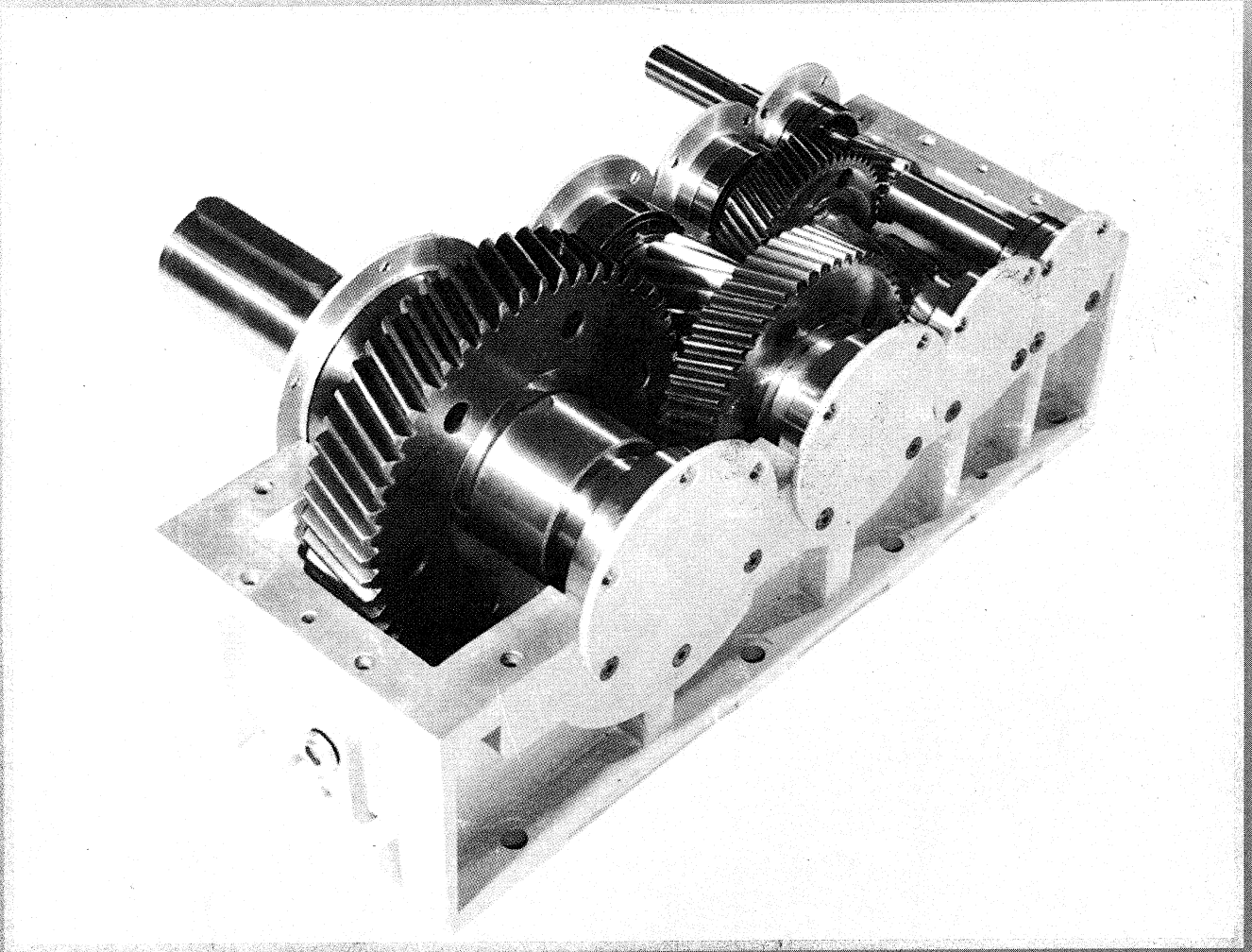
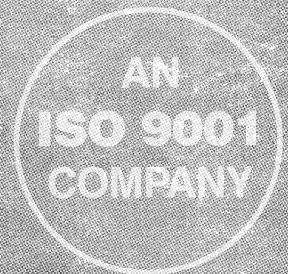


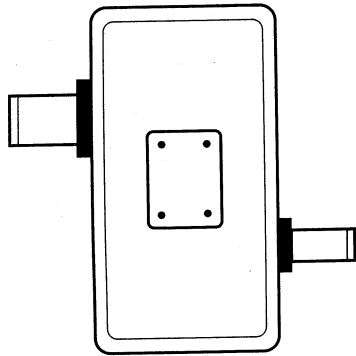
HELICAL REDUCTION GEAR BOXES



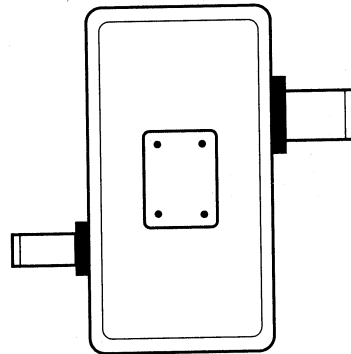
REVA



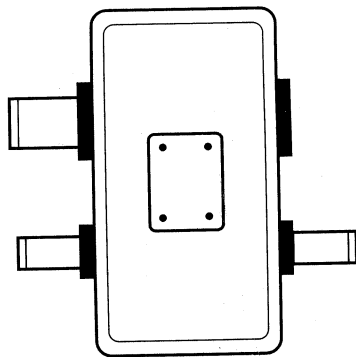
CONSTRUCTIONAL DETAILS



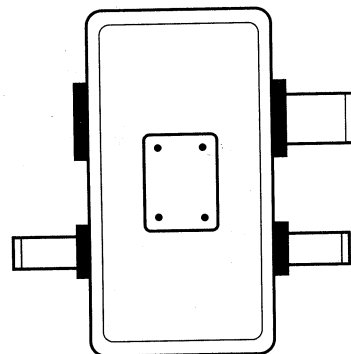
"Left-Hand" design



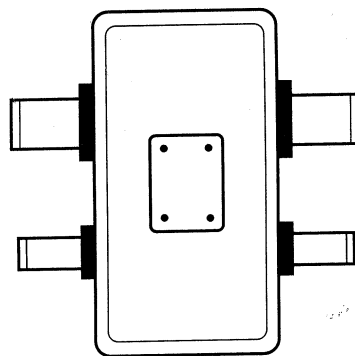
"Right-Hand" design



Double-Input "Left-Hand" design



Double-Input "Right-Hand" design



Double-Input/Double-Output
"Left-Hand"
"Right-Hand" design

FEATURES FOR DESIGN EXCELLENCE

Modular Concept

Center distances, ratios, dimensions corresponding to R10, R20 & R40 series.

Easy Servicing

Weight/power optimised due to use of case hardened steels of high strength.

Bearings designed for life time fitted on integral shaft pinions.

Hardened and profile ground helical gears running noiseless in vibration free steel fabricated/graded cast iron gear box duly stress relieved and machined on precision machines.

Computer aided design based on Buckingham method resulting in compact and robust gear boxes with factor of safety ≥ 1.5 both in wear and strength for gears and pinions.

Integral pinion shafts supported between bearings to make these resist torsional and bending stresses, taking advantage of recent advances in the gear technology.

High Efficiencies

99% for single reduction, 98% for double reduction and 97% for triple reduction and 96% for quadruple reduction helical gear boxes.

Added Features

Gear cases, and covers made out of graded grey cast iron of grade to FG200 to IS:210, supporting case hardened and profile ground alloy steel integral pinion shafts and gears.

Housing can be made from fabricated steels, special seals provided for outdoor or dusty locations, provisions for cooling by fan considered wherever application requires.

Gear profiles are corrected on dynamic computer aided design to impart equal wear and bending strength properties to pinions and gear both, material for which is SAE 8620, 20MnCr5, EN-353 or 15Ni2Cr1Mo 15, etc.

General Technical Information

Recommended series of twisting for low speed (output) shaft of reducing gears made is standard series with geometrical progression in the range of 50 - 50000 Kgfm from centre distances of 70 to 1000.

Reduction ratios also follow R-20 series from 1.6 to 6.3 in single stage; 6.3 - 22.4 in two stages; 22.4 - 112 in three stages and 112 - 625 in four stages. Intermediate ratios Gear Boxes on request.

Shafts upto 80 mm from 40 Ni2Cr1M28, hardened and ground; 80 mm to 125 mm from medium carbon chromium steel and from 125 - 200 mm from nickel chromium steel.

Quality Assurance

A well defined quality assurance plan in respect of materials and geometry is strictly adhered to with in-house facilities for chemical composition, physical examination, non-destruction testing including, ultrasonic testing to ensure accuracy and reliability of Gear Boxes.

OPERATING FACTORS

Table 1		Load parameters ●		
Driven machines		Driven machines		
Excavators and stackers	S	Impeller blowers	G	- wet S
Bucket chain excavators	S	Turbo blowers	G	- suction S
Travelling gear	S	Centrifugal blowers	G	Suction rollers S
- caterpillar track	S	Generators		Drying cylinders S
- rail	M	Generators under uniform load	G	Pumps
Bucket-wheel stackers	M	Welding generators	M	Proportioning pumps M
Bucket wheels	M	Rubber and plastics		Piston pumps
- cleaning	S	Extruders	S	- U < 1:100 S
- coal	S	- rubber	S	- U > 1:100 - 1:200 M
- lime	S	- plastics	M	Centrifugal pumps
Cutter heads	S	Calenders	M	- light liquids G
Slewing machines	M	Kneading machines, rubber	S	- viscous liquids M
Suction pumps	M	Mixers	M	Compression pumps S
Cable drums	M	Mills, rubber	M	Plunger pumps S
Winches	M	Rolling mills, rubber	S	Sand pumps M
Mining, rock, earth		Wood-working machinery		Machines for the textile Industry
Concrete mixers	M	Decorticating drums	S	Bobbin winding machines M
Crushers	S	Planning machine	M	Printing machines M
Briquetting presses	S	Saw frames	M	Dyeing machines M
Rotary kilns	S	Iron and steel Industry		Tan-liquor vessels M
Pneumatic sifters	M	Foundry crane (hoisting gear)	S	Calenders M
Clay mixers	M	Converters	S	Willowing machines M
Chemical Industry		Slag cars	G	Drying machines M
Mixers	M	Sintering bolts	M	Looms M
Agitators	M	Crushers	S	Compressors
- pure liquids	G	Torpedo mixers	S	Rotary piston compressors
- liquids and solids	M	Car tipper	S	- U < 1 : 100 S
- liquids with various densities	M	Cranes		- U > 1 : 100 - 1 : 200 M
Rotary drying kiln	M	Luffing gear	G	Centrifugal compressors M
Centrifuges	M	Travelling gear	M	Turbo compressors M
- light	G	Hoisting gear	M	Rolling mills
- heavy	M	Slewing gear	M	Plate tilters M
Petroleum Industry		Winches	G	Bloom pushers S
Drilling pumps	S	Metal working		Bloom conveying plant S
Rotary kilns	M	Folding presses	S	Wire pulls M
Filter presses	M	Plate bending machines	M	Revolving turrets M
Pipeline pumps	M	Plate straightening presses	S	(contin. casting) S
Scavenging pumps	M	Eccentric presses	S	De-scaling crushers S
Conveying plants		Hammers	S	Reels S
Uniform load	G	Planing machines	S	- strip M
Bucket conveyors	G	Crank presses	S	- wire M
Boasting furnace conveyors	G	Shearing machines	M	Walking beam conveyors M
Assembly line belts	G	Forging presses	S	Chain transporter M
Band conveyors	G	Punching machines	S	Cooling troughs M
Overhead conveyors	G	Mills		Traverse tractors M
Chain conveyors	G	Hammer mills	S	Pipe welding machines S
Apron conveyors	G	Edge mills	S	Pipe drawing machines S
Worm conveyors	G	Balls mills	S	Roller straightening machines M
Medium and heavy load	S	Pendulum mills	S	Roller gear beds M
Shaft-sinking machines	S	Impact mills	S	- light M
Bucket conveyors	M	Tube mills	S	- heavy S
Bucket belts	M	Beating mills	S	Shears S
Assembly line conveyors	M	Rod mills	S	- plate S
Conveyors winders	M	Roller mills	S	- wire M
Conveyors	S	Foodstuffs machines		- billet S
Belt conveyors	M	Filling machines	G	- cropping S
Chain conveyors	M	Kneading machines	M	- plate trimming M
Goods lifts	M	Packing machines	G	Winding turret M
Passenger lifts	G	Weighing machines	M	Winding tractor M
Apron conveyors	M	Sugarcane crushers	M	Continuous casting plants S
Shaker conveyors	M	Sugarcane mills	S	Shifting device S
Worm conveyors	M	Sugarcane cutters	M	Roller adjusting device M
Inclined lifts	S	Sugar-beet cutters	M	Water recycling machine
Blowers, fans, ventilators		Paper machines		Thickeners M
Axial blowers	M	Couchers	S	Gyroscopic ventilators M
Rotary piston blowers	M	Glazing cylinders	S	Mixers M
Large ventilators (mining)	M	Calenders	M	Water screws M
Cooling tower fans	M	Mixers	M	Vacuum filter presses M
Radial blowers	M	Presses	M	Plate/Screen drives G
Induced drafts fans	M	- glue	S	

Table 2		Service factor			f ₁
Prime mover	Hours of Operation day	Prime mover Load parameter			
		Uniform load G	Medium load M	Heavy load S	
Electric motor turbine	upto 3	0.80	1.00	1.50	
	over 3 to 10	1.00	1.25	1.75	
	over 10 to 24	1.25	1.50	2.00	
Piston engines 4-6 cylinder U > 1:100-1:200	upto 3	1.00	1.25	1.75	
	over 3 to 10	1.25	1.50	2.00	
	over 10 to 24	1.50	1.75	2.25	
Piston engines 1-3 cylinder U < 1:100	upto 3	1.25	1.50	2.00	
	over 3 to 10	1.50	1.75	2.25	
	over 10 to 24	1.75	2.00	2.50	

1) Cooling water temperature max. 20° C

● Load parameters

G = Uniform load

M = Medium load

S = Heavy load

.. = Detailed calculation on request

... = Only calculated for 24-hour period of operation

... = Load parameter on request

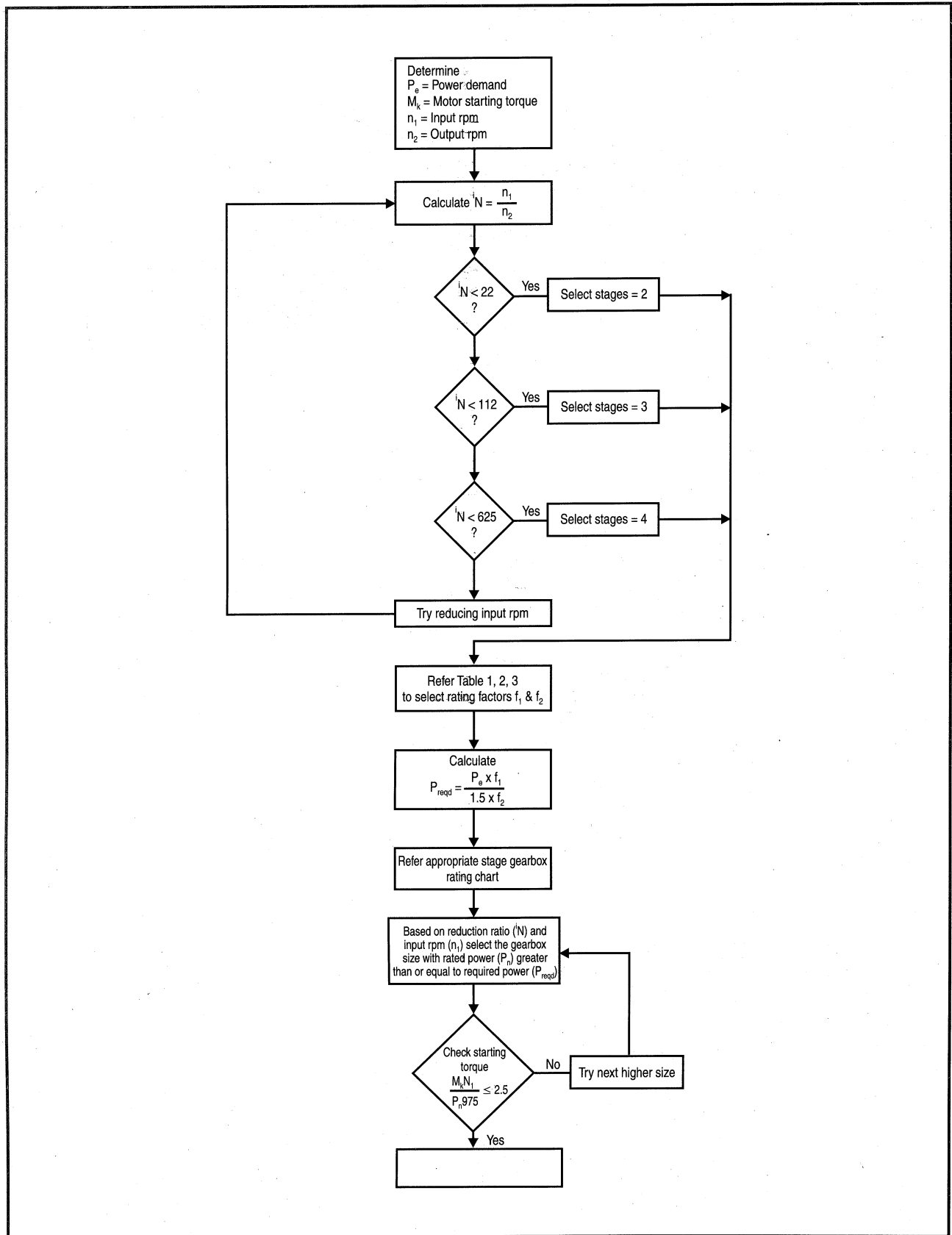
U = Cyclic variation

The load parameters quoted are parameters gained from experience. Calculations for driven machines not mentioned above or deviations from the norm obtainable on request.

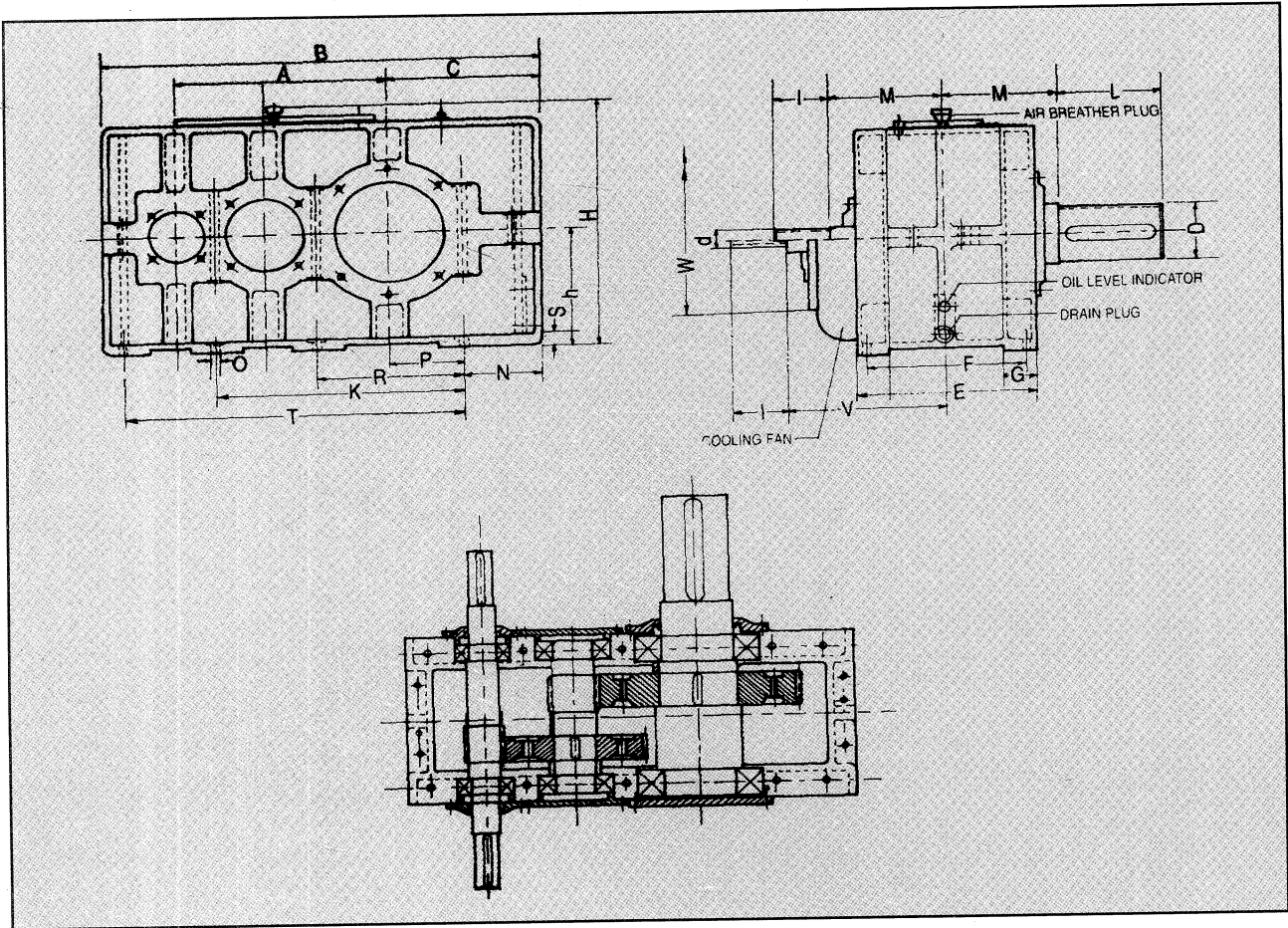
Table 3		Factor for ambient temperatures					f ₂
Type of cooling	Ambient temperature	Duration of operation per hour					
		100%	80%	60%	40%	20%	
For gear boxes without additional cooling	10°C	1.12	1.34	1.57	1.79	2.05	
	20°C	1.0	1.2	1.4	1.6	1.8	
	30°C	0.88	1.06	1.23	1.41	1.58	
	40°C	0.75	0.9	1.05	1.2	1.35	
	50°C	0.63	0.76	0.88	1.01	1.13	
For gear boxes with fans	10°C	1.45	1.38	1.61	1.84	2.07	
	20°C	1.0	1.2	1.4	1.6	1.8	
	30°C	0.9	1.08	1.26	1.44	1.62	
	40°C	0.8	0.96	1.12	1.29	1.44	
For gear boxes with cooling coils	10°C	1.1	1.32	1.54	1.76	1.98	
	20°C	1.0	1.2	1.4	1.6	1.8	
	30°C	0.9	1.08	1.26	1.44	1.62	
	40°C	0.85	1.02	1.19	1.36	1.53	
	50°C	0.8	0.96	1.12	1.29	1.44	
For gear boxes with fans & cooling coils	10°C	1.12	1.34	1.57	1.79	2.05	
	20°C	1.0	1.2	1.4	1.6	1.8	
	30°C	0.92	1.1	1.29	1.47	1.66	
	40°C	0.83	1.0	1.16	1.33	1.5	
	50°C	0.78	0.94	1.09	1.25	1.4	

1) Cooling water temperature max. 20° C

HOW TO SELECT YOUR GEAR BOX



REVA DURABLE MODULAR GEAR BOXES HELICAL GEAR — TWO STAGE



Rating kNm	Size of gear unit	Input shaft																		Output shaft										Cooling fan		Average weight kg	Oil qty. (litres.)
		N < 12.5				N > 12.5 upto 20				N > 20				D	L	A	B	C	E	F	G	h	H	K	M	N	O	P	R	S	T		
2.0	110	25	60	20	50	-	-	50	110	190	425	140	160	125	50	110	265	225	110	20	14	80	140	16	315	210	180	58	2				
2.5	125	30	80	25	60	-	-	55	110	215	470	155	180	140	55	125	295	250	125	22.5	14	90	160	16	355	220	230	78	3				
3.5	140	35	80	30	80	20	50	60	140	240	530	175	200	160	60	140	325	280	140	25	16	100	180	20	400	230	230	110	4				
5	160	45	110	35	80	25	60	70	140	270	590	195	225	180	65	160	370	315	160	25	16	110	200	20	450	240	300	145	5				
7	180	50	110	40	110	30	80	80	170	305	672	225	250	200	70	180	410	355	180	30	18	125	225	25	500	250	300	200	8				
10	200	55	110	45	110	35	80	90	170	340	715	235	280	225	75	200	450	400	200	35	18	140	250	30	560	275	380	270	11				
14	225	60	140	50	110	40	110	100	210	385	805	265	315	250	80	225	500	450	225	40	23	160	280	30	630	285	380	360	14				
20	250	70	140	55	110	45	110	110	210	430	885	290	355	280	90	250	550	500	250	45	23	180	315	35	710	310	380	490	21				
28	280	75	140	60	140	50	110	120	210	480	1000	330	400	315	100	280	620	560	280	50	27	200	355	35	800	340	530	675	29				
40	315	85	170	70	140	55	110	140	250	540	1100	365	450	355	110	315	680	630	315	50	27	225	400	40	900	365	530	910	42				
56	355	95	170	80	170	60	140	160	300	605	1240	410	500	400	120	355	765	710	355	50	33	250	450	40	1000	400	650	1230	60				
80	400	105	210	90	170	70	140	170	300	680	1380	455	580	450	130	400	855	800	400	75	33	280	500	45	1100	425	650	1675	85				
112	450	115	210	95	170	80	170	190	350	765	1500	515	630	500	140	450	960	900	450	75	39	315	560	50	1250	455	650	2260	115				
160	500	125	250	110	210	90	170	220	350	855	1610	565	650	580	150	500	1060	1000	500	100	39	355	630	55	1400	555	650	3500	165				
225	560	140	250	120	210	100	210	250	410	960	1920	630	750	630	160	560	1180	1100	560	100	45	400	710	60	1600	595	650	4800	235				
315	630	160	300	130	250	110	210	300	470	1080	2245	700	800	650	170	630	1325	1250	630	100	45	450	800	65	1800	635	650	6500	330				
450	710	180	300	140	250	120	210	340	550	1210	2410	785	900	750	190	650	1485	1400	650	125	45	500	900	70	2000	670	650	9100	440				
630	800	190	350	160	300	130	250	400	650	1360	2710	880	1000	800	200	750	1665	1600	750	125	45	560	1000	75	2250	710	650	12500	600				

Larger gear box sizes of this design on enquiry

Modification of dimensions reserved

Shaft ends with keys according to IS : 2048 (equal depth in hubs & shafts)

Shaft centering according to DIN 332, shape DS (with thread)

Tolerance field for shaft ends ISO fit up to 50 mm \varnothing k6; over 50 mm \varnothing m6

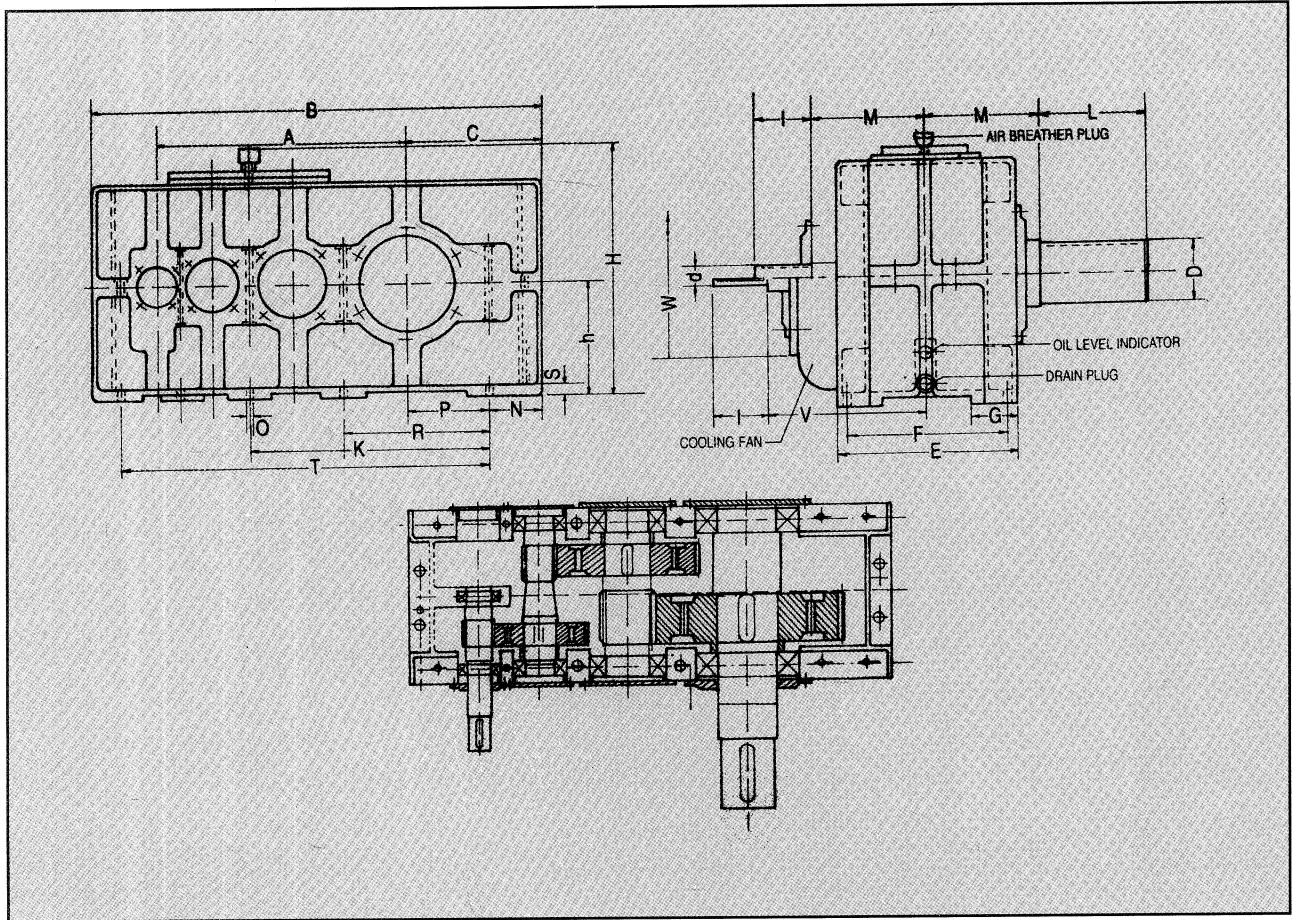
POWER RATINGS — TWO STAGE

Nominal transmission ratio in	Nominal speeds rpm n_1 n_2		Gear box size													
			110	125	140	160	180	200	225	250	280	315	355	400	450	
			Nominal gear box rating P _N (kW)													
6.3	1500	240	36	50	70	105	145	205	285	380	530	790	1060	1450	2020	
	1000	160	24	34	47	71	100	145	215	280	400	560	800	1100	1520	
	750	120	18	25	36	54	74	110	170	230	310	425	600	900	1200	
7.1	1500	210	34	48	66	100	140	195	280	360	490	730	990	1350	1900	
	1000	140	24	32	44	66	93	135	200	255	365	490	720	1000	1400	
	750	105	17	24	33	50	71	100	150	210	275	370	550	790	1050	
8	1500	188	32	44	62	91	125	185	255	350	450	660	920	1300	1750	
	1000	125	22	30	41	60	85	125	180	245	335	450	680	950	1270	
	750	94	16	22	31	46	65	95	135	190	250	340	520	710	950	
9	1500	167	29	40	56	83	130	175	225	320	420	580	820	1100	1500	
	1000	111	19	27	38	56	86	125	160	215	300	430	620	800	1120	
	750	83	15	20	28	43	67	90	125	170	235	340	500	650	900	
10	1500	150	25	35	50	74	100	150	210	280	390	540	760	1050	1420	
	1000	100	17	24	33	49	68	95	145	195	265	360	540	750	1000	
	750	75	13	18	25	37	50	80	110	155	210	280	420	600	800	
11.2	1500	134	22	32	45	66	95	140	180	250	330	480	680	900	1250	
	1000	89	15	21	30	45	65	95	130	175	245	360	500	680	940	
	750	67	11	16	22	35	49	72	95	130	185	270	400	500	720	
12.5	1500	120	21	29	40	55	80	110	170	225	320	430	640	850	1200	
	1000	80	14	19	27	37	52	77	115	165	220	300	450	600	850	
	750	60	10	15	20	28	42	58	88	125	165	225	330	450	640	
14	1500	107	18	26	35	48	68	100	150	205	280	380	550	710	950	
	1000	71	12	17	24	32	46	70	105	145	195	265	400	520	710	
	750	53	9	13	18	24	35	52	79	110	145	200	290	420	560	
16	1500	94	15	22	30	43	60	90	135	185	250	340	490	650	860	
	1000	62	10	15	20	29	40	62	92	130	175	235	350	490	650	
	750	47	8	11	15	22	32	47	69	97	130	180	270	370	500	
18	1500	83	13	19	27	37	55	80	120	160	220	310	430	550	740	
	1000	56	8.5	14	19	25	39	52	80	98	145	230	320	410	540	
	750	41	6.5	10	13	19	30	40	62	80	110	160	250	340	440	
20	1500	75		17	24	35	49	70	110	140	210	280	410	520	700	
	1000	50		12	17	23	33	49	74	88	140	190	280	380	500	
	750	38		9	12	18	25	38	58	75	110	145	230	310	400	
22.4	1500	67			21	30	41	65	99	130	185	250	390	490	660	
	1000	45			14	20	27	44	66	80	125	170	260	350	460	
	750	33			11	16	21	34	52	70	98	130	200	280	370	

Interia, GD² (kgm²) relative to the input shaft - two stage

Size of gear unit	Transmission ratio													
	6.3	7.1	8	9	10	11.2	12.5	14	16	18	20	22.4	25	
110	0.0090	0.0077	0.0066	0.0052	0.0049	0.0039	0.0038	0.0030	0.0026	0.0020	0.0019	0.0017	0.0015	
125	0.0169	0.0145	0.0125	0.0100	0.0095	0.0076	0.0073	0.0057	0.0049	0.0037	0.0036	0.0030	0.0025	
140	0.0299	0.0253	0.0220	0.0174	0.0166	0.0132	0.0127	0.0103	0.0089	0.0068	0.0066	0.0051	0.0043	
160	0.0549	0.0466	0.0407	0.0326	0.0312	0.0250	0.0242	0.0174	0.0150	0.0113	0.0109	0.0085	0.0071	
180	0.0994	0.0845	0.0742	0.0591	0.0565	0.0450	0.0434	0.0321	0.0277	0.0210	0.0203	0.0154	0.0132	
200	0.1633	0.1415	0.1228	0.0983	0.0939	0.0748	0.0721	0.0539	0.0473	0.0355	0.0344	0.0296	0.0244	
225	0.3024	0.2530	0.2181	0.1749	0.1667	0.1344	0.1292	0.0974	0.0353	0.0645	0.0624	0.0496	0.0412	
250	0.5403	0.4711	0.6641	0.3185	0.3042	0.2470	0.2380	0.1747	0.1517	0.1174	0.1138	0.0882	0.0736	
280	0.9018	0.7849	0.6641	0.5260	0.5013	0.3937	0.3781	0.2941	0.2527	0.1944	0.1882	0.1461	0.1224	
315	1.6963	1.4344	1.2139	0.9651	0.9213	0.7223	0.6947	0.5394	0.4621	0.3575	0.3466	0.2753	0.2284	
355	2.9148	2.4747	2.1188	1.5496	1.5775	1.2259	1.1805	0.9374	0.8020	0.6291	0.6111	0.4685	0.3957	
400	5.1242	4.2802	3.6704	2.9296	2.7935	2.1581	2.0724	1.6275	1.3936	1.0846	1.0506	0.8179	0.6895	
450	9.0475	7.5773	6.4916	5.0463	4.7941	3.7423	3.5835	2.8159	2.3971	1.8429	1.7799	1.4377	1.1943	

REVA DURABLE MODULAR GEAR BOXES HELICAL GEAR — THREE STAGE



Rating kNm	Size of gear unit	Input shaft		Output shaft		Dimensions (mm)																Cooling fan		Average weight kg	Oil qty. (litres.)				
		N<20>45	N<45>80	N<80>125	D	L	A	B	C	E	F	G	h	H	K	M	N	O	P	R	S	T	V			W			
3.5	140	22	20		60	140	310	570	165	200	170	45	140	330	300	140	65	12	100	180	16	470			100	5			
5.0	160	25	60	20	70	140	350	645	190	225	190	35	160	370	340	160	70	12	120	215	16	540	240	300	160	7			
7.0	180	30	80	25	80	170	395	680	200	250	220	50	180	410	385	180	75	20	125	225	20	570	250	300	215	10			
10	200	35	80	30	80	20	50	90	170	440	825	250	280	240	75	200	450	425	200	110	20	140	250	20	650	275	380	295	14
14.0	225	45	110	35	80	25	60	100	210	495	900	260	315	270	60	225	500	485	225	80	22	180	315	20	750	285	380	405	20
20	250	50	110	40	110	30	80	110	210	555	1005	300	300	300	90	250	550	490	250	120	25	180	295	25	820	310	380	540	28
28	280	55	110	45	110	35	80	120	210	620	1145	330	405	340	70	280	600	610	280	100	26	230	395	25	965	340	530	720	40
40	315	60	140	50	110	40	110	140	250	700	1255	355	450	375	100	315	680	655	315	130	30	225	410	32	1045	365	530	970	56
56	355	70	140	55	110	45	110	160	300	785	1400	390	500	400	120	355	760	710	355	140	33	250	450	40	1100	400	650	1300	80
80	400	75	140	60	140	50	110	180	300	880	1565	440	560	450	130	400	850	785	400	120	33	280	500	40	1250	423	650	1770	110
112	450	85	170	70	140	55	110	200	350	990	1750	490	630	500	140	450	950	900	450	175	39	315	560	50	1400	455	650	2350	160

Larger gear box sizes of this design on enquiry

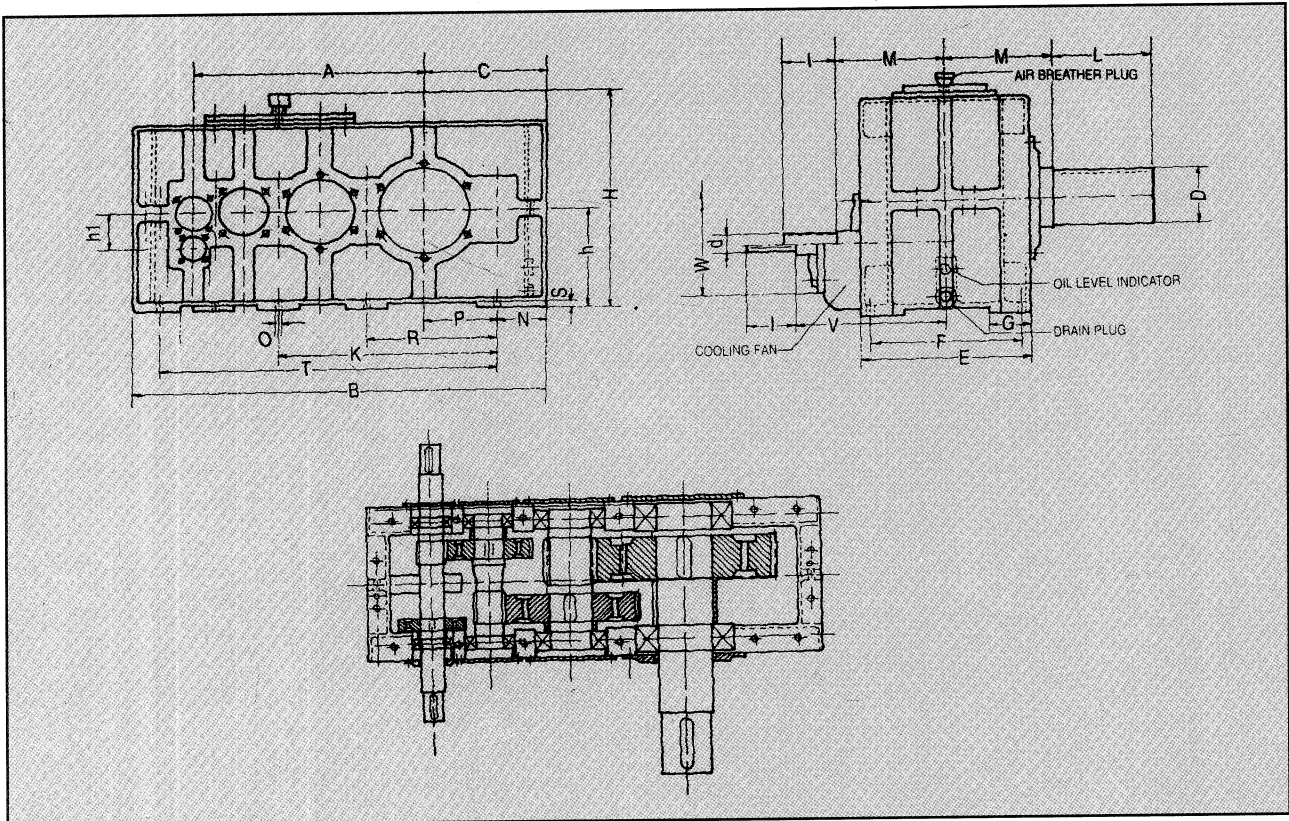
Modification of dimensions reserved

Shaft ends with keys according to IS : 2048 (equal depth in hubs & shafts)

Shaft centering according to DIN 332, shape DS (with thread)

Tolerance field for shaft ends ISO fit up to 50 mm \varnothing k6; over 50 mm \varnothing m6

REVA DURABLE MODULAR GEAR BOXES HELICAL GEAR — FOUR STAGE



Rating kNm	Size of gear unit	Input shaft				Output shaft				Dimensions (mm)																Cooling fan		Average weight kg	Oil qty. (litres.)
		N-500		N-500		D	L	A	B	C	E	F	G	h	h1	H	K	M	N	O	P	R	S	T	V	W			
		d	l	d	l																								
7.1	180	16	40	16	40	80	150	395	680	200	250	220	50	180	63	410	385	180	75	20	125	225	20	570	250	300	250	10	
10	200	18	40	16	40	90	170	440	825	250	280	240	75	200	70	450	425	200	110	20	140	250	20	650	275	380	310	14	
14	225	20	40	18	40	100	210	495	900	280	315	270	60	225	80	500	485	225	80	22	180	315	20	750	285	380	430	20	
20	250	22	50	20	50	110	210	555	1005	300	300	300	90	250	90	550	490	250	120	25	180	295	25	820	310	380	570	28	
28	280	25	60	20	50	140	210	620	1145	330	405	340	70	280	100	600	610	280	100	26	230	395	25	965	340	530	750	40	
40	315	30	80	25	60	140	250	700	1255	355	450	375	100	315	110	680	655	315	130	30	225	410	32	1045	365	530	1000	56	
56	355	40	110	30	80	160	300	785	1400	390	500	400	120	355	120	760	710	355	140	33	250	450	40	1100	400	650	1350	80	
80	400	45	110	35	80	170	300	880	1565	440	560	450	130	400	125	850	785	400	120	33	280	500	40	1250	423	650	1800	110	
112	450	50	110	40	110	190	350	990	1750	490	630	500	140	450	140	950	900	450	175	39	315	560	50	1400	455	650	2500	160	
160	500	55	110	45	110	220	350	1105	1980	550	650	550	150	500	160	1060	1000	500	100	39	355	630	60	1600			3850	220	
225	560	60	140	50	110	250	410	1240	2210	610	750	630	160	560	180	1180	1100	560	100	45	400	710	70	1800			5300	310	
315	630	70	140	55	110	280	470	1395	2500	695	800	650	170	630	200	1325	1250	630	125	45	450	800	80	2000			7200	450	
450	710	75	140	60	140	360	550	1565	2800	760	900	750	190	710	225	1485	1400	710	125	45	500	900	90	2250			10100	670	
630	800	80	170	70	140	400	650	1760	3160	840	1000	800	200	800	250	1665	1600	800	150	45	560	1000	100	2500			14100	900	

Larger gear box sizes of this design on enquiry

Modification of dimensions reserved

Shaft ends with keys according to IS : 2048 (equal depth in hubs & shafts)

Shaft centering according to DIN 332, shape DS (with thread)

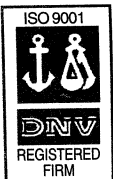
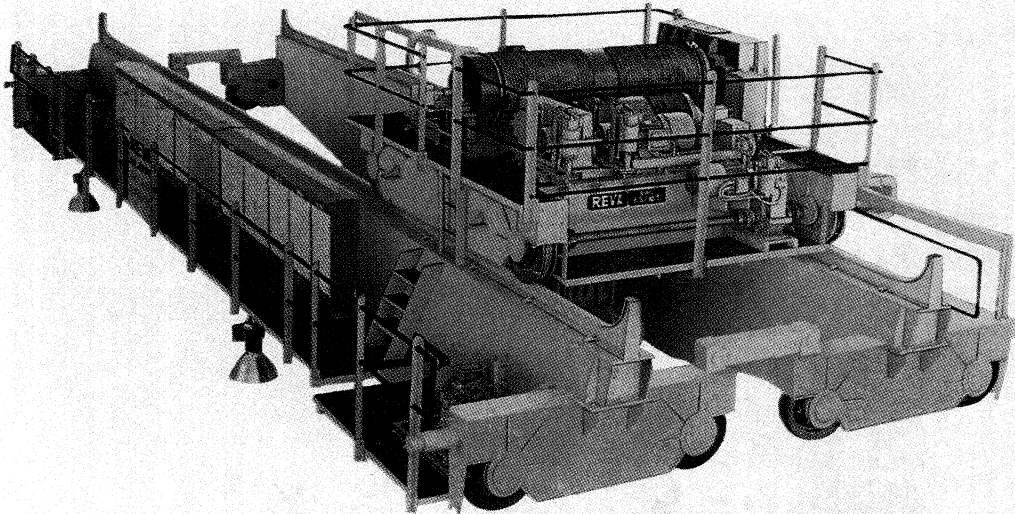
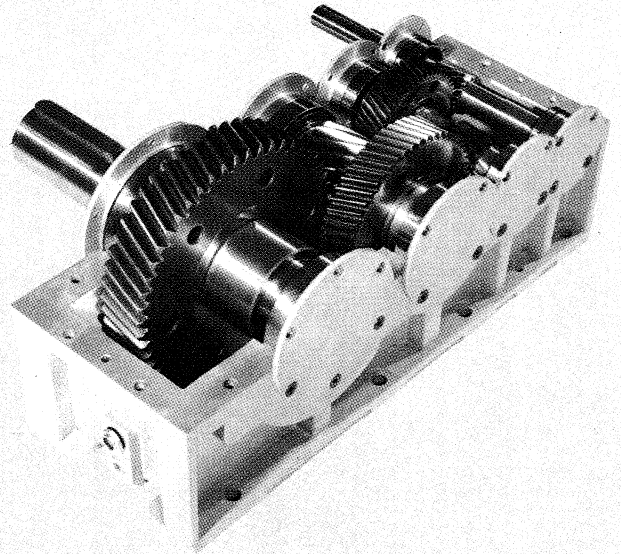
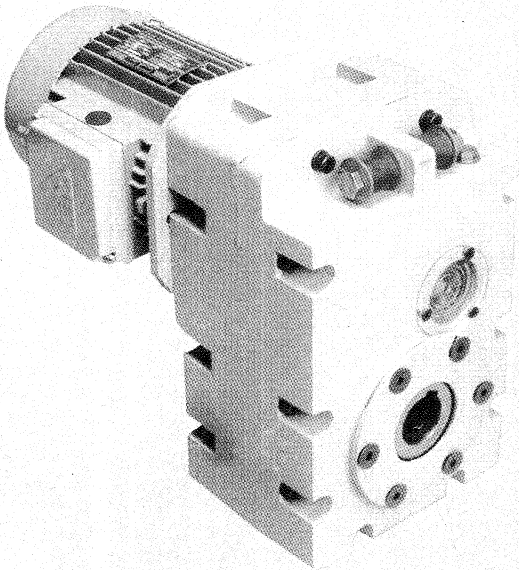
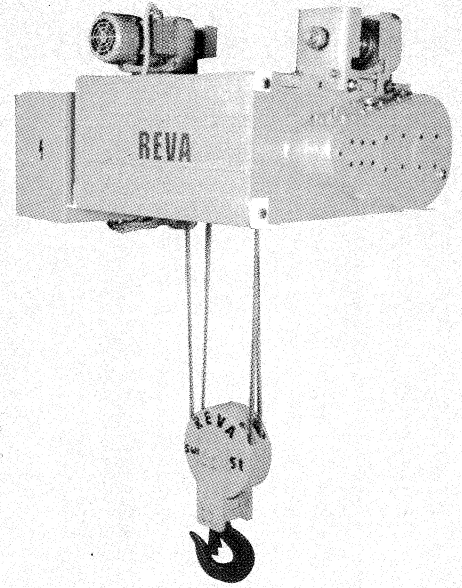
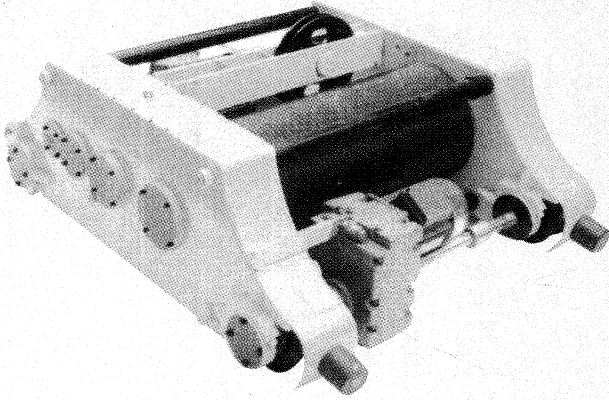
Tolerance field for shaft ends ISO fit up to 50 mm \varnothing k6; over 50 mm \varnothing m6

POWER RATINGS — FOUR STAGE

Nominal transmission ratio in	Nominal speeds rpm		Gear box size								
	n ₁	n ₂	180	200	225	250	280	315	355	400	450
			Nominal gear box rating P _N (kW)								
112	1500	13.4	10	15	20	29	40	59	91	110	150
	1000	8.9	7	10	14	20	27	39	59	70	97
	750	6.7	5	7.5	10	15	20	29	43	53	75
125	1500	12	9	13	18	26	36	52	81	97	130
	1000	8	6	9	12	17	23	34	53	64	87
	750	6	4.5	6.5	6	13	18	26	40	48	65
140	1500	10.7	8	12	16	23	32	46	72	87	115
	1000	7.15	6	8	11	16	21	31	47	58	78
	750	5.4	4	6	8	12	16	23	36	44	58
160	1500	9.37	7	10	14	20	28	41	62	76	100
	1000	6.25	5	7	9.5	14	18	27	42	51	68
	750	4.68	3.5	5	7.5	10	14	21	32	39	50
180	1500	8.34	6.5	9	13	19	25	37	57	69	90
	1000	5.56	4.5	6	8.5	12	17	25	38	46	60
	750	4.17	3.0	4.5	6.5	9.5	13	18	29	35	45
200	1500	7.5	6	8	12	15	22	33	51	62	80
	1000	5	4	5.5	8	10	14	22	34	41	53
	750	3.75	3	4	6	8	11	17	26	30	40
224	1500	6.7	5	7.5	10	14	19	29	45	55	70
	1000	4.47	3.5	5.0	7	9	13	20	30	37	45
	750	3.35	2.5	3.5	5	7	10	15	23	28	35
250	1500	6	4.5	6.5	9.5	12	17	26	40	48	63
	1000	4	3.0	4.5	6	8.5	12	17	27	32	40
	750	3	2.0	3.0	4.5	6.5	9	13	20	24	32
280	1500	5.35	4.0	6.0	8	11	15	22	33	51	56
	1000	3.57	3.0	4.0	5.5	7.5	10	14	22	28	36
	750	2.67	2.0	3.0	4	5.5	8	11	17	22	27
315	1500	4.76	3.5	5.0	7.5	9.5	13	21	32	39	50
	1000	3.17	2.5	3.5	5	6.5	9	14	21	25	33
	750	2.38	1.5	2.5	3.5	5	7	10	16	20	24
355	1500	4.23	3.0	4.5	6.5	8.5	12	18	29	35	45
	1000	2.82	2.0	3.0	4.5	6	8.5	12	19	23	30
	750	2.12	1.5	2.0	3	4.5	6.5	9.5	14	17	20
400	1500	3.75	3.0	4.0	6	8	11	16	26	31	40
	1000	2.5	2.0	3.0	4	5	7.5	11	17	20	26
	750	1.88	1.5	2.0	3	4	5.5	8	13	15	18
450	1500	3.33	2.5	3.5	5	7.5	10	13	21	29	35
	1000	2.22	1.5	2.5	3.5	5	6.5	9	14	19	23
	750	1.66	1.0	1.5	2.5	3.5	5	6.5	11	14	16

Interia, GD² (kgm²) relative to the input shaft - four stage

Size of gear unit	Transmission ratio																
	112	125	140	160	180	200	224	250	280	315	355	400	450	500	560	630	710
225	0.0058	0.0054	0.0045	0.0044	0.0035	0.0042	0.0034	0.0043	0.0037	0.0030	0.0025	0.0021	0.0021	0.0019	0.0015	0.0013	0.0013
250	0.0108	0.0099	0.0084	0.0082	0.0065	0.0079	0.0063	0.0080	0.0068	0.0054	0.0046	0.0039	0.0038	0.0034	0.0029	0.0024	0.0023
280	0.0185	0.0170	0.0144	0.0141	0.0114	0.0136	0.0110	0.0136	0.0118	0.0096	0.0081	0.0071	0.0068	0.0058	0.0046	0.0038	0.0039
315	0.0341	0.0312	0.0284	0.0277	0.0203	0.0269	0.0195	0.0247	0.0232	0.0167	0.0143	0.0120	0.0114	0.0096	0.0080	0.0064	0.0066
355	0.0619	0.0571	0.0484	0.0473	0.0359	0.0456	0.0346	0.0456	0.0394	0.0297	0.0254	0.0218	0.0217	0.0187	0.0149	0.0126	0.0122
400	0.1034	0.0954	0.0818	0.0798	0.0615	0.0767	0.0591	0.0755	0.0660	0.0507	0.0441	0.0369	0.0369	0.0317	0.0257	0.0216	0.0210
450	0.1897	0.1748	0.1503	0.1467	0.1135	0.1411	0.1091	0.1395	0.1225	0.0944	0.0815	0.0693	0.0692	0.0602	0.0485	0.0408	0.0396



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