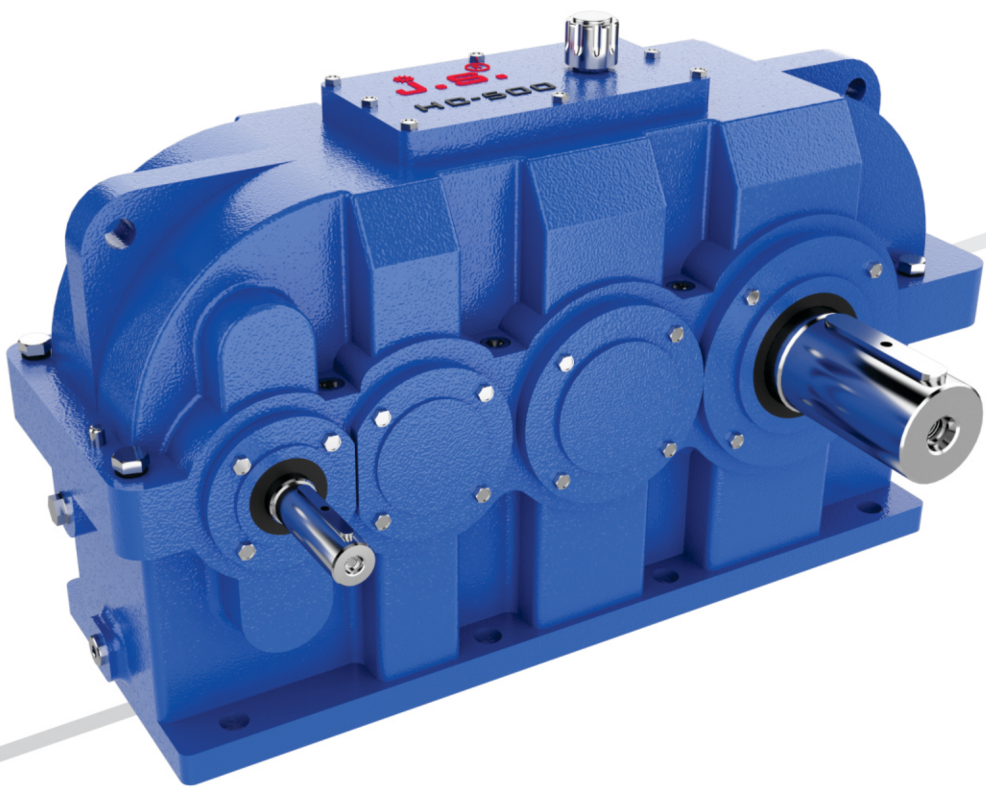
J.S.®

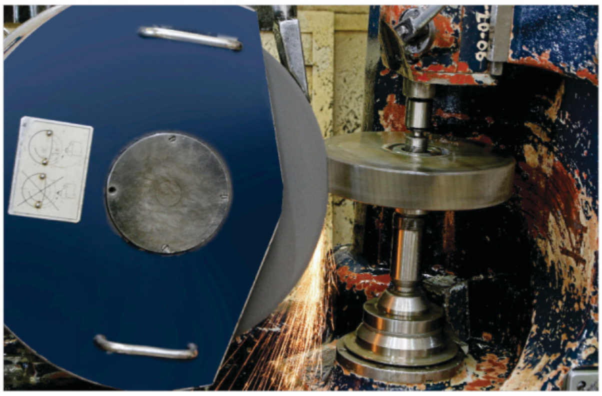
Since : 1990

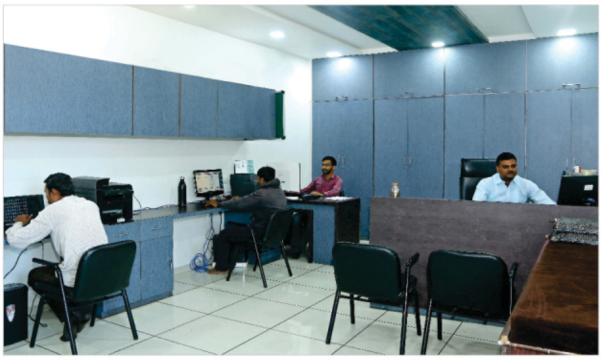
your
Specialist for
Crane



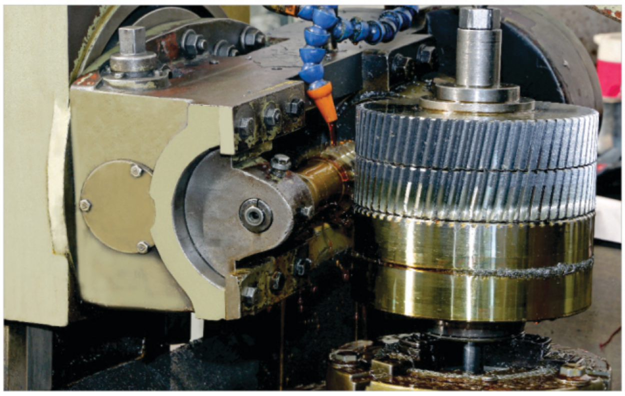
Crane Duty Helical Gearbox

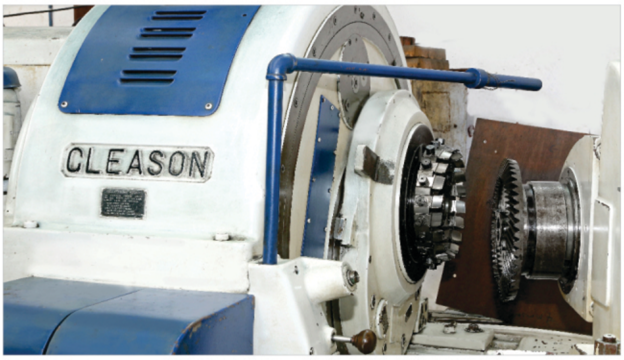
Infrastructures

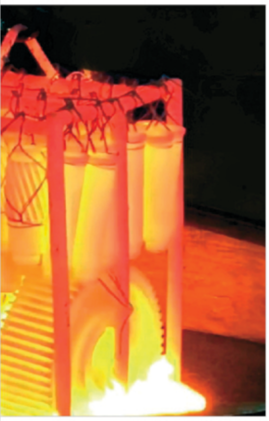


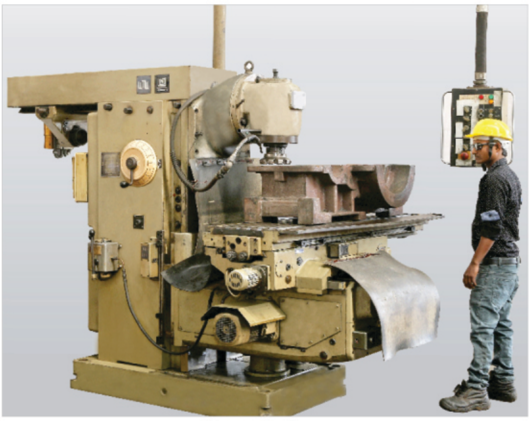



S.W.L. - 5 MT




CLEASON





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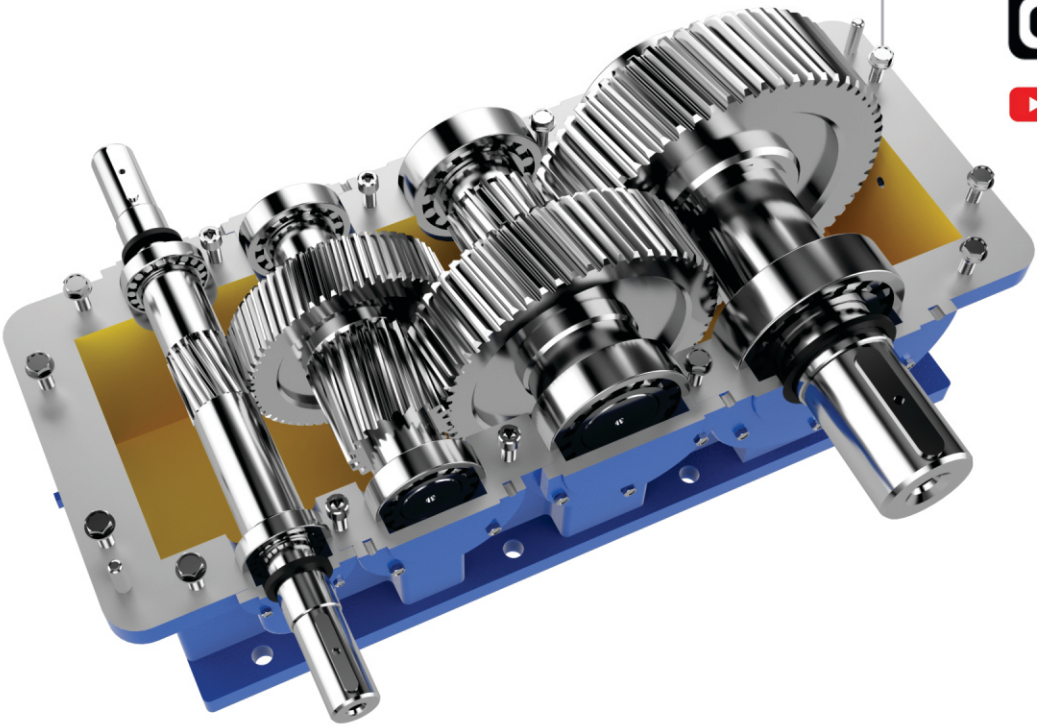
Gear Box Internal Composition

YouTube Video
SCAN & play



Description :

Gear Case*

- Super rigid housing of graded cast iron machine on High-Precision Machine
- Fabricated case available on request.

Gears*

- Made from high graded alloy steel case harden (HRC-55 to 60) and precision profile ground. Accuracy DIN 6*/ DIN 7*

Oil Seal*

- Input / output shafts incorporate double oil seals imported

Bearing*

- Roller Bearings
  FAG / Timken (on request)

Assembly*

- Gears and housing are assembled and test-run technicians after stringent QC.
- Bearing temperature is 100% tested during the trial operation.
- Noise is kept below the standard 85dB.

Recommend Lubricant

Synthetic Oil

ISO VG 320
100% PAO (Poly alfa olefins) base synthetic oil

- Up to 4 times longer oil life compared to any conventional mineral oil.
- Deliver energy efficiency.
- Observe temperature reduction.
- Increased gear & bearing life.
- Lesser evaporation due to lower velocity.

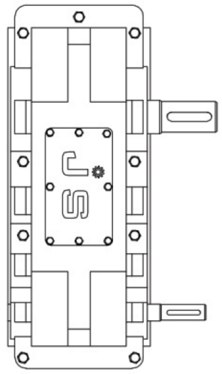
Mineral Oil

ISO VG 320 / 460

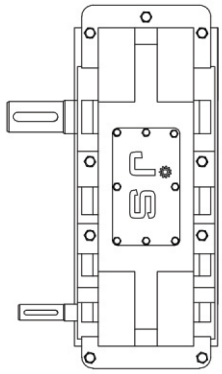
- Changing period : 4500 Hours

Selection :

Shaft Position From Top View for 3 & 4 stage Gear Box



1. “Right Hand Design”



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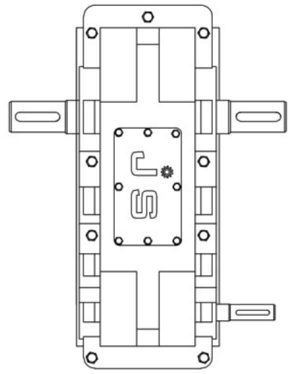
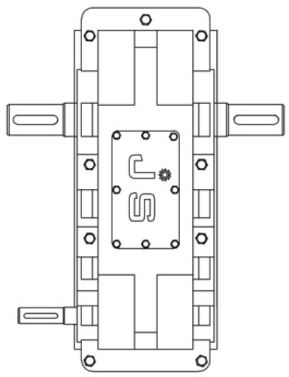
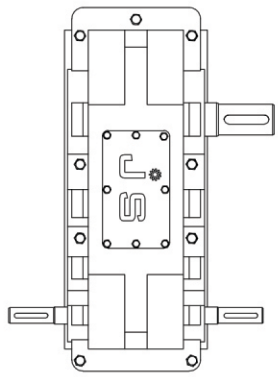


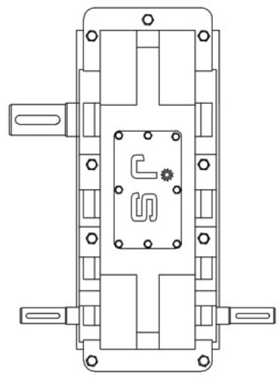
Single Input & Double Output
3. “Right Hand Design”



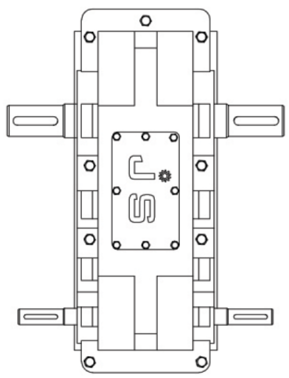
Single Input & Double Output
4.. “Right Hand Design”



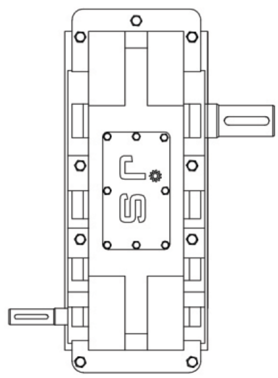
Double Input & Single Output
5. “Left Hand Design”



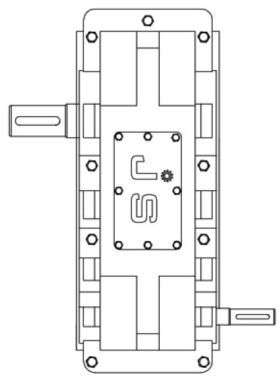
Double Input & Single Output
6. “Right Hand Design”



7. Double Input & Double Output



Single Input & Single Output
8 “LH Design Oppsite”



Single Input & Single Output
9 “RH Design Oppsite”

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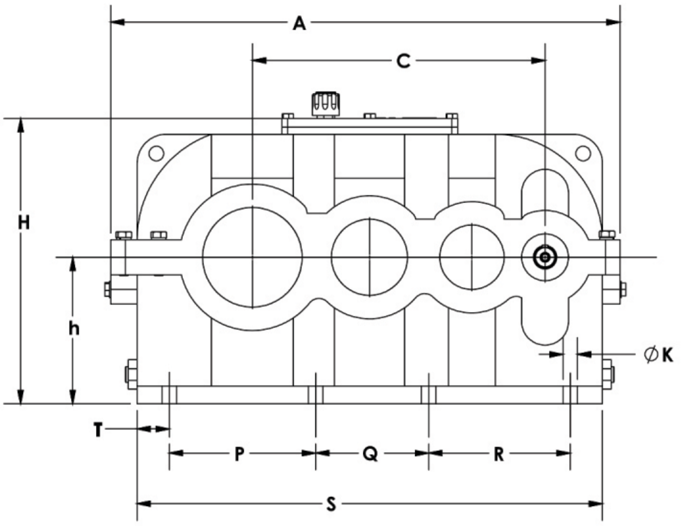
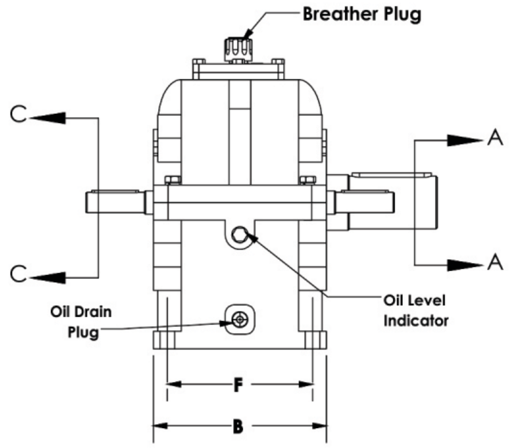
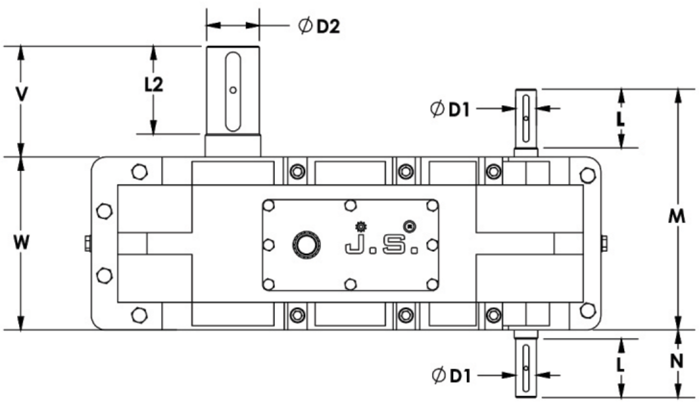
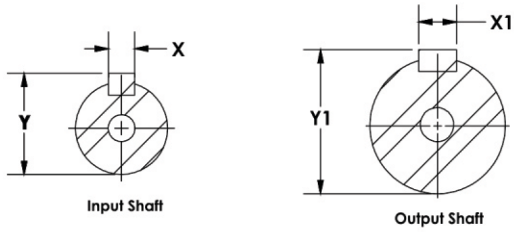
Three Stage Gear Box-HC Series









Available Ratio 25 : 1 to 160 : 1 — THREE STAGE GEAR BOX

Type	Input Shaft		Output Shaft		Dimensions (mm)																				Average Weight*	Oil Qty*
Model	ØD1	L1	ØD2	L2	C	A	H	h	T	P	Q	R	S	W	B	F	M	N	V	ØK	X	Y	X1	Y1	Kg	Ltr
HC-250	24	50	42	70	250	475	245	135	25	350	N/A	N/A	400	158	168	140	231	73	99	14	8	27.3	12	45.3	50	4
HC-300	28	60	48	80	300	533	269	133	30	110	120	77	337	180	192	152	248	68	91	14	8	31.3	14	51.8	90	5
HC-350	28	80	55	100	350	650	350	180	25	220	135	165	570	245	255	215	350	105	125	16	8	31.3	14	58.8	140	10
HC-425	32	80	70	105	425	765	415	205	35	230	150	225	675	280	300	250	384	104	133	18	10	35.3	20	74.9	300	15
HC-500	35	100	90	150	500	875	487	250	55	250	193	242	795	295	295	248	411	116	185	21	10	38.3	25	95.4	410	22
HC-550	45	120	95	175	550	1000	540	280	55	280	210	280	880	395	380	315	546	151	220	25	14	48.8	25	100.4	550	30
HC-650	50	120	105	200	650	1190	655	345	55	360	250	334	1054	395	393	341	548	153	236	28	14	53.8	28	111.4	700	50
HC-700	55	120	120	200	700	1280	705	355	130	355	355	355	1325	470	470	400	630	160	250	30	14	58.8	32	127.4	800	60
HC-800	50	110	140	200	800	1360	660	342	55	195	105	245	800	365	425	332	533	168	230	25	14	53.8	36	148.4	850	75
HC-900	65	140	170	225	900	1580	895	450	225	450	450	450	1800	590	590	500	770	180	275	32	18	69.4	40	190	1500	170
HC-1000	80	150	200	250	1000	1550	805	425	110	720	200	240	1550	640	640	530	860	220	320	38	22	85.4	40	220	2100	245

Note : • All Dimensions are in mm.

• Shaft centering according to DIN 332, shape DS.

• Key & Keyway according to DIN 6885

*Condition Apply

Selection Table*

Ratio	I/P RPM	O/P RPM	THREE STAGE (HC) HELICAL GEAR SIZE / INPUT KW RATING										
In	N1	N2	250	300	350	425	500	550	650	700	800	900	1000
20	1500	75	16.8	-----	-----	-----	-----	144.8	-----	-----	384.8	-----	-----
	1000	50	11.68	-----	-----	-----	-----	98.4	-----	-----	290.4	-----	-----
22	1500	68.2	16.64	-----	-----	-----	-----	130.4	-----	-----	350.4	-----	-----
	1000	45.5	11.04	-----	-----	-----	-----	91.2	-----	-----	264.8	-----	-----
25	1500	60	14.16	19.2	26.4	62	83.2	120	166.4	205.6	330.4	450.4	603.2
	1000	40	9.28	12.8	16.8	42	56.8	83.2	114.4	136.8	255.2	315.2	404.8
28	1500	53.6	12.8	16.8	23.2	56	75.2	104.8	144.8	184.8	310.4	404.8	544
	1000	35.7	8.4	11.2	14.4	38	54.4	72	102.4	123.2	230.4	284.8	363.2
31.5	1500	47.6	11.2	15.2	20	48	71.2	95.2	130.4	164	290.4	384.8	480.8
	1000	31.7	7.6	10.4	13.6	33	47.2	63.2	87.2	109.6	200	255.2	320.8
35.5	1500	42.3	9.6	13.6	18.4	46	61.6	87.2	123.2	148	280	344.8	434.4
	1000	28.2	6.72	8.8	12	30	41.6	58.4	82.4	99.2	184.8	230.4	289.6
40	1500	37.5	8.8	12	16.8	43	56	78.4	108.8	132.8	240	310.4	387.2
	1000	25	5.92	7.92	12	28	37.6	52	72.8	88.8	164.8	204.8	258.4
45	1500	33.3	8	10.4	14.4	36	50.4	68.8	97.6	119.2	220	275.2	348.8
	1000	22.2	5.36	7.04	10.4	25	33.6	46.4	65.6	80	150.4	180	232.8
50	1500	30	7.04	9.6	12	32	44.8	62.4	89.6	104	200	244.8	304
	1000	20	4.72	6.32	8.8	22	29.6	43.2	60	69.6	135.2	164.8	203.2
56	1500	26.8	6.4	8.8	11.2	28	39.2	55.2	79.2	93.6	175.2	220	271.2
	1000	17.9	4.24	5.68	7.68	19	27.2	38.4	52.8	62.4	120	144.8	180.8
63	1500	23.8	5.52	7.52	9.6	24	35.2	47.2	65.6	84	150.4	195.2	244.8
	1000	15.9	3.6	5.04	6.08	16	24	31.2	43.2	56	104.8	130.4	163.2
71	1500	21.1	5.28	6.72	8	21	32	41.6	58.4	79.2	135.2	175.2	216
	1000	14.1	3.44	4.48	5.68	14	21.6	28	39.2	52.8	92	115.2	144
80	1500	18.8	4.32	5.92	7.28	19	28.8	36	55.2	70.4	120	155.2	206.4
	1000	12.5	2.88	4	5.2	13	19.2	24	34.4	47.2	82.4	100	137.6
90	1500	16.7	4.16	5.28	6.8	17	25.6	32.8	46.4	63.2	112	140	184
	1000	11.1	2·72	3.6	4.72	11	17.6	21.6	31.2	42.4	75.2	92	122.4
100	1500	15		4.72	6.8	17	22.4	28.8	44	56.8	104.8	134.4	165.6
	1000	10		3.2	4.72	11	15.2	19.2	29.6	37.6	70.4	89.6	110.4
112	1500	13.4		4.24	5.92	15	20.8	25.6	38.4	49.6	97.6	115.2	146.4
	1000	8.9		2.8	4.08	9.6	13.6	17.6	25.6	32.8	65.6	75.2	97.6
120	1500	12.5		3.84	4.4	13	17.6	22.4	35.2	45.6	90.4	105.6	137.6
	1000	8.3		2.48	3.04	8	12	15.2	22.4	29.6	60.8	65.6	88
140	1500	10.7		3.36	3.2	9.6	14.4	20	32	40	83.2	96	128
	1000	7.1		2.24	2.56	6.4	9.6	13.6	19.2	25.6	55.2	60.8	78.4

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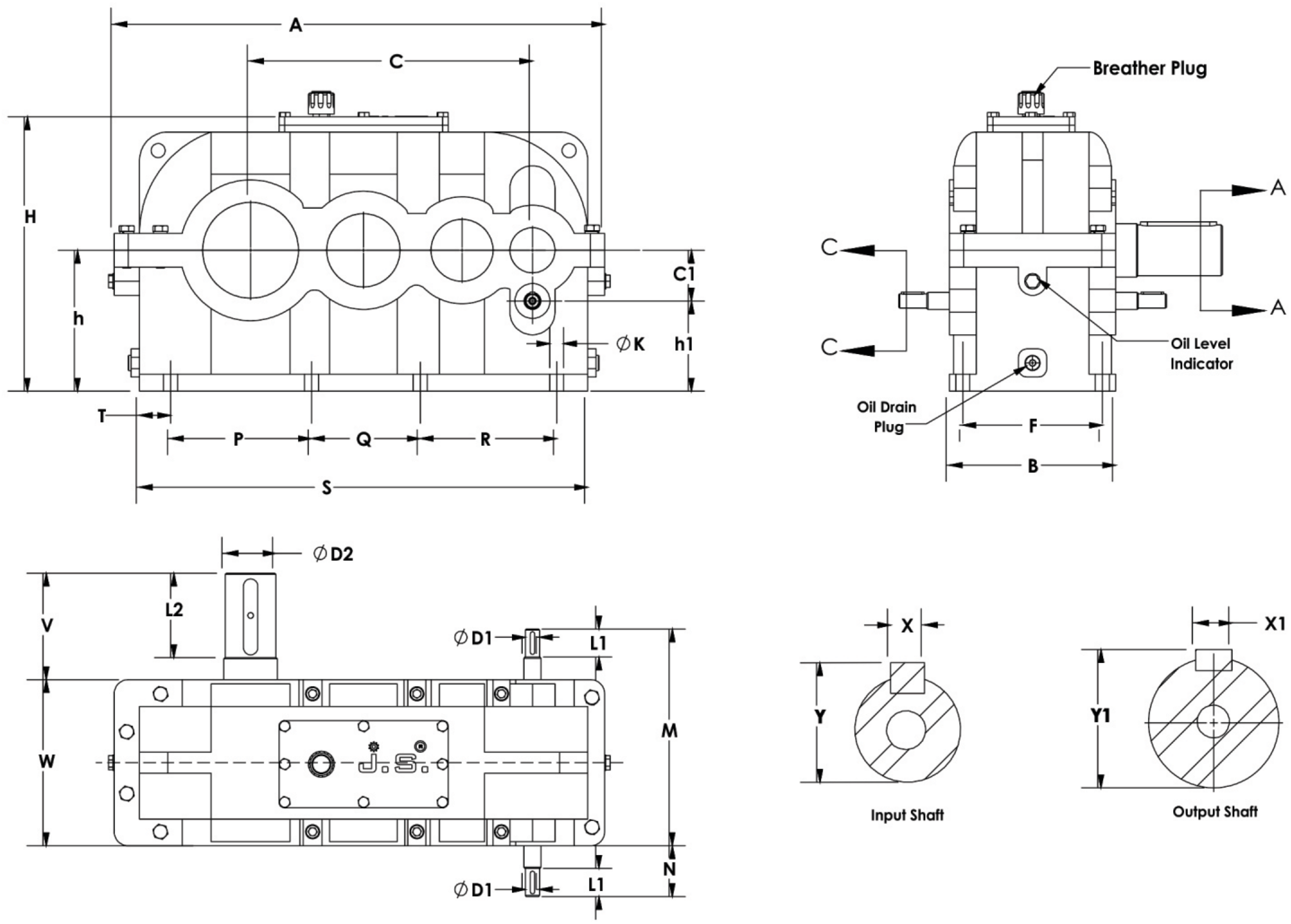
Four Stage Gear Box-HD Series



Available Ratio 150 :1 to 650 : 1

FOUR STAGE GEAR BOX

Type	Input Shaft		Output Shaft		Dimensions (mm)																						Average Weight*	Oil Qty*
Model	ØD1	L1	ØD2	L2	C	C1	A	H	h	h1	T	P	Q	R	S	W	B	F	M	N	V	ØK	X	Y	X1	Y1	Kg	Ltr
HD-500	25	50	90	150	500	90	875	487	250	160	55	250	193	242	795	295	295	248	411	116	185	21	8	28.3	25	95.4	450	22
HD-550	30	60	95	175	550	100	1000	540	280	180	55	280	210	280	880	395	380	315	546	151	220	25	8	33.3	25	100.4	620	30
HD-650	35	70	105	200	650	130	1190	655	345	215	55	360	250	334	1054	395	393	341	548	153	236	28	10	38.3	28	111.4	770	50
HD-700	40	80	120	200	700	140	1280	705	355	215	130	355	355	355	1325	470	470	400	630	160	250	30	12	43.3	32	127.4	900	60
HD-800	50	110	140	200	800	150	1360	660	342	192	55	195	105	245	800	365	425	332	533	168	230	25	14	53.8	36	148.4	950	75
HD-900	55	110	170	250	900	180	1580	895	450	270	225	450	450	450	1800	590	590	500	770	180	275	32	16	59.3	40	179.4	1650	170
HD-1000	60	110	200	250	1000	200	1550	805	425	225	110	720	200	240	1550	640	640	530	860	220	320	38	18	64.4	40	220	2300	245

Note : • All Dimensions are in mm.

***Condition Apply**

- Shaft centering according to DIN 332, shape DS.
- Key & Keyway according to DIN 6885

Selection Table*

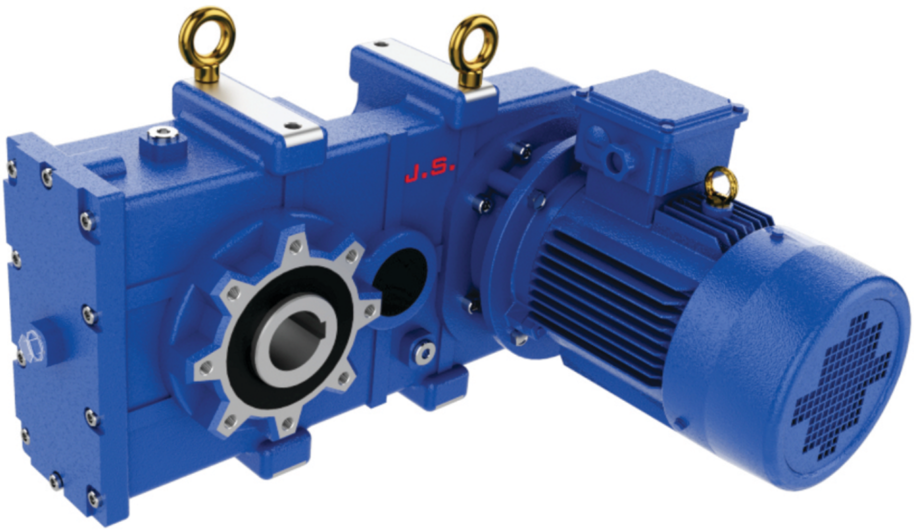
Ratio	1/P RPM	O/P RP	FOUR STAGE (HD) HELICAL GEAR SIZE / INPUT KWR						
In	N1	N2	500+100	550+100	650+130	700+140	800+160	900+180	1000+200
90	1500	16.7	-----	36	-----	-----	110	-----	-----
	1000	11.1	-----	24	-----	-----	73.6	-----	-----
100	1500	15	-----	32.8	-----	-----	100	-----	-----
	1000	10	-----	21.6	-----	-----	66.4	-----	-----
112	1500	13.4	-----	28.8	-----	-----	91.2	-----	-----
	1000	8.9	-----	20	-----	-----	59.2	-----	-----
125	1500	12	16.8	26.4	34.4	44	80.8	96.8	121.6
	1000	8	11.2	16.8	22.4	29.6	52.8	64	80.8
140	1500	10.7	16.8	23.2	30.4	43.2	72	87.2	106.4
	1000	7.1	11.2	16	20	28.8	47.2	56.8	71.2
160	1500	9.4	14.4	20	27.2	39.2	63.2	76	96.8
	1000	6.3	9.6	14.4	18.4	26.4	42.4	51.2	64.8
180	1500	8.3	12	19.2	24.8	31.2	56.8	68.8	80
	1000	5.6	7.84	12	16.8	20.8	38.4	46.4	54.4
200	1500	7.5	10.4	15.2	22.4	27.2	51.2	62.4	73.8
	1000	5	7.12	10.4	14.4	18.4	34.4	40.8	48.8
224	1500	6.7	9.6	14.4	19.2	24	44.8	55.2	65.6
	1000	4.5	6.4	8.8	13.6	16	30.4	36.8	43.2
250	1500	6	8	12	17.6	21.6	40	48	56.8
	1000	4	5.6	8.8	12	14.4	27.2	32	38.4
280	1500	5.4	7.6	11.2	15.2	20	36	44	52
	1000	3.6	5.12	7.52	10.4	12.8	24	28.8	34.4
315	1500	4.8	6.72	9.6	12.8	17.6	32	39.2	46.4
	1000	3.2	4.48	6.48	9.6	12	20.8	24.8	29.6
355	1500	4.2	5.84	8.8	12.8	16	28.8	35.2	40.8
	1000	2.8	3.92	6	8	10.4	19.2	23.2	27.2
400	1500	3.8	5.36	8	11.2	14.4	26.4	31.2	36
	1000	2.5	3.6	5.04	7.52	9.6	16.8	20	24
450	1500	3.3	5.04	7.52	9.6	12.8	20.8	28.8	36.8
	1000	2.2	3.36	5.04	6.64	8	14.4	19.2	24.8
500	1500	3	4.56	7.12	8.8	11.2	-----	25.6	29.6
	1000	2	3.04	4.72	6	7.52	-----	17.6	20
560	1500	2.7	3.92	6.64	8	10.4	-----	22.4	26.4
	1000	1.8	2.64	4.32	5.28	6.72	-----	15.2	17.6

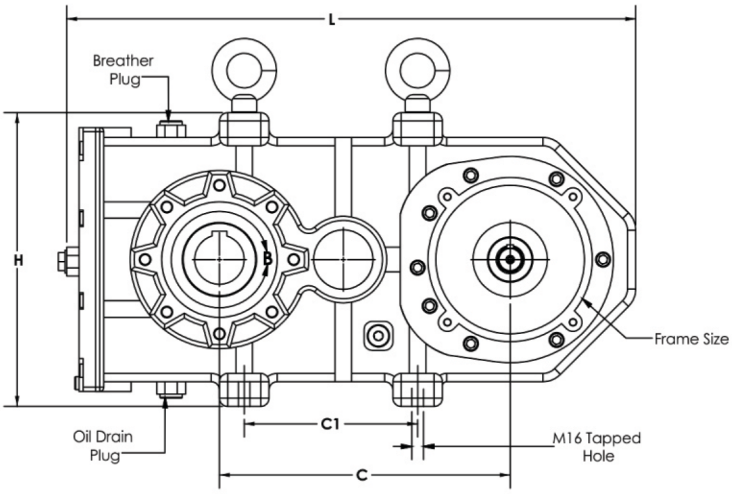
Note :

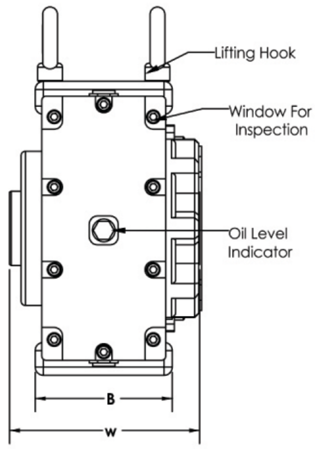
J.S.®

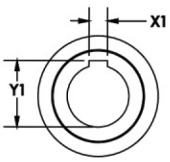
HT-Series Gearbox

Extra long center distance for hoisting application

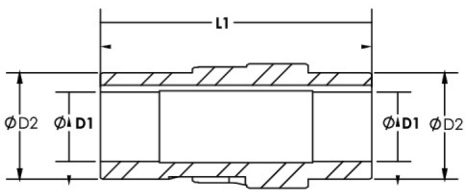








OUTPUT SHAFT



Available Ratio : 31/45/51/56/63/73/78/90/130 THREE STAGE GEAR BOX

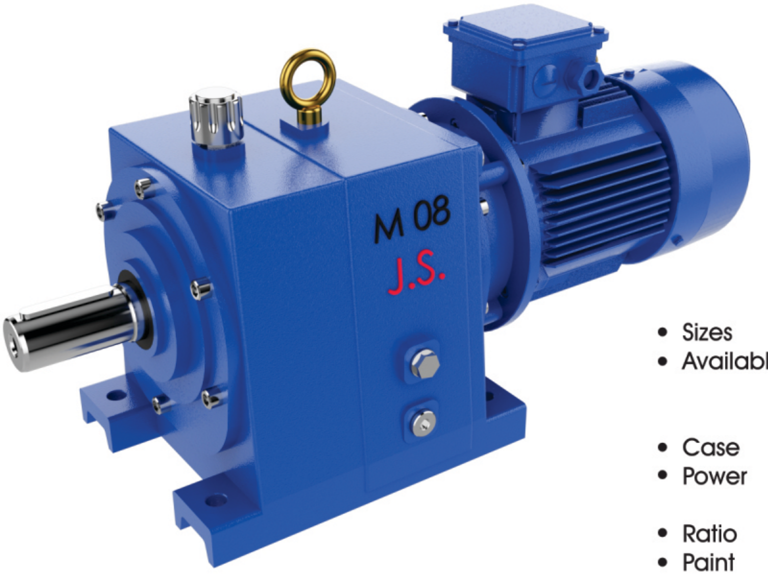
Type	Input Shaft		Output Shaft		Dimensions (mm)							Average Weight*	Oil Qty*
Model	ØD1	Ø02	X1	Y1	C	L	H	W	C1	B	L1	Kg	Ltr
HT-08	Ø60	Ø90	18	64.4	352	690	356	230	210	166	230	135	10
HT-09	Ø70	Ø100	20	78.9	450	865	500	290	300	240	290	180	15

- Harden & Profile Ground
- Shaft centering according to DIN 332, shape DS.
- Key & Keyway According to DIN 6885

Note : • All Dimensions are in mm.

***Condition Apply**

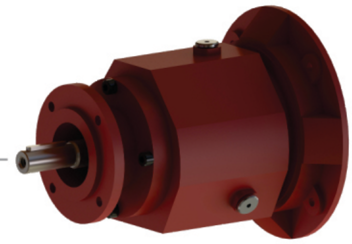
Inline Helical Geared Motor

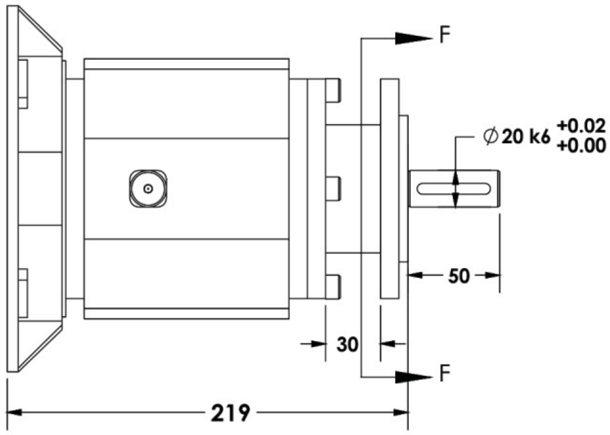


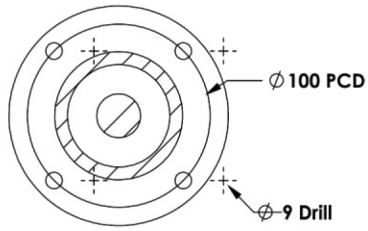
- Sizes : 03, 04, 06, 07, 08, 09, 10, 12, 13, 14
- Available version : input hollow to direct motor fitting, Input solid shaft, Foot mounted & Vertical mounting option
- Case : Cast Iron
- Power : up to 40 KW Gearing with two & three reduction stages
- Ratio : 5:1 To 100:1
- Paint : Standard blue colour.

CT-Gearbox

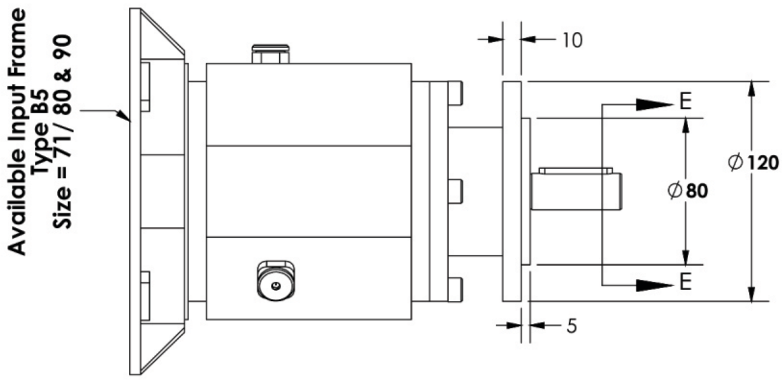
For 1,2,3 & 5 Ton Hoist

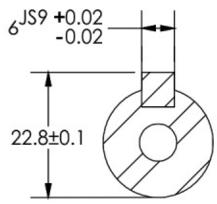






SECTION F-F





SECTION E-E
OUTPUT SHAFT

M-03 Model-Ratio 12 :1

J.S. Gear®

(An ISO 9001 : 2015 Certified Company)

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