	B5
	23	60.6	153.62	21	Gx1953	B5
	26	52.5	135.89	24	Gx1953	B5
	30	46.5	117.77	34	Gx1953	B5
	35	40.2	100.95	44	Gx1953	B5
	39	35.8	90.60	53	GX1953	B5

P_1 (KW)	n_2 min^{-1}	i	M_2 Nm	sf	Model	Mounting Flange
0.55						
(1400min^{-1})	42	33.8	125.05	2.8	Gx1442	B5
	47	30.6	111.47	3.15	Gx1442	B5
	53	26	99.09	3.7	GX1442	B5
	59	24.5	89.01	4.0	GX1442	B5
	70	20.5	75.03	5.06	GX1442	B5
	87	16.5	60.36	6.25	GX1442	B5
	99	14.5	53.05	7.0	GX1442	B5
	118	12.2	44.50	8.1	GX1442	B5
	138	10.4	38.05	9.2	GX1442	B5
	193	7.48	27.21	11.6	GX1442	B5
	21	65	250.10	6.5	GX1723	B5
	23	60.2	228.35	7.2	GX1723	B5
	25	56	210.08	8.0	GX1723	B5
	30	46	175.07	10.5	GX1723	B5
	36	38.2	145.89	19.8	GX1723	B5
	23	60.6	228.35	11.9	Gx1953	B5
	26	52.5	204.00	13.0	Gx1953	B5
	30	46.5	175.07	18.6	Gx1953	B5
	35	40.2	150.06	24.2	Gx1953	B5
	39	35.8	134.66	28.0	GX1953	B5

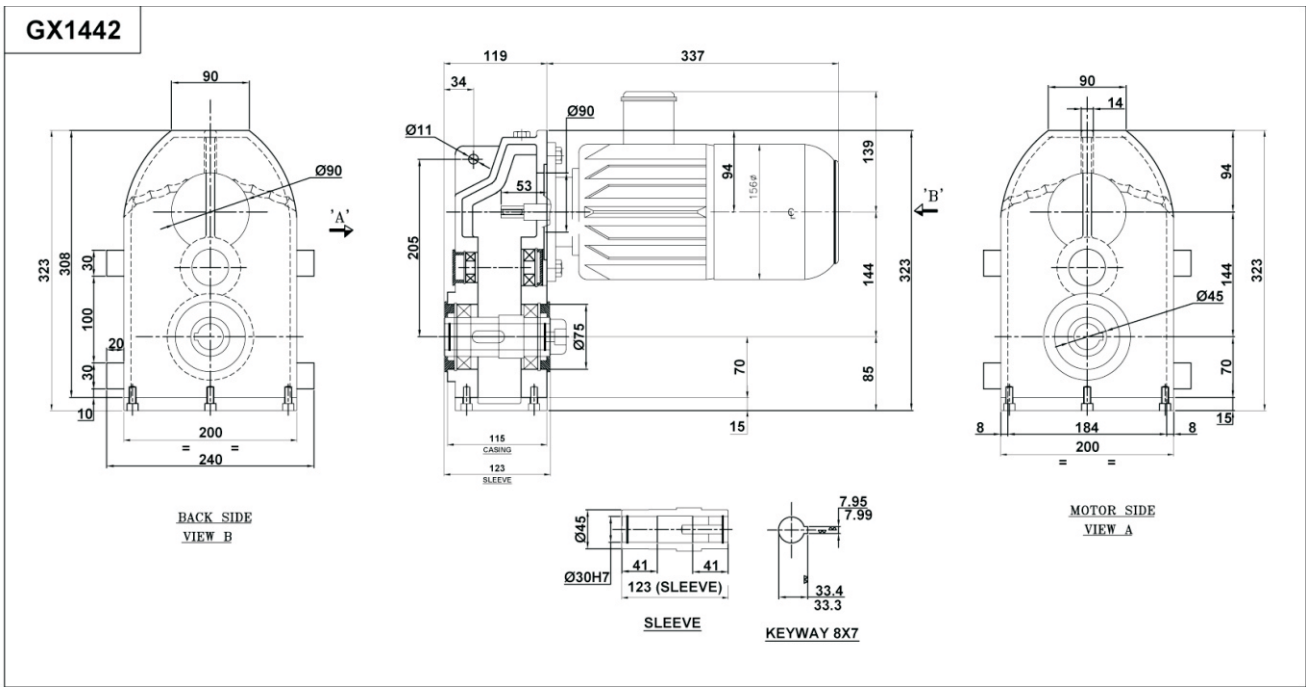
P_1 (KW)	n_2 min^{-1}	i	M_2 Nm	sf	Model	Mounting Flange
0.75						
(1400min^{-1})	42	33.8	170.5232	2.1	Gx1442	B5
	47	30.6	152.3824	2.36	GX1442	B5
	53	26	135.1316	2.7	GX1442	B5
	59	24.5	121.3894	3.07	GX1442	B5
	70	20.5	102.3139	3.7	GX1442	B5
	87	16.5	82.32152	4.7	GX1442	B5
	99	14.5	72.34316	5.3	GX1442	B5
	118	12.2	60.69468	6.1	GX1442	B5
	138	10.4	51.89835	6.9	GX1442	B5
	193	7.48	37.10867	8.7	GX1442	B5
	21	65	341.0463	4.2	GX1723	B5
	23	60.2	311.3901	4.7	GX1723	B5
	25	56	286.4789	5.2	GX1723	B5
	30	46	238.7324	6.8	GX1723	B5
	36	38.2	198.9437	12.8	GX1723	B5
	23	60.6	311.3901	7.7	Gx1953	B5
	26	52.5	275.4605	8.3	GX1953	B5
	30	46.5	238.7324	12.1	GX1953	B5
	35	40.2	204.6278	15.7	Gx1953	B5
	39	35.8	183.6403	18.7	GX1953	B5

P_1 (KW)	n_2 min^{-1}	i	M_2 Nm	sf	Model	Mounting Flange
1.1						
(1400min^{-1})	42	33.8	250.1006	1.4	Gx1442	B5
	47	30.6	223.4942	1.57	GX1442	B5
	53	26	198.1929	1.8	GX1442	B5
	59	24.5	178.0377	2.04	GX1442	B5
	70	20.5	150.0604	2.5	GX1442	B5
	87	16.5	120.7382	3.1	GX1442	B5
	99	14.5	106.1033	3.52	GX1442	B5
	118	12.2	89.01887	4.08	GX1442	B5
	138	10.4	76.11758	4.6	GX1442	B5
	193	7.48	54.42604	5.8	GX1442	B5
	21	65	500.2012	2.4	GX1723	B5
	23	60.2	456.7055	2.5	GX1723	B5
	25	56	420.169	2.8	GX1723	B5
	30	46	350.1409	3.7	GX1723	B5
	36	38.2	291.7841	7	GX1723	B5
	23	60.6	456.7055	4.2	Gx1953	B5
	26	52.5	404.0087	4.6	Gx1953	B5
	30	46.5	350.1409	6.5	Gx1953	B5
	35	40.2	300.1207	8.5	Gx1953	B5
	39	35.8	269.3391	10.2	GX1953	B5

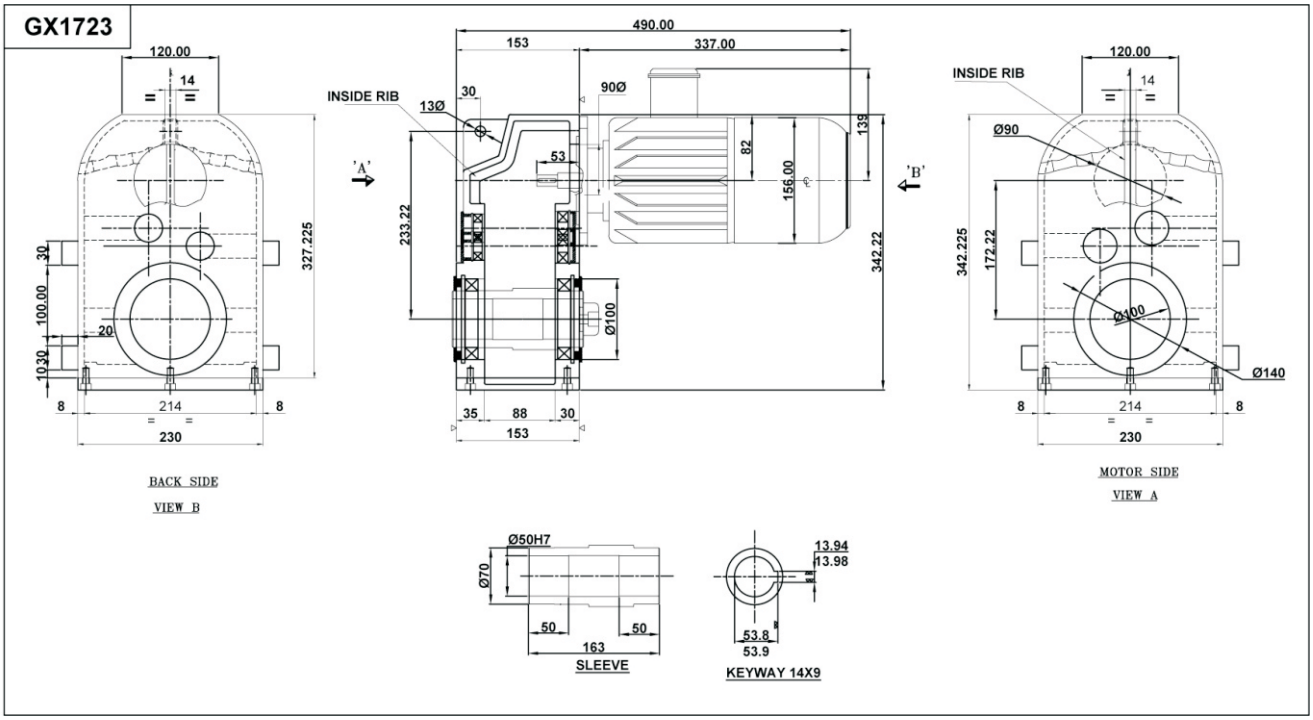
P_1 (KW)	n_2 min^{-1}	i	M_2 Nm	sf	Model	Mounting Flange
1.5						
(1400min^{-1})	21	65	682.0926	1.6	GX1723	B5
	23	60.2	622.7802	1.7	GX1723	B5
	25	56	572.9578	1.8	GX1723	B5
	30	46	477.4648	2.4	GX1723	B5
	36	38.2	397.8874	4.5	GX1723	B5
	23	60.6	622.7802	2.7	Gx1953	B5
	26	52.5	550.921	3	Gx1953	B5
	30	46.5	4774648	4.2	Gx1953	B5
	35	40.2	409.2556	5.5	Gx1953	B5
	39	35.8	367.2806	6.6	GX1953	B5

P_1 (KW)	n_2 min^{-1}	i	M_2 Nm	sf	Model	Mounting Flange
2.2						
(1400min^{-1})	23	60.6	913.411	1.5	Gx1953	B5
	26	52.5	808.0174	1.8	Gx1953	B5
	30	46.5	700.2817	2.3	Gx1953	B5
	35	40.2	600.2415	3	Gx1953	B5
	39	35.8	538.6783	3.6	GX1953	B5

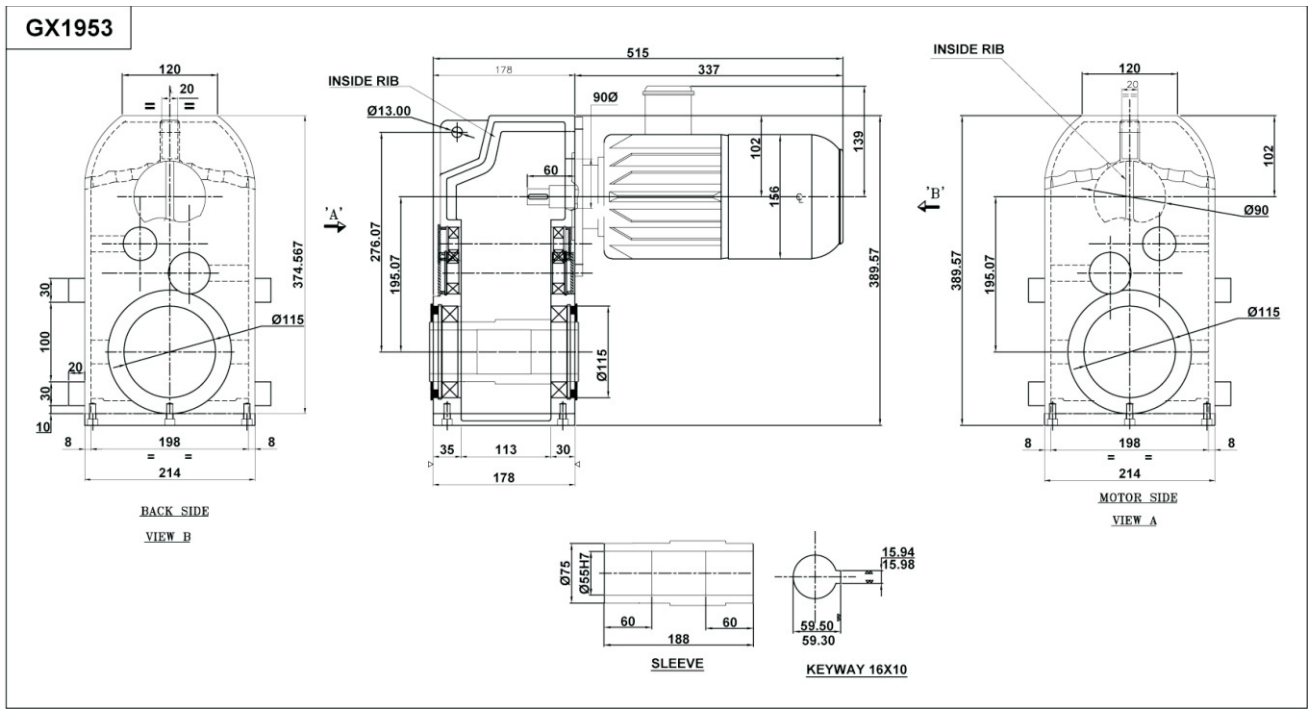
GX1442



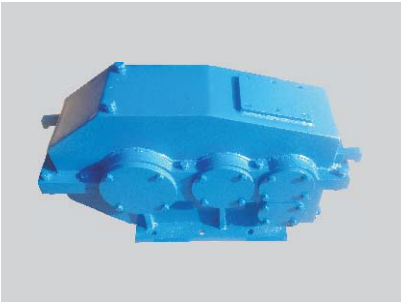
GX1723



GX1953



CRANE DUTY GEAR BOX



In the crane to achieve correct speed of all three types of motions viz hoisting , cross travel & long travel Gear box plays significant role.

Gearx manufactures various types of conventional crane duty gear boxes as per customer requirement.
The product is indigenously designed & with good aesthetics & with genuine raw material.

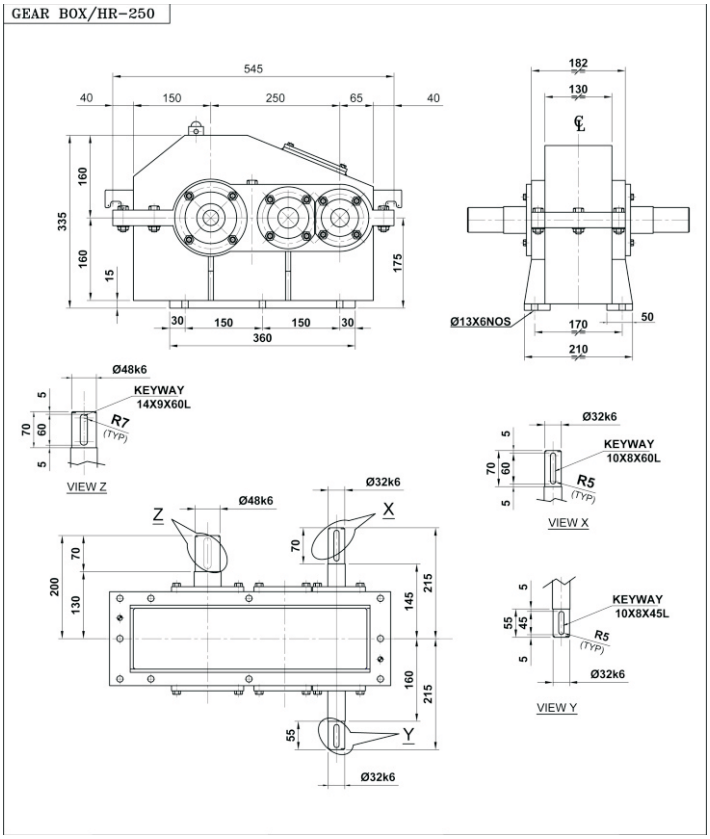
THE SILENT FEATURES OF CONVENTIONAL GEAR BOX ARE AS BELOW:

- Main housing is fabricated from steel plates & stress relieved & machining is done with accuracy without affecting rigidity.
- Shafts for pinions & Gears are of alloy / carbon steel duly heat treated with specified hardness. Those are machined precisely to ensure maximum tooth contact.
- Antifriction ball bearings with suitable rating are used in gear box which provides prolong life during running of gear box.
- Sufficient capacity of oil is kept in reservoir to ensure splash lubrication for gears during running.
- Superior quality of oil seals are used to prevent leakage of oil.
- Various types of reduction ratios are available for different horse powers for different class of duty.

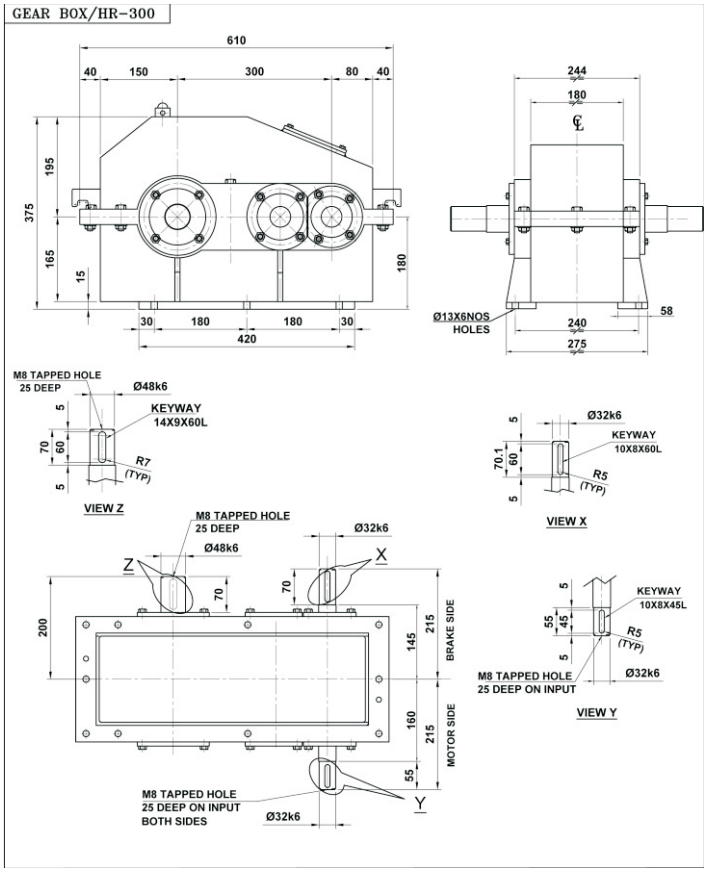
Model	P_1 (HP)	i	n_2 min^{-1}	M_2 Nm	sf
HR 250					
(960min^{-1})	17.5	8.23	116.6	1068.34	1.59
	14	10.35	92.8	1073.8	1.47
	11.8	12.64	75.9	1106.45	1.29
	9.6	15.75	60.95	1120.18	1.34
	8.6	20.5	46.83	1307.11	1.11
	7.5	23.34	41.1	1300.14	1.14
	6.4	26.91	35.67	1284.86	1.18
	5.3	31.5	30.48	1222.01	1.23
	4.8	36.86	26.04	1283.29	1.2
	4.3	40.17	23.90	1278.65	1.2
	3.8	43.76	21.94	1218.81	1.22
	3.2	48.57	19.77	1159.52	1.21
	3	52.56	18.26	1150.21	1.21
(720min^{-1})	12.8	8.23	87.48	1036.96	1.6
	10.6	10.35	69.57	1084.44	1.43
	9.5	12.64	56.96	1186.91	1.18
	7.5	15.75	45.71	1169.79	1.27
	6.5	20.5	35.12	1318.67	1.26
	5.4	23.34	30.85	1247.51	1.18
	4.9	26.91	26.76	1302.7	1.14
	4.3	31.5	22.86	1341.08	1.12
	3.7	36.86	19.53	1349.28	1.16
	3.2	40.17	17.92	1273.32	1.22
	2.7	43.76	16.45	1166.57	1.27
	2.1	48.57	14.82	1011.36	1.37
	2.0	52.56	13.70	1038.68	1.34

Model	P_1 (HP)	i	n_2 min^{-1}	M_2 Nm	sf
HR 300					
(960min^{-1})	14.7	8.23	116.65	1202.6	2.19
	11.7	10.35	92.75	1205.58	2.02
	9.9	12.64	75.95	1247.27	1.76
	8.1	15.75	60.95	1261.18	1.84
	7.2	20.5	46.83	1474.32	1.52
	6.3	23.34	41.13	1453.37	1.57
	5.4	26.91	35.67	1437.43	1.7
	4.4	31.5	30.48	1378.68	1.62
	4.0	36.86	26.04	1477.61	1.47
	3.6	40.17	23.90	1430.49	1.52
	3.2	43.76	21.94	1397.28	1.49
	2.7	48.57	19.77	1294.8	1.66
	2.5	52.56	18.26	1327.97	1.62
(720min^{-1})	10.7	8.23	87.48	1172.31	2.2
	8.9	10.35	69.57	1217.59	1.97
	8.0	12.64	56.96	1337.79	1.61
	6.3	15.75	45.71	1307.66	1.75
	5.4	20.5	35.12	1479.08	1.49
	4.6	23.34	30.85	1408.48	1.6
	4.1	26.91	26.76	1463.31	1.54
	3.6	31.5	22.86	1495.66	1.56
	3.1	36.86	19.53	1530.17	1.4
	2.7	40.17	17.92	1427.83	1.5
	2.2	43.76	16.45	1300.06	1.58
	1.8	48.57	14.82	1153.08	1.84
	1.6	52.56	13.70	1143.24	1.86

GEAR BOX/HR-250

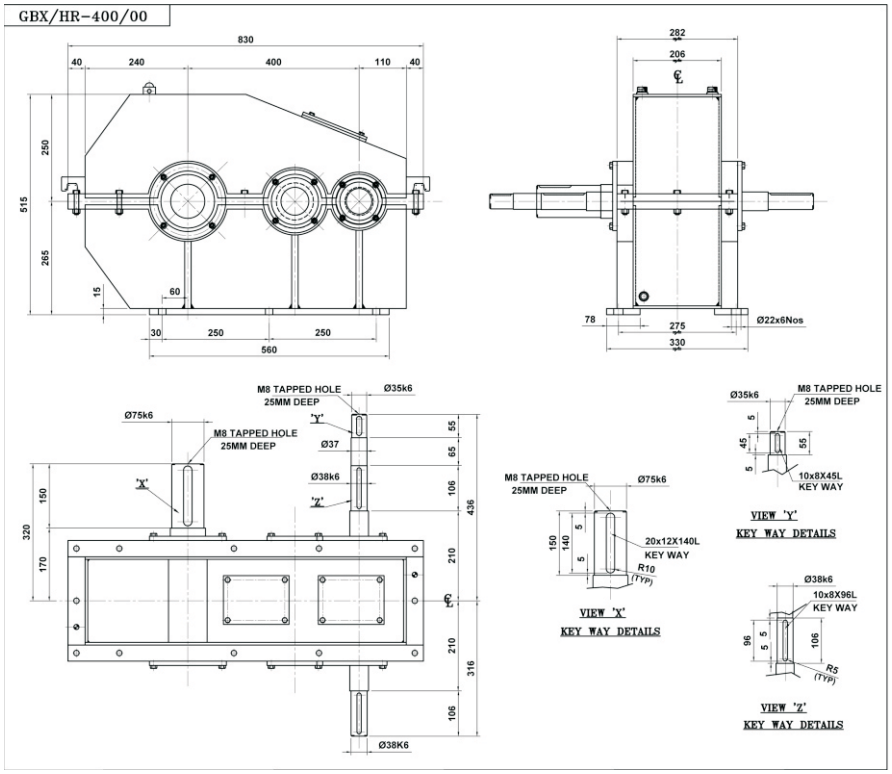


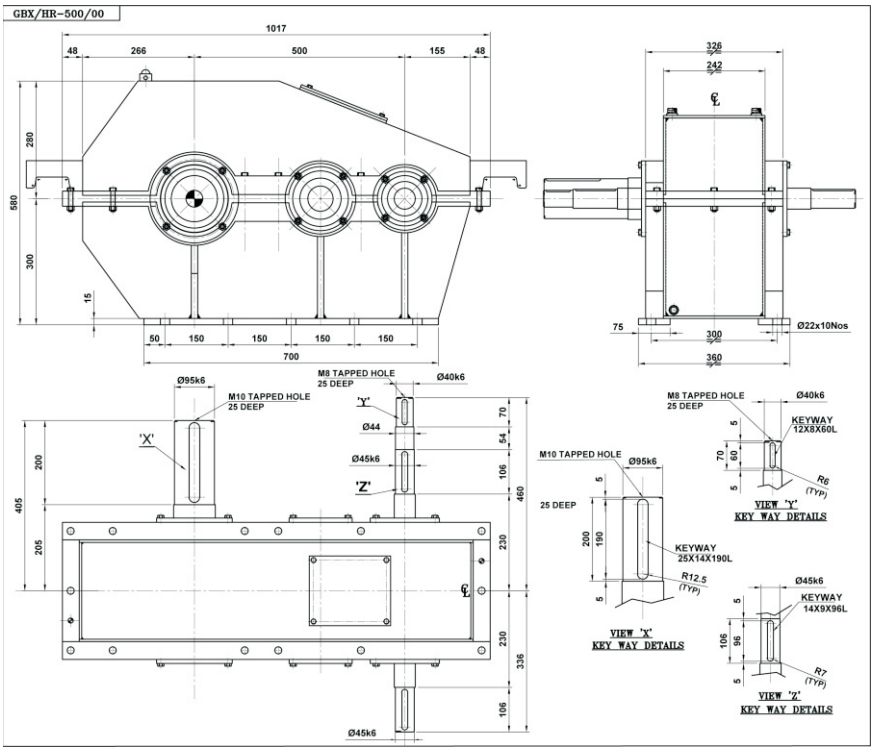
GEAR BOX/HR-300



Model	P_1 (HP)	i	n_2 min^{-1}	M_2 Nm	sf
HR 400					
($960min^{-1}$)	55.00	8.23	116.65	3357.3	2.04
	46.0	10.35	92.75	3531.3	1.79
	40.0	12.64	75.95	3749.34	1.51
	35.0	15.75	60.95	4087.47	1.47
	31.0	20.5	46.83	4712.53	1.33
	28.0	23.34	41.13	4845.33	1.22
	25.3	26.91	35.67	5611.23	1.19
	22.0	31.5	30.48	2138.72	1.17
	20.2	36.86	26.04	5521.8	1.13
	18.5	40.17	23.90	5510.19	1.13
($720min^{-1}$)	43.0	8.23	87.48	3500.03	1.91
	38.0	10.35	69.57	3889.8	1.59
	32.0	12.64	56.96	4000.37	1.39
	27.0	15.75	45.71	4205.79	1.4
	25.0	20.5	35.12	5068.7	1.12
	22.0	23.34	30.85	5078.4	1.14
	19.8	26.91	26.76	5269.65	1.23
	17.0	31.5	22.86	5296.18	1.12
	15.9	36.86	19.53	5796.36	1.07
	14.8	40.17	17.92	5879.85	1.04

Model	P_1 (HP)	i	n_2 min^{-1}	M_2 Nm	sf
HR 500					
($960min^{-1}$)	130.0	8.23	116.65	7936.1	1.76
	110.0	10.35	92.75	8444.95	1.53
	95.0	12.64	75.95	8907.07	1.3
	78.0	15.75	60.95	9112.54	1.34
	57.0	20.5	46.83	8667.48	1.36
	51.0	23.34	41.13	8829.48	1.36
	47.0	26.91	35.67	9381.58	1.3
	43.0	31.5	30.48	10047.16	1.22
($720min^{-1}$)	43.0	8.23	87.48	8546.57	1.59
	38.0	10.35	69.57	9110.31	1.39
	32.0	12.64	56.96	9188.35	1.23
	27.0	15.75	45.71	9579.85	1.25
	25.0	20.5	35.12	9123.66	1.26
	22.0	23.34	30.85	9579.7	1.23
	19.8	26.91	26.76	10246.54	1.17
	17.0	31.5	22.86	10903.89	1.37


GBX/HR-400/00
830
40
240
400
110
40
250
515
265
15
60
30
250
250
560
282
206
78
275
330
Ø22x6Nos
M8 TAPPED HOLE
25MM DEEP
Ø35k6
'Y'
Ø75k6
M8 TAPPED HOLE
25MM DEEP
Ø37
'X'
Ø38k6
'Z'
150
320
170
55
65
106
436
210
210
316
106
Ø38K6
M8 TAPPED HOLE
25MM DEEP
Ø75k6
150
140
5
20x12X140L
KEY WAY
R10
(TYP)
VIEW 'X'
KEY WAY DETAILS
Ø35k6
M8 TAPPED HOLE
25MM DEEP
5
45
55
10x8X45L
KEY WAY
VIEW 'Y'
KEY WAY DETAILS
Ø38k6
10x8X96L
KEY WAY
96
106
R5
(TYP)
VIEW 'Z'
KEY WAY DETAILS


GBX/HR-500/00
1017
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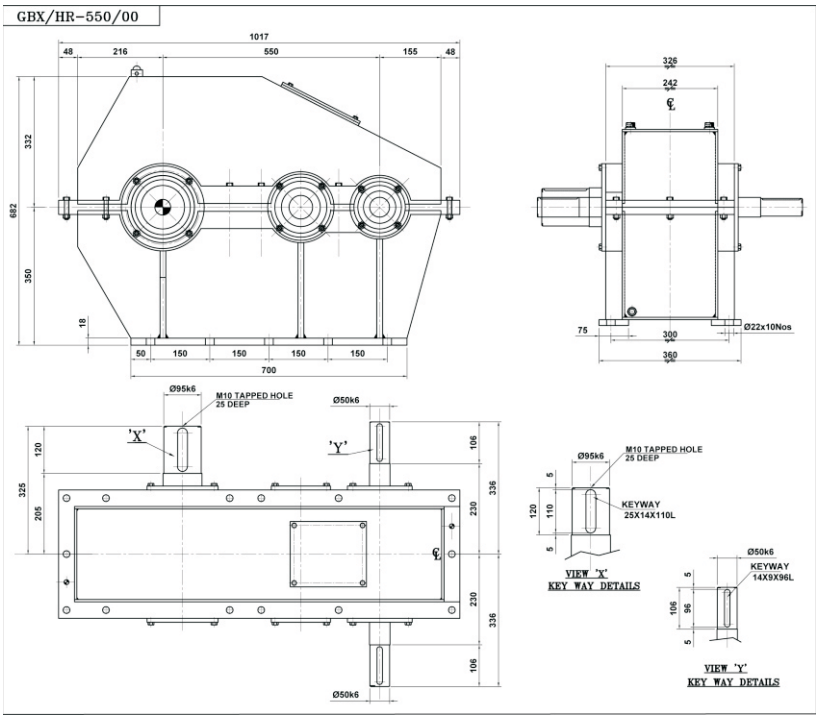
266
500
155
48
280
580
300
15
50
150
150
150
150
700
326
242
75
300
360
Ø22x10Nos
Ø95k6
M10 TAPPED HOLE
25 DEEP
M8 TAPPED HOLE
25 DEEP
Ø40k6
'Y'
Ø44
'X'
Ø45k6
'Z'
200
405
205
70
54
106
460
230
230
336
106
Ø45k6
M8 TAPPED HOLE
25 DEEP
Ø40k6
KEYWAY
12X8X60L
70
60
R6
(TYP)
VIEW 'Y'
KEY WAY DETAILS
M10 TAPPED HOLE
25 DEEP
Ø95k6
200
190
KEYWAY
25X14X190L
R12.5
(TYP)
VIEW 'X'
KEY WAY DETAILS
Ø45k6
KEYWAY
14X9X96L
106
96
R7
(TYP)
VIEW 'Z'
KEY WAY DETAILS

Model	P_1 (HP)	i	n_2 min^{-1}	M_2 Nm	sf
HR 550					
($960min^{-1}$)	162.0	8.23	116.65	9889.61	1.78
	137.0	10.35	92.75	10517.81	1.54
	119.0	12.64	75.95	11157.28	1.3
	97.0	15.75	60.95	11332.26	1.36
	70.0	20.5	46.83	10644.28	1.39
	63.0	23.34	41.13	10907.01	1.38
	58.0	26.91	35.67	11577.26	1.32
	53.0	31.5	30.48	12383.71	1.24
($720min^{-1}$)	131.0	8.23	87.48	10662.87	1.61
	111.0	10.35	69.57	11362.3	1.39
	91.0	12.64	56.96	11376.05	1.25
	76.0	15.75	45.71	11838.51	1.27
	56.0	20.5	35.12	11353.89	1.28
	51.0	23.34	30.85	11772.64	1.38
	48.0	26.91	26.76	12774.91	1.17
	43.0	31.5	22.86	13396.21	1.13

Model	P_1 (HP)	i	n_2 min^{-1}	M_2 Nm	sf
HR 650					
($960min^{-1}$)	255.0	8.23	116.65	15566.98	1.94
	212.0	10.35	92.75	16275.73	1.71
	183.0	12.64	75.95	17157.83	1.45
	153.0	15.75	60.95	17874.59	1.47
	138.0	20.5	46.83	20984.43	1.2
	125.0	23.34	41.13	21640.89	1.19
($720min^{-1}$)	205.0	8.23	87.48	16686.17	1.76
	174.0	10.35	69.57	17811.17	1.52
	148.5	12.64	56.96	18564.21	1.31
	123.0	15.75	45.71	19159.7	1.34
	111.0	20.5	35.12	22505.04	1.1
	100.0	23.34	30.85	23083.61	1.09


GBX/HR-550/00
1017
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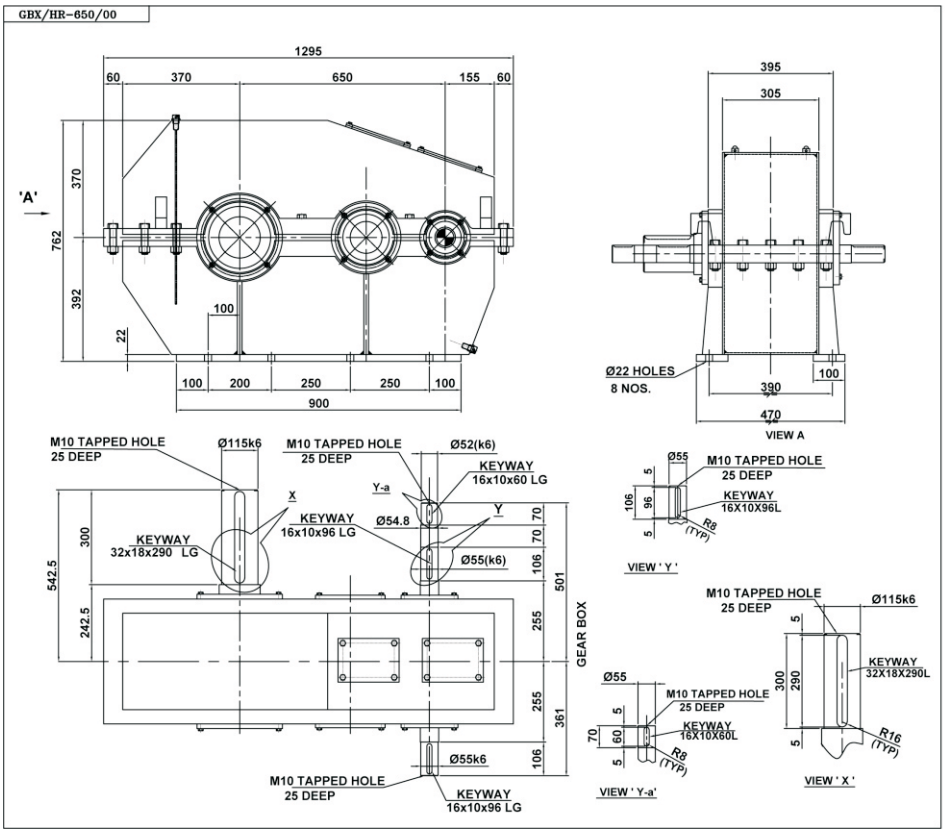
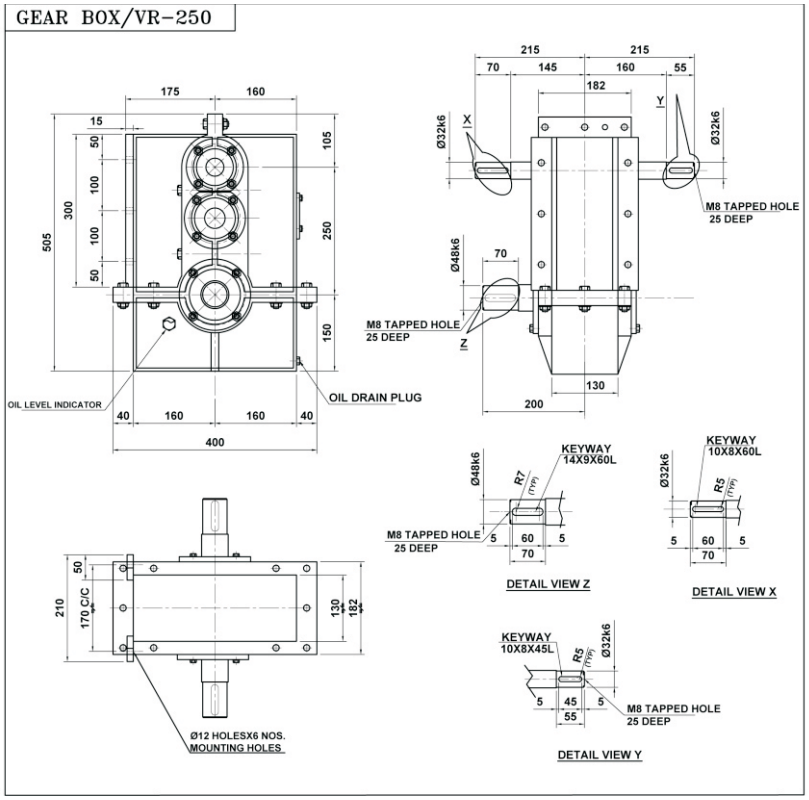
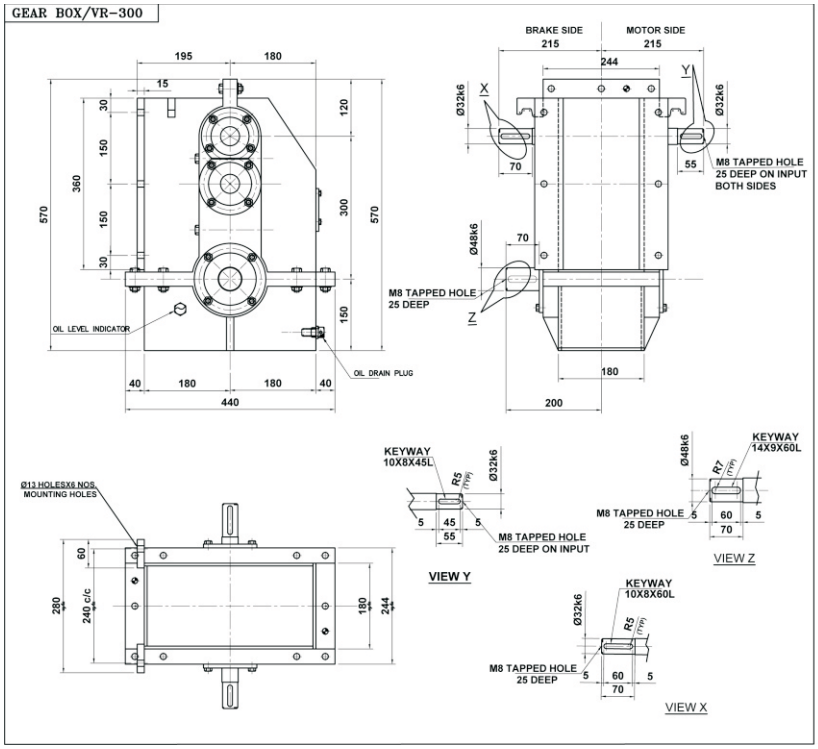
216
550
155
48
332
682
350
18
50
150
150
150
150
700
326
242
Ø22x10Nos
75
300
350
Ø95k6
M10 TAPPED HOLE
25 DEEP
Ø50k6
'X'
'Y'
120
325
205
106
336
230
230
336
106
Ø50k6
Ø95k6
M10 TAPPED HOLE
25 DEEP
KEYWAY
25X14X110L
VIEW 'X'
KEY WAY DETAILS
Ø50k6
KEYWAY
14X9X96L
VIEW 'Y'
KEY WAY DETAILS


GBX/HR-650/00
1295
60
370
650
155
60
'A'
370
762
392
100
22
100
200
250
250
100
900
395
305
Ø22 HOLES
8 NOS.
390
100
470
VIEW A
M10 TAPPED HOLE
25 DEEP
Ø115k6
M10 TAPPED HOLE
25 DEEP
Ø52(k6)
KEYWAY
16x10x60 LG
Y-a
X
KEYWAY
16x10x96 LG
Ø54.8
Y
KEYWAY
32x18x290 LG
Ø55(k6)
300
542.5
242.5
70
70
106
501
255
255
361
106
GEAR BOX
Ø55k6
M10 TAPPED HOLE
25 DEEP
KEYWAY
16x10x96 LG
Ø55
M10 TAPPED HOLE
25 DEEP
KEYWAY
16X10X96L
R8
(TYP)
VIEW ' Y '
M10 TAPPED HOLE
25 DEEP
Ø115k6
KEYWAY
32X18X290L
R16
(TYP)
VIEW ' X '
Ø55
M10 TAPPED HOLE
25 DEEP
KEYWAY
16X10X60L
R8
(TYP)
VIEW ' Y-a'

Model	P_2 (HP)	i	n_2 min^{-1}	M_2 Nm	sf
VR 250					
(960min^{-1})	6.4	15.75	61.0	747.7	2.02
	5.8	20.5	46.8	881.95	1.65
	5	23.34	41.1	865.64	1.72
	4.3	26.91	35.67	858.31	1.76
	3.6	31.5	30.48	841.16	1.81
	3.2	36.86	26.0	874.92	1.61
	2.9	40.17	23.90	864.1	1.63
	2.5	43.76	21.94	811.49	1.68
	2.1	48.57	19.77	756.57	1.85
	2	52.56	18.26	779.74	1.64
(720min^{-1})	5	15.75	45.71	778.85	1.91
	4.3	20.5	35.12	841.82	1.65
	3.6	23.34	30.85	831.01	1.77
	3.3	26.91	26.76	878.28	1.7
	2.3	31.5	22.86	716.54	2.1
	2.5	36.86	19.53	911.38	1.53
	2.1	40.17	17.92	834.3	1.67
	1.8	43.76	16.45	779.03	1.71
	1.4	48.57	14.82	672.51	2.06
	1.3	52.56	13.70	675.77	1.87

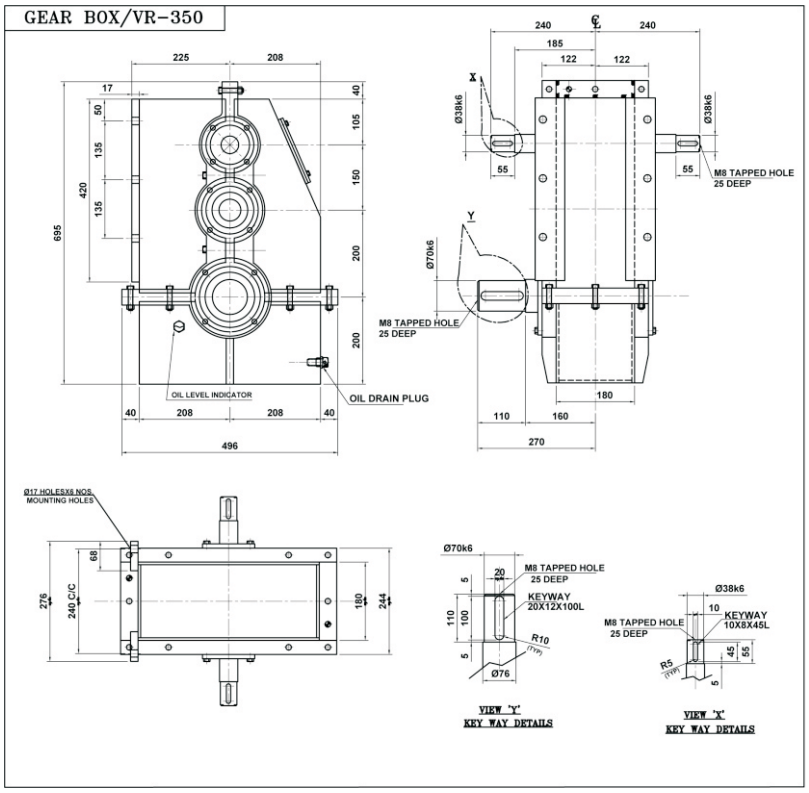
Model	P_2 (HP)	i	n_2 min^{-1}	M_2 Nm	sf
VR 300					
(960min^{-1})	8	15.75	61.0	934.62	2.49
	7.3	20.5	46.8	1110.05	2.02
	6.3	23.34	41.1	1090.7	2.1
	5.4	26.91	35.67	1077.88	2.23
	4.5	31.5	30.48	1051.45	2.16
	4	36.86	26.0	1093.65	1.98
	3.6	40.17	23.90	1072.68	2.02
	3.1	43.76	21.94	1006.24	2.06
	2.6	48.57	19.77	936.71	2.29
	2.5	52.56	18.26	974.67	1.88
(720min^{-1})	6.3	15.75	45.71	981.35	2.33
	5.4	20.5	35.12	1094.84	2.02
	4.5	23.34	30.85	1038.76	1.17
	4.1	26.91	26.76	1091.19	20.6
	3.6	31.5	22.86	1121.54	2.1
	3.1	36.86	19.53	1130.11	1.9
	2.6	40.17	17.92	1032.95	2.08
	2.2	43.76	16.45	952.14	2.16
	1.7	48.57	14.82	816.62	2.6
	1.6	52.56	13.70	831.72	2.18

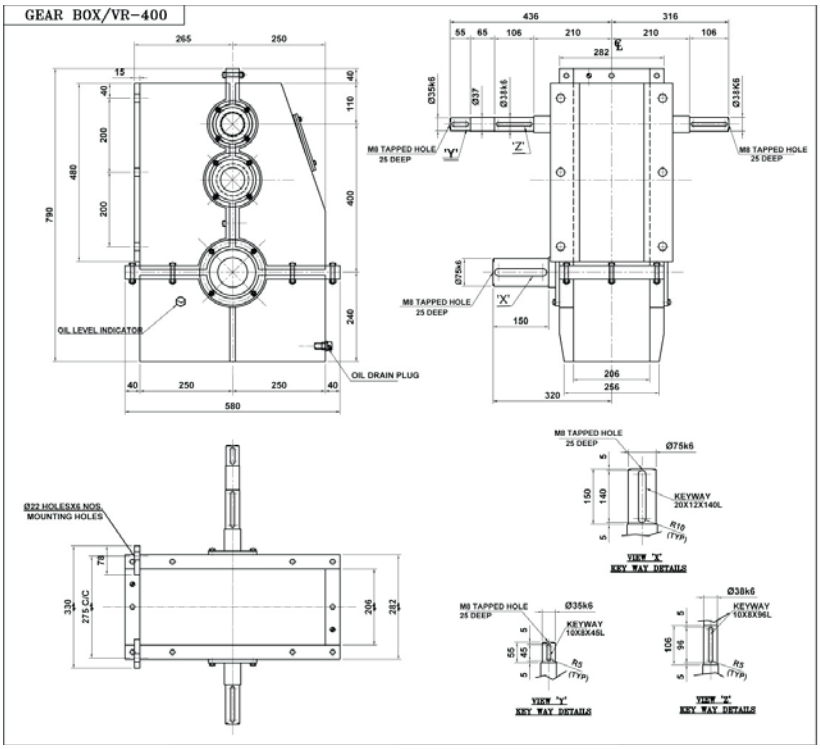

GEAR BOX/VR-250
215
215
70
145
160
55
182
Y
X
Ø32k6
Ø32k6
M8 TAPPED HOLE
25 DEEP
Ø48k6
70
M8 TAPPED HOLE
25 DEEP
Z
130
200
175
160
15
50
100
100
50
300
505
105
250
150
OIL LEVEL INDICATOR
OIL DRAIN PLUG
40
160
160
40
400
KEYWAY
14X9X60L
Ø48k6
R7
(TYP)
M8 TAPPED HOLE
25 DEEP
5
60
5
70
DETAIL VIEW Z
KEYWAY
10X8X60L
Ø32k6
R5
(TYP)
5
60
5
70
DETAIL VIEW X
50
210
170 C/C
130
182
Ø12 HOLESX6 NOS.
MOUNTING HOLES
KEYWAY
10X8X45L
R5
(TYP)
Ø32k6
5
45
5
55
M8 TAPPED HOLE
25 DEEP
DETAIL VIEW Y


GEAR BOX/VR-300
BRAKE SIDE
MOTOR SIDE
215
215
244
195
180
15
30
150
150
30
360
570
120
300
570
150
OIL LEVEL INDICATOR
OIL DRAIN PLUG
40
180
180
40
440
X
Y
Ø32k6
Ø32k6
70
55
M8 TAPPED HOLE
25 DEEP ON INPUT
BOTH SIDES
Ø48k6
70
M8 TAPPED HOLE
25 DEEP
Z
180
200
KEYWAY
10X8X45L
R5
(TYP)
Ø32k6
5
45
5
55
M8 TAPPED HOLE
25 DEEP ON INPUT
VIEW Y
Ø48k6
R7
(TYP)
KEYWAY
14X9X60L
M8 TAPPED HOLE
25 DEEP
5
60
5
70
VIEW Z
Ø13 HOLESX6 NOS.
MOUNTING HOLES
60
200
240 c/c
180
244
KEYWAY
10X8X60L
Ø32k6
R5
(TYP)
M8 TAPPED HOLE
25 DEEP
5
60
5
70
VIEW X

Model	P_2 (HP)	i	n_2 min^{-1}	M_2 Nm	sf
VR 350					
(960min^{-1})	14.7	15.75	61.0	1717.36	2.51
	11.9	20.5	46.8	1809.53	2.3
	10.6	23.34	41.1	1835.15	2.31
	9.3	26.91	35.67	1856.35	2.32
	7.9	31.5	30.48	1845.87	2.35
	7.2	36.86	26.0	1968.58	2.04
	6.6	40.17	23.90	1966.57	2.04
	6	43.76	21.94	1947.57	1.75
	5.2	48.57	19.77	1873.42	2.12
	4.8	52.56	18.26	1871.37	1.94
(720min^{-1})	11.2	15.75	45.71	1744.62	2.43
	9.4	20.5	35.12	1905.83	2.14
	8	23.34	30.85	1846.69	2.31
	6.9	26.91	26.76	1836.39	2.31
	6	31.5	22.86	1869.24	2.28
	5.3	36.86	19.53	1932.12	2.05
	4.6	40.17	17.92	1827.52	2.17
	4.3	43.76	16.45	1861.01	1.8
	3.9	48.57	14.82	1873.42	2.09
	3.6	52.56	13.70	1871.37	1.92

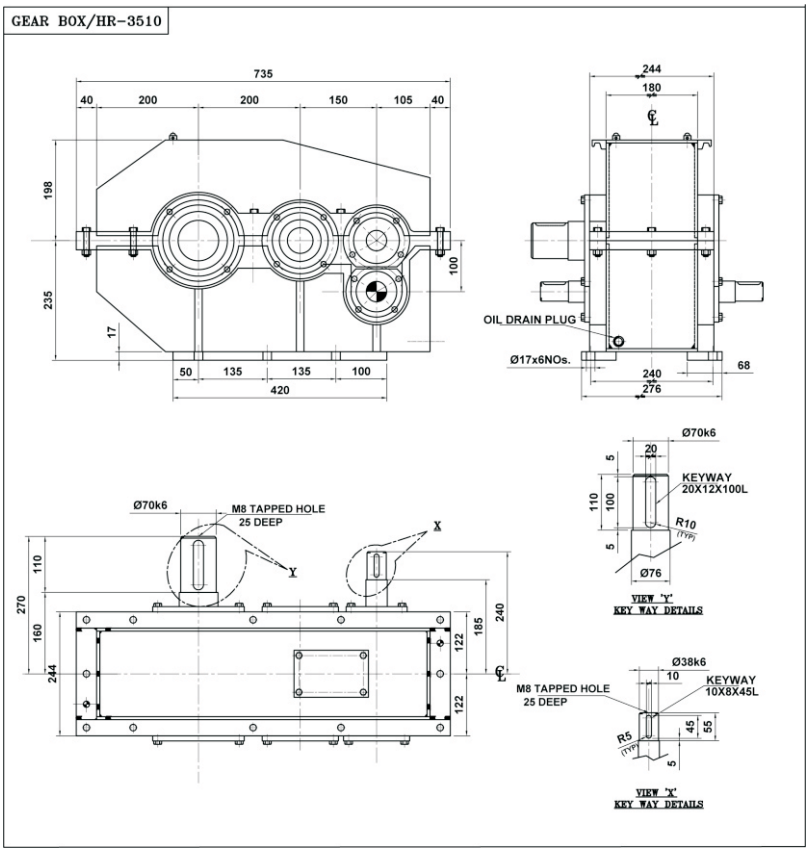
Model	P_2 (HP)	i	n_2 min^{-1}	M_2 Nm	sf
VR 400					
(960min^{-1})	21	15.75	61.0	2453.38	2.45
	18.6	20.5	46.8	2828.34	2.05
	16.8	23.34	41.1	2908.54	2.03
	15.2	26.91	35.67	3034.4	1.98
	13.2	31.5	30.48	3084.24	1.96
	21.1	36.86	26.0	5769.02	1.69
	11.1	40.17	23.90	3307.42	1.69
	10.4	43.76	21.94	3375.79	1.58
(720min^{-1})	16.2	15.75	45.71	2523.47	2.34
	15	20.5	35.12	3041.22	1.87
	13.2	23.34	30.85	3047.04	1.91
	11.9	26.91	26.76	3167.11	1.86
	10.2	31.5	22.86	3177.71	1.87
	9.5	36.86	19.53	3463.23	1.59
	8.9	40.17	17.92	3535.86	1.56
	8.1	43.76	16.45	3505.62	1.5

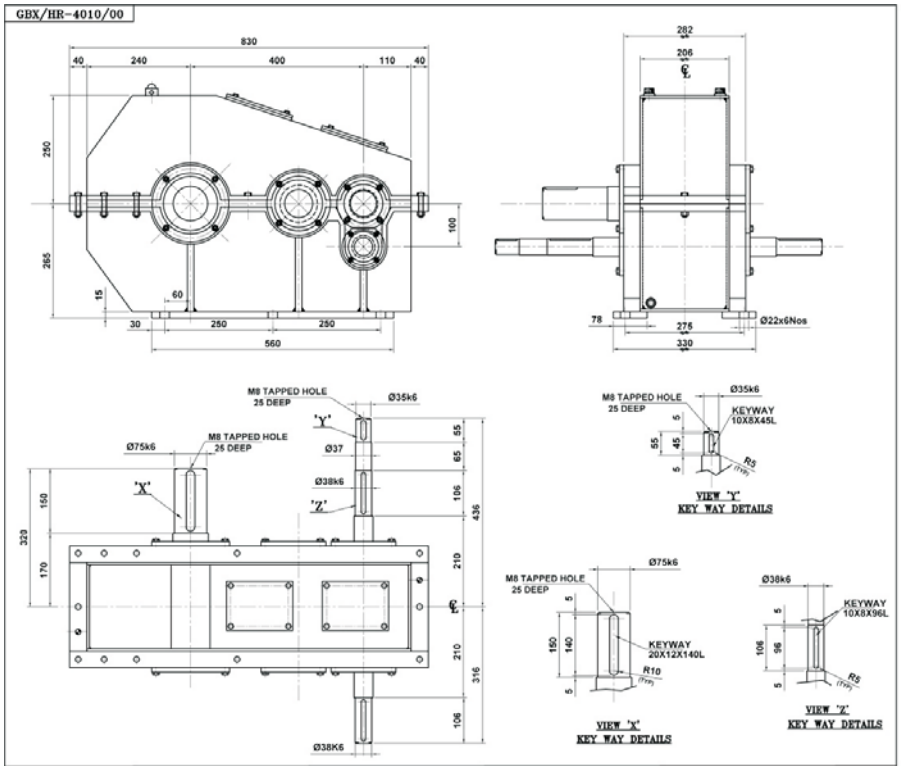

GEAR BOX/VR-350
OIL LEVEL INDICATOR
OIL DRAIN PLUG
M8 TAPPED HOLE 25 DEEP
Ø17 HOLESX6 NOS. MOUNTING HOLES
KEYWAY 20X12X100L
KEYWAY 10X8X45L
VIEW 'Y' KEY WAY DETAILS
VIEW 'X' KEY WAY DETAILS


GEAR BOX/VR-400
OIL LEVEL INDICATOR
OIL DRAIN PLUG
M8 TAPPED HOLE 25 DEEP
Ø22 HOLESX6 NOS. MOUNTING HOLES
KEYWAY 20X12X140L
KEYWAY 10X8X45L
KEYWAY 10X8X96L
VIEW 'X' KEY WAY DETAILS
VIEW 'Y' KEY WAY DETAILS
VIEW 'X' KEY WAY DETAILS

Model	P_2 (HP)	i	n_2 min^{-1}	M_2 Nm	sf
HR 3510					
(960min^{-1})	15	40	24.0	4452.49	2.1
	12	50	19.2	4452.49	2
	10	63	15.2	4675.1	1.96
	8	80	12.00	4749.9	2.2
	7	90	10.67	4673.1	1.98
	6.2	105	9.1	4828.87	2.16
	5.2	124	7.74	4782.88	2.1
	4.7	142	6.76	4950.52	1.96
	4.2	160	6.00	4984.64	1.86
(720min^{-1})	12	40	18.00	4747.27	1.92
	10	50	14.40	4945.08	1.7
	8.3	63	11.43	5171.56	1.42
	6.5	80	9.00	5142.88	1.51
	5.6	90	8.00	4984.64	1.34
	5	105	6.86	5192.33	1.41
	4.2	124	5.81	5150.79	1.43
	3.7	142	5.07	5196.29	1.31
	3.2	160	4.50	5063.76	1.19

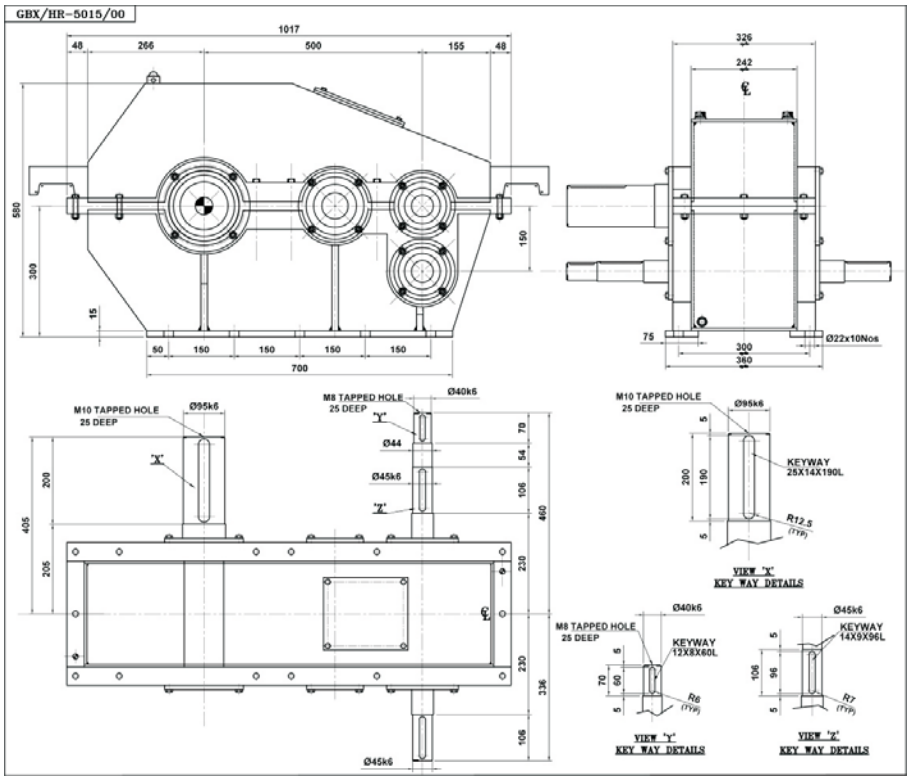
Model	P_2 (HP)	i	n_2 min^{-1}	M_2 Nm	sf
HR 4010					
(960min^{-1})	20.5	40	24.0	6082.44	2.04
	17	50	19.2	6304.97	1.79
	14	63	15.2	6542.34	1.51
	11.3	80	12.00	6705.52	1.47
	10.2	90	10.67	6809.37	1.4
	9.2	105	9.1	7165.41	1.35
	8	124	7.74	7358.27	1.26
	6.9	142	6.76	7267.78	1.2
	5.8	160	6.00	6883.55	1.17
(720min^{-1})	16.5	40	18.00	6527.5	1.91
	13.5	50	14.40	6675.85	1.59
	11	63	11.43	6853.88	1.39
	9	80	9.00	7120.91	1.4
	8.3	90	8.00	7387.94	1.12
	7.3	105	6.86	7580.8	1.14
	6.1	124	5.81	7480.91	1.23
	5.5	142	5.07	7724.21	1.12
	4.8	160	4.50	7595.64	1.07

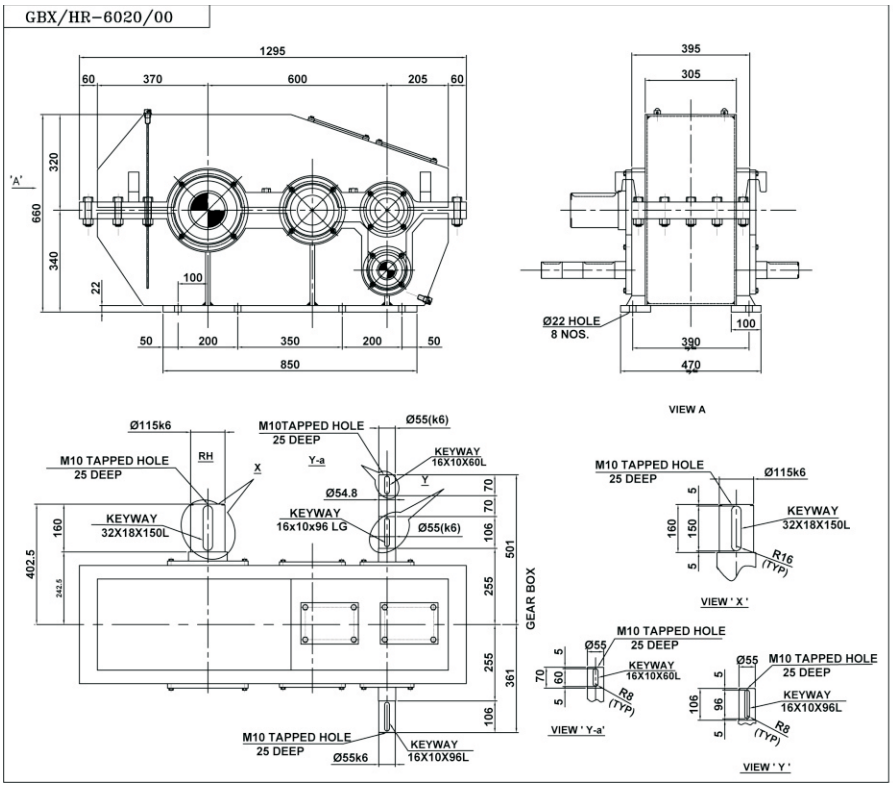

GEAR BOX/HR-3510
735
40
200
200
150
105
40
198
235
100
17
50
135
135
100
420
244
180
OIL DRAIN PLUG
Ø17x6NOs.
240
276
68
Ø70k6
M8 TAPPED HOLE
25 DEEP
X
Y
270
160
110
244
240
185
122
122
20
5
KEYWAY
20X12X100L
110
100
R10
(TYP)
Ø76
VIEW 'Y'
KEY WAY DETAILS
Ø38k6
10
KEYWAY
10X8X45L
45
55
R5
VIEW 'X'
KEY WAY DETAILS


GBX/HR-4010/00
830
40
240
400
110
40
250
265
100
15
60
30
250
250
560
282
206
78
275
330
Ø22x6Nos
M8 TAPPED HOLE
25 DEEP
Ø35k6
Ø75k6
Ø37
Ø38k6
'X'
'Y'
'Z'
55
65
106
436
210
316
223
150
170
Ø38K6
KEYWAY
10X8X45L
R8
VIEW 'Y'
KEY WAY DETAILS
KEYWAY
20X12X140L
R10
VIEW 'X'
KEY WAY DETAILS
KEYWAY
10X8X96L
VIEW 'Z'
KEY WAY DETAILS

Model	P_2 (HP)	i	n_2 min^{-1}	M_2 Nm	sf
HR 5015					
(960min^{-1})	42.5	40	24.0	12609.94	2.25
	35	50	19.2	12980.82	2.1
	29	63	15.2	13551.98	1.85
	23.5	80	12.00	13945.11	1.72
	20.8	90	10.67	13885.77	1.65
	19.4	105	9.1	15109.68	1.54
	15.2	124	7.74	13980.72	1.58
	13.6	142	6.76	13424.9	1.45
	12	160	6.00	14241.82	1.62
(720min^{-1})					
	33.5	40	18.00	13252.8	1.78
	28	50	14.40	13846.21	1.62
	23.4	63	11.43	14580.06	1.49
	19.4	80	9.00	15349.52	1.38
	17.2	90	8.00	15309.95	1.27
	15.8	105	6.86	16407.76	1.25
	13.8	124	5.81	16924.03	1.2
	11.8	142	5.07	16571.94	1.18
	10	160	4.50	15824.24	1.13

Model	P_2 (HP)	i	n_2 min^{-1}	M_2 Nm	sf
HR 6020					
(960min^{-1})	80	40	24.0	23736.36	2.36
	67	50	19.2	24849.01	2.2
	56	63	15.2	26169.34	2.1
	45	80	12.00	26703.41	1.95
	40	90	10.67	26703.41	1.83
	35.5	105	9.1	27649.16	1.76
	31.5	124	7.74	28973.2	1.63
	27.5	142	6.76	28965.78	1.5
	24	160	6.00	28483.64	1.45
(720min^{-1})	62	40	18.00	24527.58	1.96
	52	50	14.40	25714.39	1.8
	43.5	63	11.43	27103.96	1.72
	36	80	9.00	28483.64	1.63
	31.5	90	8.00	28038.58	1.52
	28	105	6.86	29077.05	1.46
	24.5	124	5.81	30046.28	1.6
	21.5	142	5.07	30194.63	1.2
	19	160	4.50	30066.06	1.18


GBX/HR-5015/00
1017
48
266
500
155
48
326
242
580
300
150
15
50
150
150
150
150
700
75
300
360
Ø22x10Nos
M10 TAPPED HOLE
25 DEEP
Ø95k6
"X"
M8 TAPPED HOLE
25 DEEP
Ø40k6
"Y"
Ø44
Ø45k6
"Z"
405
200
205
70
54
106
460
230
230
336
106
Ø45k6
KEYWAY
25X14X190L
190
R12.5
(TYP)
VIEW "X"
KEY WAY DETAILS
KEYWAY
12X8X60L
60
R8
(TYP)
VIEW "Y"
KEY WAY DETAILS
KEYWAY
14X9X96L
96
R7
(TYP)
VIEW "Z"
KEY WAY DETAILS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600
205
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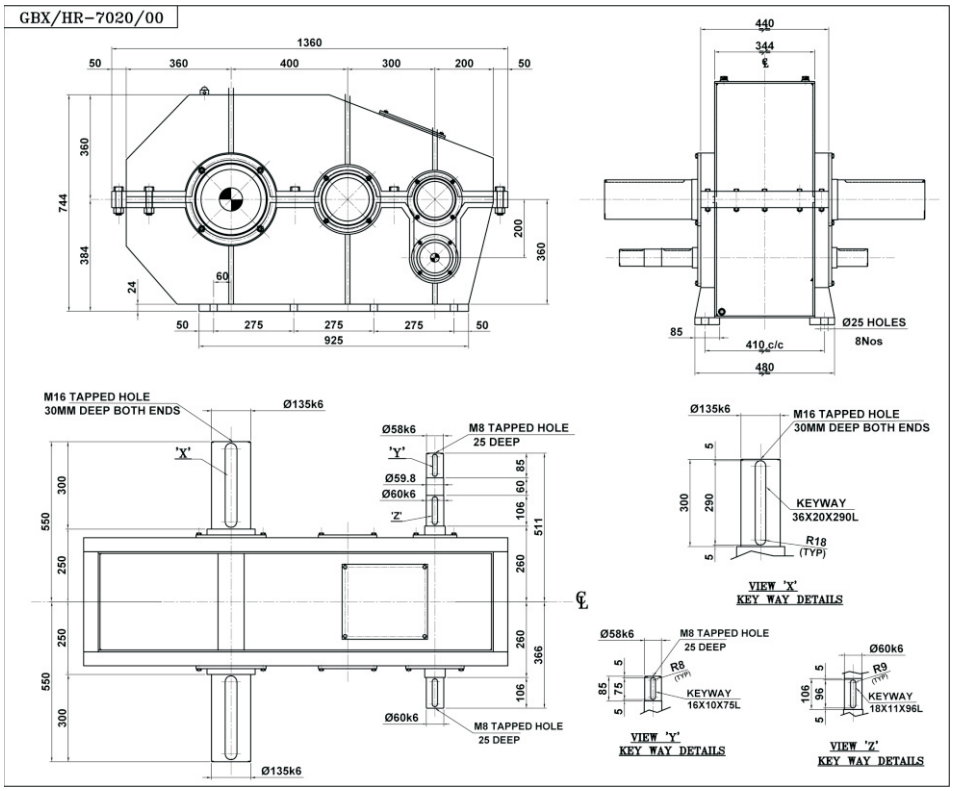
395
305
'A'
320
660
340
22
100
50
200
350
200
50
850
Ø22 HOLE
8 NOS.
100
390
470
VIEW A
Ø115k6
M10TAPPED HOLE
25 DEEP
Ø55(k6)
M10 TAPPED HOLE
25 DEEP
RH
X
Y-a
KEYWAY
16X10X60L
Y
Ø54.8
KEYWAY
32X18X150L
KEYWAY
16x10x96 LG
Ø55(k6)
160
402.5
242.5
70
70
106
501
255
GEAR BOX
255
361
106
M10 TAPPED HOLE
25 DEEP
Ø55k6
KEYWAY
16X10X96L
M10 TAPPED HOLE
25 DEEP
Ø115k6
KEYWAY
32X18X150L
160
150
R16
(TYP)
VIEW ' X '
M10 TAPPED HOLE
25 DEEP
Ø55
KEYWAY
16X10X60L
70
60
R8
(TYP)
VIEW ' Y-a'
Ø55
M10 TAPPED HOLE
25 DEEP
KEYWAY
16X10X96L
106
96
R8
(TYP)
VIEW ' Y '

Model	P_2 (HP)	i	n_2 min^{-1}	M_2 Nm	sf
HR 7020					
($960min^{-1}$)	122	40	24.0	36197.96	2.09
	102	50	19.2	37829.83	1.98
	83	63	15.2	38786.7	1.9
	67	80	12.00	39758.41	1.84
	61.5	90	10.67	41056.49	1.8
	56	105	9.1	43615.57	1.7
	44.8	124	7.74	41206.33	1.65
	40.6	142	6.76	42764.03	1.62
	36.3	160	6.00	43081.5	1.53
($720min^{-1}$)	91.5	40	18.00	36989.17	1.92
	73	50	14.40	38571.59	1.8
	58	63	11.43	39752.48	1.74
	46	80	9.00	40351.82	1.6
	38.8	90	8.00	41835.34	1.54
	28.7	105	6.86	44446.34	1.4
	2	124	5.81	42187.43	1.33
	17.8	142	5.07	43817.33	1.21
	14.5	160	4.50	44307.88	1.16

Model	P_2 (HP)	i	n_2 min^{-1}	M_2 Nm	sf
HR 6515					
($960min^{-1}$)	76	40	24.0	22558.64	2.31
	65	50	19.2	24116.96	2.2
	55	63	15.2	25712.39	1.96
	46	80	12.00	27307.82	1.85
	40	90	10.67	26714.17	2.06
	36	105	9.1	28049.88	2.21
	30.5	124	7.74	28064.72	2.13
	25	142	6.76	26343.15	2.1
	22	160	6.00	26120.53	2.14
($720min^{-1}$)	60	40	18.00	23745.94	2.2
	46.3	50	14.40	22904.93	1.95
	38	63	11.43	23686.57	1.9
	30.4	80	9.00	24062.55	1.86
	25.8	90	8.00	22974.19	1.7
	22	105	6.86	22855.46	1.9
	18	124	5.81	22083.72	2.1
	15.3	142	5.07	21496.00	2.16
	12.5	160	4.50	19788.28	2.18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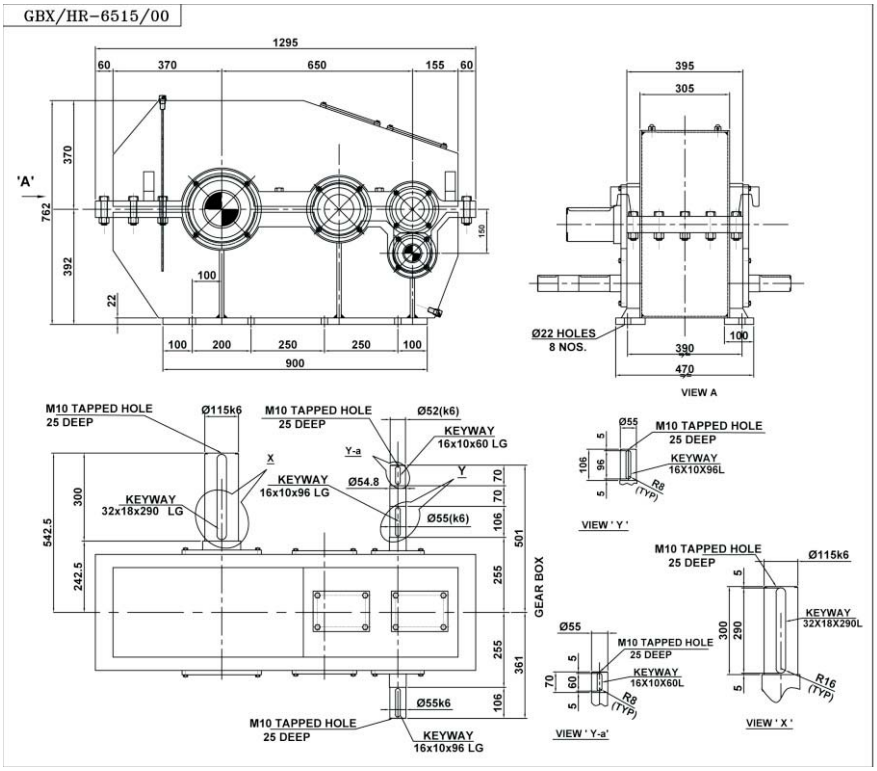
360
400
300
200
50
744
360
384
24
60
200
360
50
275
275
275
50
925
440
344
85
410 c/c
480
Ø25 HOLES
8Nos
M16 TAPPED HOLE
30MM DEEP BOTH ENDS
Ø135k6
'X'
Ø58k6
M8 TAPPED HOLE
25 DEEP
'Y'
Ø59.8
Ø60k6
'Z'
550
300
250
250
550
300
85
60
106
511
260
260
366
106
Ø60k6
M8 TAPPED HOLE
25 DEEP
Ø135k6
Ø135k6
M16 TAPPED HOLE
30MM DEEP BOTH ENDS
5
300
290
5
KEYWAY
36X20X290L
R18
(TYP)
VIEW 'X'
KEY WAY DETAILS
Ø58k6
M8 TAPPED HOLE
25 DEEP
5
R8
(TYP)
85
75
5
KEYWAY
16X10X75L
VIEW 'Y'
KEY WAY DETAILS
Ø60k6
5
R9
(TYP)
106
96
5
KEYWAY
18X11X96L
VIEW 'Z'
KEY WAY DETAILS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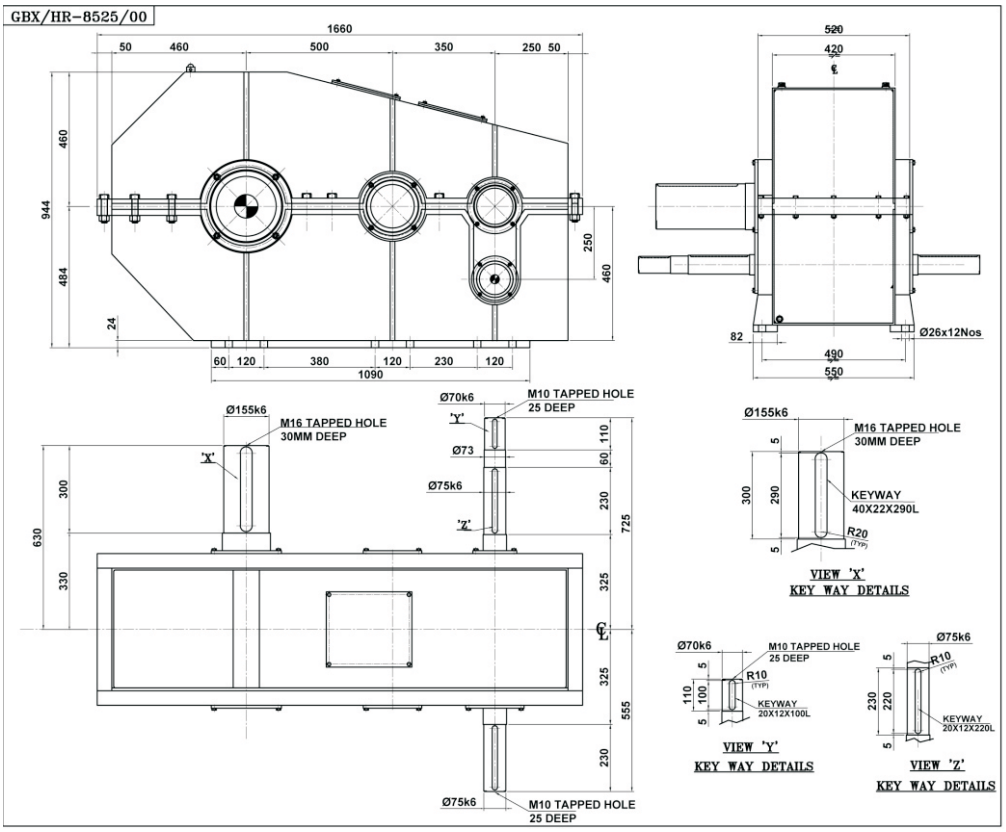
1295
60
370
650
155
60
'A'
762
370
392
100
22
150
100
200
250
250
100
900
395
305
Ø22 HOLES
8 NOS.
390
100
470
VIEW A
M10 TAPPED HOLE
25 DEEP
Ø115k6
KEYWAY
32x18x290 LG
M10 TAPPED HOLE
25 DEEP
Ø52(k6)
KEYWAY
16x10x60 LG
Y-a
X
KEYWAY
16x10x96 LG
Ø54.8
Y
Ø55(k6)
542.5
300
242.5
70
70
106
501
255
255
361
106
GEAR BOX
Ø55k6
M10 TAPPED HOLE
25 DEEP
KEYWAY
16x10x96 LG
Ø55
5
106
96
5
M10 TAPPED HOLE
25 DEEP
KEYWAY
16X10X96L
R8
(TYP)
VIEW ' Y '
M10 TAPPED HOLE
25 DEEP
Ø115k6
5
300
290
5
KEYWAY
32X18X290L
R16
(TYP)
VIEW ' X '
Ø55
M10 TAPPED HOLE
25 DEEP
5
70
60
5
KEYWAY
16X10X60L
R8
(TYP)
VIEW ' Y-a'

Model	P_2 (HP)	i	n_2 min^{-1}	M_2 Nm	sf
HR 8525					
($960min^{-1}$)	160	40	24.0	47491.9	2.4
	130	50	19.2	37829.8	2.2
	105	63	15.2	38786.7	2.17
	86	80	12.00	39758.4	2.1
	75	90	10.67	41056.5	2.05
	63.5	105	9.1	43615.6	2.5
	54	124	7.74	41206.3	2.45
	46	142	6.76	42764.0	2.34
	39	160	6.00	43081.5	2.2
($720min^{-1}$)					
	120	40	18.00	36989.2	2.2
	105	50	14.40	38571.6	1.95
	78	63	11.43	39752.5	1.9
	63	80	9.00	40351.8	1.86
	50.5	90	8.00	41835.3	1.70
	40	105	6.86	44446.3	1.9
	32	124	5.81	42187.4	2.1
	25.5	142	5.07	43817.3	2.16
	20.4	160	4.50	44307.9	2.18



Technical Data For Worm Gear Box

Model	kw	Ratio	SF
Gx50	0.37	7.5	2.58
	0.55	7.5	1.74
	0.75	7.5	1.27
	1.1	7.5	0.87
	1.5	7.5	0.64
	0.37	10	2.35
	0.55	10	1.58
	0.75	10	1.16
	1.1	10	0.8
	1.5	10	0.6
	0.37	15	2.08
	0.55	15	1.4
	0.75	15	1.02
	1.1	15	0.7
	0.37	20	1.42
	0.55	20	0.96
	0.75	20	0.7
	0.37	25	1.67
	0.55	25	1.12
	0.75	25	0.82
	0.37	30	1.17
	0.55	30	0.80
	0.75	30	0.6
	0.37	40	0.6
	0.55	40	0.5
	0.75	40	0.5
	0.37	50	0.7
	0.55	50	0.6
	0.75	50	0.6
	0.37	60	0.7
	0.55	60	0.6
	0.75	60	0.6
	0.37	80	0.7
	0.55	80	0.6
	0.75	80	0.6

Model	kw	Ratio	SF
Gx63	0.37	7.5	2.8
	0.55	7.5	2.2
	0.75	7.5	2.1
	1.1	7.5	2.0
	1.5	7.5	1.9
	2.2	7.5	1.3
	3.7	7.5	0.9
	0.37	10	2.4
	0.55	10	2.1
	0.75	10	1.9
	1.1	10	1.8
	1.5	10	1.6
	2.2	10	1.08
	3.7	10	0.8
	0.37	15	2.3
	0.55	15	1.9
	0.75	15	1.7
	1.1	15	1.6
	1.5	15	1.3
	2.2	15	0.82
	0.37	20	2.2
	0.55	20	1.94
	0.75	20	1.42
	1.1	20	0.19
	1.5	20	0.71
	0.37	25	2.0
	0.55	25	1.5
	0.75	25	1.28
	1.1	25	0.87
	1.5	25	0.65
	0.37	30	1.71
	0.55	30	1.15
	0.75	30	0.84
	0.37	40	1.62
	0.55	40	1.09
	0.75	40	0.8
	0.37	50	1.47
	0.55	50	0.99
	0.75	50	0.73
	0.37	60	1.09
	0.55	60	0.74
	0.75	60	0.54
	0.37	80	0.92
	0.55	80	0.62
	0.75	80	0.50

Model	kw	Ratio	SF
Gx80	0.37	7.5	3.1
	0.55	7.5	2.5
	0.75	7.5	2.2
	1.1	7.5	2.0
	1.5	7.5	1.92
	2.2	7.5	1.7
	3.7	7.5	1.4
	0.37	10	2.6
	0.55	10	2.3
	0.75	10	2.0
	1.1	10	1.8
	1.5	10	1.6
	2.2	10	1.5
	3.7	10	1.1
	0.37	15	2.4
	0.55	15	2.1
	0.75	15	1.8
	1.1	15	1.5
	1.5	15	1.2
	2.2	15	1.1
	3.7	15	0.8
	0.37	20	2.2
	0.55	20	2.0
	0.75	20	1.86
	1.1	20	1.6
	1.5	20	1.5
	2.2	20	1.2
	3.7	20	0.71
	0.37	25	5.46
	0.55	25	3.67
	0.75	25	2.7
	1.1	25	1.84
	1.5	25	1.35
	2.2	25	0.92
	3.7	25	0.6
	0.37	30	2.0
	0.55	30	1.7
	0.75	30	1.6
	1.1	30	1.54
	1.5	30	1.35
	2.2	30	0.92
	3.7	30	0.6
	0.37	40	2.0
	0.55	40	1.8
	0.75	40	1.6
	1.1	40	1.38
	1.5	40	1
	2.2	40	0.7
	0.37	50	1.9
	0.55	50	1.8
	0.75	50	1.53
	1.1	50	1.04
	1.5	50	0.76
	2.2	50	0.6
	0.37	60	2.15
	0.55	60	1.45
	0.75	60	1.06
	1.1	60	0.73
	1.5	60	0.6
	0.37	75	1.88
	0.55	75	1.26
	0.75	75	0.92
	1.1	75	0.63

Model	kw	Ratio	SF
Gx100	0.37	7.5	2.7
	0.55	7.5	2.5
	0.75	7.5	2.2
	1.1	7.5	2.1
	1.5	7.5	1.96
	2.2	7.5	1.8
	3.7	7.5	1.75
	0.37	10	2.2
	0.55	10	1.96
	0.75	10	1.7
	1.1	10	1.5
	1.5	10	1.3
	2.2	10	1.2
	3.7	10	1.0
	0.37	15	2.1
	0.55	15	1.9
	0.75	15	1.7
	1.1	15	1.52
	1.5	15	1.3
	2.2	15	1.3
	3.7	15	1.2
	0.37	20	2.0
	0.55	20	1.83
	0.75	20	1.7
	1.1	20	1.7
	1.5	20	1.6
	2.2	20	1.5
	3.7	20	0.71
	0.37	25	2.1
	0.55	25	2.0
	0.75	25	1.84
	1.1	25	1.67
	1.5	25	1.5
	2.2	25	1.3
	3.7	25	1.12
	0.37	30	2.1
	0.55	30	1.8
	0.75	30	1.7
	1.1	30	1.5
	1.5	30	1.35
	2.2	30	1.25
	3.7	30	0.94
	0.37	40	1.9
	0.55	40	1.85
	0.75	40	1.7
	1.1	40	1.6
	1.5	40	1.58
	2.2	40	1.07
	0.37	50	2.0
	0.55	50	1.8
	0.75	50	1.7
	1.1	50	1.5
	1.5	50	1.4
	2.2	50	1.07
	0.37	60	2.1
	0.55	60	1.9
	0.75	60	1.8
	1.1	60	1.52
	1.5	60	1.11
	2.2	60	0.76
	0.37	75	3.37
	0.55	75	2.27
	0.75	75	1.66
	1.1	75	1.35
	1.5	75	0.83

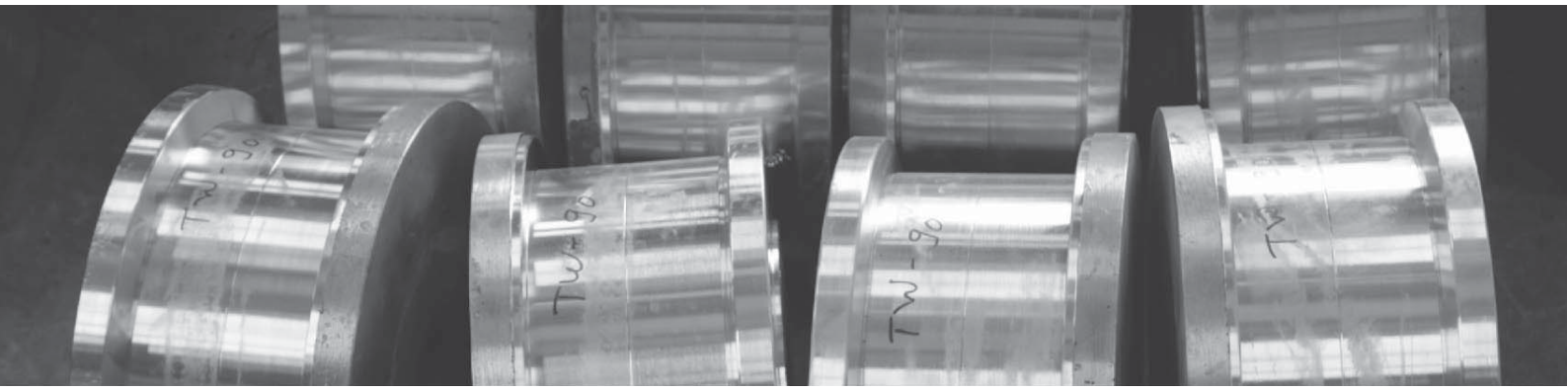
Model	kw	Ratio	SF
Gx160	0.37	7.5	3.4
	0.55	7.5	3.2
	0.75	7.5	3.0
	1.1	7.5	2.7
	1.5	7.5	2.5
	2.2	7.5	2.1
	3.7	7.5	2.0
	0.37	10	3.2
	0.55	10	3.0
	0.75	10	2.8
	1.1	10	2.6
	1.5	10	2.4
	2.2	10	2.0
	3.7	10	1.9
	0.37	15	2.8
	0.55	15	2.6
	0.75	15	2.4
	1.1	15	2.3
	1.5	15	2.1
	2.2	15	1.8
	3.7	15	1.75
	0.37	20	2.8
	0.55	20	2.5
	0.75	20	2.3
	1.1	20	2.2
	1.5	20	2.0
	2.2	20	1.8
	3.7	20	1.6
	0.37	25	2.5
	0.55	25	2.3
	0.75	25	2.2
	1.1	25	2.0
	1.5	25	1.9
	2.2	25	1.7
	3.7	25	1.5
	0.37	30	2.3
	0.55	30	2.1
	0.75	30	1.8
	1.1	30	1.72
	1.5	30	1.6
	2.2	30	1.5
	3.7	30	1.3
	0.37	40	2.0
	0.55	40	1.9
	0.75	40	1.7
	1.1	40	1.5
	1.5	40	1.3
	2.2	40	1.2
	3.7	40	1.1
	0.37	50	1.9
	0.55	50	1.7
	0.75	50	1.6
	1.1	50	1.5
	1.5	50	1.3
	2.2	50	1.2
	3.7	50	1.1
	0.37	60	1.9
	0.55	60	1.6
	0.75	60	1.4
	1.1	60	1.2
	1.5	60	1.0
	2.2	60	0.9
	3.7	60	0.8
	0.37	75	1.7
	0.55	75	1.5
	0.75	75	1.3
	1.1	75	1.2
	1.5	75	1.2
	2.2	75	0.9
	3.7	75	0.8

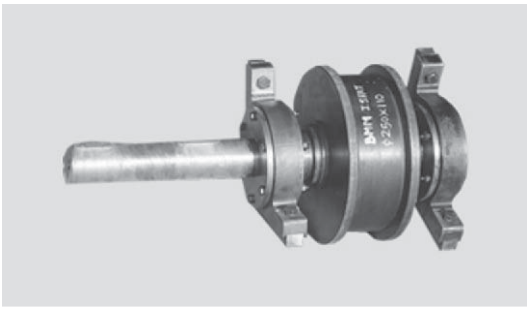
Model	kw	Ratio	SF
Gx120	0.37	7.5	3.1
	0.55	7.5	2.5
	0.75	7.5	2.2
	1.1	7.5	2.0
	1.5	7.5	1.9
	2.2	7.5	1.6
	3.7	7.5	1.4
	0.37	10	2.6
	0.55	10	2.2
	0.75	10	2.0
	1.1	10	1.8
	1.5	10	1.6
	2.2	10	1.5
	3.7	10	1.1
	0.37	15	2.4
	0.55	15	2.1
	0.75	15	1.7
	1.1	15	1.5
	1.5	15	1.2
	2.2	15	1.1
	3.7	15	0.8
	0.37	20	2.2
	0.55	20	2.0
	0.75	20	1.8
	1.1	20	1.6
	1.5	20	1.5
	2.2	20	1.2
	3.7	20	0.7
	0.37	25	2.1
	0.55	25	2.0
	0.75	25	1.8
	1.1	25	1.6
	1.5	25	1.5
	2.2	25	1.3
	3.7	25	1.1
	0.37	30	2.0
	0.55	30	1.7
	0.75	30	1.6
	1.1	30	1.5
	1.5	30	1.3
	2.2	30	0.9
	3.7	30	0.6
	0.37	40	1.9
	0.55	40	1.8
	0.75	40	1.7
	1.1	40	1.6
	1.5	40	1.4
	2.2	40	1.2
	3.7	40	0.8
	0.37	50	1.9
	0.55	50	1.7
	0.75	50	1.6
	1.1	50	1.5
	1.5	50	1.3
	2.2	50	1.2
	3.7	50	1.1
	0.37	60	1.9
	0.55	60	1.6
	0.75	60	1.4
	1.1	60	1.2
	1.5	60	1.0
	2.2	60	0.8
	3.7	60	0.7
	0.37	75	2.0
	0.55	75	1.8
	0.75	75	1.6
	1.1	75	1.5
	1.5	75	1.4
	2.2	75	1.2

Model	kw	Ratio	SF
Gx200	0.37	7.5	3.8
	0.55	7.5	3.5
	0.75	7.5	3.2
	1.1	7.5	3.0
	1.5	7.5	2.8
	2.2	7.5	2.6
	3.7	7.5	2.5
	0.37	10	3.3
	0.55	10	3.1
	0.75	10	3.0
	1.1	10	2.8
	1.5	10	2.6
	2.2	10	2.4
	3.7	10	2.3
	0.37	15	3.0
	0.55	15	2.8
	0.75	15	2.6
	1.1	15	2.4
	1.5	15	2.2
	2.2	15	2.0
	3.7	15	1.9
	0.37	20	2.8
	0.55	20	2.6
	0.75	20	2.5
	1.1	20	2.3
	1.5	20	2.2
	2.2	20	1.9
	3.7	20	1.85
	0.37	25	2.7
	0.55	25	2.5
	0.75	25	2.4
	1.1	25	2.3
	1.5	25	2.0
	2.2	25	1.9
	3.7	25	1.8

Model	kw	Ratio	SF
Gx200	0.37	30	2.5
	0.55	30	2.3
	0.75	30	2.0
	1.1	30	1.8
	1.5	30	1.75
	2.2	30	1.6
	3.7	30	1.5
	0.37	40	2.5
	0.55	40	2.3
	0.75	40	2.0
	1.1	40	1.9
	1.5	40	1.85
	2.2	40	1.8
	3.7	40	1.3
	0.37	50	2.3
	0.55	50	2.0
	0.75	50	1.8
	1.1	50	1.7
	1.5	50	1.7
	2.2	50	1.5
	3.7	50	1.4
	0.37	60	2.2
	0.55	60	2.0
	0.75	60	1.8
	1.1	60	1.6
	1.5	60	1.5
	2.2	60	1.3
	3.7	60	1.2
	0.37	75	2.0
	0.55	75	1.86
	0.75	75	1.65
	1.1	75	1.3
	1.5	75	1.2
	2.2	75	1.1
	3.7	75	0.9

EOT CRANE WHEEL ASSEMBLY





Wheel assembly is the most important part of crane as it provides actual motion to crane.

The assembly consists of various components including wheel, shaft, bearings, housing etc.

Gearx manufactures around 3000 nos of wheel assemblies per year & supplies to various EOT crane manufacturers.

The raw material used for wheel assembly is genuine one which has been tested thoroughly for various testing procedures like chemical, physical analysis before starting of processing.

Forgings & shafts of wheels have been undergone for ultrasonic testing procedure to ensure defect free production.

A wheel has been heat treated to specified hardness by means of harding& tempering procedures.

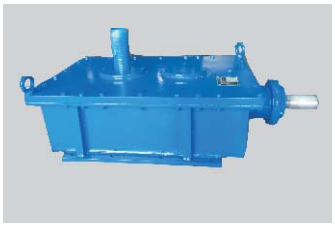
Gearx manufactures wheels starting for 150 mm Diameter up to 700 mm Diameter as per customer specifications.

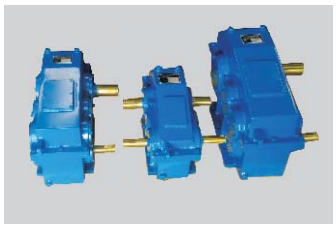
Technical Specifications of Wheel Assembly

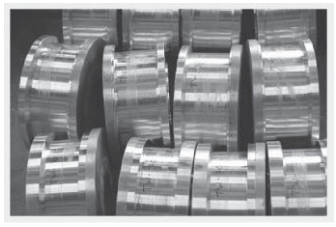
Sr. No.	Specification	Outer Dia (mm)	Tread Dia (mm)	Tread Width (mm)	Thikness (mm)	Approx Wt. (mm)
1	160 x 94 Thk	192	160	52 , 62	94	28
2	160 x 110 Thk	192	160	70 , 78	110	32
3	200 x 94 Thk	232	200	52 , 62	94	42
4	200 x 110 Thk	232	200	70 , 74 , 78	110	45
5	200 x 122 Thk	232	200	84 , 90	122	48
6	250 x 110 Thk	282	250	62 , 74 , 78	110	73
7	250 x 122 Thk	282	250	80 , 84 , 90	122	77
8	250 x 132 Thk	282	250	100	132	80
9	320 x 110 Thk	360	300	64 , 70	110	114
10	320 x 122 Thk	360	300	74 , 78 , 82	122	121
11	320 x 132 Thk	360	300	86 , 92	132	126
12	320 x 142 Thk	360	300	96 , 102	142	131
13	400 x 126 Thk	440	400	74 , 80 , 86	126	210
14	400 x 134 Thk	440	400	90 , 94	134	218
15	400 x 146 Thk	440	400	100 , 106	146	232

NOTES :

The existing setup of company consists of various categories of machines. The factory has area around 2000 sq. feet situated at Narhe. All machines are comprises of respective inspection instruments & gauges which are required for day to day inspection activity.







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