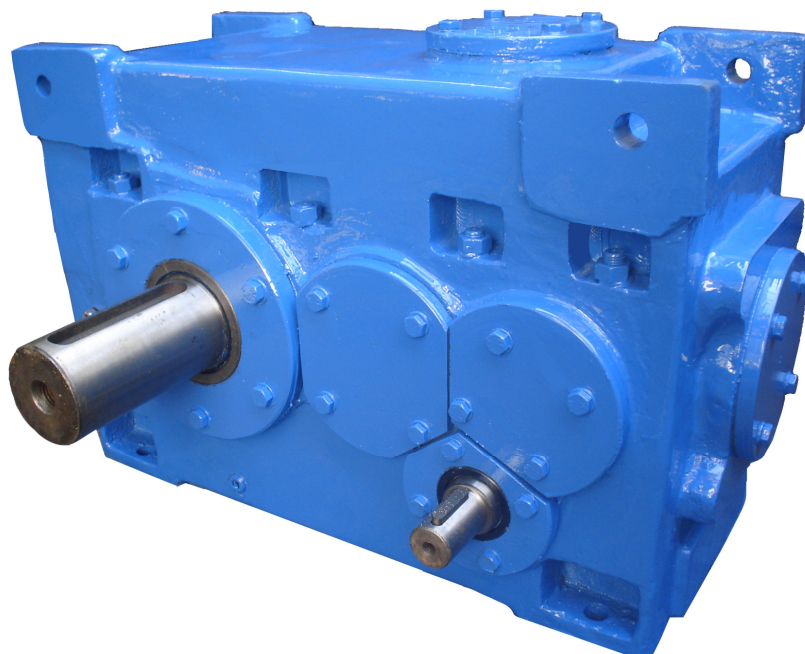
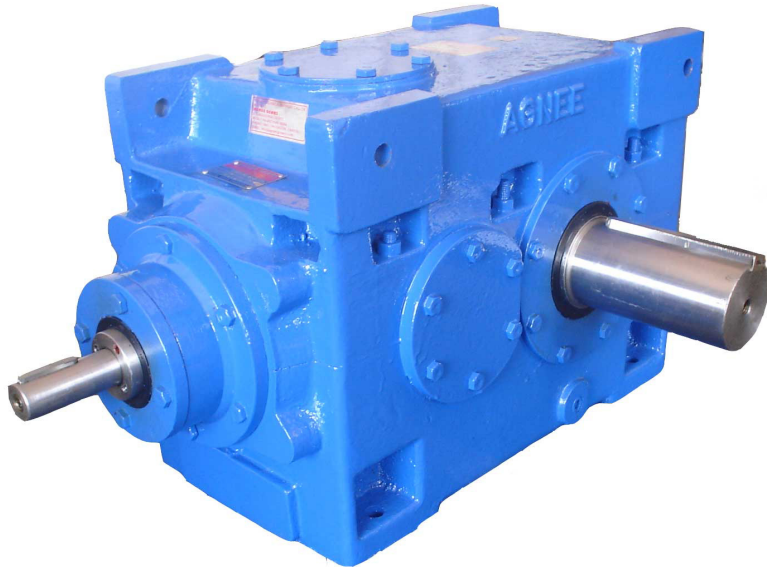




AGNEE Series H Helical and Bevel Helical Gear Boxes



SERIES H





AGNEE Series H **Helical and Bevel Helical Gear Boxes**



AGNEE manufactures primarily Industrial gears , Mechanical Engineering Power Transmissions Equipments like Planetary gear boxes, Helical and Bevel Helical gear Boxes, Shaft Mounted helical gear boxes, Worm gear boxes, Geared motors, racks & pinions gears, Worm Shaft and worm wheels, Spur , helical and bevel gears etc.

Our manufacturing unit is situated at Kota, 480 Kilometers southwest of New Delhi. We have qualified well trained manpower and in house facilities for complete manufacturing to provide reliable and efficient products and services.

We are focused to provide a complete gear service : from design engineering and product development to complete manufacturing and sales of Gears, gear boxes and related power transmissions mechanisms.

Significant technical skill and machine capability is the heart of AGNEE, providing industry with a qualified and reputable source for specification, design, manufacturing of variety of individual gear items and complete gear assemblies.

We are presently catering to almost every industry like Stone Processing, Mining & Quarrying including Coal Handling Plants, Energy including Nuclear, Thermal , Hydro electric Power plants, Agriculture, Automotive, Cement, Chemical, Construction, Defence, Food & Beverage, Forestry, Metals & Machine Tools, Pulp & Paper, Rubber & Plastics, Textiles, Transportation, Water, Dredging & Sugar Mills and host of other industries.

We received the ISO 9001: 2000 quality certificate from UKAS- URS in May 2003 and have received ISO 9001: 2008 in 2009.

Honest, fair, Reliable- these three words we keep in mind while dealing with any person or organization. Please feel free to contact us for your requirement.

We are currently exporting to the countries mentioned below:





AGNEE Series H Helical and Bevel Helical Gear Boxes



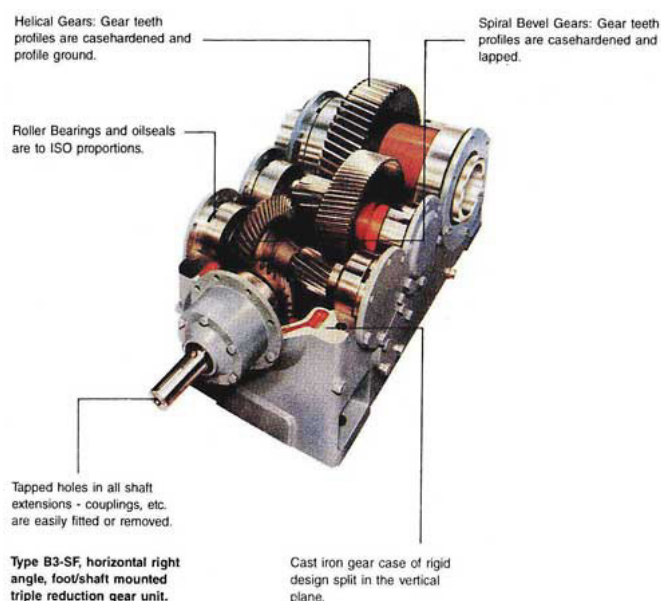
AGNEE H series helical parallel shaft and bevel helical right angle drive industrial gearboxes have been introduced to meet the requirements of today's demanding applications in the medium and heavy-duty sector of the power transmission market.

AGNEE gear units are fully metric and are suitable for most applications horizontal drives and vertical drives.

Based on a modular design and construction, the high degree of interchangeability of parts and sub-assemblies among all variants effects considerable economies of production, whilst maintaining the highest standard of component and unit elements. A wide choice of ratio is available based on recommendations laid down in AGMA standards with additional half ratio steps.

Profile ground helical gears together with spiral bevel gears lapped in pairs, ensure high standards of accuracy, surface finish and quiet running characteristics. Helical gears are fitted in parallel shaft units whilst units with shaft at right angle incorporate spiral bevel and helical gears. High quality alloy case hardening material provide long life wear resistance and fatigue strength.

The high power to weight ratio of all units combines with volume to enable installation in the most difficult situations, Each of the two variants contains unique features suited to their own operating conditions. Horizontal units feature optional right or left and shaft arrangements from the same sub-assemblies and are available as foot mounted, shaft mounted or foot/shaft mounted types



As improvements in design are being made continually this specification is not to be regarded as binding in detail and drawings and capacities are subject to alteration without notice. Certified drawings will be sent on request.



AGNEE Series H Helical and Bevel Helical Gear Boxes



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AGNEE Series H

Helical and Bevel Helical Gear Boxes



1. General Information

AGNEE H series helical parallel shaft and bevel helical right angle drive industrial gearboxes have been introduced to meet the requirements of today's demanding applications in the medium and heavy-duty sector of the power transmission market.

1b. Applications:

1	Steel Plants.
1	Sugar Plants.
1	Cement Plants
1	Plastic Machinery
1	Solvent Extraction
1	Rubber Plants
1	Power plants
1	Mines and Minerals
1	Agitators
1	Large Ball Mills
1	Coal Pulverising Mills
1	Crushers
1	Dredging Equipments
1	Material handling equipments
1	Derrick & Dockyard Cranes
1	Stone Processing plants



AGNEE Series H Helical and Bevel Helical Gear Boxes



DESIGN FEATURES

GEARS : High quality alloy case hardening materials provide long life wear resistance and fatigue strength. Profile ground single helical gears and spiral bevel gears lapped in pairs ensure high standards of accuracy, surface finish and quiet running characteristics. Helical gears are fitted in parallel shaft units whilst units with shafts at right angles incorporate spiral bevel and helical gears.

BEARINGS : Taper Roller bearings are used throughout.

GEAR CASES : Gear cases are of rigid cast iron construction with modern styling. MS Fabricated gear cases are available as optional. Inspection covers are provided for viewing gear contacts. Oil level dipsticks, ventilators and drain plugs are fitted. Cases are split in horizontal plain for horizontal gearboxes and in the vertical plain for vertical gearboxes.

Gearcase Finish : Internal and external semi-gloss blue painted with linear epoxy primer. External surfaces are finished with alkyde semi-gloss blue paint. These paints are resistant to dilute acids and alkalis, oils and solvents, sea water and temperatures upto 140°C.

External Dimensions : Centre distances are chosen from ISO preferred number series. Shaft extensions and hollow wheelshaft bores are to ISO metric standards. Fastners are metric.

Lubrication : In horizontal units, lubrication in most instances is by transfer of oil by gears dipping in the sumps of gear unit bases. Where high pitch line speeds could cause churning of the lubricant, case baffles are fitted as indicated on rating tables. Forced lubrication is necessary where shown and complete systems can be supplied when required. In vertical units, lubrication in most instances is provided by a pump driven from the bottom of the high speed or second motion shaft. The low speed gears dip in the oil bath. In some cases, it is necessary to use a forced lubrication system with a separate oil tank. These are marked in the ratings tables. All units are provided with combined dipsticks and ventilators and drain plugs.

COOLING : Depending on the application, standard gear units are cooled by :
Normal heat dissipation by convection from external surfaces. Fans fitted to high speed shafts.
Cooling water coil fitted in gear unit base.
Fan and cooling coil. Separate oil cooler incorporated in forced lubrication systems.

SHAFT MOUNTED UNITS : Shaft mounted units are of two designs, the first of which is mounted on the driven machine shaft extension and connected to the foundation by torque arm. Additionally foot/shaft design is available for mounting on a base plate with motor and coupling, the complete assembly being mounted on the driven machine shaft extension connected to the foundation by a torque arm.

MOTORISED GEAR UNITS : Gear units of double and triple reduction types are available as standard assemblies with flanged motors directly mounted on gear case input shaft housing by adaptors. Motor and gear unit shafts are connected by flexible coupling.

HOLD BACKS : Hold backs can be fitted to all horizontal, two and three stage gear units, where required to operate in non-reversing drives. They are located on horizontal pinion shaft and have adequate capacities to deal with full rated torque. Lubrication is provided automatically from the oil in the gear unit. Changing the direction of locking rotation is a simple operation.

PRESERVATION/PROTECTION : AGNEE helical gear units are despatched without oil. Prior to despatch they are test run with a rust preventative oil giving adequate protection to internal parts for a period of 6 months, covering normal transport and covered storage.

NOTE : Where gear units are to operate in abnormal condition or where they are to stand for long period without running for e.g. in plant installation, AGNEE must be notified so that suitable protective arrangements can be made.

As improvements in design are being made, this specification is not to be regarded as binding in detail and drawings and capacities are subject to alterations without notice. Certified drawings would be sent on request.



AGNEE Series H Helical and Bevel Helical Gear Boxes



SELECTION PROCEDURE

Gearbox Selection for Horizontal Units

1. Select Gearbox Type

1.1 Parallel Shafts (helical) or right angle drive (bevel/helical), foot mount, shaft mount with or without foot.

1.2 Calculate gearbox ratio = Input Speed/ Output speed

2. Select Gearbox Size from Mechanical Capacity

2.1 Determine type of load from table 3 on page 10 (uniform, moderate shock or heavy shock).

2.2 Determine mechanical service factor from table 1.

2.3 Calculate the required mechanical power capacity (P_m)
(P_m) = absorbed power (kW) x mechanical service factor

2.4 Select gearbox size from rating tables.

P_m must be equal to or less than the mechanical rating of the gearbox.

3. Thermal Rating Check

3.1 Thermal ratings are given for the following four cases :
Gearbox without additional cooling.
Gearbox fitted with fan.
Gearbox fitted with cooling water coil.
Gearbox fitted with fan and coil.

3.2 Determine the thermal service factor from table 2.

3.3 Calculate the required thermal power capacity (P_t)
(P_t) = absorbed power (kW) ÷ thermal service factor.

3.4 Specify the type of cooling required by referring to thermal rating tables.

P_t must be equal to or less than the thermal capacity of the gearbox

Additional Catalogue Information

1. Gearbox overload capacity at start.
2.5 x mechanical rating, 5 times per day or,
2 x mechanical rating, 5 times per hour.

2. Intermittent duty.

Higher power than catalogue mechanical ratings can be transmitted on very intermittent operation within the finite life of the gears. Consult us with specific application details.

Table 1: Mechanical Service Factors (Horizontal & Vertical)

Prime Mover	Duration of service Hrs. Per Day	Load Classifications-Driven Machine		
		Uniform	Moderate Shock	Heavy Shock
ELECTRIC MOTOR, Steam Turbines	Under 3	0.80	1.00	1.50
	3 to 10	1.00	1.25	1.75
	Over 10	1.25	1.50	2.00
Multi-Cylinder Internal Combustion Engine	Under 3	1.00	1.25	1.75
	3 to 10	1.25	1.50	2.00
	Over 10	1.50	1.75	2.25
Single Cylinder Internal Combustion Engine	Under 3	1.25	1.50	2.00
	3 to 10	1.50	1.75	2.25
	Over 10	1.75	2.00	2.50

Table 2 : Thermal Service Factors (Horizontal & Vertical) for ambient temperature and duration of operation.

Type Of Cooling	Ambient Temperature °C	Running Time in Hour				
		100%	80%	60%	40%	20%
Gear Boxes without additional Cooling	10	1.12	1.34	1.57	1.79	2.05
	20	1.00	1.20	1.40	1.60	1.80
	30	0.88	1.06	1.23	1.41	1.58
	40	0.75	0.9	1.05	1.20	1.35
	50	0.63	0.76	0.88	1.01	1.13
Gear Boxes with Fan	10	1.15	1.38	1.61	1.84	2.07
	20	1.00	1.20	1.40	1.60	1.80
	30	0.09	1.08	1.26	1.44	1.62
	40	0.80	1.96	1.12	1.29	1.44
	50	0.70	0.84	0.98	1.12	1.26
Gear Boxes with Cooling Coil (1)	10	1.10	1.32	1.54	1.76	1.98
	20	1.00	1.20	1.40	1.60	1.80
	30	0.09	1.08	1.26	1.44	1.62
	40	0.85	1.02	1.19	1.36	1.53
	50	0.80	0.96	1.12	1.29	1.44
Gear Boxes with Fan & Cooling Coil (1)	10	1.12	1.34	1.57	1.79	2.05
	20	1.00	1.20	1.40	1.60	1.80
	30	0.92	1.10	1.29	1.47	1.66
	40	0.83	1.0	1.16	1.33	1.50
	50	0.78	0.94	1.09	1.25	1.40

(1) Based on Cooling - Water Temperature 20 C.



AGNEE Series H Helical and Bevel Helical Gear Boxes



HOW TO ORDER, Selection Example

How to order-Information required when ordering standard gear units

Prime Mover

1. Type - electric motor or engine, for example 4 cylinder internal combustion engine
2. Power rating in kW
3. Output speed. If variable, indicate speed range and frequency of variable.
4. Dimensions of prime mover.

Driven Machine

1. Type, for example, kiln, conveyor, etc.
2. Power rating in kW
3. Speed
4. Service - hours per day, running time in any hour, details of reversals if applicable, type of loading, ambient temperature, etc.

Gear Unit

1. Type, for example, H2.
2. Size, for example, 315.

3.Ratio

4. Shaft handling. Refer to dimension pages and quote reference.

5. Direction of rotation (for units with right angle shafts refer to handling diagrams on dimension pages). If holdback arrangement is to be fitted, please indicate the direction of rotation of low speed shaft looking towards it.

Shaft Connections

1. Couplings Quote shaft diameters with tolerances or coupling bores.
2. Details of overhung loads, including diameter and type of sheave, sprocket or pinion and any thrust loads.

Shaft mounted units for High Inertia Drive

When used on Traverse drives with inertia driven loads, e.g. crane drives (slewing, long travel and cross travel) bogie drives and selected high inertia load roller table drives, it is recommended that shaft mounted units should be fitted with shock absorbing Torque Arms. Consult us with specific application details.

Example 1

A foot mounted parallel shaft speed reducer is to be directly coupled to a 750 kW, 1500 rpm motor. The output shaft is to rotate at 365 rpm and is coupled to a large industrial fan absorbs 725 kW on 24 hours/day service. The maximum ambient temperature is 30°C.

Selection

1. Gearbox Type

- 1.1 Parallel shaft type is specified - type H.
- 1.2 Ratio = $1500 \div 365 = 4.11$, type H1 (single reduction)

2. Mechanical Capacity

- 2.1 From table 3 on previous page the application is moderate shock.
- 2.2 From table 1 on page 3 the service factor is 1.5.
- 2.3 The required mechanical capacity = $1.5 \times 725 = 1088$ kW
- 2.4 Under mechanical ratings a unit size 315, nominal ratio 4.13, has a capacity of 1293 kW

3. Thermal Rating Check

- 3.1 From table 2 on previous page the thermal service factor for 30°C ambient temperature and 100% running time is 0.9 for a unit with fan cooling (reference to the thermal ratings shows that at least fan cooling is required.)
- 3.2 The required thermal capacity = $725 \div 0.9 = 806$.
- 3.3 Under thermal ratings, fan cooled, a size 315 has a capacity of 918 kW at 1500 rpm, ratio 4.15
4. Check that the exact ratio.
5. Order a gearbox type H1 - 315 exact ratio 4.15 with cooling fans fitted.

Example 2

A shaft mounted gear unit right angle shafts is required to drive a belt conveyor running 24 hours/day at 80 rpm. The unit must have feet for the attachment of a motor mounting baseplate. The motor is 500 kW at 1500 rpm and the absorbed power at the conveyor headshaft is 465 kW. The ambient temperature on site is 20°C.

Selection

1. Gearbox Type

- 1.1 Foot shaft mounted unit with right angle shafts.
- 1.2 Ratio = $1500 \div 80 = 18.8$, type B2SF could be used

2. Mechanical Capacity

- 2.1 From table 3 on page 10 the application is uniform load.
- 2.2 From table 1 on page 3 the service factor is 1.25
- 2.3 The required mechanical capacity = $1.25 \times 465 = 581$ kW
- 2.4 Under mechanical ratings a unit size B3SF - 400, nominal ratio 18.9, has a capacity of 620 kW. The double reduction type B2SF - 400 ratio 18.9 has insufficient mechanical capacity.

3. Thermal Rating Check

- 3.1 From table 2 on previous page the thermal service factor for 20°C ambient temperature and 100% running time is 1.0
- 3.2 The required thermal capacity = $465 \div 1.0 = 465$ kW.
- 3.3 Under thermal ratings, fan cooled, a size 400 at 1500 rpm has a capacity of 484 kW
4. Check that the exact ratio.
5. Order a gearbox type B3SF - 400, exact ratio with cooling fans fitted.



AGNEE Series H Helical and Bevel Helical Gear Boxes



OVERHUNG LOADS / AXIAL THRUST LOADS - HORIZONTAL UNITS

Whenever a sprocket, gear, sheave or pulley is mounted on the shaft, a calculation should be made to determine the overhung load in kN on the shaft, using the formula :

$$P = \frac{KW \times 9545 \times K}{N \times R}$$

Where P = equivalent overhung load in kN,
 KW = power carried by the shaft, rpm of the shaft
 N = pitch radius of sprocket, pinion, sheave or pulley (mm).

Overhung member	K Factor
Sprocket for chain	1
Spur gear	1.25
V belt sheave	1.5
Flat belt pulley	3.0

Notes :

- Values are calculated for the most unfavourable direction of rotation. Consult us with specific application details.
- Overhung load values are for loads applied midway along shaft extension.
- For overhung load and axial thrust values for large sizes consult us.

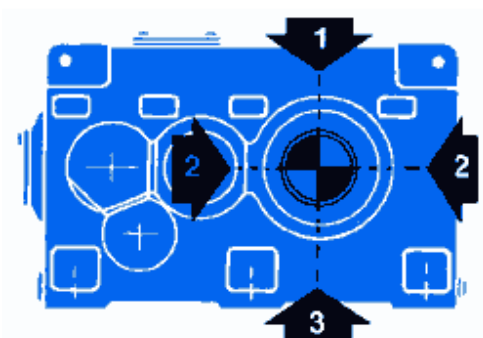


Table 4 : Permissible Overhung Load on Low Speed Shaft (kN) (Horizontal Units)

Direction of Load	Output Speed (rpm)	Types H2-H3-B2-B3 Unit Sizw							
		200	225	250	280	315	355	400	450
1	315	35	42	47	56	78	100	100	172
	200	40	48	57	68	87	118	126	190
	125	48	55	62	85	103	132	150	228
	80	52	68	78	97	130	162	190	280
	50	52	68	90	126	148	182	228	320
2	31.5 $\geq$	52	68	90	126	148	182	230	320
	315	35	42	47	56	78	100	109	172
	200	40	48	62	85	87	118	126	190
3	125 $\geq$	41	48	62	85	99	120	150	215
	315 $\geq$	18	23	30	42	49	61	78	107

Table 5 : Permissible Overhung Load High Speed Shaft at 1500 rpm(kN) (Horizontal Units)

Type of Unit	Unit Size							
	200	225	250	280	315	355	400	450
H2-H2S-H2SF	8.45	10.5	13.0	19.5	26.5	32.2	38.7	45.8
H3-H3S-H3SF	3.03	4.58	6.45	8.4	10.5	13.0	20.0	28.9
B2-B2S-B2SF	12.0	15.6	19.6	25.4	30.6	36.0	41.3	49.8
B3-B3S-B3SF	3.03	7.12	8.90	12.0	15.6	19.6	25.4	30.6

Table 6 : Permissible Axial Thrust on Low Speed Shaft (kN) (Horizontal Units)

Output Speed rpm	Type H2-H3-B2-B3							
	200	225	250	280	315	355	400	450
315	12.0	12.5	13.4	11.8	18.3	30.3	28.8	53.4
200	13.4	14.2	15.2	13.3	20.8	34.3	32.6	60.5
125	17.1	17.3	18.0	18.4	25.3	40.0	40.9	70.8
80	18.2	20.5	21.8	23.8	35.6	63.6	55.4	80.85
50	19.4	25.8	25.3	32.1	43.5	66.3	68.5	94.3
31.5 and below	19.4	25.8	25.3	34.3	55.6	66.3	88.6	94.3



AGNEE Series H

Helical and Bevel Helical Gear Boxes



Load Classification U=Uniform Load H=Heavy shock load M=Moderate shock load T=Refer to AGNEE

Driven machine	Load Type	Driven Machine	Load Type	Driven Machine	Load Type	Driven Machine	Load Type
Agitators		Dry dock cranes		Merry-go-round conveyor	M	felt whipper	H
Pure liquids	U	main hoist	T	roll cases	H	jordans	M
Liquids & solids	M	auxiliary hoist	T	slab conveyor	H	log haul	H
Liquids-variable density	M	boom, luffing	T	small waste conveyor-belt	U	presses	M
		rotating swing or slew	T	small waste conveyor-chain	M	pulp machine reel	M
Blowers		tracking, drive wheels	T	sorting table	M	suction roll	M
Centrifugal	U			tipple hoist conveyor	M	washers & thickness	M
Lobe	M	Elevators		tipple hoist drive	M	winders	M
Vane	U	bucket-uniform load	U	transfer conveyor	M		
		bucket-heavy load	M	transfer rolls	M	Printing presses	
Brewing and distilling		bucket-continuous	U	tray drive	M	pullers	T
Bottling machinery	U	centrifugal discharge	U	trimmer feed	M	barge haul	H
Brew kettles cont. duty	U	escalators	U	waste conveyor	M	pumps centrifugal	U
Cookers cont. Duty	U	freight	M			proportioning	M
Mash tubs cont. Duty	U	gravity discharge	U	Machine tools		reciprocating single acting	M
Scale hopper-fre. Starts	M	man lifts	T	bending roll	M	3 or more cylinders	
		passenger	T	punch press gear-driven	H	reciprocating double acting	M
Can filling M/C	U			notching press-belt driven	T	2 or more cylinders	
Can knives	M	Fans		plate planers	H	single acting 1 or 2 cylinders	T
Car dumpers	H	centrifugal	U	tapping machine	H	double acting, single cylinder	T
Car pulleys	M	cooling towers				rotary-gear type	U
Clarifiers	U	induced draft	T	Other machine tools		rotary-lobe, vane	U
Classifiers	M	forced draft	T	Main drive	M		
		induced draft	M	Auxiliary Drives	U	Rubber and plastics industries	
Clay working machinery		large, mine, etc.	M			crackers	H
Brick press	H	large, industrial	M	Metal mills		laboratory, equipment	M
Briquette machine	H	light, small diameter	U	Draw bench carriage	M	mixed minds	H
Clay working machinery	M			Main drive	M	refiners	M
Pug mill	M	Feeders		pinch, dryer and scrubber		rubber calendars	M
		apron	M	rolls-reversing	T	rubber mill-2 on line	M
Compressors		belt	M	slitters	M	rubber mill-3 on line	M
Centrifugal	U	disc	U			sheeter	M
Lobe	M	reciprocating	H	Table conveyors		tire building machines	T
Reciprocating-Multi-cyl.	M	screw	M	non reversing group drives	M	tire and tube press openers	T
Single cyl.	H			individual drives	H	tubers and strainers	M
		Food industry				warming mills	M
Conveyor- uniformly loaded		beef slicer	M	Reversing		sand multer	M
Apron	U	cereal cooker	U	wire drawing	M		
Assembly	U	dough mixer	M	flattening machine	M	Sewage disposal equipment	
Belt	U	meat grinders	M	wire winging machine	M	bar screens	U
Bucket	U	Generators-not welding	U	Mill - rotary type ball	H	chemical feeders	U
Chain	U	Hammer mills	H	cement kilns	H	collectors	U
Flight	U			dryers and coolers	H	de watering screws	M
Oven	U	Hoists		kilns, other than-cement	H	scum breakers	M
Screw	U	heavy duty	H	pebble	H	slow or rapid mixers	M
		medium duty	M	rod plain	H	thickeners	M
Conveyor- heavy duty		skip hoist	M	wedge bar	H	vacuum filters	M
Apron	M			tumbling barrels	H		
Assembly	M	Laundry machines				Screens	
Belt	M	Laundry washers reverse	M	Mixers		air washing	U
Bucket	M	Laundry tumblers	M	concrete mixers-cont.	M	rotary-stone or gravel	M
Chain	M			concrete mixers-int.	M	traveling water intake	U
Flight	M	Line shafts		constant density	U	Slab pushers	M
Live roll	H	processing equipment	M	variable density	M	steering gear stokers	U
Oven	M	light applications	U				
Reciprocating	H	other line shafts	U	Oil industry		Sugar industry	
Screw	M			chillers	M	cane knives	M
Shaker	H	Lumber industry		oil well pumping	T	crushers	M
		barkers -Hydraulic	M	paraffin filler press	M	mills	M
		barkers-mechanical	M	rotary kilns	M		
Cranes		burner conveyor	M			Textile industry	
Main hoists	U	chain saw and drag saw	H	Paper mills		batchers	M
Bridge travel	H			agitators, (Mixers)	M	calendars	M
Trolley travel	H	chain transfer	H	barker-auxiliaries hydraulic	M	cards	M
		craneway transfer	H	barker-mechanical	H	dry cans	M
Crusher		de-barking drum	H	barking drum	H	dryers	M
Ore	H	edger feeder	M	beater and pulper	M	dyeing machinery	M
Stone	H	gang feeder	M	bleacher	U	knitting machines looms	M
Sugar	H	green chain	M	calendars	M	mangles	M
		live rolls	H	calendars-super	H	nappers	M
Dredges		log deck	H			pads	M
Cable reels	M	log haul-incline	H	Converting machine,		range drives slashers	M
Conveyors	M	log haul-well type	H	except cutters, platers	M	soapers	M
Cutter head drives	H	log turning device	H	conveyors	U	spinners	M
Jig drives	H	main log conveyor	H	couch	M	tenter frames	M
Maneuvering winches	M	off bearing rolls	H	cutters-plates	H	washers	M
Pumps	M	planer feed chains	M	cylinders	M	winders	M
Screen drive	H	planer floor chains	M	dyers	M		
Stackers	M	planer tilting hoist	M	felt stretcher	M		
Utility winches	M						



AGNEE Series H

Helical and Bevel Helical Gear Boxes



TYPE H1														
SINGLE REDUCTION UNITS - PARALLEL SHAFTS MECHANICAL AND THERMAL CAPACITIES KW														
MECHANICAL CAPACITIES (kW)														
Nominal Ratio	Input Speed rpm	Nominal Output Speed rpm	Unit Size											
			140	160	180	200	225	250	280	315	355	400	450	500
1.22	1500	1230	294	424	512	921	1107	4852	2266	3145	3807*	5514*	-	-
	1000	820	194	284	340	615	739	1229	1510	2094	2667	3427	5510	5765
	750	615	150	216	257	460	577	924	1138	1572	2172	2793	4490	4354
1.35	1500	1111	276	407	512	921	1097	1831	2245	3114	3776	5472*	-	-
	1000	740	187	278	340	615	732	1219	1500	2073	2594	3420	5365	5765
	750	556	142	211	257	460	563	916	1128	1562	2121	2731	4376	4354
1.50	1500	1000	259	380	491	866	1086	1707	2224	3093	3745	5431*	-	-
	1000	667	180	271	350	611	726	1208	1490	2063	2500	3390	5219	5765
	750	500	136	204	260	458	547	905	1117	1541	2007	2710	4262	4354
1.66	1500	904	251	343	455	810	1076	1603	2193	3052	3703	5234	-	-
	1000	602	178	242	324	588	716	1188	1469	2042	2469	3360	4979	5765
	750	452	141	193	259	441	537	894	1097	1531	1893	2679	4003	4354
1.84	1500	815	236	333	436	754	997	1552	2059	2969	3414	4883	-	-
	1000	543	185	236	309	550	704	1156	1448	2010	2448	3300	4927	5765
	750	408	152	186	244	413	529	870	1086	1510	1841	2648	3755	4354
2.03	1500	739	220	313	416	724	927	1448	1934	2752	3300	4728	-	-
	1000	493	173	217	287	534	695	1094	1375	1900	2417	3220	4865	5503
	750	369	142	175	234	401	521	838	1034	1440	1810	2617	3652	4522
2.25	1500	667	204	300	394	670	866	1334	1810	2534	3072	4366	-	-
	1000	444	141	208	270	495	679	1009	1271	1750	2313	3120	4781	5143
	750	333	113	165	217	370	510	775	962	1320	1779	2472	3579	4226
2.49	1500	602	191	277	378	616	815	1231	1676	2200	2845	4003	-	-
	1000	402	133	192	261	465	672	903	1167	1520	2146	3021	4625	4709
	750	301	104	150	207	379	506	681	881	1150	1748	2320	3507	3896
Nominal ratios are shown. Interpolate for other input speeds. A case baffle is fitted where rating is shown in color. * forced lubrication is necessary.														
THERMAL CAPACITIES (KW)														
Nominal Ratio	Input Speed rpm	Unit Size												
		140	160	180	200	225	250	280	315	355	400	450	500	
Units without Fan														
1.22 to 1.84	1500	48.5	64.7	82.8	197	304	376	571	702	1190	1453	-	-	
	1000	49.8	65.8	84.7	202	316	397	601	808	1277	1610	2175	1470	
	750	50.9	67.8	86.7	208	328	414	632	777	1197	1587	2357	1440	
2.03 to 3.05	1500	37.5	50.3	64.2	152	235	309	494	634	988	1259	-	-	
	1000	41.7	55.6	71.4	170	250	325	486	616	925	1214	1937	1280	
	750	43.8	58.7	75.6	180	254	325	482	612	922	1187	1822	1200	
3.38 to 5.06	1500	35.7	48.5	62.3	130	193	229	324	442	670	914	-	-	
	1000	37.8	51.8	67.6	158	213	244	329	437	663	896	1236	830	
	750	39.8	53.8	69.8	158	220	252	331	427	641	868	1202	800	
Units with Fan Cooling														
1.22 to 1.84	1500	185	252	330	490	770	928	1351	1616	2520	3203	-	-	
	1000	134	183	239	411	645	779	1133	1357	2116	2687	2250	2810	
	750	110	150	196	371	584	704	1024	1226	1912	2430	2070	2630	
2.03 to 3.05	1500	134	182	239	331	520	627	913	1093	1703	2202	-	-	
	1000	99.0	135	176	278	437	526	766	917	1430	1816	1970	2460	
	750	82.6	113	148	252	394	475	692	829	1292	1641	1710	2150	
3.38 to 5.06	1500	99.0	135	177	277	437	526	766	918	1431	1849	-	-	
	1000	81.4	111	145	233	367	442	643	771	1201	1525	1320	1690	
	750	72.9	99.0	130	210	332	399	581	696	1086	1379	1100	1410	
Full Load Efficiency - 98.5% (approx.)														



AGNEE Series H

Helical and Bevel Helical Gear Boxes



TYPE H1														
SINGLE REDUCTION UNITS - PARALLEL SHAFTS MECHANICAL AND THERMAL CAPACITIES KW														
MECHANICAL CAPACITIES (kW)														
Nominal Ratio	Input Speed rpm	Nominal Output Speed rpm	Unit Size											
			140	160	180	200	225	250	280	315	355	400	450	500
2.76	1500	543	173	250	358	587	764	1076	1521	1976	2617	3838	-	-
	1000	362	122	176	247	443	578	723	1027	1333	1979	2800	4250	4332
	750	272	96.0	140	197	348	436	545	774	1007	1614	2160	3217	3559
3.05	1500	492	164	232	301	532	719	880	1334	1800	2390	3466	-	-
	1000	328	112	161	207	400	544	670	896	1180	1802	2550	4031	4014
	750	246	89.0	127	161	304	414	500	674	900	1469	1980	3041	3298
3.38	1500	444	145	213	286	502	620	740	1200	1552	2276	3300	-	-
	1000	296	103	151	203	324	468	615	876	1042	1719	2300	3625	3720
	750	222	78.0	114	155	246	356	468	660	785	1314	1750	2731	3057
3.73	1500	402	128	187	275	391	530	720	1080	1400	2048	2928	-	-
	1000	268	91.0	131	192	254	386	543	743	1083	1500	1979	3094	3517
	750	201	69.2	101	147	193	294	413	564	701	1138	1531	2328	2889
4.13	1500	363	108	167	237	338	442	636	969	1293	1934	2762	-	-
	1000	242	75.6	117	164	219	286	411	626	833	1281	1781	2740	3310
	750	182	56.8	88.1	124	167	217	313	476	633	972	1355	2079	2785
4.57	1500	328	98.3	147	214	269	437	511	767	1055	1583	2234	-	-
	1000	219	75.6	102	149	175	282	335	501	690	1022	1448	2281	3026
	750	164	53.2	79.6	115	130	215	251	377	515	776	1097	1728	2487
5.06	1500	296	82.8	129	177	229	318	433	590	870	1221	1893	-	-
	1000	198	57.9	89.5	122	148	205	283	389	563	798	1219	1698	2763
	750	148	43.1	67.6	91.7	113	156	213	290	427	598	926	1283	2270
Nominal ratios are shown.Interpolate for other input speeds. A case baffle is fitted where rating is shown in color.														
THERMAL CAPACITIES (kW)														
Nominal Ratio	Input Speed rpm	Unit Size												
		140	160	180	200	225	250	280	315	355	400	450	500	
Units with Cooling Coils +														
1.22 to 1.84	1500	201	250	304	365	486	1680	1920	3120	3530	4370	-	-	
	1000	187	232	282	335	443	1540	1860	3200	3610	4500	5050	5700	
	750	179	223	270	322	430	1470	1800	3190	3600	4520	5140	5620	
2.03 to 3.05	1500	146	182	220	262	347	1270	1530	2820	3120	3880	-	-	
	1000	140	172	208	248	332	1180	1400	2690	3080	3950	4500	5010	
	750	132	166	200	238	316	1110	1330	2530	3010	3940	4510	5010	
3.38 to 5.06	1500	113	140	169	202	245	840	985	2025	2410	3340	-	-	
	1000	114	142	171	204	240	763	900	1840	2210	3170	3460	3900	
	750	115	143	173	206	241	709	840	1710	2080	2980	3290	3710	
Units with Fan Cooling and Cooling Coils +														
1.22 to 1.84	1500	401	497	601	714	995	2310	2680	3970	4620	5580	-	-	
	1000	314	390	472	560	770	1990	2450	3800	4390	5370	6190	6980	
	750	270	336	408	483	665	1790	2250	3670	4200	5200	6040	6810	
2.03 to 3.05	1500	288	359	434	515	710	1790	2220	3580	4060	4900	-	-	
	1000	232	284	343	408	565	1510	1860	3240	3760	4690	5450	6150	
	750	196	244	295	351	484	1340	1650	2960	3550	4530	5240	5910	
3.38 to 5.06	1500	207	257	311	370	487	1175	1415	2600	3210	4280	-	-	
	1000	172	213	258	308	386	975	1190	2230	2740	3850	4250	4800	
	750	159	198	239	285	344	861	1040	1980	2460	3480	3900	4400	
Full Load Efficiency - 98.5% (approx.) + Based on cooling water temperature 20 degree Celsius.														



AGNEE Series H

Helical and Bevel Helical Gear Boxes



TYPE H2-H2S-H2SF																
DOUBLE REDUCTION UNITS - PARALLEL SHAFTS MECHANICAL AND THERMAL CAPACITIES KW																
MECHANICAL CAPACITIES (kW)																
Nominal Ratio	Input Speed rpm	Nominal Output Speed rpm	Unit Size													
			140	160	180	200	225	250	280	315	355	400	450	500	560	710
5.6	1500	268	82.1	124	156	213	310	383	677	905	1148	1428	2328*	3630	4630	-
	1000	179	55.1	82.7	104	142	207	274	452	605	766	1073	1635	2050	3290	6290
	750	134	41.3	62.1	78.1	107	156	223	339	455	575	872	1334	1890	2720	5450
6.2	1500	242	76.6	117	148	199	283	420	618	822	1055	1314	2131*	2970	4420	-
	1000	161	51.0	78.0	98.6	132	190	314	413	550	722	993	1479	1880	3000	3980
	750	121	38.3	58.6	74.0	99.4	142	235	310	422	589	810	1210	1740	2490	3050
6.86	1500	219	76.6	117	148	199	273	400	592	785	991	1314	2007*	2700	4010	-
	1000	146	51.0	78.0	98.6	132	182	300	395	525	722	993	1479	1860	2720	3770
	750	109	38.3	58.6	74.0	99.4	140	224	299	422	589	810	1210	1700	2180	2860
7.59	1500	198	76.6	108	143	189	248	381	539	730	896	1241	1831*	2640	3700	-
	1000	132	51.0	74.8	99.1	126	166	270	360	498	652	933	1385	1800	2520	3720
	750	98.8	38.3	53.8	71.4	94.7	127	204	272	407	533	762	1086	1650	2120	2820
8.4	1500	179	66.3	97.6	131	177	247	333	498	622	913	1138	1676*	2610	3680	-
	1000	119	44.2	65.1	87.6	120	181	260	365	468	667	871	1323	1760	2550	3080
	750	89.3	33.1	48.8	65.7	97.4	140	202	287	380	544	714	1107	1610	2180	2450
9.3	1500	161	62.2	91.4	119	162	226	323	458	601	834	1045	1609	2600	3620	-
	1000	108	41.5	60.9	79.3	113	155	247	333	439	621	799	1198	1740	2470	3060
	750	80.7	31.0	45.7	59.5	89.9	127	187	261	350	503	669	1010	1460	2130	2440
10.3	1500	146	53.9	83.1	113	151	212	293	394	529	707	917	1379	2450	3120	-
	1000	97.1	35.9	55.4	75.2	101	149	235	307	420	531	719	1083	1700	2350	3140
	750	72.8	27.0	41.6	56.4	80.0	117	180	231	321	400	604	910	1360	2020	2450
11.4	1500	132	50.6	73.2	105	137	187	280	408	519	684	881	1376	2200	2870	REFER
	1000	87.7	33.8	48.9	69.7	97.4	133	204	283	376	524	694	1063	1480	2040	TO
	750	65.8	25.3	36.6	52.2	76.1	101	155	212	282	407	579	860	1140	1700	AGNEE

For capacities higher than above - refer to AGNEE. Nominal ratios are shown. Interpolate for other input speeds. A case baffle is fitted where rating is shown in color. * Forced lubrication system required for Vertical Units.

THERMAL CAPACITIES (kW)																
Nominal Ratio	Input Speed rpm															
		140	160	180	200	225	250	280	315	355	400	450	500	560	630	710
Units without Fan Cooling (Horizontal)																
5.60 to 11.4	1500	28.8	35.8	45.7	82	102	125	160	220	300	388	480	495	615	-	-
	1000	27.2	34.2	44.2	82	100	121	156	220	300	388	480	490	610	760	990
	750	27.0	33.1	43.1	76	96	115	150	203	278	359	444	480	600	750	970
12.6 to 25.6	1500	27.8	33.8	43.6	77	97	120	156	196	250	324	382	475	595	-	-
	1000	27.1	32.2	42.2	81	97	115	151	193	250	324	382	470	590	730	960
	750	26.1	31.1	41.1	76	82	111	148	185	232	299	353	460	580	720	950
Units with Fan Cooling (Horizontal)																
5.60 to 11.4	1500	76.5	95.7	127	153	186	254	352	460	699	986	1323	1080	1350	-	-
	1000	65.1	81.2	108	130	169	205	284	370	563	795	1245	860	1070	1650	1980
	750	57.7	72.0	96.2	116	149	197	272	355	540	762	1043	740	920	1450	1820
12.6 to 25.6	1500	71.7	95.7	119	143	180	217	280	365	555	782	1017	1040	1300	-	-
	1000	60.9	75.1	102	122	150	186	247	319	447	630	956	830	1040	1250	1470
	750	52.0	64.2	85.7	104	131	171	219	279	427	605	800	720	900	1090	1300
Full Load Efficiency - 98% (approx.)																

Full Load Efficiency - 98% (approx.)



AGNEE Series H

Helical and Bevel Helical Gear Boxes



TYPE H2-H2S-H2SF

DOUBLE REDUCTION UNITS - PARALLEL SHAFTS MECHANICAL AND THERMAL CAPACITIES KW

MECHANICAL CAPACITIES (kW)

Nominal Ratio	Input Speed rpm	Nominal Output Speed rpm															
			140	160	180	200	225	250	280	315	355	400	450	500	560	630	710
12.6	1500	119	43.5	64.5	92.5	123	171	264	367	468	639	804	1252	1900	2680		
	1000	79.4	29.1	43.0	61.5	86.9	125	177	253	339	496	632	950	1255	1810		
	750	59.5	21.8	32.8	46.1	64.7	94.0	137	188	256	379	527	756	980	1615		
14.0	1500	107	40.2	52.7	84.0	112	160	243	322	443	598	734	1097	1800	2520		
	1000	71.4	26.9	35.1	56.0	79.0	116	171	229	311	400	572	861	1250	1770		
	750	53.6	20.2	26.4	42.0	61.9	90.4	130	175	246	301	473	723	935	1330		
15.4	1500	97.4	35.1	51.3	77.7	92.9	140	200	265	393	511	692	1045	1600	2260		
	1000	64.9	23.8	34.5	51.7	61.1	82.7	129	175	264	335	501	690	1060	1540		
	750	48.7	17.6	25.7	38.9	45.7	69.2	98.6	130	198	251	372	515	830	1240		
17.1	1500	87.7	32.2	47.5	68.3	91.7	133	200	266	395	487	628	968	1480	2080		
	1000	58.5	21.5	31.7	45.5	61.1	82.7	129	175	264	326	494	691	980	1390		
	750	39.7	16.1	23.8	34.1	45.7	66.8	98.6	130	198	245	372	513	760	1060		
18.9	1500	79.4	28.7	42.8	61.5	72.2	108	152	218	310	433	590	870	1340	1900		
	1000	52.9	19.1	28.5	41.0	47.6	70.6	100	144	204	283	389	563	900	1280		
	750	39.7	14.4	21.4	30.7	35.5	53.0	74.5	107	152	213	290	427	730	1020		
20.9	1500	71.8	24.8	39.8	54.1	65.2	87.8	126	186	253	357	501	739	1230	1840		
	1000	47.8	16.6	26.6	36.0	46.5	61.0	87.5	132	181	252	334	540	830	1230		
	750	35.9	12.4	19.9	27.0	36.1	45.8	65.7	103	142	189	252	422	700	970		
23.2	1500	64.7	22.3	33.0	48.7	59.7	80.2	114	170	235	328	452	700				
	1000	43.1	14.9	22.0	32.5	42.5	54.7	77.0	121	167	227	303	499				
	750	32.3	11.2	16.5	24.4	32.6	41.1	57.8	94.8	130	171	228	391				
25.6	1500	58.6	17.4	26.6	37.1	49.0	69.7	95.4	132	185	271	397	565				
	1000	39.1	11.6	17.4	24.8	34.9	49.7	67.9	94.2	132	193	282	402				
	750	29.3	8.7	13.0	20.4	27.3	38.9	53.2	73.8	103	151	221	314				

For capacities higher than above - refer to AGNEE. Nominal ratios are shown. Interpolate for other input speeds.

THERMAL CAPACITIES (kW)

Nominal Ratio	Input Speed rpm															
		140	160	180	200	225	250	280	315	355	400	450	500	560	630	710
Units with Cooling coils (Horizontal)																
5.60 to 11.4	1500 1000 750	130	139	157	170	192	435	490	1040	1210	1770	2010	2320	3040	-	-
		129	139	155	168	188	403	447	940	1110	1620	1860	2190	2860	3320	4070
		127	136	152	165	185	385	422	877	1030	1510	1740	2040	2680	3070	3740
12.6 to 25.6	1500 1000 750	116	123	140	150	177	323	358	701	824	1200	1340	1590	2270	-	-
		116	122	138	147	174	325	353	647	749	1080	1210	1480	2140	2430	3100
		113	120	135	145	170	326	354	627	705	1000	1110	1400	2010	2240	2850
Units with Fan and cooling coils (Horizontal)																
5.60 to 11.4	1500 1000 750	222	238	265	286	318	592	695	1330	1610	2280	2660	3080	3990	-	-
		207	221	246	266	295	500	573	1120	1360	1940	2280	2790	3610	4470	5460
		200	213	224	257	282	453	510	1000	1200	1740	2030	2560	3330	4080	5010
12.6 to 25.6	1500 1000 750	191	204	228	246	271	417	484	882	1070	1540	1750	2320	3180	-	-
		182	194	216	233	259	388	435	760	900	1290	1450	2060	2870	3310	4130
		172	184	205	222	251	374	415	705	813	1140	1290	1910	2640	3000	3760

Full Load Efficiency - 98% (approx.)

+ Based on cooling water temperature 20 degree Celsius.

Cooling coil not available for vertical units.



AGNEE Series H

Helical and Bevel Helical Gear Boxes



TYPE H3-H3S-H3SF																	
TRIPLE REDUCTION UNITS - PARALLEL SHAFTS MECHANICAL AND THERMAL CAPACITIES KW																	
MECHANICAL CAPACITIES (KW)																	
Nominal Ratio	Input Speed rpm	Nominal Output Speed rpm	Unit Size														
			140	160	180	200	225	250	280	315	355	400	450	500	560	630	710
20.9	1500	71.8	TYPES H2-H2S-H3SF											1080	1420	1910	
	1000	47.8												810	1070	1390	
	750	35.9												660	890	1130	
23.2	1500	64.7												1090	1570	2060	
	1000	43.1												820	1140	1430	
	750	32.4												650	860	1240	
25	1500	60	22.1	34.1	49.8	63.8	86.9	125	192	260	336	513	707	1076	1417	1914	
	1000	40	14.8	22.8	33.2	48.1	63.0	93.5	128	174	248	368	513	782	1035	1354	
	750	30	11.1	17.1	24.9	37.8	47.3	76.2	96.3	130	186	276	386	589	780	1127	
28	1500	54	20.9	29.8	45.4	62.3	84.0	123	173	229	330	482	702	1055	1407	1800	
	1000	36	14.0	19.9	30.3	44.5	58.2	85.0	116	152	221	330	471	705	940	1208	
	750	27	10.5	14.9	22.8	33.8	43.7	69.3	86.9	115	166	248	354	530	708	910	
31.5	1500	48	17.1	26.5	41.2	53.1	74.5	109	157	210	295	426	611	966	1272	1655	
	1000	32	11.5	17.7	27.5	40.0	51.5	82.2	105	141	203	297	415	648	852	1114	
	750	24	8.60	13.2	20.6	30.4	38.6	64.8	78.6	106	152	223	311	488	641	838	
35.5	1500	42	16.7	24.5	38.1	49.4	69.7	102	140	189	278	406	568	852	1127	1479	
	1000	28	11.1	16.4	25.4	35.3	46.6	71.6	93.4	126	186	272	383	571	756	989	
	750	21	8.30	12.2	19.0	27.7	35.0	56.2	70.0	95.0	140	204	288	429	569	745	
40	1500	38	14.8	22.4	33.5	48.5	63.0	93.9	128	170	245	367	509	793	1034	1345	
	1000	25	9.91	14.9	22.3	33.4	42.0	69.7	85.6	114	164	246	341	531	697	900	
	750	19	7.42	11.2	16.8	25.1	31.6	52.2	64.2	85.0	123	185	256	399	524	677	
45	1500	33.5	13.2	20.0	30.8	41.2	57.0	85.4	114	153	228	329	462	705	928	1210	
	1000	22	8.89	13.3	20.6	29.4	38.0	60.9	76.3	102	152	220	309	472	622	812	
	750	16.6	6.66	10.0	15.4	22.4	28.6	47.1	57.2	76.7	115	166	233	355	467	611	
50	1500	30	11.0	16.7	23.8	33.3	54.3	76.3	99.8	139	178	256	393	579	822	REFER TO AGNEE	
	1000	20	7.38	11.1	15.9	22.2	36.3	51.9	66.6	92.3	119	171	264	387	551		
	750	15	5.51	8.33	11.9	16.7	27.2	38.9	50.0	69.2	89.1	128	198	291	414		
THERMAL CAPACITIES (kW)																	
Nominal Ratio	Input Speed rpm	Unit Size															
		140	160	180	200	225	250	280	315	355	400	450	500	560	630	710	
Units without Fan (Horizontal)																	
25.5 to 40	1500	25.2	33.3	42.3	50	63	75	95	121	151	188	238	340	425	550	685	
	1000	23.2	30.3	38.4	46	59	69	91	116	145	180	229	330	415	535	665	
	750	21.2	28.2	36.2	43	56	67	88	112	141	173	224	320	405	520	650	
45 to 130	1500	22.2	29.0	37.2	31	38	48	59	77	95	121	151	320	405	530	670	
	1000	20.2	27.2	34.3	22	27	35	42	56	67	87	108	315	400	520	660	
	750	19.1	25.2	32.2	18	22	28	34	44	54	70	87	310	395	510	645	
Units with Fan Cooling (Horizontal)																	
25.5 to 40	1500	-	-	-	72	90	108	136	174	215	268	340	720	930	1200	1520	
	1000	-	-	-	66	84	99	130	166	207	257	328	650	850	1100	1410	
	750	-	-	-	60	80	96	126	160	201	248	320	590	800	1010	1300	
45 to 71	1500	-	-	-	51	57	74	89	114	145	186	260	720	930	1200	1520	
	1000	-	-	-	40	44	57	70	89	114	146	204	650	850	1100	1410	
	750	-	-	-	35	38	50	60	77	98	126	175	590	800	1010	1300	



AGNEE Series H

Helical and Bevel Helical Gear Boxes



TYPE H3-H3S-H3SF																
TRIPLE REDUCTION UNITS - PARALLEL SHAFTS MECHANICAL AND THERMAL CAPACITIES KW																
MECHANICAL CAPACITIES (KW)																
Nominal Ratio	Input Speed rpm	Nominal Output Speed rpm	Unit Size													
			140	160	180	200	225	250	280	315	355	400	450	500	560	710
56	1500	27	9.91	15.7	21.2	30.9	49.4	70.6	92.1	129	159	240	347	538	751	
	1000	18	6.59	10.5	14.2	20.6	32.9	47.2	61.5	85.9	106	160	231	359	503	
	750	13.4	4.95	7.93	10.6	15.5	24.7	35.4	46.0	64.4	80.0	120	174	270	377	
63	1500	24	8.31	13.6	17.7	27.6	44.7	63.9	82.0	116	149	215	314	478	670	
	1000	16	5.61	9.03	11.8	18.4	29.8	42.6	54.7	77.4	99.2	144	210	320	448	
	750	12	4.19	6.78	8.83	13.9	22.3	32.0	41.1	58.0	74.4	108	158	240	337	
71	1500	21	7.75	12.3	17.4	22.0	34.2	45.6	67.3	91.8	130	194	272	438	613	
	1000	14	5.16	8.21	11.6	14.7	23.3	31.4	47.7	61.1	92.2	130	182	294	410	
	750	10.5	3.87	6.16	8.69	11.0	17.6	23.5	36.3	45.9	71.0	97.9	137	220	308	
80	1500	18.8	6.85	10.8	16.5	22.7	31.9	50.3	65.2	94.6	119	177	252	388	549	
	1000	12.5	4.56	7.17	10.9	15.1	22.7	33.5	45.7	65.1	79.1	118	171	259	368	
	750	9.4	3.42	5.38	8.22	11.4	17.8	25.8	34.2	48.8	59.3	88.6	128	194	276	
86.5	1500	17.3	6.40	9.61	14.8	17.7	28.2	38.3	55.9	72.7	112	155	228	316	468	
	1000	11.6	4.27	6.41	9.86	11.8	18.9	25.5	38.9	48.5	79.3	103	152	211	313	
	750	8.67	3.21	4.81	7.40	8.86	14.2	19.1	29.2	36.4	59.5	77.6	114	158	235	
95.7	1500	15.7	5.78	8.26	12.1	16.1	26.1	35.6	52.3	69.5	101	143	202	279	420	
	1000	10.4	3.86	5.51	8.05	10.7	17.4	23.8	36.0	46.4	70.2	95.6	134	186	281	
	750	7.84	2.90	4.14	6.13	8.07	13.0	17.8	27.0	34.8	52.7	71.7	101	139	211	
106	1500	14.2	5.24	7.70	10.77	14.6	23.3	32.1	47.9	61.1	92.4	127	185	257	386	
	1000	9.43	3.49	5.13	7.18	9.70	15.5	21.4	32.5	40.7	63.2	85.0	124	172	258	
	750	7.08	2.63	3.86	5.38	7.27	11.6	16.0	24.4	30.6	47.4	63.7	92.8	129	193	
117	1500	12.8	4.71	6.73	9.86	13.1	20.9	28.2	43.9	54.4	85.9	115	169			REFER TO AGNEE
	1000	8.55	3.14	4.48	6.58	8.74	14.0	18.9	29.3	36.3	58.1	76.6	113			
	750	6.41	2.37	3.37	4.93	6.55	10.4	14.1	21.9	27.2	43.6	57.4	84.6			
130	1500	11.5	3.74	6.01	8.28	12.7	16.8	24.5	31.6	45.5	61.8	99.0	130			
	1000	7.69	2.49	4.01	5.52	8.54	11.1	16.4	21.0	30.3	41.1	66.0	86.9			
	750	5.77	1.89	3.01	4.14	6.40	8.39	12.3	15.7	22.8	30.9	49.6	65.2			

For higher SIZES - refer to AGNEE. Nominal ratios are shown. Interpolate for other input speeds.

THERMAL RATINGS (KW)																
Nominal Ratio	Input Speed rpm	Unit Size														
		140	160	180	200	225	250	280	315	355	400	450	500	560	630	710
Units with Cooling Coils +																
25.5 to 40	1500 to 1000 750	42	54	60	79	91	228	244	439	490	722	782	1240	1380	1630	2150
		42	53	60	70	90	229	245	430	474	674	720	1230	1370	1620	2130
		41	53	59	78	89	230	246	426	466	653	685	1220	1360	1610	2110
45 to 130	1500 to 1000 750	39	50	55	74	90	218	229	420	427	608	626	1090	1260	1520	2030
		39	49	55	74	89	219	230	422	425	592	611	1080	1250	1510	2020
		39	48	54	73	88	219	231	422	426	587	599	1070	1240	1500	2010
Units with Fan and Cooling Coils +																
25.5 to 40	1500 to 1000 750				93	121	240	260	459	518	760	830	1240	1750	2130	2750
					94	123	238	255	442	490	696	745	1230	1740	2120	2730
					96	126	236	253	435	478	668	703	1220	1730	2110	2710

Full Load Efficiency - 97.5% (approx.)

+ Based on cooling water temperature 20 degree Celsius.

Cooling coils not available for vertical units.



AGNEE Series H

Helical and Bevel Helical Gear Boxes



TYPE H4-H4SF																	
QUADRUPLE REDUCTION UNITS - PARALLEL SHAFTS MECHANICAL AND THERMAL CAPACITIES KW																	
MECHANICAL CAPACITIES (KW)																	
Nominal Ratio	Input Speed rpm	Nominal Output Speed rpm	Unit Size														
			140	160	180	200	225	250	280	315	355	400	450	500	560	630	710
106	1500	14.15	5.3	8.5	12.6	15	20.0	35.6	44.6	62.7	75.3	95.0	153	267	378	505	REFER TO AGNEE
	1000	9.43	3.5	5.6	8.4	10	13.3	23.7	29.7	41.8	50.2	63.3	102	178	252	337	
	750	7.08	2.65	4.25	6.3	7.5	10	17.8	22.3	31.35	37.7	47.5	76.5	134	189	253	
117	1500	12.82	4.8	7.7	11.3	13.3	18.5	31.0	40.8	53.9	70.8	88.3	141	243	336	449	
	1000	8.55	3.2	5.1	7.5	8.9	12.3	20.6	27.2	35.9	47.2	58.9	94	162	224	299	
	750	6.41	2.4	3.85	5.65	6.65	9.25	15.5	20.4	26.9	35.4	44.2	70.5	122	168	225	
130	1500	11.54	4.3	6.9	10.1	12.2	16.5	28.0	36.9	49.0	60.8	78.6	127	218	308	400	
	1000	7.69	2.8	4.6	6.7	8.13	11.0	18.6	24.6	32.6	40.5	52.4	84.7	145	205	267	
	750	5.77	2.15	3.45	5.05	6.1	8.25	14.0	18.5	24.5	30.4	39.3	63.5	109	154	200	
144	1500	10.42	3.9	6.2	9.0	11.0	15.2	26.1	33.4	46.1	58.0	71.1	112	196	279	376	
	1000	6.94	2.6	4.1	6.0	7.3	10.1	17.4	22.3	30.7	38.7	47.4	74.7	131	186	251	
	750	5.21	1.95	3.1	4.5	5.5	7.6	13.0	16.7	23.0	29	35.6	56	98	140	188	
159	1500	9.43	3.5	5.6	8.1	10.3	14.2	23.7	31.0	41.8	53.9	66.1	105	182	257	342	
	1000	6.29	2.3	3.7	5.4	6.9	9.5	15.8	20.7	27.8	35.9	44.1	70	121	171	228	
	750	4.72	1.75	2.8	4.05	5.15	7.1	11.85	15.5	20.9	27	33.1	52.5	91	129	171	
176	1500	8.52	3.2	5.0	7.2	9.3	13.2	21.4	28.1	37.7	48.1	61.6	98	163	229	300	
	1000	5.68	2.1	3.3	4.8	6.2	8.8	14.2	18.7	25.1	32.1	41.1	65.3	109	153	200	
	750	4.26	1.6	2.5	3.6	4.7	6.6	10.7	14.1	18.85	24.1	30.8	49	82	115	150	
195	1500	7.69	2.8	4.5	6.5	8.6	11.9	19.3	25.5	34.1	43.0	54.9	88	148	210	276	
	1000	5.13	1.8	3.0	4.3	5.7	7.9	12.8	17	22.7	28.7	36.6	58.7	99	140	184	
	750	3.85	1.4	2.25	3.25	4.3	6.0	9.65	12.8	17.0	21.5	27.5	44	74	105	138	
215	1500	6.97	2.5	4.0	5.8	7.7	10.9	17.3	23.1	30.7	39.1	50.5	80	135	192	249	
	1000	4.65	1.6	2.6	3.8	5.1	7.3	11.5	15.4	20.4	26.1	33.7	53.3	90	128	166	
	750	3.48	1.25	2.0	2.9	3.9	5.5	8.65	11.6	15.35	19.6	25.3	40	68	96	125	
238	1500	6.30	2.3	3.7	5.2	6.8	9.8	15.8	20.7	27.9	35.6	44.2	72.3	121	173	225	
	1000	4.20	1.5	2.4	3.4	4.5	6.5	10.5	13.8	18.6	23.7	29.5	48.2	81	115	150	
	750	3.15	1.15	1.85	2.6	3.4	4.9	7.9	10.35	13.95	17.8	22.1	36.1	61	87	113	
264	1500	5.68	2.09	3.3	4.6	6.3	8.8	14.3	18.9	25.3	31.8	40.7	64.8	104	152	200	
	1000	3.78	1.39	2.2	3.0	4.2	5.8	9.5	12.6	16.8	21.2	27.1	43.2	69	101	133	
	750	2.84	1.04	1.65	2.3	3.1	4.4	7.15	9.4	12.6	15.9	20.3	32.4	52	76	100	
For higher SIZES - refer to AGNEE. Nominal ratios are shown. Interpolate for other input speeds.																	

THERMAL RATINGS (KW)																	
Nominal Ratio	Input Speed rpm	Unit Size															
		140	160	180	200	225	250	280	315	355	400	450	500	560	630	710	
Units without Fan																	
106 to 657	1500	15.2	20.3	25.3	32.0	-	-	86.7	-	-	-	22.19	246	311	407	515	
	1000	14.1	18.2	23.2	32.3	39.6	51.4	61.7	82.3	98.4	127.8	158.7	242	308	400	507	
	750	13.1	17.1	21.2	26.4	32.3	41.1	49.9	64.6	79.3	102.9	127.8	238	304	392	496	
Full Load Efficiency - 97.5% (approx.)																	



AGNEE Series H

Helical and Bevel Helical Gear Boxes



TYPE H4-H4SF																	
QUADRUPLE REDUCTION UNITS - PARALLEL SHAFTS MECHANICAL AND THERMAL CAPACITIES KW																	
MECHANICAL CAPACITIES (KW)																	
Nominal Ratio	Input Speed rpm	Nominal Output Speed rpm	Unit Size														
			140	160	180	200	225	250	280	315	355	400	450	500	560	630	710
292	1500	5.13	1.88	2.98	4.18	5.7	8.0	13.0	17.3	22.9	29.8	37.0	59.2	96	139	179	
	1000	3.42	1.25	1.98	2.78	3.8	5.3	8.6	11.5	15.2	19.8	24.6	39.4	64	93	119	
	750	2.56	0.94	1.49	2.09	2.8	4.0	6.5	8.65	11.45	14.9	18.5	29.6	48	70	90	
323	1500	4.64	1.69	2.68	3.70	5.2	7.3	9.0	15.8	21.1	27.1	33.6	54.1	90	126	170	
	1000	3.09	1.12	1.78	2.46	3.4	4.8	6.0	10.5	14.1	18.0	22.4	36.0	60	84	113	
	750	2.32	0.84	1.34	1.35	2.6	3.65	4.5	7.9	10.5	13.5	16.8	27.0	45	63	85	
358	1500	4.19	1.52	2.41	3.35	4.7	6.6	8.2	14.3	19.2	24.5	30.6	48.8	83	107	148	
	1000	2.79	1.01	1.60	2.23	3.1	4.4	5.46	9.5	12.7	16.3	20.4	32.5	55	71	99	
	750	2.09	0.76	1.20	1.67	2.35	3.3	4.1	7.15	9.6	12.2	15.3	24.4	42	54	74	
396	1500	3.78	1.37	2.17	3.0	4.3	5.9	7.4	12.8	17.4	22.1	27.5	44.2	72	101	136	
	1000	2.52	0.9	1.4	2.0	2.8	3.9	4.92	8.5	11.5	14.7	18.3	29.4	48	67	91	
	750	1.89	0.685	1.08	1.50	2.15	3.95	3.69	6.4	8.7	11.0	13.7	22.1	36	51	68	
438	1500	3.42	1.23	1.95	2.69	2.3	3.8	4.50	7.6	10.5	13.3	18.5	25.6	67	95	122	
	1000	2.28	0.82	1.30	1.79	1.5	2.5	3.00	5.0	7.0	8.8	12.3	17.0	45	63	81	
	750	1.71	0.61	0.97	1.34	1.15	2.9	2.25	3.8	5.25	6.6	9.2	12.8	34	48	61	
485	1500	3.09	1.10	1.76	2.41	2.1	3.6	4.23	7.0	9.7	11.7	16.9	23.1	60	85	REFER TO AGNEE	
	1000	2.06	0.73	1.17	1.60	1.4	2.4	2.82	4.6	6.4	7.8	11.2	15.4	40	57		
	750	1.54	0.55	0.88	1.20	1.05	1.8	2.11	3.5	4.85	5.8	8.4	11.5	30	43		
536	1500	2.79	1.0	1.58	2.15	2.5	3.1	4.0	6.3	8.4	10.9	15.1	21.0	51	77		
	1000	1.86	0.6	1.05	1.43	1.6	2.0	2.66	4.2	5.6	7.2	10.0	14	34	51.3		
	750	1.39	0.5	0.52	1.07	1.2	1.55	2.0	3.1	4.2	5.4	7.5	10.5	26	39		
594	1500	2.52	0.9	1.42	1.93	2.2	2.5	3.9	5.7	7.6	9.9	13.6	19.0	48	68		
	1000	1.68	0.6	0.94	1.28	1.4	1.6	2.6	3.8	5.0	6.6	9.0	12.6	32	45.3		
	750	1.26	0.45	0.71	0.96	1.1	1.25	1.95	2.85	3.8	4.9	6.8	9.5	24	34		
657	1500	2.28	0.8	1.28	1.72	1.8	2.4	3.7	5.4	7.1	9.2	12.8	17.8	47	67		
	1000	1.52	0.5	0.85	1.14	1.3	1.6	2.4	3.6	4.7	6.1	8.5	11.8	31	45		
	750	1.14	0.4	0.64	0.86	0.9	1.2	1.85	2.7	3.55	4.6	6.4	8.9	24	34		
For higher SIZES - refer to AGNEE. Full Load Efficiency - 96.5% (approx.)																	



AGNEE Series H

Helical and Bevel Helical Gear Boxes



TYPE B2-B2SF														
DOUBLE REDUCTION UNITS - RIGHT ANGLE SHAFTS - MECHANICAL AND THERMAL CAPACITIES KW														
MECHANICAL CAPACITIES (KW)														
Nominal Ratio	Input Speed rpm	Nominal Output Speed rpm	Unit Size											
			140	160	180	200	225	250	280	315	355	400	450	500
5.06	1500	296	75.9	114	150	224	322	450	618	830*	1117*	1666*	2048*	REFER AGNEE
	1000	198	50.6	75.6	111	150	215	300	411	553	744	1135	1542	
	750	148	38.0	56.7	84.7	113	161	224	308	415	558	854	1179	
5.60	1500	268	72.5	112	148	224	306	450	618	830	1117*	1614*	2048*	
	1000	179	50.4	75.4	108	150	215	300	411	553	744	1135	1542	
	750	134	38.0	56.7	84.3	113	161	224	308	415	558	854	1179	
6.20	1500	242	71.6	107	143	224	288	450	618	830	1117*	1479*	2048*	
	1000	161	50.3	75.0	105	150	215	300	411	553	744	1115	1542	
	750	121	38.0	56.7	82.6	113	161	224	308	415	558	854	1179	
6.86	1500	219	67.4	100	137	212	277	415	618	830	1066*	1417*	2048*	
	1000	146	49.4	73.7	100	145	190	282	411	553	744	1073	1542	
	750	109	37.9	56.6	78.3	111	143	215	308	415	558	834	1179	
7.59	1500	198	63.0	93.6	125	181	252	378	502	713	965	1314*	1862*	
	1000	132	46.1	68.6	91.4	121	173	253	334	475	643	939	1313	
	750	98.8	36.0	53.4	71.3	90.5	129	190	250	357	482	704	984	
8.40	1500	179	55.7	85.0	118	162	231	320	440	606	848	1210	1676	
	1000	119	38.4	58.7	80.8	108	157	213	293	404	566	821	1156	
	750	89.3	29.5	45.3	62.3	81.1	118	159	219	303	424	616	869	
9.30	1500	161	51.2	76.9	105	139	209	278	381	542	714	1066	1490	
	1000	108	35.4	53.1	72.1	92.4	140	185	254	361	476	709	993	
	750	80.6	27.1	40.6	55.0	69.3	104	139	190	271	357	532	745	
10.3	1500	146	46.8	69.9	97.2	117	169	228	326	434	647	897	1345	
	1000	97.1	31.3	46.9	65.3	83	120	163	227	320	431	652	899	
	750	72.8	23.7	35.4	49.3	65.9	93.1	126	171	240	324	489	674	
For higher SIZES - refer to AGNEE. <i>Nominal ratios are shown. Interpolate for other input speeds.* Forced lubrication is necessary.</i>														

THERMAL CAPACITIES (KW)														
Nominal Ratio	Input Speed rpm	Unit Size												
		140	160	180	200	225	250	280	315	355	400	450	500	
Units Without Fan (Horizontal)														
5.06 to 9.30	1500 1000 750	40 41 42	52 52 53	64 64 65	79 80 81	99 100 106	122 124 125	153 177 189	201 241 258	292 328 318	373 454 443	425 584 581	Refer to AGNEE	
10.3 to 18.9	1500 1000 750	39 40 41	51 51 51	62 62 62	71 78 79	96 97 99	116 118 120	146 163 174	193 222 236	269 319 311	343 417 429	503 529 512	Refer to AGNEE	
Units With Fan Cooling (Horizontal)														
5.06 to 9.30	1500 1000 750	85 73 63	111 95 83	140 120 105	173 149 130	214 191 173	272 238 230	368 320 290	449 389 355	661 575 522	864 751 682	955 1092 976	Refer to AGNEE	
10.3 to 18.9	1500 1000 750	84 71 63	109 92 81	137 117 102	171 146 128	212 189 170	275 233 204	331 285 240	389 353 323	548 470 425	701 612 546	860 871 793	Refer to AGNEE	



AGNEE Series H

Helical and Bevel Helical Gear Boxes



TYPE B2-B2SF														
DOUBLE REDUCTION UNITS - RIGHT ANGLE SHAFTS - MECHANICAL AND THERMAL CAPACITIES KW														
MECHANICAL CAPACITIES (KW)														
Nominal Ratio	Input Speed rpm	Nominal Output Speed rpm	Unit Size											
			140	160	180	200	225	250	280	315	355	400	450	500
11.4	1500	132	40.1	64.5	88.6	108	155	209	300	401	577	827	1169	REFER AGNEE
	1000	87.7	28.0	45.0	61.9	71.7	105	144	200	276	385	556	780	
	750	65.8	21.1	33.9	46.8	53.8	78.8	108	150	207	289	418	586	
12.6	1500	119	35.5	57.5	78.1	93.4	134	187	257	351	493	729	1009	
	1000	79.4	24.7	40.2	54.5	62.6	89.6	125	171	234	329	486	673	
	750	59.5	18.5	29.9	40.5	47.0	67.2	93.5	128	176	246	364	505	
14.0	1500	107	30.9	46.7	65.2	80.7	115	158	217	305	446	656	933	
	1000	71.4	21.6	32.6	45.5	57.6	82.1	114	115	219	319	468	66	
	750	53.6	16.2	24.3	33.8	38.0	64.3	88.9	122	171	246	364	504	
15.4	1500	97.4	28.6	42.9	57.2	74.3	106	146	207	298	411	604	860	
	1000	64.9	20.0	30.0	40.0	52.3	75.5	104	143	200	283	413	573	
	750	48.7	14.8	22.3	29.8	39.2	58.4	80.7	109	150	212	309	430	
17.1	1500	87.8	24.0	37.9	52.0	62.4	96.4	119	178	242	323	462	663	
	1000	58.5	16.8	26.5	36.2	41.6	64.3	79.2	119	161	215	308	443	
	750	43.9	12.5	19.7	27.0	31.1	48.2	59.4	88.8	121	160	232	332	
18.9	1500	79.4	23.4	35.2	48.6	62.4	87.5	119	170	242	316	462	663	
	1000	52.9	16.4	24.5	33.9	41.6	58.3	116	116	161	210	308	443	
	750	39.7	12.2	18.2	25.2	31.1	43.8	86.5	86.5	121	157	232	332	
For higher SIZES - refer to AGNEE. Nominal ratios are shown. Interpolate for other input speeds.* Forced lubrication is necessary.														

THERMAL CAPACITIES (KW)													
Nominal Ratio	Input Speed rpm	Unit Size											
		140	160	180	200	225	250	280	315	355	400	450	500
Units with cooling coils* (Horizontal)													
5.06 to 9.30	1500 1000 750	106 106 105	135 135 134	152 151 151	169 169 169	242 238 235	588 533 507	679 611 571	1420 1270 1180	1590 1440 1340	2330 2170 2020	1960 1860 1740	Refer to AGNEE
10.3 to 18.9	1500 1000 750	101 100 100	129 128 127	145 145 144	161 161 160	238 235 233	437 423 414	471 449 440	990 896 849	1110 998 629	1680 1510 1400	1450 1310 1210	Refer to AGNEE
Units With Fan Cooling and cooling coils *(Horizontal)													
5.06 to 9.30	1500 1000 750	161 148 138	206 189 176	231 213 198	257 236 221	317 286 260	755 636 580	899 751 670	1720 1470 1320	1980 1700 1520	2820 2500 2270	2540 2240 2030	Refer to AGNEE
10.3 to 18.9	1500 1000 750	141 133 124	180 169 159	202 190 115	224 211 199	288 263 242	545 495 468	608 537 505	1190 1020 940	1380 1160 1050	2040 1740 1550	1890 1580 1400	Refer to AGNEE
Full load efficiency -97%, 8 Based on cooling water temperature 20° C													



AGNEE Series H

Helical and Bevel Helical Gear Boxes



TYPE B3-B3SF																	
TRIPLE REDUCTION UNITS - RIGHT ANGLE SHAFTS - MECHANICAL AND THERMAL CAPACITIES KW																	
MECHANICAL CAPACITIES (KW)																	
Nominal Ratio	Input Speed rpm	Nominal Output Speed rpm	Unit Size														
			140	160	180	200	225	250	280	315	355	400	450	500	560	630	710
14.0	1500	107	27.6	45.9	69.8	93.7	127	191	256	332	529	688	965	2162	2165	2958	-
	1000	71.4	18.4	34.3	50.0	62.5	84.9	128	171	231	352	459	643	987	1448	1968	2541*
	750	53.6	13.9	26.1	38.0	46.9	63.7	106*	127	174	264	344	482	740	1086	1479	1903
15.4	1500	97.4	27.6	45.5	68.3	93.7	127	191	256	332	515	643	955	1479	2162*	2958*	-
	1000	64.9	18.4	34.3	50.0	62.5	84.9	128	171	231	344	429	643	987	1448*	1968*	2541*
	750	48.7	13.9	26.1	38.0	46.9	63.7	106*	127	174	268	323	482	740	1086	1479	1903
17.1	1500	87.7	27.6	45.5	68.3	93.7	127	191	256	332	451	620	909	1479	2162*	2958*	-
	1000	58.5	18.4	33.3	46.0	50.6	78.1	128	171	231	314	426	606	987	1448*	1968*	2541*
	750	43.9	13.9	25.9	35.0	38.0	69.7	106*	127	174	236	320	455	740	1086	1479	1903
18.9	1500	79.4	27.6	45.5	64.3	75.9	116	178	251	332	437	620	852	1479	2162*	2958*	-
	1000	52.9	18.4	33.3	48.4	50.6	77.3	120	168	231	314	426	591	987	1448*	1968*	2541*
	750	39.7	13.9	25.9	37.8	38	69.7	94.9	126	174	236	320	443	740	1086	1479	1903
20.9	1500	71.8	27.6	41.3	59.4	65.9	95.3	148	205	281	385	537	749	1241*	1903*	2545*	-
	1000	47.8	18.4	27.5	39.6	49.5	68.6	105	138	203	285	396	508	830	1271	1698*	2250*
	750	35.9	13.9	20.7	29.7	37.1	56.0	82.8	103	151	200	276	381	623	950	1272	1686
23.2	1500	64.7	25.7	39.1	54.7	65.9	95.3	148	205	281	385	537	749	1075	1582	2212	-
	1000	43.1	17.1	26.0	36.5	49.5	68.6	105	138	203	285	396	508	754	1114	1489*	2145*
	750	32.3	12.8	19.5	27.4	37.1	56.0	82.8	103	151	200	276	381	54	843	1127	1613*
25.6	1500	58.6	23.5	35.9	49.5	60.8	86.0	131	181	252	339	459	647	980*	1417	2069*	-
	1000	39.1	15.6	24.0	32.9	43.0	63.3	96.1	121	169	226	314	431	699	1008	1479*	1979*
	750	29.3	11.8	18.0	24.7	32.3	50.2	72.1	90.5	126	170	224	324	548	791	1127	1541
28.4	1500	52.8	20.2	28.9	43.8	55.0	79.6	131	166	236	305	450	620	901*	1303*	1903*	-
	1000	35.2	13.4	19.3	29.2	37.1	53.1	89.8	114	157	206	302	417	643	926	1354	1823*
	750	26.4	10.1	14.5	21.8	29.2	40.6	67.9	86.6	120	159	234	328	504	726	1018	1386
31.4	1500	47.8	18.4	26.5	39.5	49.8	72.2	120	151	214	276	407	561	830*	1200*	1748*	-
	1000	31.8	12.3	17.6	26.4	34.2	48.1	80.5	104	143	190	279	385	587	853	1219	1614
	750	23.9	9.21	13.2	19.8	26.9	37.3	60.4	78.5	111	145	212	302	440	661	911	1386
34.7	1500	43.2	17.2	23.2	36.3	44.9	63.4	103	151	201	257	366	553	752*	1127*	1531*	-
	1000	28.8	11.5	13.4	23.7	29.6	42.3	69.7	101	134	182	245	384	504	756	1028	1046
	750	21.6	8.60	11.6	18.1	22.1	31.8	52.3	7507	101	139	139	290	378	569	774	1055

For higher SIZES - refer to AGNEE. Full Load Efficiency - 96.5% (approx.)

THERMAL CAPACITIES (KW)																
Nominal Ratio	Input Speed rpm	Unit Size														
		140	160	180	200	225	250	280	315	355	400	450	500	560	630	710
Units without Fan																
14.0 TO 63.8	1500	30	39	48	59	76	95	122	154	185	225	279	355	440	580	720
	1000	29	37	46	55	71	89	112	148	178	220	270	340	420	560	700
	750	27	32	43	52	67	86	109	142	170	217	270	330	410	555	690
Units with Fan																
14.0 TO 95.	1500	56	86	110	138	173	216	276	347	424	536	712	720	930	1200	1520
	1000	53	71	91	114	147	180	230	294	355	436	555	650	850	1100	1410
	750	45	60	78	97	128	158	200	260	311	394	490	590	800	1010	1300
Full Load Efficiency - 97% (approx.)																

Full Load Efficiency - 97% (approx.)



AGNEE Series H

Helical and Bevel Helical Gear Boxes



TYPE B3-B3SF																	
TRIPLE REDUCTION UNITS - RIGHT ANGLE SHAFTS - MECHANICAL AND THERMAL CAPACITIES KW																	
MECHANICAL CAPACITIES (KW)																	
Nominal Ratio	Input Speed rpm	Nominal Output Speed rpm	Unit Size														
			140	160	180	200	225	250	280	315	355	400	450	500	560	630	710
38.4	1500	39.1	15.3	21.5	32.9	40.2	57.6	94.2	138	182	237	333	507	685	1027*	1396*	-
	1000	28.0	10.2	14.4	22.0	26.9	38.4	63.3	91.7	122	168	223	350	458	687	935	1281
	750	19.5	7.86	10.8	16.5	20.2	28.9	47.5	68.8	91.4	126	168	264	343	517	703	963
42.5	1500	35.3	13.7	19.6	28.9	36.6	52.6	86.5	125	167	218	303	460	624	936	1272*	-
	1000	23.5	9.10	13.0	19.3	24.5	35.0	57.7	83.4	111	153	203	320	418	627	852	1166
	750	17.6	6.83	9.77	14.5	18.3	26.3	43.2	62.6	83.3	115	152	240	313	471	641	878
47.1	1500	31.8	12.2	17.7	26.1	33.1	47.5	78.2	113	150	201	274	414	529	801	1028	-
	1000	21.2	8.13	11.8	17.7	22.1	31.7	52.5	75.4	100	139	183	276	354	536	689	1033
	750	15.9	6.10	8.84	13.3	16.6	23.8	39.1	56.6	75.3	104	138	207	266	402	518	777
52.1	1500	28.8	10.7	15.5	24.0	24.0	29.8	42.6	70.1	102	134	183	247	351	724	931	-
	1000	19.2	7.09	10.3	16.0	16.0	19.9	28.4	46.8	67.7	90.0	125	165	234	485	624	935
	750	14.4	5.31	7.76	12.0	12.0	14.9	21.3	35.1	50.8	67.6	93.5	124	240	364	469	703
57.7	1500	26.0	9.36	14.7	21.5	27.0	38.6	63.5	87.4	122	161	217	305	430	652	837	-
	1000	17.3	6.25	9.79	14.4	18.0	25.7	42.4	58.2	81.6	107	145	203	287	435	561	840
	750	13.0	4.66	7.34	10.8	13.4	19.3	31.9	43.7	61.1	80.7	109	152	216	327	422	632
63.8	1500	23.5	8.84	13.2	18.5	24.0	36.8	50.4	73.2	101	141	207	297	390	590	759	-
	1000	15.7	5.91	8.82	12.3	15.9	25.5	35.3	51.9	67.5	100	140	200	260	395	508	753
	750	11.8	4.43	6.62	9.24	12.0	13.1	26.5	39.2	50.7	78.1	103	150	195	297	382	565
70.6	1500	21.2	8.18	10.2	16.8	22.2	31.7	41.3	65.8	96.4	122	173	242	359	543	676	-
	1000	14.2	5.46	6.83	11.2	14.8	21.1	27.6	43.9	64.3	81.3	116	161	240	362	452	701
	750	10.6	4.10	5.13	8.38	11.2	15.8	20.7	32.9	48.2	60.9	86.5	121	180	272	339	526
78.2	1500	19.2	6.69	9.71	14.4	19.7	31.1	42.5	61.9	83.1	119	172	223	315	462	624	-
	1000	12.8	4.47	6.48	9.58	13.1	20.9	28.6	41.6	55.4	79.2	114	149	210	308	418	584
	750	9.59	3.35	4.86	7.19	9.83	15.7	21.5	31.1	41.6	59.4	85.0	112	157	232	313	438
86.5	1500	17.3	6.09	9.14	12.4	17.7	28.2	38.2	56.4	74.0	111	155	223	REFER TO AGNEE			
	1000	11.6	4.06	6.09	8.27	11.8	18.9	25.5	39.5	49.4	78.4	103	149				
	750	8.67	3.05	4.57	6.21	8.87	14.2	18.9	29.6	37.0	58.9	77.6	112				
95.7	1500	15.7	5.63	8.15	10.2	16.2	22.6	31.7	42.4	62.6	83.2	131	175	REFER TO AGNEE			
	1000	10.4	3.75	5.45	6.78	11.5	15.1	22.1	28.3	41.4	55.5	89.0	117				
	750	7.84	2.81	4.08	5.08	8.63	11.3	16.6	21.2	31.0	41.6	66.8	87.8				

For higher SIZES - refer to AGNEE. * forced Lubrication is necessary

THERMAL CAPACITIES (KW)

Nominal Ratio	Input Speed rpm	Unit Size														
		140	160	180	200	225	250	280	315	355	400	450	500	560	630	710
Units with cooling coils																
14.0 TO 78.2	1500	64	88	115	131	148	295	324	619	698	995	860	1240	1380	1630	2150
	1000	64	87	114	129	146	289	318	590	651	912	788	1230	1370	1620	2130
	750	63	85	111	127	145	287	314	576	627	866	749	1220	1360	1810	2110
Units with Fan cooling and cooling coils *																
86.5 TO 95.7	1500	58	78	103	117	131	270	273	506	524	737	622	-	-	-	-
	1000	58	76	99	117	129	269	272	500	509	718	607	-	-	-	-
	750	57	73	98	115	128	268	271	499	508	699	596	-	-	-	-
14.0 to 63.8	1500	72	102	133	151	193	322	360	669	764	1080	968	1540	1750	2130 2120	2750
	1000	71	97	127	145	181	308	341	621	693	967	856	1530	1740		2730
	750	69	94	123	140	171	301	332	599	656	905	795	1520	1730		2110



AGNEE Series H

Helical and Bevel Helical Gear Boxes



TYPE B4-B4SF																	
QUADRAPLE REDUCTION UNITS - RIGHT ANGLE SHAFTS - MECHANICAL AND THERMAL CAPACITIES KW																	
MECHANICAL CAPACITIES (KW)																	
Nominal Ratio	Input Speed rpm	Nominal Output Speed rpm	Unit Size														
			140	160	180	200	225	250	280	315	355	400	450	500	560	630	710
86.5	1500	17.34	6.85	10.55	15.70	18.34	25.65	42.93	55.22	74.73	34.55	119	191	330	445	608	
	1000	11.56	4.43	7.03	10.45	12.22	17.10	28.62	36.81	49.82	63.00	79.30	127.3	220	297	405	
	750	8.67	3.32	5.27	7.85	9.17	12.82	21.46	27.61	37.36	47.30	59.50	95.5	165	222	304	
95.7	1500	15.67	5.98	9.49	14.0	16.75	23.53	39.00	50.67	68.16	85.75	108	174	303	414	562	
	1000	10.45	3.98	6.32	9.33	11.16	15.68	26.00	33.78	45.44	57.16	72	116	202	276	375	
	750	7.83	2.98	4.74	7.00	8.37	11.76	19.50	25.33	34.80	42.80	54	87	151	207	281	
106	1500	14.15	5.39	8.54	12.62	15.90	22.05	36.46	47.80	64.23	81.62	102	163	267	379	505	
	1000	9.43	3.59	5.69	8.41	10.61	14.70	24.31	31.86	42.82	54.40	68	109	178	253	337	
	750	7.08	2.69	4.27	6.31	7.95	11.02	18.23	23.90	32.11	40.80	51	82	133	190	252	
117	1500	12.82	4.85	7.68	11.27	13.57	18.97	31.80	40.81	55.22	69.85	87.50	142	243	336	449	
	1000	8.55	3.23	5.12	7.51	9.05	12.65	21.20	27.20	36.81	46.56	58.30	94.6	162	224	300	
	750	6.41	2.42	3.84	5.63	6.78	9.48	15.90	20.40	27.61	34.90	43.70	71	121	168	225	
130	1500	11.54	4.36	6.92	10.10	12.40	17.38	28.72	37.31	50.24	63.17	79.60	127	218	308	400	
	1000	7.69	2.90	4.61	6.73	8.27	11.58	19.15	24.87	33.50	42.11	53.0	85	145	205	267	
	750	5.77	2.18	3.46	5.05	6.20	8.69	14.36	18.65	25.12	31.50	39.80	63.50	109	154	200	
144	1500	10.42	3.93	6.22	9.05	11.66	16.22	26.82	35.19	47.27	60	75.2	121	196	279	376	
	1000	6.94	2.62	4.14	6.03	7.77	10.81	17.88	23.46	31.51	40	50.1	81	131	186	251	
	750	5.21	1.96	3.11	4.52	5.83	8.11	13.41	17.73	23.63	30	37.6	60.5	98	140	188	
159	1500	9.43	3.53	5.60	8.11	10.57	14.73	24.27	31.69	42.82	54.38	68.10	109	181	257	342	
	1000	6.29	2.35	3.73	5.40	7.05	9.82	16.18	21.12	28.55	36.00	45.40	73	121	171	228	
	750	4.72	1.76	2.80	4.05	5.28	7.36	12.13	15.84	21.41	27.19	34.0	54.5	91	128	171	
176	1500	8.52	3.18	5.05	7.26	9.56	13.25	21.94	28.72	38.69	49.08	34.6	98	163	229	300	
	1000	5.68	2.12	3.36	4.84	6.37	8.83	14.62	19.15	25.79	32.72	41.05	65	109	153	200	
	750	4.26	1.59	2.52	3.63	4.78	6.62	10.97	14.36	19.35	24.54	30.80	49	82	115	150	
195	1500	7.69	2.86	4.54	6.49	8.61	11.98	19.82	25.86	34.98	44.31	55.5	89	148	209	276	
	1000	5.13	1.90	3.02	4.32	5.74	7.98	13.21	17.24	23.32	29.5	37.0	59	99	139	184	
	750	3.58	1.43	2.27	3.24	4.30	5.99	9.91	12.93	17.49	22.1	27.7	44.5	74	105	138	
For higher SIZES - refer to AGNEE. * forced Lubrication is necessary																	

THERMAL CAPACITIES (KW)																
Nominal Ratio	Input Speed rpm	Unit Size														
		140	160	180	200	225	250	280	315	355	400	450	500	560	630	710
Units without Fans																
86.5 To 438	1500	14	18	23	53	69	86	111	140	168	204	253	323	400	527	654
	1000	13	17	21	50	64	81	101	134	162	200	241	309	382	509	636
	750	12	15	19	47	61	18	99	129	153	197	235	300	373	504	627



AGNEE Series H

Helical and Bevel Helical Gear Boxes



TYPE B4-B43SF																	
QUADRAPLE REDUCTION UNITS - RIGHT ANGLE SHAFTS - MECHANICAL AND THERMAL CAPACITIES KW																	
MECHANICAL CAPACITIES (KW)																	
Nominal Ratio	Input Speed rpm	Nominal Output Speed rpm	Unit Size														
			140	160	180	200	225	250	280	315	355	400	450	500	560	630	710
215	1500	6.97	2.57	4.08	5.82	7.75	10.81	17.81	23.21	31.48	40.07	51.9	80	135	192	249	
	1000	4.65	1.71	2.72	3.88	5.16	7.20	11.87	15.47	20.98	26.71	54.6	53	90	128	166	
	750	3.48	1.28	2.04	2.91	3.87	5.40	8.90	11.60	15.74	20.03	26.0	40	67.5	96	125	
238	1500	6.30	2.32	3.68	5.21	7.00	9.82	16.22	21.30	28.62	36.36	45.5	73	121	173	225	
	1000	4.20	1.54	2.45	3.47	4.66	6.54	10.81	14.20	19.08	24.24	30.3	49	81	115	150	
	750	3.15	1.16	1.84	2.60	3.50	4.91	8.11	10.65	14.30	18.18	22.3	36.5	60.5	87	113	
264	1500	5.68	2.09	3.31	4.66	6.43	8.92	14.73	19.29	25.97	33.18	41.5	66	104	152	200	
	1000	3.78	1.39	2.20	3.10	4.28	5.95	9.82	12.86	17.31	22.12	27.6	44	69	101	133	
	750	2.84	1.04	1.65	2.33	3.21	4.46	7.36	9.64	12.98	16.59	20.7	33	52	76	100	
292	1500	5.13	1.88	2.98	4.18	5.82	8.06	13.35	17.49	23.53	30	37.4	60	96	139	179	
	1000	3.42	1.25	1.98	2.78	3.88	5.37	8.90	11.66	15.68	20	24.9	40	64	93	119	
	750	2.56	0.94	1.49	2.10	2.91	4.03	6.67	8.74	11.76	15	18.7	30	48	70	90	
323	1500	4.64	1.69	2.68	3.74	4.70	5.18	6.19	10.36	14.52	18.0	24.9	34.3	90	126		
	1000	3.09	1.12	1.78	2.49	3.13	3.45	4.12	6.90	9.68	12.0	16.6	22.8	60	84		
	750	2.32	0.84	1.34	1.87	2.35	2.59	3.9	5.18	7.26	9.0	12.5	17.1	45	63		
358	1500	4.19	1.52	2.41	3.35	4.3	4.69	5.59	9.40	13.14	16.43	22.7	31.4	83	110		
	1000	2.79	1.01	1.60	2.23	2.86	3.12	3.72	6.26	8.76	10.95	15.1	21.0	55	73		
	750	2.09	0.76	1.20	1.67	2.15	2.35	2.35	4.70	6.57	8.21	11.3	15.7	41.5	55		
396	1500	3.78	1.37	2.17	3.00	3.80	4.25	5.05	83.50	11.87	14.84	20.6	28.3	72	101		
	1000	2.52	0.91	1.44	2.00	2.53	2.83	3.36	5.66	7.91	9.89	13.7	18.8	48	67		
	750	1.89	0.68	1.08	1.50	1.90	2.12	2.52	4.25	5.93	7.41	10.3	14.1	36	51		
438	1500	63.42	1.23	1.95	2.69	3.5	3.88	4.61	7.71	10.81	13.46	18.5	25.7	60	92		
	1000	2.28	0.82	1.30	1.90	2.3	2.58	3.07	5.14	1.20	8.97	12.3	17.1	40	61		
	750	1.71	0.61	0.97	0.97	1.75	1.94	2.30	3.85	5.40	6.73	9.25	12.85	30	36		
For higher SIZES - refer to AGNEE. * forced Lubrication is necessary																	



AGNEE Series H Helical and Bevel Helical Gear Boxes

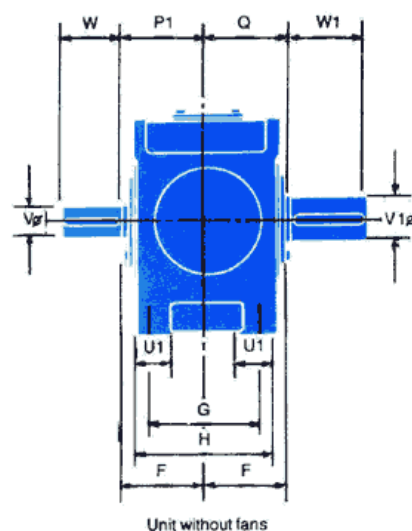
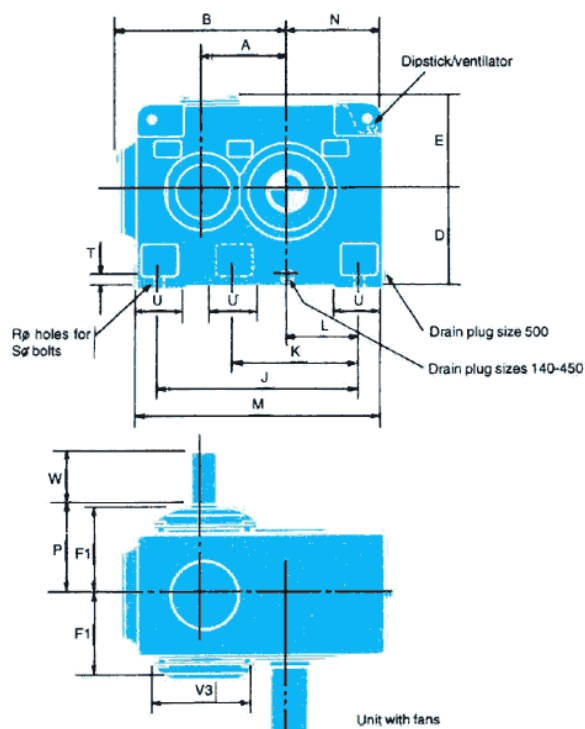
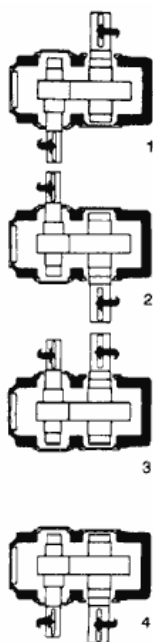


Type H1-Foot Mounted Units

Single Reduction - Parallel Shafts - Principal Dimensions (mm)

DIMENSIONS

SHAFT HANDING / ROTATION



OPPOSITE ROTATION AVAILABLE

Unit Size	A	B	D	E	F	F1	G	H	J	K	L	M	N	P
140	140	299	160	174	135	180	190	224	335	-	120	425	165	185
160	160	342	180	194	155	200	225	260	375	-	135	475	185	205
180	180	382	200	214	170	220	250	290	425	-	147.5	530	200	225
200	200	408	225	239	180	230	265	310	475	-	165	595	225	235
225	225	465	250	267	203	255	280	340	530	-	185	660	250	260
250	250	515	280	298	215	275	300	370	600	-	210	740	280	280
280	280	570	315	327	235	300	335	410	670	-	240	820	315	305
315	315	651	355	350	256	325	375	450	750	-	270	920	355	330
355	355	711	400	405	286	360	425	500	865	530	305	1055	400	365
400	400	808	450	456	320	400	475	560	1000	600	350	1200	450	405
450	450	908	500	497	360	445	530	640	1120	670	395	1330	500	450
500	500	1015	560	624	410	505	630	720	1250	750	440	1490	560	515



AGNEE Series H

Helical and Bevel Helical Gear Boxes



Type H1-Foot Mounted Units													
Single Reduction - Parallel Shafts - Principal Dimensions (mm)													
DIMENSIONS													
Unit Size	P1	Q	R	S	T	U	U1	V	V1	V3	W	W1	
140	140	140	14	4x12	20	100	60	45	70	120	110	140	
160	160	160	18	4x16	20	110	70	50	75	125	110	140	
180	180	175	18	4x16	25	120	85	55	85	135	110	170	
200	200	185	22	4x20	25	125	90	60	90	296	140	170	
225	225	205	22	4x20	30	130	95	70	100	320	140	210	
250	250	220	26	4x24	30	140	115	80	110	350	170	210	
280	280	240	26	4x24	35	160	125	90	125	400	170	210	
315	315	260	33	4x30	40	180	130	100	140	440	210	250	
355	355	290	33	6x30	50	200	155	110	160	500	210	300	
400	400	325	39	6x36	55	220	175	125	180	550	210	300	
450	450	365	39	6x36	60	250	195	140	200	606	250	350	
500	500	420	45	4x42	65	280	220	160	220	660	300	350	



AGNEE Series H

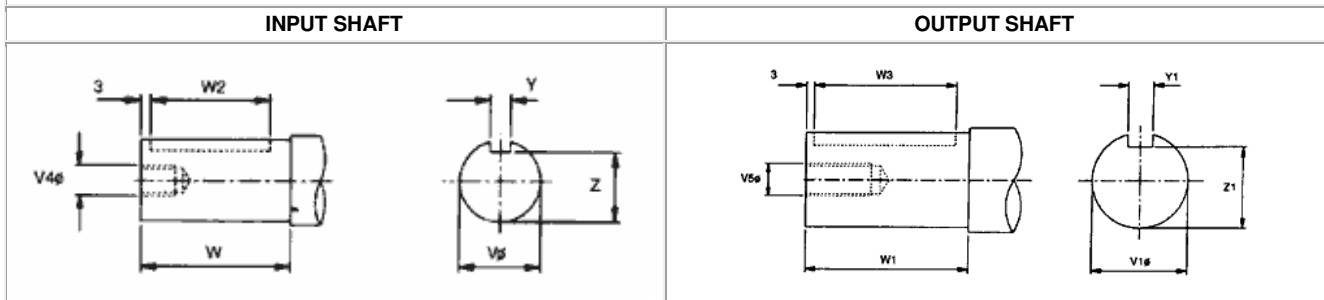
Helical and Bevel Helical Gear Boxes



Type H1-Foot Mounted Units

Single Reduction - Parallel Shafts - Principal Dimensions (mm)

DIMENSIONS



Unit Size	Input Shafts						Output Shafts					
	V	V4	W	W2	Y	Z	V1	V5	W1	W3	Y1	Z1
140	45,018	M16x32	110	102	13,982	39,5	70,030	M24x50	140	130	19,978	62,5
	45,002				13,939	39,3	70,011				19,926	62,3
160	50,018	M16x32	110	102	13,982	44,5	75,030	M24x50	140	130	19,978	67,5
	50,002				13,939	44,3	75,011				19,926	67,3
180	55,030	M16x32	110	102	15,982	49,0	85,035	M24x50	170	160	21,978	76,0
	55,011				15,939	48,8	85,013				21,926	75,8
200	60,030	M24x50	140	130	17,982	53,0	90,035	M24x50	170	160	24,978	81,0
	60,011				17,939	52,8	90,013				24,926	80,8
225	70,030	M24x50	140	130	19,978	62,5	100,035	M24x50	210	200	27,978	90,0
	70,011				19,926	62,3	100,013				27,926	89,8
250	80,030	M24x50	170	160	21,978	71,0	110,035	M30x60	210	200	27,978	100,0
	80,011				21,926	70,8	110,013				27,926	99,8
280	90,035	M24x50	170	160	24,978	81,0	125,040	M30x60	210	200	31,974	114,0
	90,013				24,926	80,8	125,015				31,912	113,8
315	100,035	M24x50	210	200	27,978	90,0	140,040	M30x60	250	240	35,974	128,0
	100,013				27,926	89,8	140,015				35,912	127,7
355	110,035	M30x60	210	200	27,978	100,0	160,040	M42x80	300	290	39,974	147,0
	110,013				27,926	99,8	160,015				39,912	146,7
400	125,040	M30x60	210	200	31,974	114,0	180,040	M42x80	300	290	44,974	165,0
	125,015				31,912	113,8	180,015				44,912	164,7
450	140,040	M30x60	250	240	35,974	128,0	200,046	M42x80	350	340	44,974	185,0
	140,015				35,912	127,7	200,017				44,912	184,7
500	160,040	M42x80	300	290	39,974	147,0	200,046	M56x105	350	340	49,974	203,0
	160,015				39,912	146,7	220,017				49,912	202,7



AGNEE Series H Helical and Bevel Helical Gear Boxes

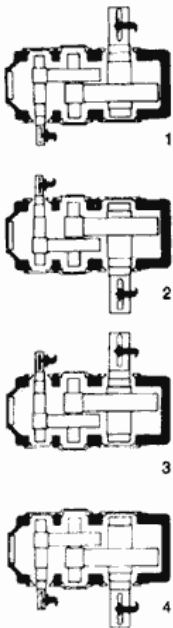


Type H2-Foot Mounted Units

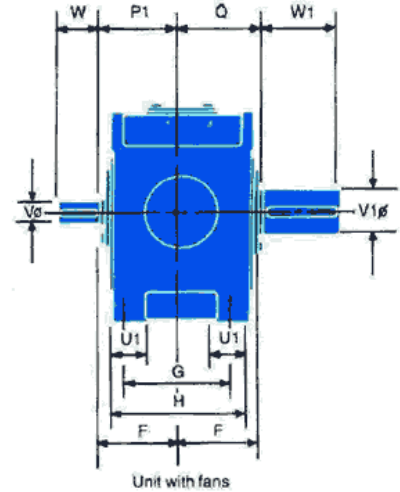
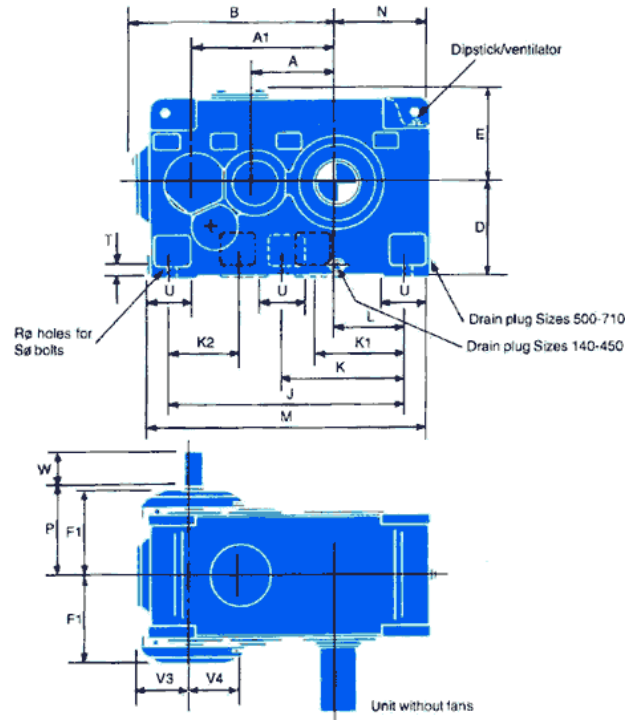
DOUBLE Reduction - Parallel Shafts - Principal Dimensions (mm)

DIMENSIONS

SHAFT HANDING / ROTATION



OPPOSITE
ROTATION
AVAILABLE



Unit Size	A	A1	B	D	E	F	F1	G	H	J	K	K1	L	M	N	P
140	140	240	364	160	174	135	180	190	224	405	-	-	120	495	165	185
160	160	272	406	180	194	155	200	225	260	450	-	-	135	550	185	205
180	180	305	449	200	214	173	220	250	290	505	-	-	147.5	610	200	225
200	200	340	499	225	239	180	230	265	310	560	-	-	165	680	225	235
225	225	385	567	250	267	203	255	280	340	630	-	-	185	760	250	260
250	250	430	632	280	298	215	275	300	370	710	-	-	210	850	280	280
280	280	480	687	315	327	237	300	335	410	800	-	-	240	950	315	305
315	315	540	780	355	350	256	325	375	450	900	-	-	270	1070	355	330
355	355	605	870	400	405	286	360	425	500	1005	530	-	305	1195	400	365
400	400	680	972	450	456	320	400	475	560	1160	600	-	350	1360	450	405
450	450	765	1101	500	497	360	445	530	640	1300	670	-	395	1510	500	450
500	500	855	1225	560	624	410	500	630	720	1460	750	-	440	1700	560	510
560	560	960	1375	630	679	435	525	670	770	1650	-	560	505	1900	630	535
630	630	1080	1545	710	754	480	575	750	860	1860	-	630	575	2130	710	585
710	710	1210	1735	800	850	550	650	850	980	2090	-	710	655	2380	800	660



AGNEE Series H Helical and Bevel Helical Gear Boxes



Type H2-Foot Mounted Units

DOUBLE Reduction - Parallel Shafts - Principal Dimensions (mm)

DIMENSIONS

Unit Size	P1	Q	R	S	T	U	U1	V	V1	V3	W	W1
140	140	140	14	4x12	20	100	60	32	70	105	80	140
160	160	160	18	4x16	20	110	70	35	75	108	80	140
180	175	175	18	4x16	25	120	85	38	85	120	80	170
200	185	185	22	4x20	25	125	90	38	90	130	80	170
225	205	205	22	4x20	30	130	95	45	100	140	110	210
250	220	220	26	4x24	30	140	115	55	110	155	110	210
280	240	240	26	4x24	35	160	125	65	125	170	140	210
315	260	260	33	4x30	40	180	130	75	140	190	140	250
355	290	290	33	6x30	50	200	155	85	160	214	170	300
400	325	325	39	6x36	55	220	175	90	180	245	170	300
450	365	365	39	6x36	60	250	195	100	200	265	210	350
500	420	420	45	8x42	65	280	220	110	220	250	210	350
560	445	445	45	8x42	70	320	240	125	240	275	210	410
630	490	490	52	8x48	75	350	280	140	280	303	250	470
710	560	560	52	8x48	80	370	320	160	320	330	300	470

See Sheet 2 of HD-210 for shaft and keyway details.

Ventilators is located on top cover, sizes 500 to 710.

E is over ventilator on these sizes, and dipsticks position is as shown

Sizes 200 to 315 have 4 facing.

U Sizes 355 to 500 have 6 facings and sizes 560 to 710 have 8.



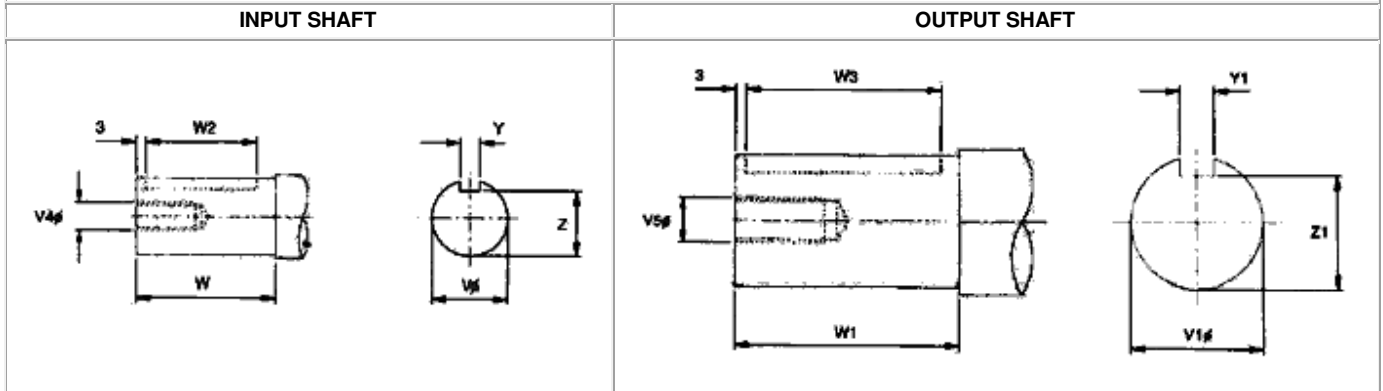
AGNEE Series H Helical and Bevel Helical Gear Boxes



Type H2-Foot Mounted Units

Double Reduction - Parallel Shafts - Principal Dimensions (mm)

DIMENSIONS



Unit Size	Input Shafts For Ratio 11.4/1 to 26.5/1						Output Shafts					
	V	V4	W	W2	Y	Z	V1	V5	W1	W3	Y1	Z1
140	32,018	M8x18	80	73	9,985	27,0	70,030	M24x50	140	130	19,978	62,5
	32,002				9,949	26,8	70,011				19,926	62,3
160	35,018	M8x18	80	73	9,985	30,0	75,030	M24x50	140	130	19,978	67,5
	35,002				9,949	29,8	75,011				19,926	67,3
180	38,018	M16x32	80	73	9,985	33,0	85,035	M24x50	170	160	21,978	76,0
	38,002				9,949	32,8	85,013				21,926	75,8
200	38,018	M16x32	80	73	9,985	33,0	90,035	M24x50	170	160	24,978	81,0
	38,002				9,949	32,8	90,013				24,926	80,8
225	45,018	M16x32	110	102	13,982	39,5	100,035	M24x50	210	200	27,978	90,0
	45,002				13,939	39,3	100,013				27,926	89,8
250	55,030	M24x50	110	102	15,982	49,0	110,035	M30x60	210	200	27,978	100,0
	55,011				15,939	48,8	110,013				27,926	99,8
280	65,030	M24x50	140	130	17,982	58,0	125,040	M30x60	210	200	31,974	114,0
	65,011				17,939	57,8	125,015				31,912	113,8
315	75,030	M24x50	140	130	19,978	67,5	140,040	M30x60	250	240	35,974	128,0
	75,011				19,926	67,3	140,015				35,912	127,7
355	85,035	M24x50	170	160	21,978	76,0	160,040	M42x80	300	290	39,974	147,0
	85,013				21,926	75,8	160,015				39,912	146,7
400	90,035	M24x50	170	160	24,978	81,0	180,040	M42x80	300	290	44,974	165,0
	90,013				24,926	80,8	180,015				44,912	164,7
450	100,035	M24x50	210	200	27,978	90,0	200,046	M42x80	350	340	44,974	185,0
	100,013				27,926	89,8	200,017				44,912	184,7
500	110,035	M30x60	210	200	27,978	100,0	200,046	M56x105	350	340	49,974	203,0
	110,013				27,926	99,8	220,017				49,912	202,7
560	125,040	M30x60	210	200	31,974	114,0	240,046	M56x105	410	400	55,968	220,0
	125,015				31,912	113,8	240,017				55,894	219,7
630	140,040	M30x60	250	240	35,974	128,0	280,052	M56x105	470	460	62,968	260,0
	140,015				35,912	127,7	280,020				62,894	259,7
710	160,040	M42x80	300	290	39,974	147,0	320,057	M56x105	470	460	69,968	298,0
	160,015				39,912	146,7	320,021				69,894	297,7



AGNEE Series H

Helical and Bevel Helical Gear Boxes



Type H2-Foot Mounted Units												
Double Reduction - Parallel Shafts - Principal Dimensions (mm)												
DIMENSIONS												
Unit Size	Input Shafts For Ratios 5.6/1 to 10.3/1						Output Shafts					
	V	V4	W	W2	Y	Z	V1	V5	W1	W3	Y1	Z1
140	32,018 32,002	M8x18	80	73	9,985 9,949	27,0 26,8	70,030 70,011	M24x50	140	130	19,978 19,926	62,5 62,3
160	38,018 38,002	M16x32	80	73	9,985 9,949	33,0 32,8	75,030 75,011	M24x50	140	130	19,978 19,926	67,5 67,3
180	45,018 45,002	M16x32	110	102	13,982 13,939	39,5 39,3	85,035 85,013	M24x50	170	160	21,978 21,926	76,0 75,8
200	50,018 50,002	M16x32	110	102	13,982 13,939	44,5 44,3	90,035 90,013	M24x50	170	160	24,978 24,926	81,0 80,8
225	55,030 55,011	M24x50	110	102	15,982 15,939	49,0 48,8	100,035 100,013	M24x50	210	200	27,978 27,926	90,0 89,8
250	65,030 65,011	M24x50	140	130	17,982 17,939	58,0 57,8	110,035 110,013	M30x60	210	200	27,978 27,926	100,0 99,8
280	75,030 75,011	M24x50	140	130	19,978 19,926	67,5 67,3	125,040 125,015	M30x60	210	200	31,974 31,912	114,0 113,8



AGNEE Series H Helical and Bevel Helical Gear Boxes

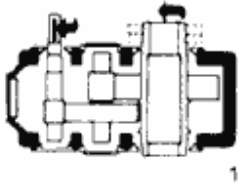


Type H2SF-Foot/Shaft Mounted Units

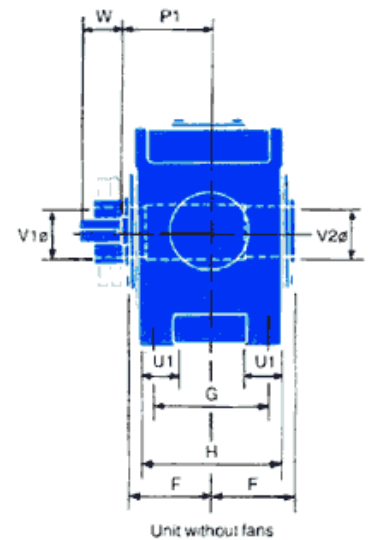
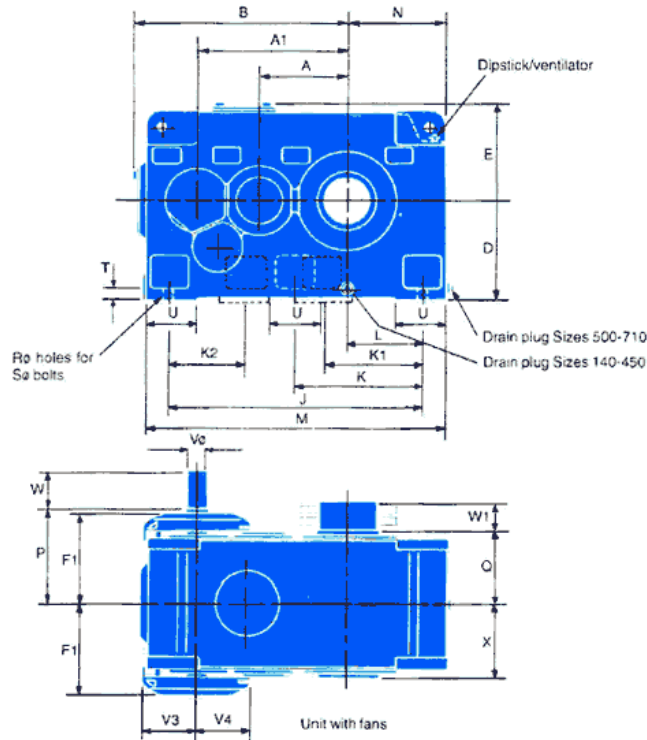
DOUBLE Reduction - Parallel Shafts - Principal Dimensions (mm)

DIMENSIONS

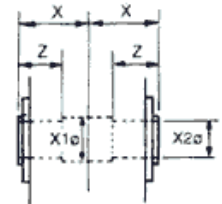
SHAFT HANDING / ROTATION



OPPOSITE ROTATION
AVAILABLE



Unit without fans



Output Bore
Sizes 160 & 140 only

Unit Size	A	A1	B	D	E	F	F1	G	H	J	K	K1	K2	L	M	N	P
140	140	240	364	160	174	135	180	190	224	405	-	-	-	120	495	165	185
160	160	272	406	180	194	155	200	225	260	450	-	-	-	135	550	185	205
180	180	305	449	200	214	173	220	250	290	505	-	-	-	147.5	610	200	225
200	200	340	499	225	239	180	230	265	310	560	-	-	-	165	680	225	235
225	225	385	567	250	267	203	255	280	340	630	-	-	-	185	760	250	260
250	250	430	632	280	298	215	275	300	370	710	-	-	-	210	850	280	280
280	280	480	687	315	327	237	300	335	410	800	-	-	-	240	950	315	305
315	315	540	780	355	350	256	325	375	450	900	-	-	-	270	1070	355	330
355	355	605	870	400	405	286	360	425	500	1005	530	-	-	305	1195	400	365
400	400	680	972	450	456	320	400	475	560	1160	600	-	-	350	1360	450	405
450	450	765	1101	500	497	360	445	530	640	1300	670	-	-	395	1510	500	450
500	500	855	1225	560	624	410	500	630	720	1460	750	-	-	440	1700	560	510
560	560	960	1375	630	679	435	525	67	770	1650	-	560	530	505	1900	630	535
630	630	1080	1545	710	754	480	575	750	860	1860	-	630	600	575	2130	710	585
710	710	1210	1735	800	850	550	650	850	980	2090	-	710	670	655	2380	800	660



AGNEE Series H Helical and Bevel Helical Gear Boxes



Type H2SF-Foot/Shaft Mounted Units

DOUBLE Reduction - Parallel Shafts - Principal Dimensions (mm)

DIMENSIONS

Unit Size	P1	Q	R	S	T	U	U1	V	V1	V2	V3	V6	W	W1	X	X1	X2	Z
140	140	-	14	4x12	20	100	60	32	-	-	105	110	80	-	140	76	75	75
160	160	-	18	4x16	20	110	70	35	-	-	108	115	80	-	160	86	85	85
180	175	175	18	4x16	25	120	85	38	85	90	120	125	80	65	175	-	-	-
200	185	185	22	4x20	25	125	90	38	95	100	130	148	80	70	185	-	-	-
225	205	205	22	4x20	30	130	95	45	115	120	140	160	110	80	205	-	-	-
250	220	220	26	4x24	30	140	115	55	125	130	155	175	110	90	220	-	-	-
280	240	240	26	4x24	35	160	125	65	140	145	170	200	140	105	240	-	-	-
315	260	260	33	4x30	40	180	130	75	160	165	190	220	140	110	260	-	-	-
355	290	290	33	6x30	50	200	155	85	170	175	214	250	170	130	290	-	-	-
400	325	325	39	6x36	55	220	175	90	190	200	245	275	170	150	325	-	-	-
450	365	365	39	6x36	60	250	195	100	220	230	265	303	210	160	365	-	-	-
500	420	420	45	6x42	65	280	220	110	250	260	250	250	210	185	420	-	-	-
560	445	445	45	8x42	70	320	240	125	290	300	275	275	210	200	445	-	-	-
630	490	490	52	8x48	75	350	280	140	330	340	303	303	250	220	490	-	-	-
710	560	560	52	8x48	80	370	320	160	360	370	330	330	300	230	560	-	-	-

Sizes 140 to 315 have 4 facings. Sizes 355 to 500 have 6 facings and sizes 560 to 710 have 8. Ventilators is located on top cover, sizes 500 to 710. E is over ventilator on these sizes, and dipsticks position is as shown



AGNEE Series H Helical and Bevel Helical Gear Boxes



Type H2SF –Foot/ Shaft Mounted Units												
Double Reduction - Parallel Shafts - Principal Dimensions (mm)												
DIMENSIONS												
INPUT SHAFT							OUTPUT SHAFT					
Unit Size	Input Shafts Ratios 11.4/1 to 25.6/1						Output Sleeve Bores					
	V	V4	W	W2	Y	Z	V1	V2	X1	X2	Z1	Y1
140	32,018 32,002	M8x20	80	73	9,985 9,949	27,0 26,8	-	-	76	75,030 75,011	80,1 79,9	20,026 19,974
160	35,018 35,002	M8x20	80	73	9,985 9,949	30,0 29,8	-	-	86	85,071 85,036	90,6 90,4	22,026 21,974
180	38,018 38,002	M16x32	80	73	9,985 9,949	33,0 32,8	85,035 85,000	90,047 90,012	-	-	-	-
200	38,018 38,002	M16x32	80	73	9,985 9,949	33,0 32,8	95,035 95,000	100,047 100,012	-	-	-	-
225	45,018 45,002	M16x32	110	102	13,982 13,939	39,5 39,3	115,035 115,000	120,047 120,012	-	-	-	-
250	55,030 55,011	M24x50	110	102	15,982 15,939	49,0 48,8	125,040 125,000	130,054 130,014	-	-	-	-
280	65,030 65,011	M24x50	140	130	17,982 17,939	58,0 57,8	140,040 140,000	145,054 145,014	-	-	-	-
315	75,030 75,011	M24x50	140	130	19,978 19,926	67,5 67,3	160,040 160,000	165,054 165,014	-	-	-	-
355	85,035 85,013	M24x50	170	160	21,978 21,926	76,0 75,8	170,040 170,000	175,054 175,014	-	-	-	-
400	90,035 90,013	M24x50	170	160	24,978 24,926	81,0 80,8	190,040 190,000	200,061 200,015	-	-	-	-
450	100,035 100,013	M24x50	210	200	27,978 27,926	90,0 89,8	220,046 220,000	230,061 230,015	-	-	-	-
500	110,035 110,013	M30x60	210	200	27,978 27,926	100,0 99,8	250,046 250,000	260,069 260,017	-	-	-	-
560	125,040 125,015	M30x60	210	200	31,974 31,912	114,0 113,8	290,052 290,000	300,069 300,017	-	-	-	-
630	140,040 140,015	M30x60	250	240	35,974 35,912	128,0 127,7	330,057 330,000	340,075 340,018	-	-	-	-
710	160,040 160,015	M42x80	300	290	39,974 39,912	147,0 145,7	360,057 360,000	370,075 370,018	-	-	-	-



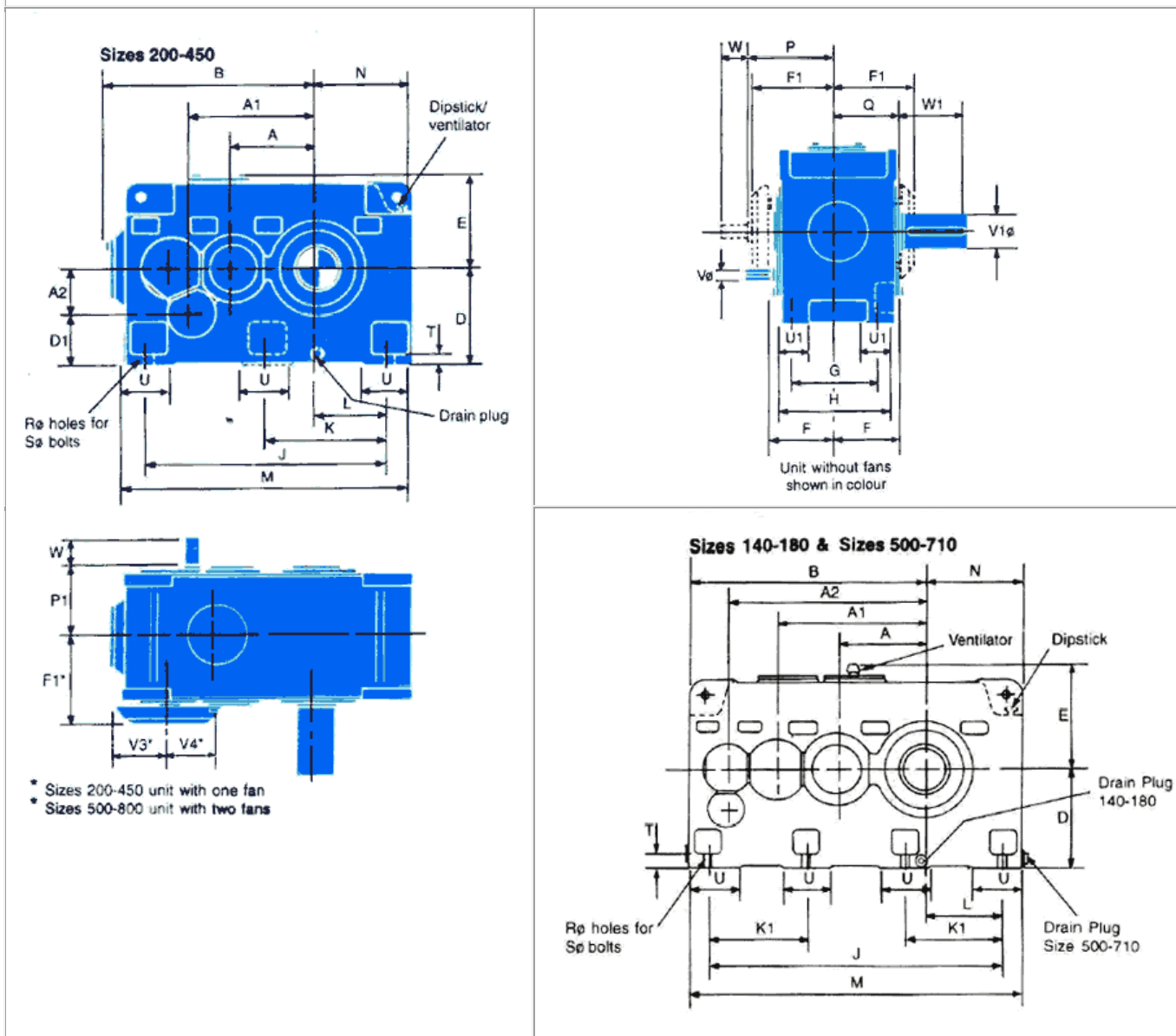
AGNEE Series H Helical and Bevel Helical Gear Boxes



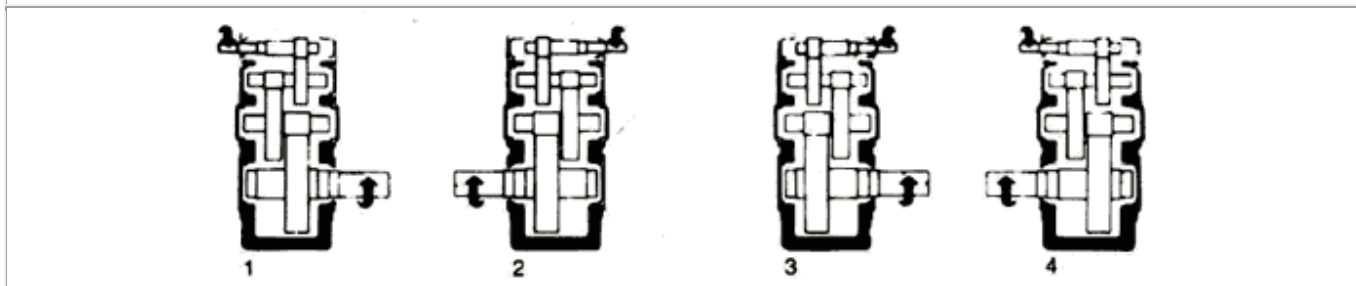
Type H3-Foot Mounted Units

TRIPLE Reduction - Parallel Shafts - Principal Dimensions (mm)

DIMENSIONS



SHAFT ROTATION





AGNEE Series H

Helical and Bevel Helical Gear Boxes



Type H3-Foot Mounted Units																
TRIPLE Reduction - Parallel Shafts - Principal Dimensions (mm)																
DIMENSIONS																
Unit Size	A	A1	A2	B	D	D1	E	F	F1*	G	H	J	K	K1	L	M
140	140	240	320	434	160		174	135	-	190	224	490	-	-	120	580
160	160	272	362	481	180	-	194	155	-	225	260	540	-	-	135	640
180	180	305	405	529	200	-	214	173	-	250	290	600	-	-	147.5	705
200	200	296	103	499	225	122	239	180	230	265	310	560	-	-	165	680
225	225	343.8	118	567	250	132	267	203	255	280	340	630	-	-	185	760
250	250	378	130	632	280	150	298	215	275	300	370	710	-	-	210	850
280	280	419.2	148	687	315	167	327	237	300	335	410	800	-	-	240	950
315	315	468	165	780	355	190	350	256	325	375	450	900	-	-	270	1070
355	355	536.8	188	870	400	212	405	286	360	425	500	1005	530	-	305	1195
400	400	596.7	209	972	450	241	456	320	400	475	560	1160	600	-	350	1360
450	450	679.7	235	1101	500	265	497	360	445	530	640	1300	670	-	395	1510
500	500	855	1135	1360	560	-	624	410	495	630	720	1680	-	560	440	1920
560	560	960	1275	1510	630	-	679	435	520	670	770	1890	-	630	505	2140
630	630	1080	1435	1690	710	-	754	480	570	750	860	2130	-	710	575	2400
710	710	1210	1610	1890	800	-	850	550	655	850	980	2400	-	800	655	2690
Unit Size	N	P	P1	Q	R	S	T	U	U1	V	V1	V3*	V4*	W	W1	
140	165	-	140	140	14	4x12	20	100	60	19	70	-	-	40	140	
160	185	-	160	160	18	4x16	20	110	70	22	75	-	-	50	140	
180	200	-	175	175	18	4x16	25	120	85	25	85	-	-	60	170	
200	225	-	185	185	22	4x20	25	125	90	28	90	130	148	60	170	
225	250	-	205	205	22	4x20	30	130	95	32	100	140	160	80	210	
250	280	-	220	220	26	4x24	30	140	115	38	110	155	175	80	210	
280	315	-	240	240	26	4x24	35	160	125	45	125	170	200	110	210	
315	355	-	260	260	33	4x30	40	180	130	50	140	190	220	110	250	
355	400	-	290	290	33	6x30	50	200	155	55	160	214	250	110	300	
400	450	-	325	325	39	6x36	55	220	175	65	180	245	275	140	300	
450	500	-	365	365	39	6x36	60	250	195	75	200	265	303	140	350	
500	560	505	420	420	45	8x42	65	280	220	90	220	200	200	170	350	
560	630	530	445	445	45	8x42	70	320	240	100	240	220	220	210	410	
630	710	580	490	490	52	8x48	75	350	280	110	280	250	250	210	470	
710	800	665	560	560	52	8x48	80	370	320	125	320	275	275	210	470	
*Fan can be fitted for ratios 20.9 to 70.6 only Ventilators is located on top cover, sizes 500 to 710. E is over ventilator on these sizes, and dipsticks position is as shown																
Sizes 140 to 315 have 4 facings Sizes 355 to 450 have 6 facings and sizes 500 to 710 have 8.																



AGNEE Series H

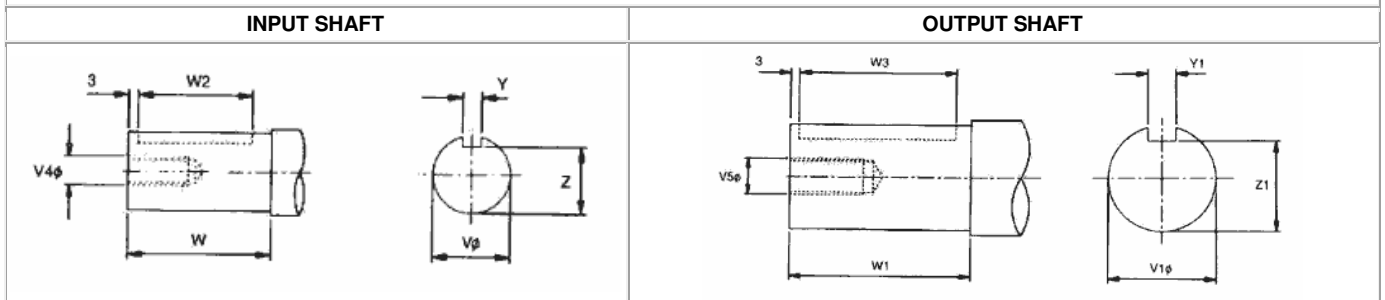
Helical and Bevel Helical Gear Boxes



Type H3-Foot Mounted Units

Triple Reduction - Parallel Shafts - Principal Dimensions (mm)

DIMENSIONS



Unit Size	Input Shafts Ratios 52.1 to 130						Output Shafts					
	V	V4	W	W2	Y	Z	V1	V5	W1	W3	Y1	Z1
140	19,009	M6x16	40	34	5,988	15,5	70,030	M24x50	140	130	19,978	62,5
	18,996				5,958	15,4	70,011				19,926	62,3
160	22,009	M6x16	50	43	5,988	18,5	75,030	M24x50	140	130	19,978	67,5
	21,996				5,958	18,4	75,011				19,926	67,3
180	25,009	M6x16	60	53	7,985	21,0	85,035	M24x50	170	160	21,978	76,0
	24,996				7,949	20,8	85,013				21,926	75,8
200	28,009	M8x18	60	53	7,985	24,0	90,035	M24x50	170	160	24,978	81,0
	27,996				7,949	23,8	90,013				24,926	80,8
225	32,018	M8x18	80	73	9,985	27,0	100,035	M24x50	210	200	27,978	90,0
	32,002				9,949	26,8	100,013				27,926	89,8
250	38,018	M16x32	80	73	9,985	33,0	110,035	M30x60	210	200	27,978	100,0
	38,002				9,949	32,8	110,013				27,926	99,8
280	45,018	M16x32	110	102	13,982	39,5	125,040	M30x60	210	200	31,974	114,0
	45,002				13,939	39,3	125,015				31,912	113,8
315	50,018	M16x32	110	102	13,982	44,5	140,040	M30x60	250	240	35,974	128,0
	50,002				13,939	44,3	140,015				35,912	127,7
355	55,030	M16x32	110	102	15,982	49,0	160,040	M42x80	300	290	39,974	147,0
	55,011				15,939	48,8	160,015				39,912	146,7
400	65,030	M24x50	140	130	17,982	58,0	180,040	M42x80	300	290	44,974	165,0
	65,011				17,939	57,8	180,015				44,912	164,7
450	75,030	M24x50	140	160	19,978	67,5	200,046	M42x80	350	340	44,974	185,0
	75,011				19,926	67,3	200,017				44,912	184,7
500	90,035	M24x50	170	160	24,978	81,0	200,046	M56x105	350	340	49,974	203,0
	90,013				24,926	80,8	220,017				49,912	202,7
560	100,035	M24x50	210	200	27,978	90,0	240,046	M56x105	410	400	55,968	220,0
	100,013				27,926	89,8	240,017				55,894	219,7
630	110,035	M30x60	210	200	27,978	100,0	280,052	M56x105	470	460	62,968	260,0
	110,013				27,926	99,8	280,020				62,894	259,7
710	125,040	M30x60	210	200	31,974	114,0	320,057	M56x105	470	460	69,968	298,0
	125,015				31,912	113,8	320,021				69,894	297,7



AGNEE Series H Helical and Bevel Helical Gear Boxes



Type H3-Foot Mounted Units												
Triple Reduction - Parallel Shafts - Principal Dimensions (mm)												
DIMENSIONS												
Unit Size	Input Shafts Ratios 25.5 to 45						Output Shafts					
	V	V4	W	W2	Y	Z	V1	V5	W1	W3	Y1	Z1
140	19,009 18,996	M6x16	40	34	5,988 5,958	15,5 15,4	70,030 70,011	M24x50	140	130	19,978 19,926	62,5 62,3
160	28,009 27,996	M8x18	60	53	7,985 7,949	24,0 23,8	75,030 75,011	M24x50	140	130	19,978 19,926	67,5 67,3
180	30,009 29,996	M8x18	80	53	7,985 7,949	24,0 23,8	85,035 85,013	M24x50	170	160	21,978 21,926	76,0 75,8
200	35,018 35,002	M8x18	80	53	9,985 9,949	27,0 26,8	90,035 90,013	M24x50	170	160	24,978 24,926	81,0 80,8
225	45,018 45,002	M16x32	80	73	9,985 9,949	33,0 32,8	100,035 100,013	M24x50	210	200	27,978 27,926	90,0 89,8
250	50,018 50,002	M16x32	110	102	13,982 13,939	44,5 44,3	110,035 110,013	M30x60	210	200	27,978 27,926	100,0 99,8
280	55,030 55,011	M16x32	110	102	15,982 15,939	49,0 48,8	125,040 125,015	M30x60	210	200	31,974 31,912	114,0 113,8
315	60,030 60,011	M16x32	140	102	15,982 15,939	49,0 48,8	140,040 140,015	M30x60	250	240	35,974 35,912	128,0 127,7
355	70,030 70,011	M24x50	140	130	17,982 17,939	58,0 57,8	160,040 160,015	M42x80	300	290	39,974 39,912	147,0 146,7



AGNEE Series H Helical and Bevel Helical Gear Boxes

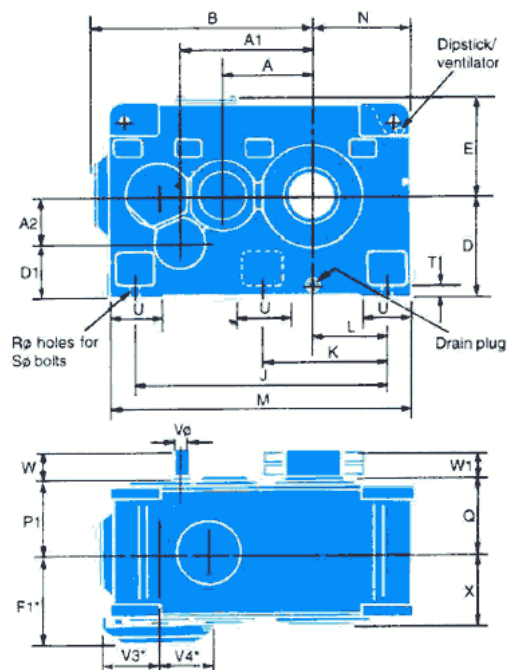


Type H3SF-Foot/Shaft Mounted Units

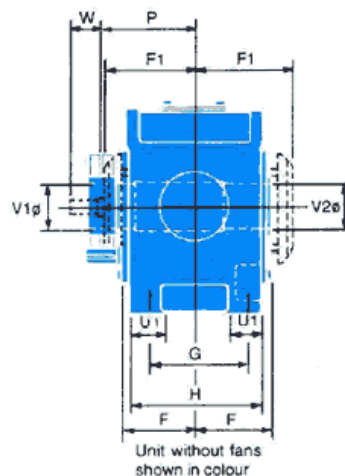
Triple Reduction - Parallel Shafts - Principal Dimensions (mm)

DIMENSIONS

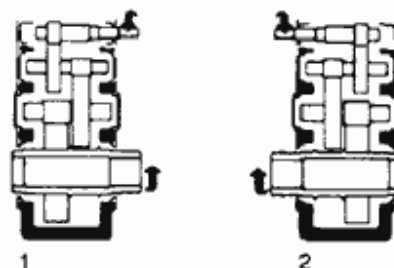
Sizes 200-450



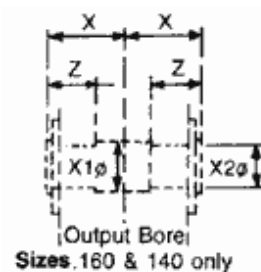
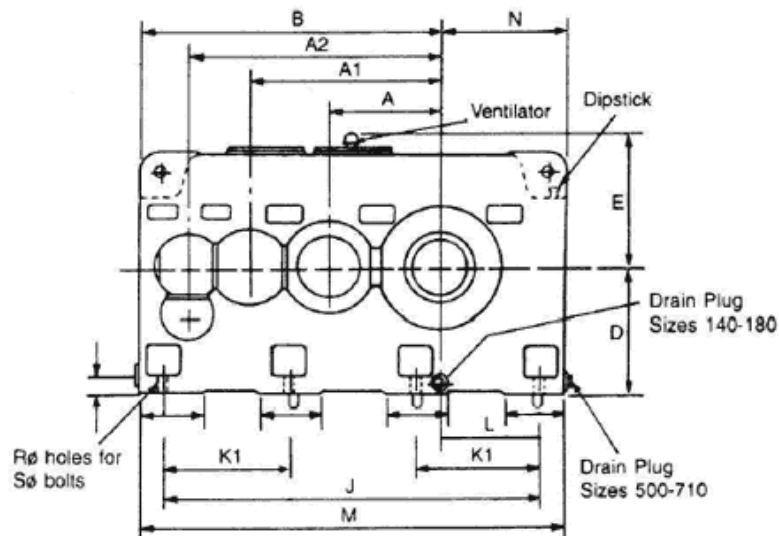
- * Sizes 140-180 unit without fan
- * Sizes 200-450 unit with one fan
- * Sizes 500-710 unit with two fans



SHAFT HANDING / ROTATION



Sizes 140-180 & Sizes 500-710





AGNEE Series H

Helical and Bevel Helical Gear Boxes



Type H3SF-Foot/Shaft Mounted Units																			
Triple Reduction - Parallel Shafts - Principal Dimensions (mm)																			
DIMENSIONS																			
Unit Size	A	A1	A2	B	D	D1	E	F	F1*	G	H	J	K	K1	L	M	N		
140	140	240	320	434	160		174	135	-	190	224	490	-	-	120	580	165		
160	160	272	362	481	180	-	194	155	-	225	260	540	-	-	135	640	185		
180	180	305	405	529	200	-	214	173	-	250	290	600	-	-	147.5	705	200		
200	200	296	103	499	225	122	239	180	230	265	310	560	-	-	165	680	225		
225	225	343.8	118	567	250	132	267	203	255	280	340	630	-	-	185	760	250		
250	250	378	130	632	280	150	298	215	275	300	370	710	-	-	210	850	280		
280	280	419.2	148	687	315	167	327	237	300	335	410	800	-	-	240	950	315		
315	315	468	165	780	355	190	350	256	325	375	450	900	-	-	270	1070	355		
355	355	536.8	188	870	400	212	405	286	360	425	500	1005	530	-	305	1195	400		
400	400	596.7	209	972	450	241	456	320	400	475	560	1160	600	-	350	1360	450		
450	450	679.7	235	1101	500	265	497	360	445	530	640	1300	670	-	395	1510	500		
500	500	855	1135	1360	560	-	624	410	495	630	720	1680	-	560	440	1920	560		
560	560	960	1275	1510	630	-	679	435	520	670	770	1890	-	630	505	2140	630		
630	630	1080	1435	1690	710	-	754	480	570	750	860	2130	-	710	575	2400	710		
710	710	1210	1610	1890	800	-	850	550	655	850	980	2400	-	800	655	2690	800		
Unit Size	P	P1	Q	R	S	T	U	U1	V	V1	V2	V3*	V4*	W	W1	X	X1	X2	Z
140	-	140	-	14	4x12	20	100	60	19	-	-	-	-	40	-	140	75	75	75
160	-	160	-	18	4x16	20	110	70	22	-	-	-	-	50	-	160	86	85	85
180	-	175	175	18	4x16	25	120	85	25	85	90	-	-	60	65	175	-	-	-
200	-	185	185	22	4x20	25	125	90	28	95	100	130	148	60	70	185	-	-	-
225	-	205	205	22	4x20	30	130	95	32	115	120	140	160	80	80	205	-	-	-
250	-	220	220	26	4x24	30	140	115	38	125	130	155	175	80	90	220	-	-	-
280	-	240	240	26	4x24	35	160	125	45	140	145	170	200	110	105	240	-	-	-
315	-	260	260	33	4x30	40	180	130	50	160	165	190	220	110	110	260	-	-	-
355	-	290	290	33	6x30	50	200	155	55	170	175	214	250	110	130	290	-	-	-
400	-	325	325	39	6x36	55	220	175	65	190	200	245	275	140	150	325	-	-	-
450	-	365	365	39	6x36	60	250	195	75	220	230	265	303	140	160	365	-	-	-
500	505	420	420	45	8x42	65	280	220	90	250	260	200	200	170	185	420	-	-	-
560	530	445	445	45	8x42	70	320	240	100	290	300	220	220	210	200	445	-	-	-
630	580	490	490	52	8x42	75	350	280	110	330	340	250	250	210	220	490	-	-	-
710	665	560	560	52	8x42	80	370	320	125	360	370	275	275	210	230	560	-	-	-

*Fan can be fitted for ratios 20.9 to 70.6 only

Ventilators is located on top cover, sizes 500 to 710.
E is over ventilator on these sizes, and dipsticks position is as shown Sizes 140 to 315 have 4 facing.



AGNEE Series H

Helical and Bevel Helical Gear Boxes



Type H3SF –Foot/ Shaft Mounted Units												
Triple Reduction - Parallel Shafts - Principal Dimensions (mm)												
DIMENSIONS												
INPUT SHAFT							OUTPUT SHAFT					
Unit Size	Input Shafts Ratios Ratio 25.5 to 45						Output Sleeve Bores					
	V	V4	W	W2	Y	Z	V1	V2	X1	X2	Z1	Y1
140	19,009 18,996	M6x16	40	34	5,988 5,958	15,5 15,4	-	-	76	75,060 75,030	80,1 79,9	20,026 19,974
160	28,009 27,996	M8x18	60	53	7,985 7,949	24,0 23,8	-	-	86	85,071 85,036	90,6 90,4	22,026 21,974
180	30,009 29,996	M8x18	80	53	7,985 7,949	24,0 23,8	85,035 85,013	90,047 90,012	-	-	-	-
200	35,018 35,002	M8x18	80	53	9,985 9,949	27,0 26,8	90,035 90,013	95,035 95,000	-	-	-	-
225	45,018 45,002	M16x32	80	73	9,985 9,949	33,0 32,8	100,035 100,013	115,035 115,000	-	-	-	-
250	50,018 50,002	M16x32	110	102	13,982 13,939	44,5 44,3	110,035 110,013	125,040 125,000	-	-	-	-
280	55,030 55,011	M16x32	110	102	15,982 15,939	49,0 48,8	125,040 125,015	140,040 140,000	-	-	-	-
315	60,030 60,011	M16x32	140	102	15,982 15,939	49,0 48,8	140,040 140,015	160,040 160,000	-	-	-	-
355	70,030 70,011	M24x50	140	130	17,982 17,939	58,0 57,8	160,040 160,015	170,040 170,000	-	-	-	-
400	65,030 65,011	M24x50	140	130	17,982 17,939	58,0 57,8	180,040 180,015	190,046 190,015	-	-	-	-
450	75,030 75,011	M24x50	140	160	19,978 19,926	67,5 67,3	200,046 200,017	220,046 220,000	-	-	-	-
500	90,035 90,013	M24x50	170	160	24,978 24,926	81,0 80,8	200,046 220,017	250,046 250,000	-	-	-	-
560	100,035 100,013	M24x50	210	200	27,978 27,926	90,0 89,8	240,046 240,017	290,052 290,000	-	-	-	-
630	110,035 110,013	M30x60	210	200	27,978 27,926	100,0 99,8	280,052 280,020	330,057 330,000	-	-	-	-
710	125,040 125,015	M30x60	210	200	31,974 31,912	114,0 113,8	320,057 320,021	360,057 360,000	-	-	-	-



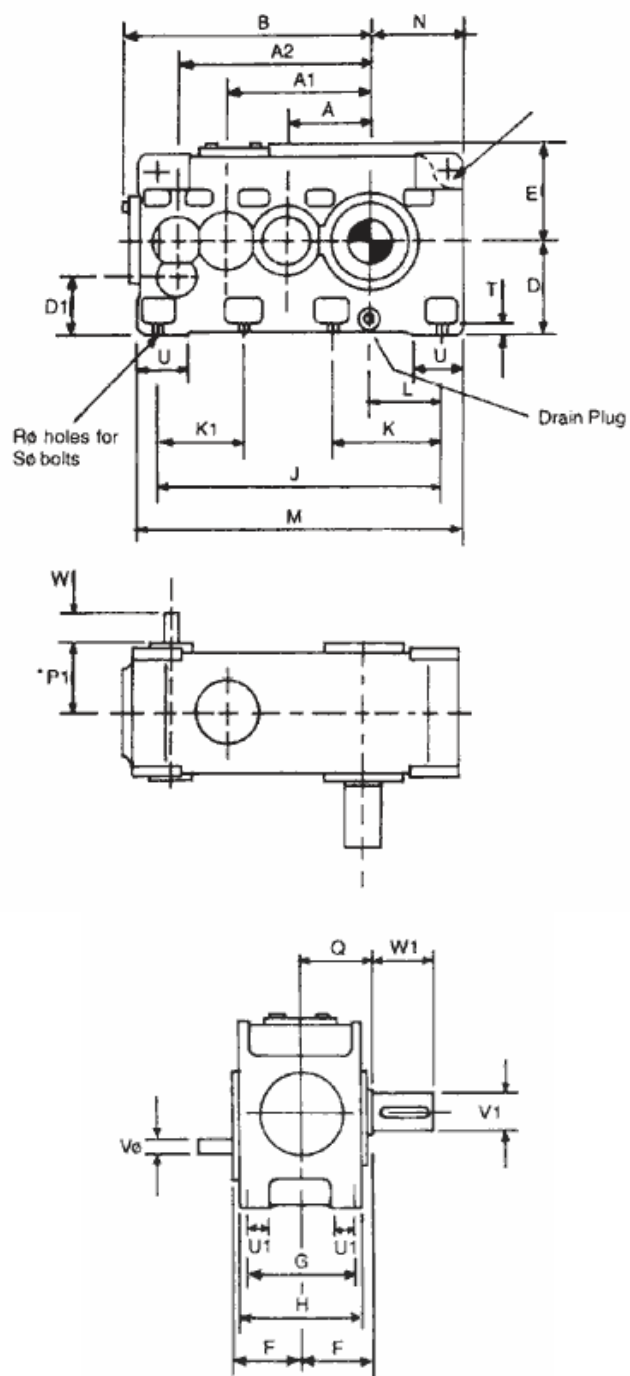
AGNEE Series H Helical and Bevel Helical Gear Boxes



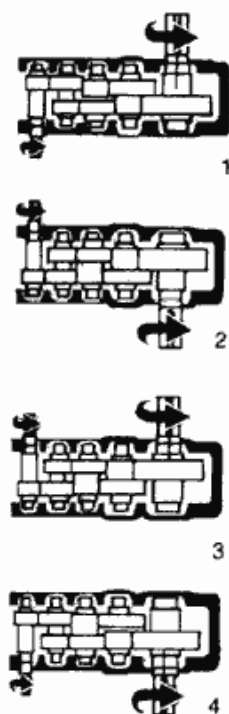
Type H4-Foot Mounted Units

Quadruple Reduction - Parallel Shafts - Principal Dimensions (mm)

DIMENSIONS



SHAFT HANDING / ROTATION





AGNEE Series H

Helical and Bevel Helical Gear Boxes



Type H4-Foot Mounted Units														
Quadruple Reduction - Parallel Shafts - Principal Dimensions (mm)														
DIMENSIONS														
Unit Size	A	A1	A2	B	D	D1	E	F	G	H	J	K	K1	L
140	140	240	320	434	160	89	174	135	190	224	490	-	-	120
160	160	272	362	481	180	109	194	155	225	260	540	-	-	135
180	180	305	405	529	200	120	214	173	250	290	600	-	-	147.5
200	200	340	452	586	225	135	239	180	265	310	670	-	-	165
225	225	385	510	654	250	150	267	203	280	340	750	-	-	185
250	250	430	570	729	280	168	298	215	300	370	850	-	-	210
280	280	480	640	822	315	190	327	237	335	410	950	475	-	240
315	315	540	720	922	355	215	350	256	375	450	1060	530	-	270
355	355	605	805	1012	400	240	405	286	425	500	1180	600	-	305
400	400	680	905	1145	450	270	456	320	475	560	1340	670	-	350
450	450	765	1015	1280	500	300	497	360	530	640	1500	750	-	395
500	500	855	1135	1360	560	335	624	410	630	720	1680	560	560	440
560	560	960	1275	1510	630	380	679	435	670	770	1890	630	630	505
630	630	1080	1435	1690	710	430	754	480	750	860	2130	710	710	575
710	710	1210	1610	1890	800	485	850	550	850	980	2400	800	800	655
Unit Size	M	N	P1	Q	R	S	T	U	U1	V	V1	W	W1	
140	580	165	140	140	14	4x12	20	100	60	18	70	40	140	
160	640	185	160	160	18	4x16	20	110	70	18	75	40	140	
180	705	200	175	175	18	4x16	25	120	85	18	85	40	170	
200	790	225	185	185	22	4x20	25	125	90	22	90	50	170	
225	880	250	205	205	22	4x20	30	130	95	25	100	60	210	
250	990	280	220	220	26	4x24	30	140	115	28	110	60	210	
280	1100	315	240	240	26	4x24	35	160	125	32	125	80	210	
315	1230	355	260	260	33	4x30	40	180	130	38	140	80	250	
355	1370	400	290	290	33	6x30	50	200	155	45	160	110	300	
400	1540	450	325	325	39	6x36	55	220	175	50	180	110	300	
450	1710	500	365	365	39	6x36	60	250	195	55	200	110	350	
500	1920	560	420	420	45	8x42	65	280	220	65	220	140	350	
560	2140	630	445	445	45	8x42	70	320	240	75	240	140	410	
630	2400	710	490	490	52	8x48	75	350	280	90	280	170	470	
710	2690	800	560	560	52	8x48	80	370	320	100	320	210	470	



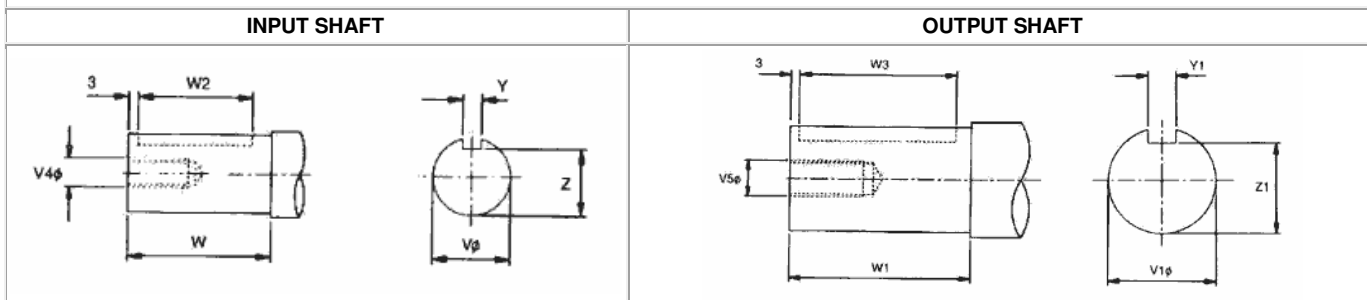
AGNEE Series H Helical and Bevel Helical Gear Boxes



Type H4-Foot Mounted Units

Quadruple Reduction - Parallel Shafts - Principal Dimensions (mm)

DIMENSIONS



Unit Size	Input Shafts Ratios 52.1 to 130						Output Shafts					
	V	V4	W	W2	Y	Z	V1	V5	W1	W3	Y1	Z1
140	18,008	M6x16	40	34	5,988	14,5	70,030	M24x50	140	130	19,978	62,5
	17,997				5,958	14,4	70,011				19,926	62,3
160	18,008	M6x16	40	34	5,988	14,5	75,030	M24x50	140	130	19,978	67,5
	17,997				5,958	14,4	75,011				19,926	67,3
180	18,008	M6x16	40	34	5,988	14,5	85,035	M24x50	170	160	21,978	76,0
	17,997				5,958	14,4	85,013				21,926	75,8
200	22,009	M8x18	50	43	5,988	14,5	90,035	M24x50	170	160	24,978	81,0
	21,996				5,958	14,4	90,013				24,926	80,8
225	25,009	M8x18	60	43	7,985	24,0	100,035	M24x50	210	200	27,978	90,0
	24,996				7,949	23,8	100,013				27,926	89,8
250	28,009	M8x18	60	53	7,985	24,0	110,035	M30x60	210	200	27,978	100,0
	27,996				7,949	23,8	110,013				27,926	99,8
280	32,018	M8x18	80	73	9,985	27,0	125,040	M30x60	210	200	31,974	114,0
	32,002				9,949	26,8	125,015				31,912	113,8
315	38,018	M16x32	80	73	9,985	33,0	140,040	M30x60	250	240	35,974	128,0
	38,002				9,949	32,8	140,015				35,912	127,7
355	45,018	M16x32	110	102	13,982	39,5	160,040	M42x80	300	290	39,974	147,0
	45,002				13,939	39,3	160,015				39,912	146,7
400	50,018	M16x32	110	102	13,982	44,5	180,040	M42x80	300	290	44,974	165,0
	50,002				13,939	44,3	180,015				44,912	164,7
450	55,030	M24x50	110	102	15,982	49,0	200,046	M42x80	350	340	44,974	185,0
	55,011				15,939	48,8	200,017				44,912	184,7
500	65,030	M24x50	140	130	17,982	58,0	200,046	M56x105	350	340	49,974	203,0
	65,011				17,939	57,8	220,017				49,912	202,7
560	75,030	M24x50	140	130	19,978	67,5	240,046	M56x105	410	400	55,968	220,0
	75,011				19,926	67,3	240,017				55,894	219,7
630	90,035	M24x50	170	160	24,978	81,0	280,052	M56x105	470	460	62,968	260,0
	90,013				24,926	80,8	280,020				62,894	259,7
710	100,035	M24x50	210	210	27,978	90,0	320,057	M56x105	470	460	69,968	298,0
	100,013				27,926	89,8	320,021				69,894	297,7



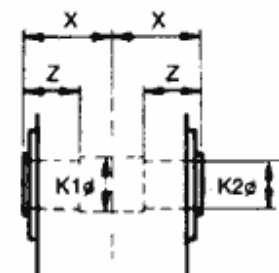
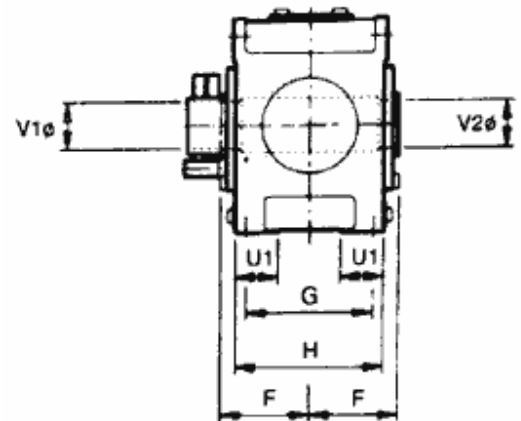
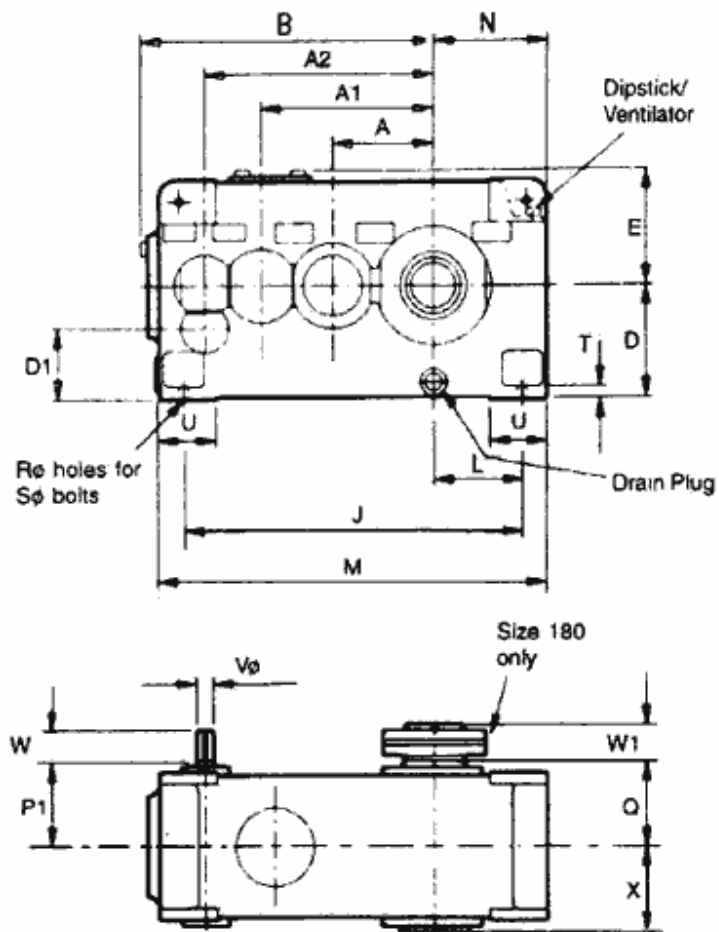
AGNEE Series H Helical and Bevel Helical Gear Boxes



Type H4SF-Foot/Shaft Mounted Units

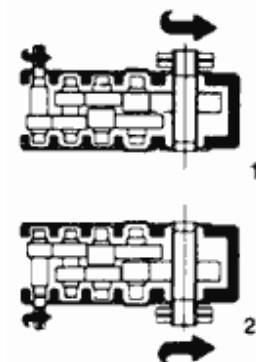
Quadruple Reduction - Parallel Shafts - Principal Dimensions (mm)

DIMENSIONS



Output Bore
Sizes 160 & 140 only

SHAFT HANDING / ROTATION



Size 180 shown



AGNEE Series H Helical and Bevel Helical Gear Boxes



Type H4SF-Foot/Shaft Mounted Units																
Quadruple Reduction - Parallel Shafts - Principal Dimensions (mm)																
DIMENSIONS																
Unit Size	A	A1	A2	B	D	D1	E	F	G	H	J	L	M	N	P1	Q
140	140	240	320	434	160	89	174	135	190	224	490	120	580	165	495	-
160	160	272	372	481	180	109	194	155	225	260	540	135	640	185	540	-
180	180	305	305	529	200	120	214	173	250	290	600	147.5	705	200	600	175
Unit Size	R	S	T	U	U1	V	V1	V2	W	W1	X	Z	K1	K2		
140	14	4x12	20	100	60	18	-	-	40	-	140	75	76	75		
160	18	4x16	20	110	70	18	-	-	40	-	160	85	86	85		
180	18	4x16	25	120	85	18	85	90	40	65	175	-	-	-		

Type H4SF –Foot/ Shaft Mounted Units	
Triple Reduction - Parallel Shafts - Principal Dimensions (mm)	
DIMENSIONS	
INPUT SHAFT	OUTPUT SHAFT

Unit Size	Input Shafts						Output Sleeve Bores					
	V	V4	W	W2	Y	Z	V1	V2	K1	K2	M	N
140	18,008 17,997	M6x16	40	34	5,988 5,958	14,5 14,4	-	-	76	75,030 75,011	80,1 79,9	20,026 19,974
160	18,008 17,997	M6x16	40	34	5,988 5,958	14,5 14,4	-	-	86	85,071 85,036	90,6 90,4	22,026 21,974
180	18,008 17,997	M6x16	40	34	5,988 5,958	14,5 14,4	85,035 85,00	90,047 90,012	-	-	-	-



AGNEE Series H Helical and Bevel Helical Gear Boxes



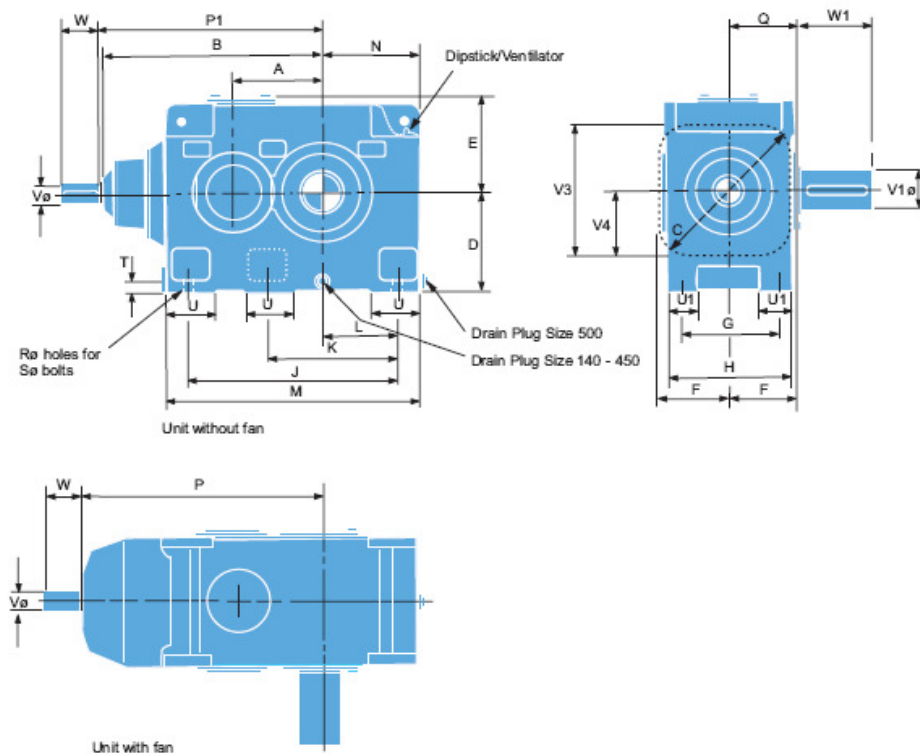
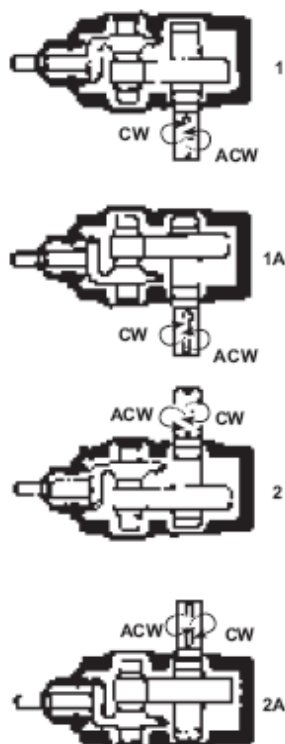
Type B2 –Foot Mounted Units

Double Reduction – Right Angle Shafts - Principal Dimensions (mm)

DIMENSIONS

SHAFT HANDING/ ROTATION

Opposite Rotation Available





AGNEE Series H

Helical and Bevel Helical Gear Boxes



Type B2 –Foot Mounted Units

Double Reduction – Right Angle Shafts - Principal Dimensions (mm)

DIMENSIONS

Unit size	A	B	C	D	E	F	G	H	J	K	L	M	N	P	P1
140	140	390	300	160	174	135	190	224	335	-	120	425	165	435	395
160	160	430	350	180	194	155	225	260	375	-	135	475	185	475	435
180	180	480	375	200	214	170	250	290	425	-	147.5	530	200	530	485
200	200	520	400	225	239	180	265	310	475	-	165	595	225	575	525
225	225	575	445	250	267	203	280	340	530	-	185	660	250	635	580
250	250	630	480	280	298	215	300	370	600	-	210	740	280	695	635
280	280	715	520	315	327	237	335	410	670	-	240	820	315	785	720
315	315	800	560	355	350	256	375	450	750	-	270	920	355	875	805
355	355	870	630	400	405	286	425	500	865	530	305	1055	400	950	875
400	400	990	700	450	456	320	475	560	1000	600	350	1200	450	1075	995
450	450	1100	780	500	497	360	530	640	1120	670	395	1330	500	1190	1105
500	500	1270	850	560	552	410	630	720	1250	750	440	1490	560	1375	1280

Unit size	Q	R	S	T	U	U1	V	V1	V3	V4	W	W1
140	140	14	4x12	20	100	60	28	70	230	105	60	140
160	160	18	4x16	20	110	70	32	75	263	125	80	140
180	175	18	4x16	25	120	85	32	85	295	145	80	170
200	185	22	4x20	25	125	90	38	90	305	140	110	170
225	205	22	4x20	30	130	95	45	100	356	171	110	210
250	220	26	4x24	30	140	115	50	110	402	190	110	210
280	240	26	4x24	35	160	125	65	125	450	225	140	210
315	260	33	4x30	40	180	130	75	140	480	230	140	250
355	290	33	6x30	50	200	155	85	160	540	270	170	300
400	325	39	6x36	55	220	175	90	180	618	300	170	300
450	365	39	6x36	60	250	195	100	200	650	320	210	350
500	420	45	6x42	65	280	220	125	220	700	340	210	350



AGNEE Series H Helical and Bevel Helical Gear Boxes



Type B2 –Foot Mounted Units												
Double Reduction – Right Angle Shafts - Principal Dimensions (mm)												
DIMENSIONS												
INPUT SHAFT							OUTPUT SHAFT					
Input Shaft							Output Shafts					
Unit size	V	V4	W	W2	Y	Z	V1	V5	W1	W3	Y1	Z1
140	28.009 27.996	M8x20	60	53	8.000 7.964	31.0 30.8	70.030 70.011	M24x52	140	130	20.000 19.948	74.5 74.3
160	32.018 32.002	M8x20	80	73	10.000 9.964	35.0 34.8	75.030 75.011	M24x52	140	130	20.000 19.948	79.5 79.3
180	38.018 38.002	M16x36	80	73	10.000 9.964	41.0 40.8	85.035 85.013	M24x52	170	160	22.000 19.948	90.0 89.8
200	45.018 45.002	M16x32	110	102	14.000 13.957	48.5 48.3	90.035 90.013	M24x50	170	160	25.000 24.948	95.0 94.8
225	50.018 50.002	M16x32	110	102	14.000 13.957	53.5 53.3	100.035 100.013	M24x50	210	200	28.000 27.948	106.0 105.8
250	55.030 55.011	M16x32	110	102	16.000 15.957	59.0 58.8	110.035 110.013	M30x60	210	200	28.000 27.948	116.0 115.8
280	65.030 65.011	M24x50	140	130	18.000 17.957	69.0 68.8	125.040 125.015	M30x60	210	200	32.000 31.938	132.0 131.8
315	75.030 75.011	M24x50	140	130	20.000 19.948	79.5 79.3	140.040 140.015	M30x60	250	240	36.000 35.938	148.0 147.7
355	85.035 85.013	M24x50	170	160	22.000 21.948	90.0 89.8	160.040 160.015	M42x80	300	290	40.000 39.938	169.0 168.7
400	90.035 90.013	M24x50	170	160	25.000 24.948	95.0 94.8	180.040 180.015	M42x80	300	290	45.000 44.938	190.0 189.7
450	100.035 100.013	M24x50	210	200	28.000 27.948	106.0 105.8	200.046 200.017	M42x80	350	340	45.000 44.938	210.0 209.7
500	125.040 125.015	M30x60	210	200	32.000 31.938	132.0 131.8	220.046 220.017	M56x105	350	340	50.000 49.938	231.0 230.7



AGNEE Series H Helical and Bevel Helical Gear Boxes



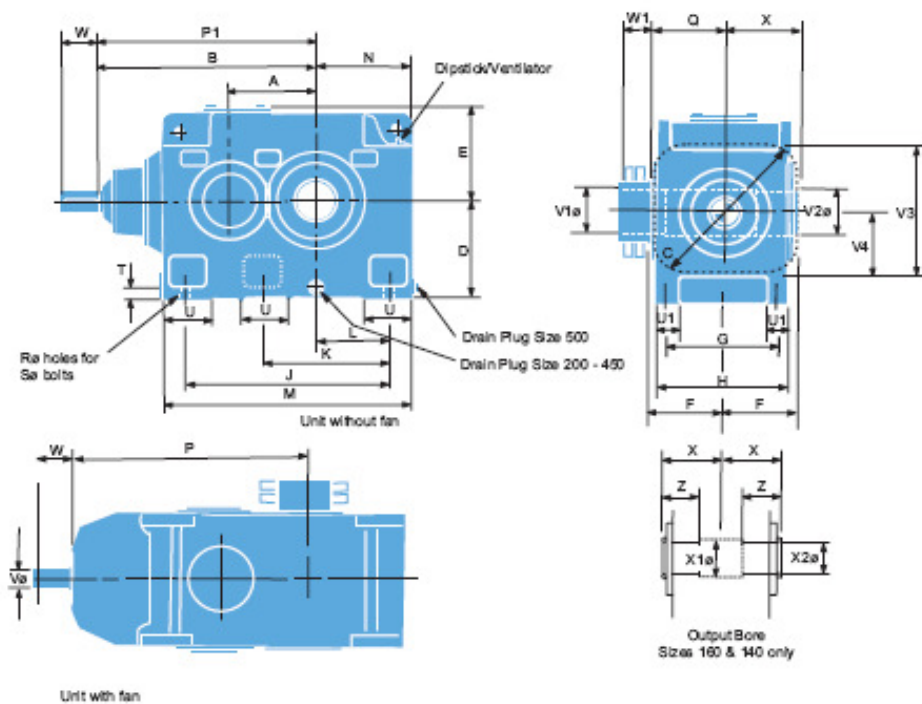
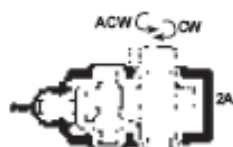
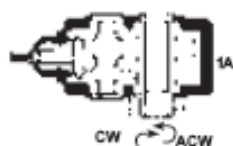
Type B2SF –Foot /Shaft Mounted Units

Double Reduction – Right Angle Shafts - Principal Dimensions (mm)

DIMENSIONS

SHAFT HANDING/ ROTATION

Opposite Rotation Available





AGNEE Series H Helical and Bevel Helical Gear Boxes



Type B2SF –Foot/ Shaft Mounted Units

Double Reduction – Right Angle Shafts - Principal Dimensions (mm)

DIMENSIONS

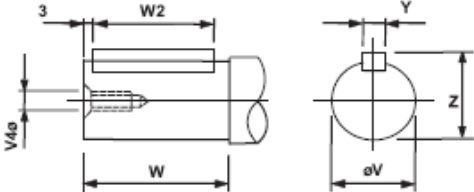
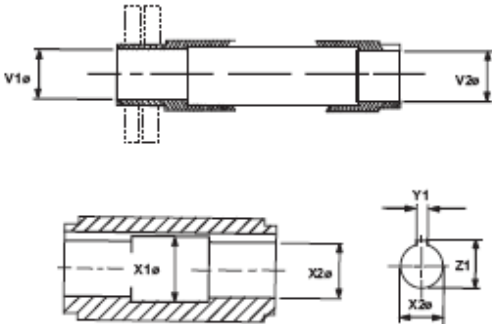
Unit size	A	B	C	D	E	F	G	H	J	K	L	M	N	P	P1	Q
140	140	390	300	160	174	135	190	224	335	-	120	425	165	435	395	-
160	160	430	350	180	194	155	225	260	375	-	135	475	185	475	435	-
180	180	480	375	200	214	170	250	290	425	-	147.5	530	200	530	485	175
200	200	520	400	225	239	180	265	310	475	-	165	595	225	575	525	185
225	225	575	445	250	267	203	280	340	530	-	185	660	250	635	580	205
250	250	630	480	280	298	215	300	370	600	-	210	740	280	695	635	220
280	280	715	520	315	327	237	335	410	670	-	240	820	315	785	720	240
315	315	800	560	355	350	256	375	450	750	-	270	920	355	875	805	260
355	355	870	630	400	405	286	425	500	865	530	305	1055	400	950	875	290
400	400	990	700	450	456	320	475	560	1000	600	350	1200	450	1075	995	325
450	450	1100	780	500	497	360	530	640	1120	670	395	1330	500	1190	1105	365
500	500	1270	850	560	552	410	630	720	1250	750	440	1490	560	1375	1280	420

Unit size	R	S	T	U	U1	V	V1	V2	V3	V4	W	W1	X	X1	X2	Z
140	14	4x12	20	100	60	28	-	-	230	105	60	-	140	75	75	75
160	18	4x16	20	110	70	32	-	-	263	125	80	-	160	86	85	85
180	18	4x16	25	120	85	38	85	90	295	145	80	65	175	-	-	-
200	22	4x20	25	125	90	45	95	100	305	140	110	70	185	-	-	-
225	22	4x20	30	130	95	50	115	120	356	171	110	80	205	-	-	-
250	26	4x24	30	140	115	55	125	130	402	190	110	90	220	-	-	-
280	26	4x24	35	160	125	65	140	145	450	225	140	105	240	-	-	-
315	33	4x30	40	180	130	75	160	165	480	230	140	110	260	-	-	-
355	33	6x30	50	200	155	85	170	175	540	270	170	130	290	-	-	-
400	39	6x36	55	220	175	90	190	200	618	300	170	150	325	-	-	-
450	39	6x36	60	250	195	100	220	230	650	320	210	160	365	-	-	-
500	45	6x42	65	280	220	125	250	260	700	340	210	185	420	-	-	-



AGNEE Series H Helical and Bevel Helical Gear Boxes



Type B2SF –Foot/ Shaft Mounted Units												
Double Reduction – Right Angle Shafts - Principal Dimensions (mm)												
DIMENSIONS												
INPUT SHAFT							Output Sleeve Bores					
							 Sizes 160 & 140 only Output Sleeve Bores					
Input Shafts							Output Sleeve Bores					
Unit size	V	V4	W	W2	Y	Z	V1	V2	X1	X2	M	N
140	28.009 27.996	M8x20	60	53	8.000 7.964	31.0 30.8	-	-	76	75.060 75.030	80.1 79.9	20.026 19.974
160	32.018 32.002	M8x20	80	73	10.000 9.964	35.0 34.8	-	-	86	85.071 85.036	90.6 90.4	22.026 21.974
180	38.018 38.002	M16x36	80	73	10.000 9.964	41.0 40.8	85.035 85.000	90.047 90.012	-	-	-	-
200	45.018 45.002	M16x32	110	102	14.000 13.957	48.5 48.3	95.035 95.000	100.047 100.012	-	-	-	-
225	50.018 50.002	M16x32	110	102	14.000 13.957	53.5 53.3	115.035 115.000	120.047 120.012	-	-	-	-
250	55.030 55.011	M16x32	110	102	16.000 15.957	59.0 58.8	125.040 125.000	130.054 130.014	-	-	-	-
280	65.030 65.011	M24x50	140	130	18.000 17.957	69.0 68.8	140.040 140.000	145.054 145.014	-	-	-	-
315	75.030 75.011	M24x50	140	130	20.000 19.948	79.5 79.3	160.040 160.000	165.054 165.014	-	-	-	-
355	85.035 85.013	M24x50	170	160	22.000 21.948	90.0 89.8	170.040 170.000	175.054 175.014	-	-	-	-
400	90.035 90.013	M24x50	170	160	25.000 24.948	95.0 94.8	190.046 190.000	200.061 200.015	-	-	-	-
450	100.035 100.013	M24x50	210	200	28.000 27.948	106.0 105.8	220.046 220.000	230.061 230.015	-	-	-	-
500	125.040 125.015	M30x60	210	200	32.000 31.938	132.0 131.8	250.046 250.000	260.069 260.017	-	-	-	-



AGNEE Series H Helical and Bevel Helical Gear Boxes



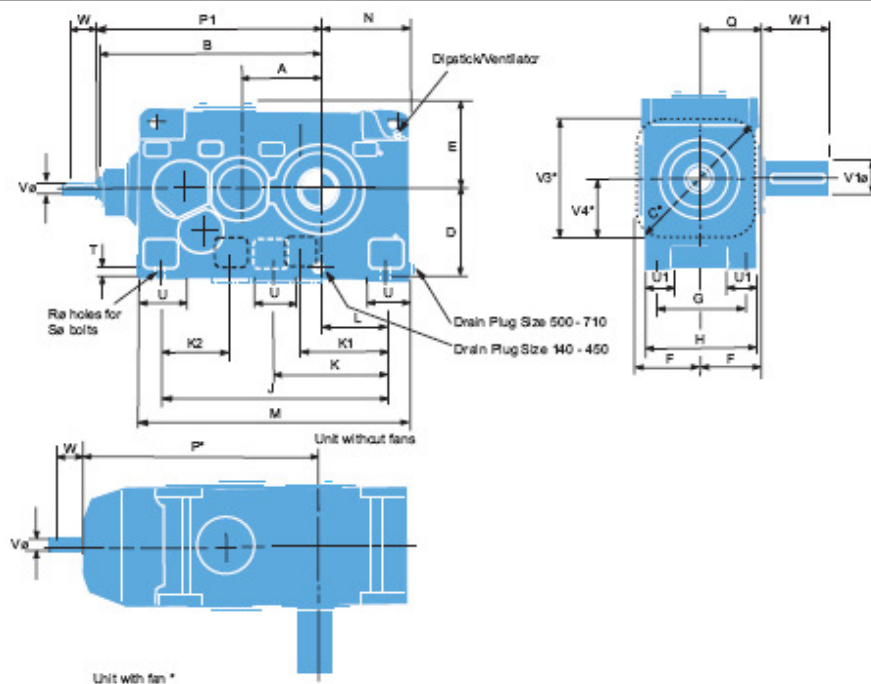
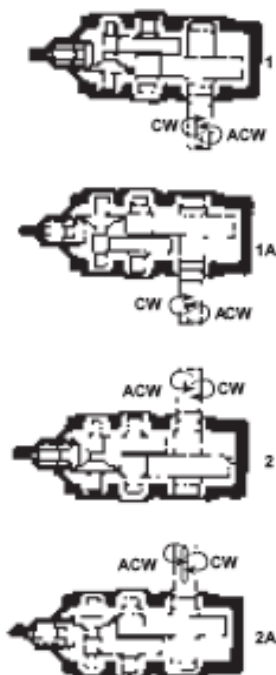
Type B3 –Foot Mounted Units

Triple Reduction – Right Angle Shafts - Principal Dimensions (mm)

DIMENSIONS

SHAFT HANDING/ ROTATION

Opposite Rotation Available





AGNEE Series H

Helical and Bevel Helical Gear Boxes



Type B3 –Foot Mounted Units

Triple Reduction – Right Angle Shafts - Principal Dimensions (mm)

DIMENSIONS

Unit size	A	B	C	D	E	F	G	H	J	K	K1	K2	L	M	N	P
140	140	430	305	160	174	135	190	224	405	-	-	-	120	495	165	470
160	160	477	350	180	194	155	225	260	450	-	-	-	135	550	185	520
180	180	530	375	200	214	173	250	290	505	-	-	-	147.5	610	200	570
200	200	590	400	225	239	180	265	310	560	-	-	-	165	680	225	630
225	225	655	445	250	267	203	280	340	630	-	-	-	185	760	250	700
250	250	730	480	280	298	215	300	370	710	-	-	-	210	850	280	780
280	280	800	520	315	327	237	335	410	800	-	-	-	240	950	315	855
315	315	890	560	355	350	256	375	450	900	-	-	-	270	1070	355	950
355	355	985	630	400	405	286	425	500	1005	530	-	-	305	1195	400	1050
400	400	1115	700	450	456	320	475	560	1160	600	-	-	350	1360	450	1185
450	450	1250	780	500	497	360	530	640	1300	670	-	-	395	1510	500	1325
500	500	1370	850	560	552	410	630	720	1460	750	-	-	440	1700	560	1445
560	560	1550	900	630	679	435	670	770	1650	-	560	530	505	1900	630	1630
630	630	1729	1020	710	754	480	750	860	1860	-	630	600	575	2130	710	1815
710	710	1980	1060	800	850	550	850	980	2090	-	710	670	655	2380	800	2070

Unit size	P1	Q	R	S	T	U	U1	V	V1	V3	V4	W	W1
140	435	140	14	4x12	20	100	60	20	70	220	95	50	140
160	480	160	18	4x16	20	110	70	25	75	248	110	60	140
180	535	175	18	4x16	25	120	85	28	85	280	130	60	170
200	595	185	22	4x20	25	125	90	28	90	305	140	60	170
225	660	205	22	4x20	30	130	95	32	100	356	171	80	210
250	735	220	26	4x24	30	140	115	38	110	390	190	80	210
280	805	240	26	4x24	35	160	125	45	125	450	225	110	210
315	895	260	33	4x30	40	180	130	50	140	460	230	110	250
355	990	290	33	6x30	50	200	155	55	160	540	270	110	300
400	1120	325	39	6x36	55	220	175	65	180	600	300	140	300
450	1255	365	39	6x36	60	250	195	75	200	640	320	140	350
500	1380	420	45	6x42	65	280	220	85	220	700	340	170	350
560	1560	445	45	8x42	70	320	240	90	240	740	370	170	410
630	1740	490	52	8x48	75	350	280	100	280	820	410	210	470
710	1990	560	52	8x48	80	370	320	125	320	900	450	210	470



AGNEE Series H

Helical and Bevel Helical Gear Boxes



Type B3 –Foot Mounted Units												
Triple Reduction – Right Angle Shafts - Principal Dimensions (mm)												
DIMENSIONS												
INPUT SHAFT							OUTPUT SHAFT					
Input Shafts							Output Shafts					
Unit size	V	V4	W	W2	Y	Z	V1	V5	W1	W3	Y1	Z1
140	20.009	M6x16	50	43	6.000	22.5	70.030	M24x52	140	130	20.000	74.5
	19.996				5.970	22.4	70.011				19.948	74.3
160	25.009	M6x16	60	53	8.000	28.0	75.030	M24x52	140	130	20.000	79.5
	24.996				7.964	27.8	75.011				19.948	79.3
180	28.009	M8x20	60	53	8.000	31.0	85.035	M24x52	170	160	22.000	90.0
	27.996				7.964	30.8	85.013				21.948	89.8
200	28.009	M8x18	60	53	8.000	31.0	90.035	M24x52	170	160	25.000	95.0
	27.996				7.964	30.8	90.013				24.948	94.8
225	32.018	M8x18	80	73	10.000	35.0	100.035	M24x50	210	200	28.000	106.0
	32.002				9.964	34.8	100.013				27.948	105.8
250	38.018	M16x32	80	73	10.000	41.0	110.035	M30x60	210	200	28.000	116.0
	38.002				9.964	40.8	110.013				27.948	115.8
280	45.018	M16x32	110	102	14.000	48.5	125.040	M30x60	210	200	32.000	132.0
	45.002				13.957	48.3	125.015				31.938	131.8
315	50.018	M16x32	110	102	14.000	53.5	140.040	M30x60	250	240	36.000	148.0
	50.002				13.957	53.3	140.015				35.938	147.7
355	55.030	M16x32	110	102	16.000	59.0	160.040	M42x80	300	290	40.000	169.0
	55.011				15.957	58.8	160.015				39.938	168.7
400	65.030	M24x50	140	130	18.000	69.0	180.040	M42x80	300	290	45.000	190.0
	65.011				17.957	68.8	180.015				44.938	189.7
450	75.030	M24x50	140	130	20.000	79.5	200.046	M42x80	350	340	45.000	210.0
	75.011				19.948	79.3	200.017				44.938	209.7
500	85.035	M24x50	170	160	22.000	90.0	220.046	M56x105	350	340	50.000	231.0
	85.013				21.948	89.8	220.017				49.938	230.7
560	90.035	M24x50	170	160	25.000	95.0	240.046	M56x105	410	400	56.000	252.0
	90.013				24.948	94.8	240.017				55.926	251.7
630	100.035	M24x50	210	200	28.000	106.0	280.052	M56x105	470	460	63.000	292.0
	100.013				27.948	105.8	280.020				62.926	291.7
710	125.040	M30x60	210	200	32.000	132.0	320.057	M56x105	470	460	70.000	334.0
	125.015				31.938	131.8	320.021				69.926	330.7



AGNEE Series H Helical and Bevel Helical Gear Boxes



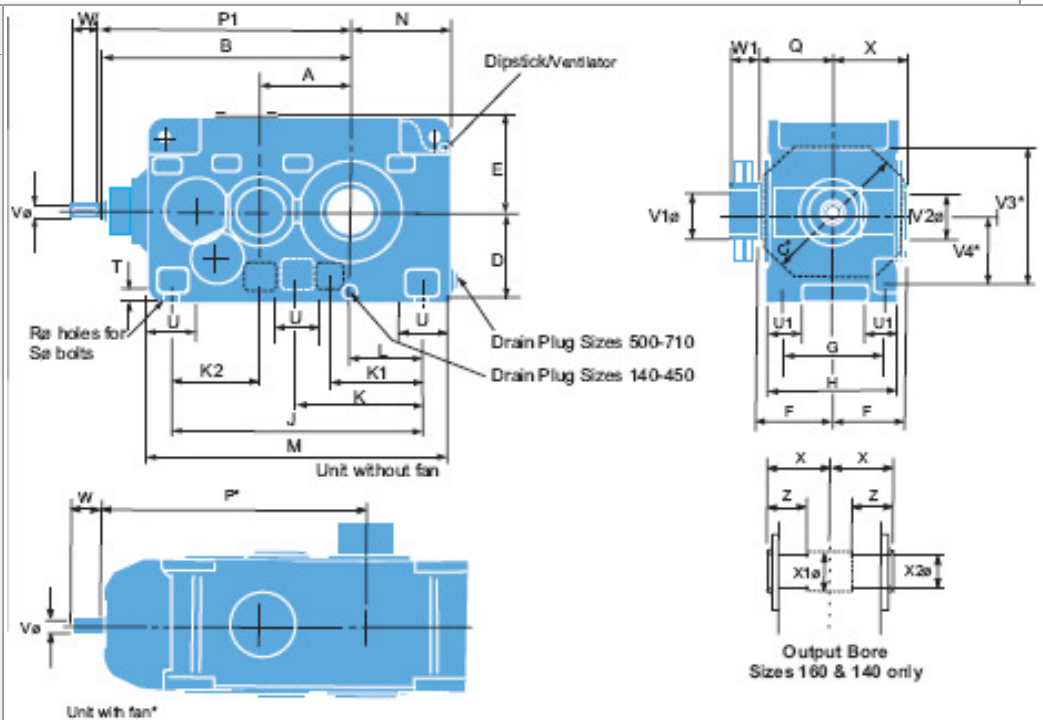
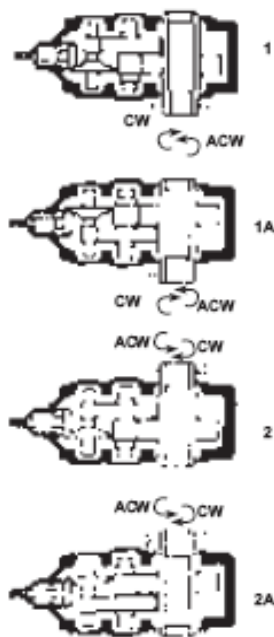
Type B3SF –Foot /Shaft Mounted Units

Triple Reduction – Right Angle Shafts - Principal Dimensions (mm)

DIMENSIONS

SHAFT HANDING/ ROTATION

Opposite Rotation Available





AGNEE Series H Helical and Bevel Helical Gear Boxes



Type B3SF –Foot /Shaft Mounted Units

Triple Reduction – Right Angle Shafts - Principal Dimensions (mm)

DIMENSIONS

Unit size	A	B	C	D	E	F	G	H	J	K	K1	K2	L	M	N	P*	P1	Q
140	140	430	305	160	174	135	190	224	405	-	-	-	120	495	165	470	435	140
160	160	477	350	180	194	155	225	260	450	-	-	-	135	550	185	520	480	160
180	180	530	375	200	214	173	250	290	505	-	-	-	147.5	610	200	570	535	175
200	200	590	400	225	239	180	265	310	560	-	-	-	165	680	225	630	595	185
225	225	655	445	250	267	203	280	340	630	-	-	-	185	760	250	700	660	205
250	250	730	480	280	298	215	300	370	710	-	-	-	210	850	280	780	735	220
280	280	800	520	315	327	237	335	410	800	-	-	-	240	950	315	855	805	240
315	315	890	560	355	350	256	375	450	900	-	-	-	270	1070	355	950	895	260
355	355	985	630	400	405	286	425	500	1005	530	-	-	305	1195	400	1050	990	290
400	400	1115	700	450	456	320	475	560	1160	600	-	-	350	1360	450	1185	1120	325
450	450	1250	780	500	497	360	530	640	1300	670	-	-	395	1510	500	1325	1255	365
500	500	1370	850	560	552	410	630	720	1460	750	-	-	440	1700	560	1445	1380	420
560	560	1550	900	630	679	435	670	770	1650	-	560	530	505	1900	630	1630	1560	445
630	630	1729	1020	710	754	480	750	860	1860	-	630	600	575	2130	710	1815	1739	490
710	710	1980	1060	800	850	550	850	980	2090	-	710	670	655	2380	800	2070	1990	560

Unit size	R	S	T	U	U1	V	V1	V2	V3	V4*	W	W1	X	X1	X2	Z
140	14	4x12	20	100	60	20	-	-	220	95	50	-	140	76	75	75
160	18	4x16	20	110	70	25	-	-	248	110	60	-	160	86	85	85
180	18	4x16	25	120	85	28	85	90	280	130	60	65	175	-	-	-
200	22	4x20	25	125	90	28	95	100	305	140	60	70	185	-	-	-
225	22	4x20	30	130	95	32	115	120	356	171	80	80	205	-	-	-
250	26	4x24	30	140	115	38	125	130	390	190	80	90	220	-	-	-
280	26	4x24	35	160	125	45	140	145	450	225	110	105	240	-	-	-
315	33	4x30	40	180	130	50	160	165	460	230	110	110	260	-	-	-
355	33	6x30	50	200	155	55	170	175	540	270	110	130	290	-	-	-
400	39	6x36	55	220	175	65	190	200	600	300	140	150	325	-	-	-
450	39	6x36	60	250	195	75	220	230	640	320	140	160	365	-	-	-
500	45	6x42	65	280	220	85	250	260	700	340	170	185	420	-	-	-
560	45	8x42	70	320	240	90	290	300	740	370	170	200	445	-	-	-
630	52	8x48	75	350	280	100	330	340	820	410	210	220	490	-	-	-
710	52	8x48	80	370	320	125	360	370	900	450	210	230	560	-	-	-



AGNEE Series H Helical and Bevel Helical Gear Boxes

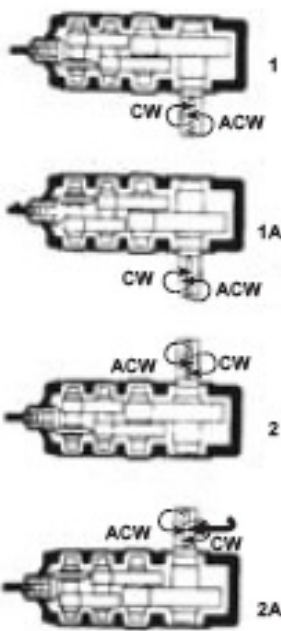
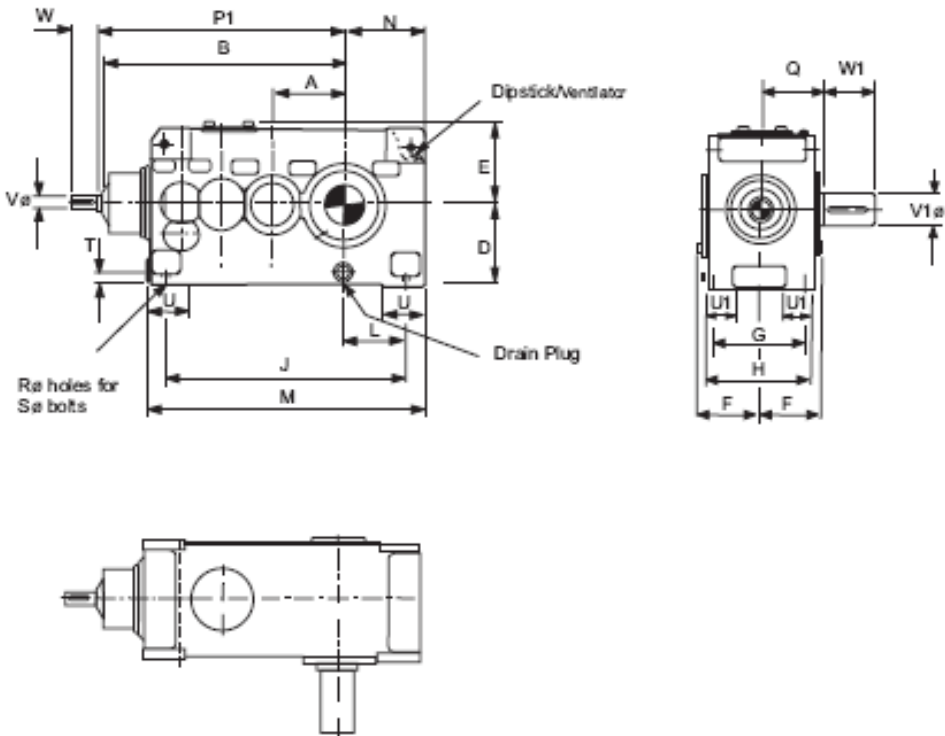


Type B3SF –Foot /Shaft Mounted Units													
Triple Reduction – Right Angle Shafts - Principal Dimensions (mm)													
DIMENSIONS													
INPUT SHAFT							Output Sleeve Bores						
							Size 160 & 140 only Output Sleeve Bores						
Unit size	V	Input Shafts					OutPut Sleeve Bores						
		V4	W	W2	Y	Z	V1	V2	K1	K2	M	N	
140	20.009	M6x16	50	43	6.000	22.5	-	-	76	75.060	80.1	20.026	
	19.996				5.970	22.4				75.030	79.9	19.974	
160	25.009	M6x16	60	53	8.000	28.0	-	-	86	85.071	90.6	22.026	
	24.996				7.964	27.8				85.036	90.4	21.974	
180	28.009	M8x20	60	53	8.000	31.0	85.035	90.047	-	-	-	-	
	27.996				7.964	30.8	85.000	90.012					
200	28.009	M8x18	60	53	8.000	31.0	95.035	100.047	-	-	-	-	
	27.996				7.964	30.8	95.000	100.012					
225	32.018	M8x18	80	73	10.000	35.0	115.035	120.047	-	-	-	-	
	32.002				9.964	34.8	115.000	120.012					
250	38.018	M16x32	80	73	10.000	41.0	125.040	130.054	-	-	-	-	
	38.002				9.964	40.8	125.000	130.014					
280	45.018	M16x32	110	102	14.000	48.5	140.040	145.054	-	-	-	-	
	45.002				13.957	48.3	140.000	145.014					
315	50.018	M16x32	110	102	14.000	53.5	160.040	165.054	-	-	-	-	
	50.002				13.957	53.3	160.000	165.014					
355	55.030	M16x32	110	102	16.000	59.0	170.040	175.054	-	-	-	-	
	55.011				15.957	58.8	170.000	175.014					
400	65.030	M24x50	140	130	18.000	69.0	190.046	200.061	-	-	-	-	
	65.011				17.957	68.8	190.000	200.015					
450	75.030	M24x50	140	130	20.000	79.5	220.046	230.061	-	-	-	-	
	75.011				19.948	79.3	220.000	230.015					
500	85.035	M24x50	170	160	22.000	90.0	250.046	260.069	-	-	-	-	
	85.013				21.948	89.8	250.000	260.017					
560	90.035	M24x50	170	160	25.000	95.0	290.052	300.069	-	-	-	-	
	90.013				24.948	94.8	290.000	300.017					
630	100.035	M24x50	210	200	28.000	106.0	330.057	340.075	-	-	-	-	
	100.013				27.948	105.8	330.000	340.018					
710	125.040	M30x60	210	200	32.000	132.0	360.057	370.075	-	-	-	-	
	125.015				31.938	131.8	360.000	370.018					



AGNEE Series H Helical and Bevel Helical Gear Boxes



Type B4 –Foot Mounted Units	
Quadruple Reduction – Right Angle Shafts - Principal Dimensions (mm)	
DIMENSIONS	
SHAFT HANDING/ ROTATION	
Opposite Rotation Available 	



AGNEE Series H

Helical and Bevel Helical Gear Boxes



Type B4 –Foot Mounted Units

Quadruple Reduction – Right Angle Shafts - Principal Dimensions (mm)

DIMENSIONS

Unit size	A	B	D	E	F	G	H	J	K	K1	L	M	N
140	140	490	160	174	135	190	224	490	-	-	120	580	165
160	160	537	180	194	155	225	260	540	-	-	135	640	185
180	180	595	200	214	173	250	290	600	-	-	147.5	705	200
200	200	657	225	239	180	265	310	670	-	-	165	790	225
225	225	735	250	267	203	280	340	750	-	-	185	880	250
250	250	820	280	298	215	300	370	850	-	-	210	990	280
280	280	910	315	327	237	335	410	950	475	-	240	1100	315
315	315	1020	355	350	256	375	450	1060	530	-	270	1230	355
355	355	1125	400	405	286	425	500	1180	600	-	305	1370	400
400	400	1255	450	456	320	475	560	1340	670	-	350	1540	450
450	450	1395	500	497	360	530	640	1500	750	-	395	1710	500
500	500	1570	560	552	410	630	720	1680	560	560	440	1920	560
560	560	1760	630	679	435	670	770	1890	630	630	505	2140	630
630	630	1950	710	754	480	750	860	2130	710	710	575	2400	710
710	710	2200	800	850	550	850	980	2400	800	800	655	2690	800

Unit size	P1	Q	R	S	T	U	U1	V	V1	W	W1
140	495	140	14	4x12	20	100	60	18	70	40	140
160	540	160	18	4x16	20	110	70	18	75	40	140
180	600	175	18	4x16	25	120	85	20	85	50	170
200	660	185	22	4x20	25	125	90	25	90	60	170
225	740	205	22	4x20	30	130	95	28	100	60	210
250	825	220	26	4x24	30	140	115	28	110	60	210
280	915	240	26	6x24	35	160	125	32	125	80	210
315	1025	260	33	6x30	40	180	130	38	140	80	250
355	1130	290	33	6x30	50	200	155	45	160	110	300
400	1260	325	39	6x36	55	220	175	50	180	110	300
450	1400	365	39	6x36	60	250	195	55	200	110	350
500	1575	420	45	8x42	65	280	220	65	220	140	350
560	1765	445	45	8x42	70	320	240	75	240	140	410
630	1960	490	52	8x48	75	350	280	85	280	170	470
710	2210	560	52	8x48	80	370	320	90	320	170	470



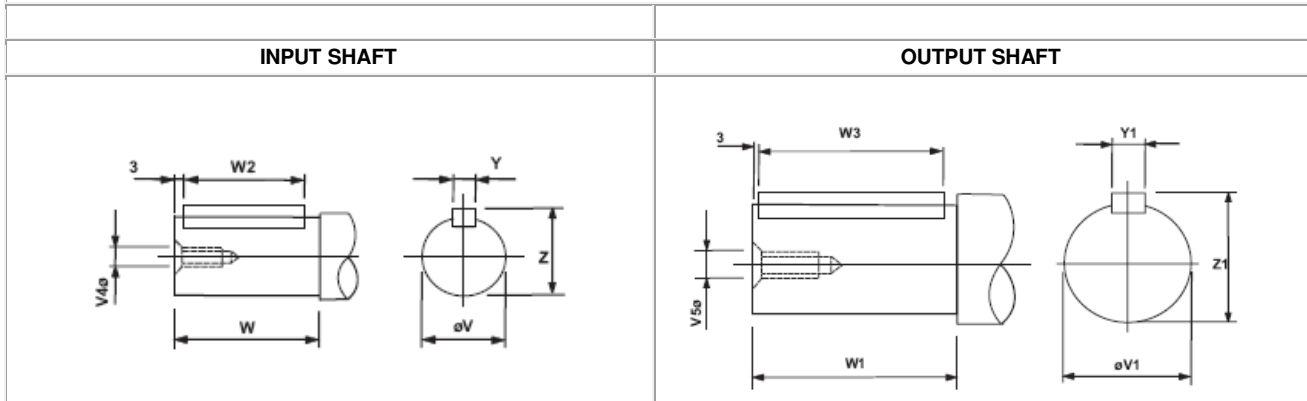
AGNEE Series H Helical and Bevel Helical Gear Boxes



Type B4 –Foot Mounted Units

Quadruple Reduction – Right Angle Shafts - Principal Dimensions (mm)

DIMENSIONS



Input Shafts							Output Shafts					
Unit size	V	V4	W	W2	Y	Z	V1	V5	W1	W3	Y1	Z1
140	18.008 17.997	M6x16	40	34	6.000 5.970	20.5 20.4	70.030 70.011	M24x52	140	130	20.000 19.948	74.5 74.3
160	18.008 17.997	M6x16	40	34	6.000 5.970	20.5 20.4	75.030 75.011	M24x52	140	130	20.000 19.948	79.5 79.3
180	20.009 19.996	M6x16	50	43	6.000 5.970	22.5 22.4	85.035 85.013	M24x52	170	160	22.000 21.948	90.0 89.8
200	25.009 24.996	M8x18	60	53	8.000 7.964	28.0 27.8	90.035 90.013	M24x50	170	160	25.000 24.948	95.0 94.8
225	28.009 27.996	M8x18	60	53	8.000 7.964	31.0 30.8	100.035 100.013	M24x50	210	200	28.000 27.948	106.0 105.8
250	28.009 27.996	M8x18	60	53	8.000 7.964	31.0 30.8	110.035 110.013	M30x60	210	200	28.000 27.948	116.0 105.8
280	32.018 32.002	M8x18	80	73	10.000 9.964	35.0 34.8	125.040 125.015	M30x60	210	200	32.000 31.938	132.0 131.8
315	38.018 38.002	M16x32	80	73	10.000 9.964	41.0 40.8	140.040 140.015	M30x60	250	240	36.000 35.938	148.0 147.7
355	45.018 45.002	M16x32	110	102	14.000 13.957	48.5 48.3	160.040 160.015	M42x80	300	290	40.000 39.938	169.0 168.7
400	50.018 50.002	M16x32	110	102	14.000 13.957	53.5 53.3	180.040 180.015	M42x80	300	290	45.000 44.938	190.0 189.7
450	55.030 55.011	M16x32	110	102	16.000 15.957	59.0 58.8	200.046 200.017	M42x80	350	340	45.000 44.938	210.0 209.7
500	65.030 65.011	M24x50	140	130	18.000 17.957	69.0 68.8	220.046 220.017	M56x105	350	340	50.000 49.938	231.0 230.7
560	75.030 75.011	M24x50	140	130	20.000 19.948	79.5 79.3	240.046 240.017	M56x105	410	400	56.000 55.926	252.0 251.7
630	85.035 85.013	M24x50	170	160	22.000 21.948	90.0 89.8	280.052 280.020	M56x105	470	460	63.000 62.926	292.0 291.7
710	90.035 90.013	M24x50	170	160	25.000 24.948	95.0 94.8	320.057 320.021	M56x105	470	460	70.000 69.926	334.0 333.7



AGNEE Series H Helical and Bevel Helical Gear Boxes



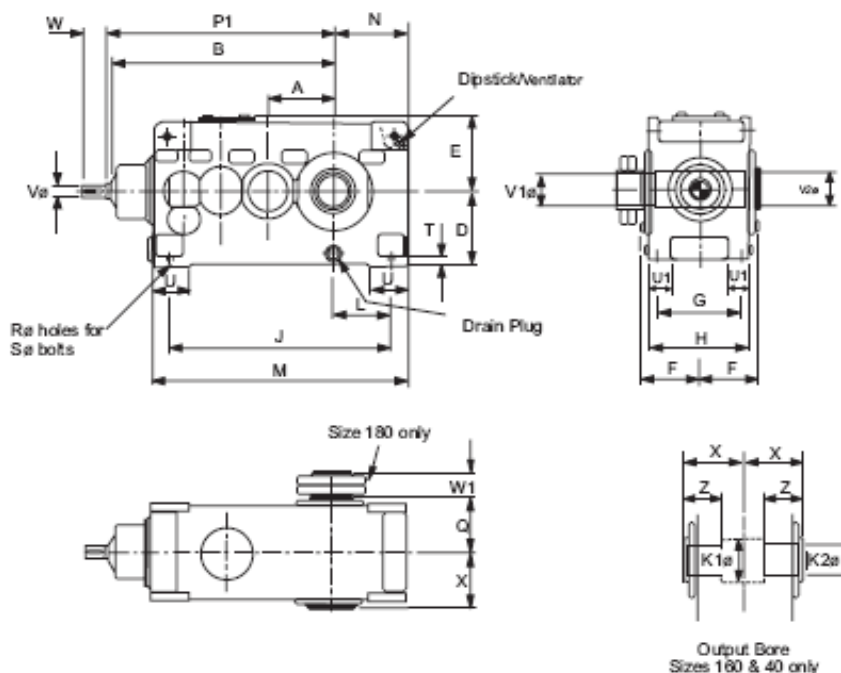
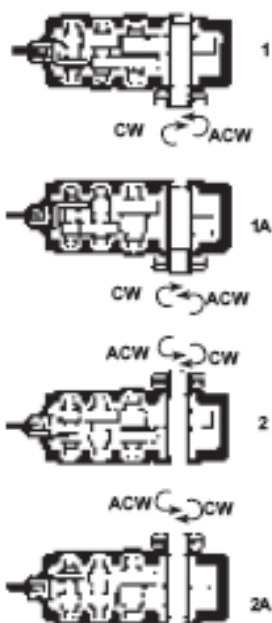
Type B4SF –Foot /Shaft Mounted Units

Quadruple Reduction – Right Angle Shafts - Principal Dimensions (mm)

DIMENSIONS

SHAFT HANDING/ ROTATION

Opposite Rotation Available



DIMENSIONS

Unit size	A	B	D	E	F	G	H	J	L	M	N	P1	Q
140	140	490	160	174	135	190	224	490	120	580	165	495	-
160	160	537	180	194	155	225	260	540	135	640	185	540	-
180	180	595	200	214	173	250	290	600	147.5	705	200	600	175

Unit size	R	S	T	U	U1	V	V1	V2	W	W1	X	Z	K1	K2
140	14	4x12	20	100	60	18	-	-	40	-	140	75	76	75
160	18	4x16	20	110	70	18	-	-	40	-	160	85	86	85
180	18	4x16	25	120	85	20	85	90	50	65	175	-	-	-



AGNEE Series H Helical and Bevel Helical Gear Boxes



Type B4SF –Foot /Shaft Mounted Units	
Quadruple Reduction – Right Angle Shafts - Principal Dimensions (mm)	
DIMENSIONS	
INPUT SHAFT	Output Sleeve Bores
	Sizes 160 & 140 only Output Sleeve Bores

Input shafts								Output Sleeve Bores				
Unit size	V	V4	W	W2	Y	Z	V1	V2	K1	K2	M	N
140	18.008	M6x16	40	34	6.000	20.5	-	-	76	75.060	80.1	20.026
	17.997				5.970	20.4				75.030	79.9	19.974
160	18.008	M6x16	40	34	6.000	20.5	-	-	86	85.071	90.6	22.026
	17.997				5.970	20.4				85.036	90.4	21.974
180	20.009	M6x16	50	43	6.000	22.5	85.035	90.047	-	-	-	-
	19.996				5.970	22.4	85.000	90.012				



AGNEE Series H Helical and Bevel Helical Gear Boxes



ENGINEERING DATA

OUTPUT SHAFT & SHAFT SHRINK DISC DETAILS (mm)

TYPES H2S-H2SF-H3SF-B2S-B2SF-B3S-B3SF

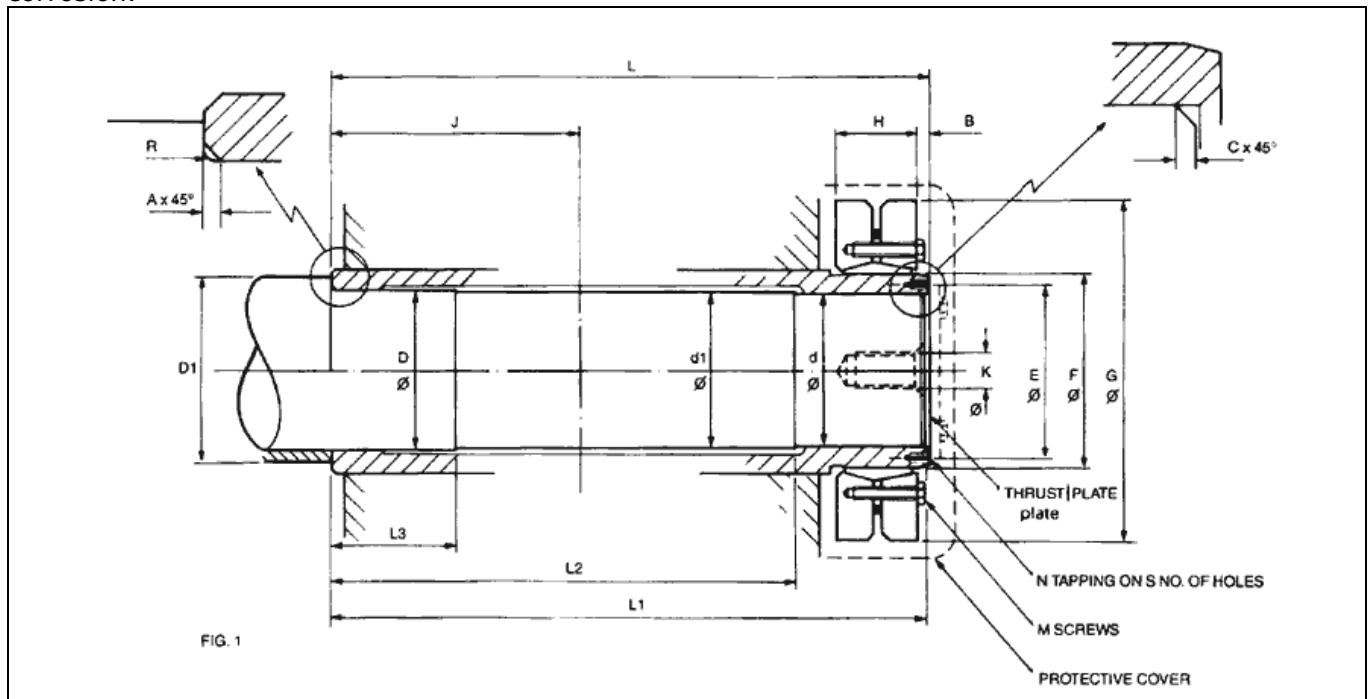
Each Shaft mounted gear unit is fitted with a 'shrink disc' device located on the hollow output shaft to provide a positive outer locking connection between gear unit and driven shaft. The 'Shrink disc' is a friction device, without keys, which exerts an external clamping force on the hollow shaft and driven shaft. 'Shrink disc' capacities have ample margins in dealing with transmitted torques and external loading imposed on gear units.

Working Principle

The 'shrink disc' consists of two locking collars, a double tapered inner ring, locking screws and a sealing ring. By tightening the locking screws, the locking collars are pulled together, exerting radial forces on the inner ring, thus creating a positive friction connection between hollow shaft and driven shaft. See Fig.2.

As the tapered surfaces of locking collars and inner ring are lubricated with Molykote 321 R or similar and the taper angle is not self locking, locking collars will not seize on the inner ring and can be released easily when removal is necessary.

When the shrink disc is clamped in position the high contact pressure between tapered surfaces and screw heads and their seating ensure hermetic sealing and eliminate the possibility of treating corrosion.





AGNEE Series H

Helical and Bevel Helical Gear Boxes



OUTPUT SHAFT & SHAFT SHRINK DISC DETAILS (mm)																							
TYPES H2S-H2SF-H3SF-B2S-B2SF-B3S-B3SF																							
Unit Size	Size Rel	Shrink Disc			Screws		J	L	Hallow Shaft			S	E	d*	d1	D*	Shaft of Driven Machine min					R	K
		F	G	H	M	Ma			A	B	N						D1	L1	L2	L3	C		
180	110-72	110	185	49	M10	58	175	415	4.5	12	M5	6	97.5	85	87	90	113	412	327	80	3	2	M24x50
200	125-72	125	215	53	M10	58	185	440	4.5	12	M6	6	110	95	97	100	113	437	347	90	3	2	M24x50
225	155-71	155	263	62	M12	100	205	490	4.5	18	M10	4	135	115	117	120	133	487	377	110	3	2	M24x50
250	165-71	165	290	68	M16	240	220	530	4.5	18	M10	4	145	125	127	130	143	527	407	120	3	2	M36x70
280	185-71	185	330	85	M16	240	240	585	4.5	18	M10	6	160	140	142	145	160	580	445	135	4	2	M36x70
315	200-71	200	350	85	M16	240	260	630	4.5	18	M10	6	180	160	162	165	180	625	475	150	4	2	M36x70
355	220-71	220	370	103	M16	240	290	710	4.5	22	M12	4	195	170	172	175	190	705	540	165	4	2	M36x70
400	260-71	260	430	119	M20	470	325	800	4.5	22	M12	6	225	190	195	200	220	795	615	180	4	2	M36x70
450	280-71	280	460	132	M20	470	365	890	4.5	22	M12	6	250	220	225	230	885	885	695	190	4	2	M45x85
Shrink disc locking screws M must be tightened to the torque figures Ma shown in Nm. * Tolerance for shaft diameters D and d are to for diameters 85 to 165 and 96 for 165 and above. As improvements in design are continually being made, this specifications is not to be regarded as binding in detail and dimensions are subject to alteration without notice.																							



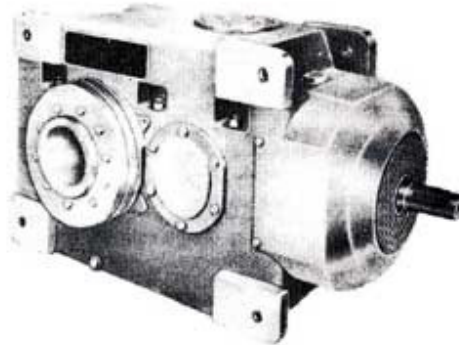
AGNEE Series H Helical and Bevel Helical Gear Boxes



OUTPUT SHAFT & SHAFT SHRINK DISC DETAILS (mm)

TYPES H2S-H2SF-H3SF-B2S-B2SF-B3S-B3SF

Installation



'Shrink discs' are supplied with shaft mounted units. The following procedures should be followed when fitting or removing units from driven shafts.

1. Release locking screws gradually and in succession. Initially a quarter of a turn on each screw will avoid tilting and jamming of collars.
2. Remove collars and clean 'shrink disc' thoroughly.
3. Clean and degrease locating diameters of gear unit hollow shaft, driven shaft and 'shrink disc' locating diameter on hollow shaft extension.
4. Draw the gear unit onto the driven shaft. See Fig.3
5. Grease tapered surface of locking collars and inner ring with Molykote 321 R or similar.
6. Fit 'shrink disc' on gear unit hollow shaft to position shown in Fig. 1.
7. Tighten all locking screws gradually and in succession. Do not tighten in a diametrically opposite sequences. Several passes are required until all screws are tightened to the torque figures Ma shown in the table opposite in Nm. This is stamped on the inner face of the 'shrink disc'.

Note: When the hollow output shaft is to operate in a vertical position it is essential that the shaft to the driven machine is provided with a shoulder. When the thrust load is not taken by the shoulder on the driven shaft, a thrust plate, as shown in Fig. 1 must be fitted.

It is recommended that customers shafts at the non-clamped end of the sleeve should be coated with Molykote 321 R or equivalent.

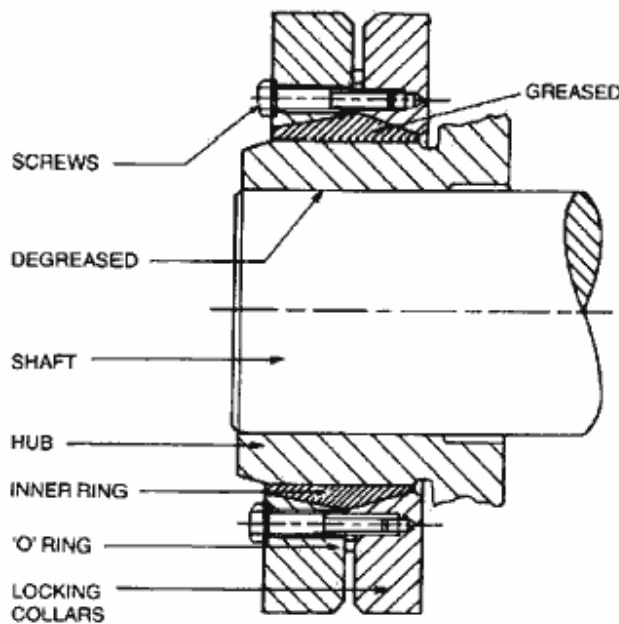


FIG. 2



AGNEE Series H Helical and Bevel Helical Gear Boxes



OUTPUT SHAFT & SHAFT SHRINK DISC DETAILS (mm)

TYPES H2S-H2SF-H3SF-B2S-B2SF-B3S-B3SF

Unit Size	Size Rel	Shrink Disc			Screws		J	L	Hallow Shaft			S	E	d*	d1	D*	Shaft of Driven Machine min					R	K
		F	G	H	M	Ma			A	B	N						D1	L1	L2	L3	C		
180	110-72	110	185	49	M10	58	175	415	4.5	12	M5	6	97.5	85	87	90	113	412	327	80	3	2	M24x50
200	125-72	125	215	53	M10	58	185	440	4.5	12	M6	6	110	95	97	100	113	437	347	90	3	2	M24x50
225	155-71	155	263	62	M12	100	205	490	4.5	18	M10	4	135	115	117	120	133	487	377	110	3	2	M24x50
250	165-71	165	290	68	M16	240	220	530	4.5	18	M10	4	145	125	127	130	143	527	407	120	3	2	M36x70
280	185-71	185	330	85	M16	240	240	585	4.5	18	M10	6	160	140	142	145	160	580	445	135	4	2	M36x70
315	200-71	200	350	85	M16	240	260	630	4.5	18	M10	6	180	160	162	165	180	625	475	150	4	2	M36x70
355	220-71	220	370	103	M16	240	290	710	4.5	22	M12	4	195	170	172	175	190	705	540	165	4	2	M36x70
400	260-71	260	430	119	M20	470	325	800	4.5	22	M12	6	225	190	195	200	220	795	615	180	4	2	M36x70
450	280-71	280	460	132	M20	470	365	890	4.5	22	M12	6	250	220	225	230	885	885	695	190	4	2	M45x85

Shrink disc locking screws M must be tightened to the torque figures Ma shown in Nm.

* Tolerance for shaft diameters D and d are to for diameters 85 to 165 and 96 for 165 and above.

As improvements in design are continually being made, this specifications is not to be regarded as binding in detail and dimensions are subject to alteration without notice.

Removal

1. Removal procedure is similar to the reverse of installation.

Note: Do not remove 'shrink disc' locking screws completely.

2. Remove any rust and dirt from driven shaft. See Fig. 4.

Note: 'Shrink disc' should be removal and cleaned thoroughly, and Molykote 321 R or similar applied to the tapered surfaces of inner ring and locking collars before re-use. The 'O' ring should be replaced if worn or damaged.

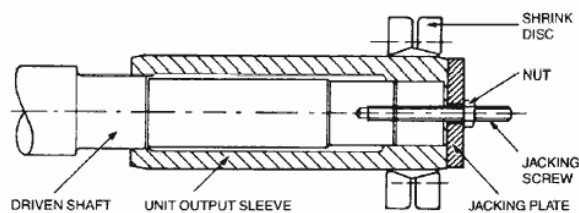


FIG. 3 MOUNTING GEAR UNIT

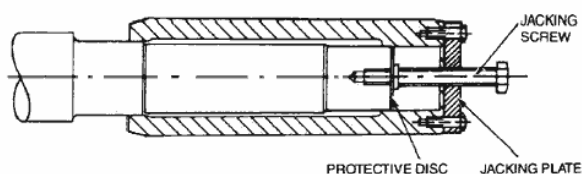


FIG. 4 REMOVING GEAR UNIT



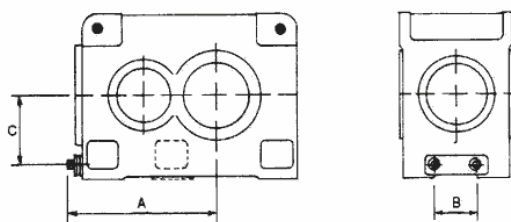
AGNEE Series H Helical and Bevel Helical Gear Boxes



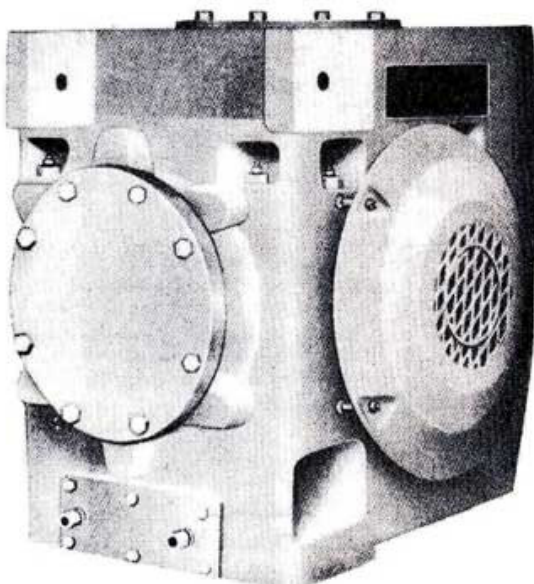
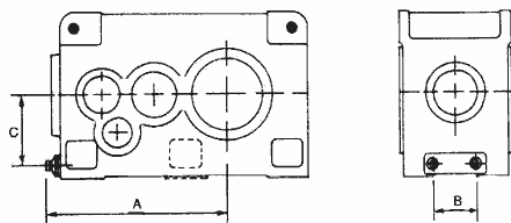
COOLING COIL CONNECTIONS

TYPES H1 - H2S-H2SF-H3SF-B2S-B2SF-B3S-B3SF

H1 - B2 - B2SF



H2 - H2SF - H3 - H3SF - B3 - B3SF



Cooling Coil connections for water inlet and outlet pipes are provided as indicated. One size of fitting is used for all gear unit sizes. Fitting which are supplied with gear units fitted with cooling coils are to suit 12 mm diameter copper pipe which is provided by customers.

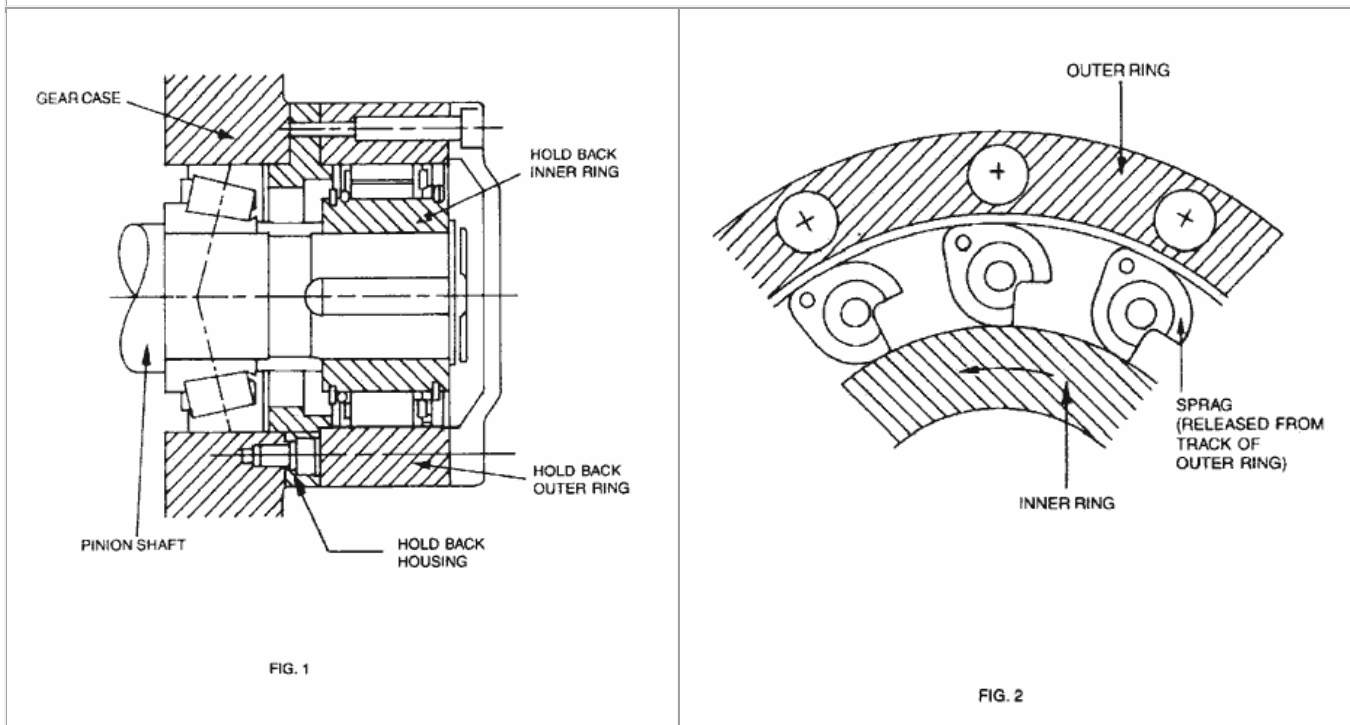
Cooling coils are suitable for fresh, brackish or sea water with flow in either direction. Connections are therefore interchangeable

140	301	90	127	371	90	127	456	90	127
160	333	110	145	408	110	145	498	110	145
180	373	110	165	453	110	165	548	110	165
200	415	135	185	500	135	185	500	135	185
225	455	135	210	555	135	210	555	135	210
250	505	150	237	615	150	237	615	150	237
280	550	150	272	680	150	272	680	150	272
315	610	150	305	760	150	305	760	150	305
355	700	150	345	840	150	345	840	150	345
400	795	150	393	955	150	393	955	150	393
450	875	150	442	1055	150	442	1055	150	442
500	975	150	495	1185	150	495	1405	150	495
560	-	-	-	1315	150	562	1555	150	562
630	-	-	-	1465	150	639	1735	150	639

Note: Cooling coil connections are not provided on shaft mounted units. types H2S-H3S-B2S-B3S

HOLDBACKS

PRINCIPLE OF OPERATION



Holdbacks can be fitted to all Helical units, with the exception of H1 single reduction type, where required to operate in non-reversing drives. They are located on input pinion-shaft in case of H2/H2S/H2SF type units and on second reduction pinion-shaft in case of B2/B2S/B2SF, H3/H3S/H3SF and B2/B3S/B3SF types of units.

All the holdbacks have adequate capacities to deal with full torque. Lubrication is provided automatically from the oil in the gear unit.

Holdbacks are located externally as shown in Fig. 1 and are positioned on different units as shown on sheet 2 of HE-504.

Holdbacks fitted on Helical units are of centrifugally released sprag type. In case of these holdbacks the sprags rotate along with cage and inner ring of holdback in free direction of rotation. The sprags are so designed that they get released from track of outer ring of the holdback. (see Fig. 2) due to centrifugal force at normal running speed of gearbox. Contact between the sprag and the stationary outer race therefore takes place only during starting and stopping. Contact-free running during normal operating conditions reduces wear of the sprags and ensures the longer life.



AGNEE Series H Helical and Bevel Helical Gear Boxes



HOLDBACKS

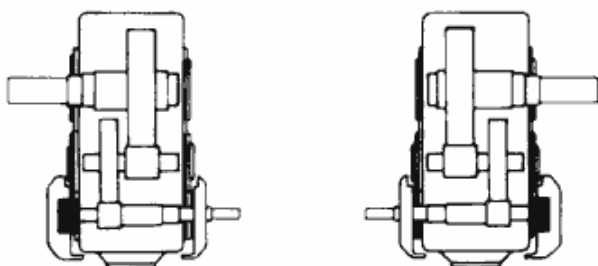
DOUBLE & TRIPLE REDUCTION UNITS

Holdbacks can be fitted to all AGNEE Helical gear unit types with the exception of H1 single reduction units. They are located externally on helical pinion shafts, positioned as indicated on the diagrams below.

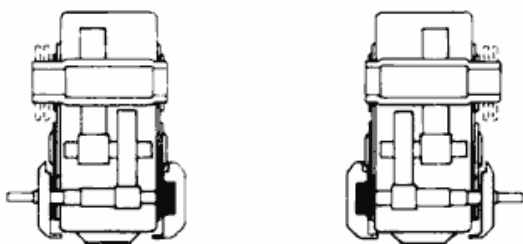
The holdback position for units with right angle shafts, types B2-B2SF-B2SF-B3-B3SF depends on relative shaft rotations.

Position of holdbacks on types B2S-B2SF, sizes 225,250,280 and 315 is on the opposite to the shrink disc for shaft handlings 1 and 2A (see HD-221 & HD-222)

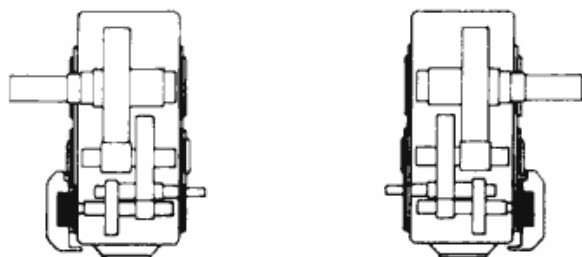
Type H2



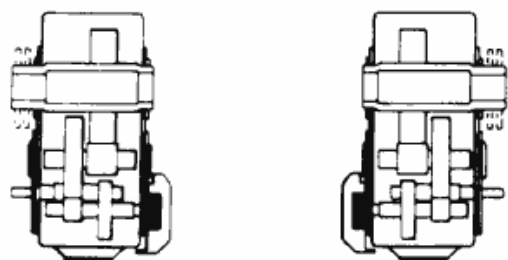
Type H2SF



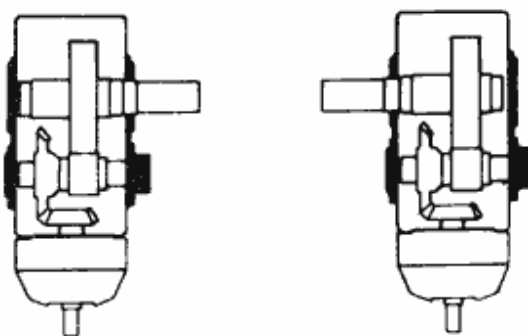
Type H3



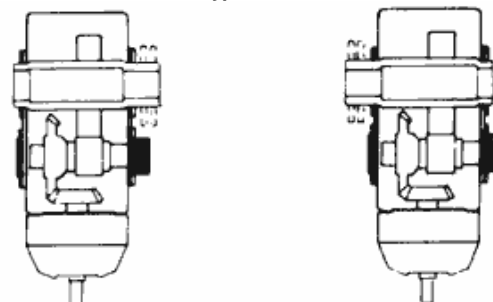
Type H3SF



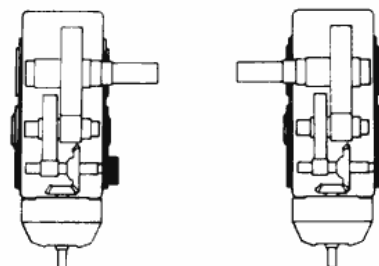
Type B2



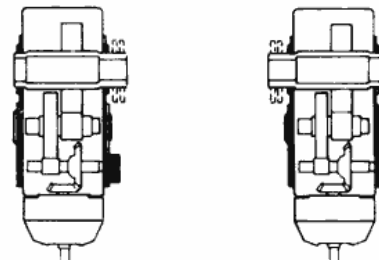
Type B2SF



Type B3



Type B3SF





AGNEE Series H

Helical and Bevel Helical Gear Boxes



MOMENTS OF INERTIA - kg m²

Referred to High Speed Shafts

SINGLE REDUCTION UNITS

Nominal Ratio	Type H1			Type H1								Type H1			
	Unit size			Unit size								Unit size			
	140	160	180	200	225	250	280	315	355	400	450	500	560	630	710
1.22	0.037	0.066	0.120	0.19	0.33	0.60	0.98	1.91	3.27	5.87	10.3	19.2	-	-	-
1.35	0.033	0.057	0.107	0.17	0.30	0.54	0.91	1.72	2.96	5.25	9.34	17.3	-	-	-
1.50	0.028	0.053	0.095	0.15	0.27	0.44	0.76	1.51	2.72	4.59	8.43	14.1	-	-	-
1.66	0.025	0.046	0.084	0.13	0.25	0.39	0.69	1.35	2.46	4.08	7.75	12.5	-	-	-
1.84	0.023	0.043	0.074	0.12	0.23	0.39	0.64	1.18	1.97	3.62	6.98	12.5	-	-	-
2.03	0.021	0.038	0.069	0.12	0.20	0.35	0.57	1.04	1.98	3.56	6.26	11.2	-	-	-
2.25	0.019	0.035	0.063	0.10	0.18	0.30	0.52	0.90	1.77	3.06	5.58	9.60	-	-	-
2.49	0.017	0.029	0.056	0.085	0.16	0.26	0.46	0.88	1.54	2.60	4.95	8.32	-	-	-
2.76	0.014	0.028	0.045	0.083	0.14	0.25	0.40	0.76	1.32	2.54	4.18	8.00	-	-	-
3.05	0.013	0.023	0.039	0.067	0.14	0.21	0.34	0.66	1.14	2.07	4.12	6.72	-	-	-
3.38	0.012	0.022	0.038	0.064	0.11	0.18	0.33	0.62	1.08	2.00	3.49	5.76	-	-	-
3.73	0.009	0.017	0.033	0.050	0.092	0.16	0.27	0.50	0.88	1.56	2.82	5.12	-	-	-
4.13	0.009	0.015	0.029	0.048	0.085	0.15	0.25	0.45	0.84	1.50	2.65	4.80	-	-	-
4.57	0.007	0.014	0.026	0.045	0.078	0.14	0.21	0.37	0.76	1.39	2.47	4.48	-	-	-
5.06	0.006	0.012	0.021	0.036	0.065	0.11	0.19	0.35	0.61	1.12	2.02	3.52	-	-	-

DOUBLE REDUCTION UNITS

Nominal Ratio	Type H2-H2SF			Type H2S-H2SF								Type H2-H2S-H2SF		
	Unit size			Unit size								Unit size		
	140	160	180	200	225	250	280	315	355	400	450	500	560	630
5.60	0.0067	0.0109	0.0224	0.032	0.060	0.110	0.19	0.34	0.61	1.02	1.83	3.52	6.08	10.9
6.20	0.0065	0.0108	0.0220	0.028	0.051	0.091	0.16	0.29	0.52	0.88	1.65	2.91	5.12	9.28
6.86	0.0060	0.0112	0.0205	0.027	0.047	0.089	0.15	0.27	0.48	0.87	1.53	2.85	4.80	8.64
7.59	0.0053	0.0086	0.0177	0.023	0.043	0.076	0.14	0.23	0.43	0.74	1.30	2.43	4.48	7.36
8.40	0.0044	0.0071	0.0153	0.024	0.043	0.078	0.14	0.26	0.44	0.78	1.42	2.50	4.48	8.32
9.30	0.0041	0.0060	0.0131	0.021	0.040	0.067	0.13	0.22	0.40	0.67	1.21	2.14	4.16	7.04
10.3	0.0036	0.0059	0.0104	0.019	0.037	0.065	0.12	0.20	0.37	0.61	1.13	2.08	3.84	6.40
11.4	0.0031	0.0054	0.0099	0.016	0.030	0.053	0.098	0.17	0.29	0.53	0.99	1.70	3.14	5.44
12.6	0.0031	0.0047	0.0078	0.014	0.024	0.044	0.078	0.14	0.26	0.44	0.81	1.41	2.50	4.48
14.0	0.023	0.0044	0.0075	0.013	0.023	0.043	0.074	0.14	0.25	0.41	0.77	1.38	2.37	4.48
15.4	0.0022	0.0039	0.0072	0.0099	0.020	0.036	0.064	0.12	0.20	0.32	0.58	1.15	2.05	3.84
17.1	0.0022	0.0038	0.0065	0.0092	0.019	0.035	0.061	0.11	0.19	0.30	0.55	1.12	1.95	3.52
18.9	0.0018	0.0034	0.0059	0.0082	0.015	0.028	0.050	0.091	0.16	0.27	0.51	0.90	1.60	2.91
20.9	0.0017	0.0033	0.0058	0.0089	0.018	0.034	0.057	0.100	0.19	0.29	0.53	1.09	1.82	3.20
23.2	0.0014	0.0026	0.0046	0.0080	0.014	0.027	0.047	0.086	0.15	0.26	0.49	-	-	-
25.6	0.0014	0.0025	0.0044	0.0076	0.014	0.026	0.046	0.085	0.15	0.25	0.47	-	-	-



AGNEE Series H

Helical and Bevel Helical Gear Boxes



MOMENTS OF INERTIA - kg m²

Referred to High Speed Shafts

TRIPLE REDUCTION UNITS

Nominal Ratio	Type H3-H3SF			Type H3S-H3SF								Type H3-H3S-H3SF		
	Unit size			Unit size								Unit size		
	140	160	180	200	225	250	280	315	355	400	450	500	560	630
25.6	0.0014	0.0026	0.0048	0.0064	0.0110	0.021	0.040	0.067	0.13	0.21	0.39	0.67	1.28	2.14
28.4	0.0012	0.0023	0.0046	0.0069	0.0120	0.022	0.039	0.072	0.12	0.23	0.40	0.70	1.25	2.30
31.4	0.0012	0.0002	0.0042	0.0049	0.0083	0.016	0.030	0.051	0.097	0.17	0.27	0.51	0.96	1.63
34.7	0.0010	0.0019	0.0038	0.0055	0.0091	0.018	0.034	0.057	0.11	0.18	0.34	0.58	1.09	1.82
38.4	0.00091	0.0016	0.0034	0.0045	0.0074	0.015	0.027	0.047	0.087	0.15	0.26	0.48	0.86	1.50
42.5	0.00078	0.0013	0.0029	0.0043	0.0069	0.014	0.026	0.045	0.085	0.15	0.24	0.45	0.83	1.44
47.1	0.00083	0.0015	0.0025	0.0042	0.0068	0.014	0.025	0.044	0.084	0.14	0.24	0.45	0.80	1.41
52.1	0.0072	0.0013	0.0021	0.0034	0.0062	0.012	0.020	0.036	0.069	0.12	0.21	0.38	0.64	1.15
57.7	0.00071	0.0012	0.0020	0.0030	0.0053	0.0091	0.018	0.031	0.058	0.10	0.19	0.29	0.58	0.99
63.8	0.00068	0.0012	0.0019	0.0028	0.0050	0.0087	0.017	0.030	0.057	0.098	0.18	0.28	0.54	0.96
70.6	0.00068	0.0011	0.0017	0.0029	0.0052	0.0090	0.018	0.031	0.057	0.100	0.18	0.29	0.58	0.99
78.2	0.00066	0.00099	0.0019	0.0027	0.0048	0.0084	0.016	0.029	0.055	0.092	0.17	0.27	0.51	0.93
86.5	0.00059	0.00098	0.0019	0.0024	0.0041	0.0075	0.014	0.024	0.046	0.080	0.14	0.24	0.45	0.77
95.7	0.00054	0.00097	0.0016	0.0027	0.0048	0.0083	0.016	0.028	0.054	0.092	0.17	0.27	0.51	0.90
106	0.00043	0.00087	0.0013	0.0022	0.0039	0.0073	0.013	0.023	0.044	0.076	0.14	0.23	0.42	0.74
117	0.00053	0.00085	0.0013	0.0022	0.0038	0.0070	0.013	0.023	0.043	0.075	0.13			
130	0.00043	0.00085	0.0012	0.0022	0.0038	0.0070	0.013	0.023	0.043	0.075	0.13			

As improvements in design are continually being made, this specification is not to be regarded as binding in detail and dimensions are subject to alteration without notice.



AGNEE Series H

Helical and Bevel Helical Gear Boxes



MOMENTS OF INERTIA - kg m ²															
GD ² (Kg m ₂)= 4 x Moment of Inertia (kg m ²)															
DOUBLE REDUCTION UNITS															
Nominal Ratio	Type B2-B2SF			Type B2S-B2SF								Type B2-B2S-B2SF			
	Unit size			Unit size								Unit size			
	14.0	160	180	200	225	250	280	315	355	400	450	500	560	630	710
5.06	0.15	0.029	0.057	0.074	0.14	0.25	0.43	0.76	1.31	2.91	4.85	REFER TO AGNEE			
5.60	0.014	0.029	0.057	0.073	0.13	0.24	0.43	0.75	1.29	2.88	4.63				
6.20	0.014	0.027	0.055	0.069	0.13	0.23	0.41	0.71	1.22	2.73	4.41				
6.86	0.013	0.027	0.054	0.068	0.12	0.23	0.41	0.69	1.21	2.71	4.34				
7.59	0.013	0.026	0.053	0.054	0.097	0.18	0.32	0.55	0.96	2.12	3.54				
8.40	0.0065	0.013	0.026	0.044	0.077	0.14	0.26	0.44	0.80	1.70	2.81				
9.30	0.0064	0.013	0.025	0.033	0.063	0.11	0.21	0.36	0.62	1.36	2.26				
10.3	0.0060	0.012	0.025	0.032	0.062	0.11	0.20	0.34	0.60	1.33	2.21				
11.4	0.0059	0.0072	0.014	0.026	0.045	0.084	0.15	0.26	0.47	1.00	1.67				
12.6	0.0034	0.0071	0.013	0.021	0.036	0.067	0.12	0.20	0.37	0.81	1.34				
14.0	0.0032	0.0070	0.013	0.010	0.034	0.064	0.12	0.20	0.35	0.78	1.28				
15.4	0.0031	0.0067	0.0087	0.016	0.029	0.053	0.099	0.17	0.29	0.63	1.05				
17.1	0.0022	0.0045	0.0085	0.012	0.021	0.038	0.069	0.12	0.21	0.44	0.74				
18.9	0.0021	0.0043	0.0082	0.011	0.020	0.036	0.068	0.12	0.20	0.43	0.71				
TRIPLE REDUCTION UNITS															
Nominal Ratio	Type B3-B3SF			Type B3-B3S-B3SF-B3SF								Type B3-B3S-B3SF			
	Unit size			Unit size								Unit size			
	140	160	180	200	225	250	280	315	355	400	450	500	560	630	710
14.0	0.0036	0.0056	0.0098	0.022	0.042	0.077	0.12	0.22	0.39	0.67	1.20	2.46	3.84	7.04	REFER TO AGNEE
15.4	0.0034	0.0052	0.0094	0.021	0.041	0.076	0.12	0.021	0.38	0.65	1.17	2.45	3.84	6.72	
17.1	0.0033	0.0052	0.0094	0.020	0.038	0.071	0.11	0.020	0.34	0.61	1.11	2.27	3.52	6.40	
18.9	0.0032	0.0050	0.0092	0.019	0.037	0.070	0.10	0.019	0.34	0.59	1.08	2.24	3.20	6.08	
20.9	0.0031	0.0047	0.0086	0.015	0.027	0.052	0.076	0.015	0.26	0.45	0.80	1.66	2.43	4.80	
23.2	0.0029	0.0046	0.0084	0.014	0.026	0.052	0.075	0.014	0.25	0.44	0.79	1.66	2.40	4.48	
25.6	0.0028	0.0045	0.0081	0.011	0.021	0.041	0.059	0.011	0.20	0.35	0.63	1.31	1.89	3.52	
28.4	0.0028	0.0043	0.0079	0.013	0.025	0.049	0.071	0.014	0.24	0.40	0.72	1.57	2.27	4.48	
31.4	0.0013	0.0023	0.0078	0.010	0.020	0.039	0.056	0.011	0.19	0.31	0.57	1.25	1.79	3.52	
34.7	0.0013	0.0023	0.0037	0.010	0.020	0.039	0.056	0.011	0.19	0.31	0.57	1.25	1.79	3.52	
38.4	0.0013	0.0022	0.0036	0.0083	0.016	0.031	0.046	0.0083	0.15	0.25	0.46	0.99	1.47	2.66	
42.5	0.0012	0.0021	0.0036	0.0064	0.012	0.024	0.035	0.0069	0.12	0.21	0.37	0.77	1.12	2.21	
47.1	0.00065	0.0021	0.0033	0.0052	0.0099	0.019	0.028	0.0051	0.092	0.16	0.28	0.61	0.90	1.63	
52.1	0.00065	0.0012	0.0019	0.0041	0.0079	0.015	0.023	0.0041	0.074	0.12	0.22	0.48	0.74	1.31	
57.7	0.00061	0.0012	0.0019	0.0034	0.0065	0.012	0.019	0.0034	0.061	0.10	0.18	0.38	0.61	1.09	
63.8	0.00044	0.0012	0.0019	0.0034	0.0064	0.012	0.018	0.0033	0.060	0.10	0.18	0.38	0.58	1.06	
70.6	0.00044	0.00076	0.0013	0.0023	0.0044	0.0083	0.013	0.0023	0.041	0.070	0.13	0.27	0.42	0.74	
78.2	0.00042	0.00076	0.0013	0.0023	0.0043	0.0082	0.013	0.0023	0.041	0.069	0.12	0.26	0.42	0.74	
86.5	0.00043	0.00071	0.0012	0.0022	0.0041	0.0078	0.012	0.0022	0.039	0.068	0.12	-	-	-	
95.7	0.00041	0.00070	0.0012	0.0022	0.0041	0.0077	0.012	0.0022	0.038	0.067	0.12	-	-	-	
As improvements in design are continually being made, this specification is not to be regarded as binding in detail and dimensions are subject to alteration without notice.															



AGNEE Series H

Helical and Bevel Helical Gear Boxes



EXACT RATIOS

All Types

SINGLE REDUCTION UNITS

Nominal Ratio	Type H1			Type H1									Type H1			
	Unit size			Unit size									Unit size			
	140	160	180	200	225	250	280	315	355	400	450	500	560	630	710	
1.22	1.220	1.234	1.226	1.229	1.231	1.216	1.220	1.229	1.231	1.229	1.231	1.216	FOR HIGHER SIZES REFER TO AGNEE			
1.35	1.359	1.364	1.360	1.364	1.351	1.343	1.359	1.364	1.351	1.364	1.351	1.343				
1.50	1.500	1.500	1.511	1.484	1.486	1.500	1.500	1.484	1.514	1.484	1.486	1.500				
1.66	1.647	1.667	1.659	1.655	1.667	1.667	1.647	1.655	1.667	1.655	1.667	1.667				
1.84	1.844	1.838	1.829	1.852	1.839	1.828	1.844	1.815	1.833	1.852	1.839	1.828				
2.03	2.033	2.029	2.026	2.038	2.034	2.037	2.033	2.040	2.034	2.038	2.034	2.037				
2.25	2.250	2.250	2.259	2.250	2.259	2.240	2.250	2.261	2.259	2.250	2.259	2.240				
2.49	2.500	2.500	2.520	2.500	2.52	2.478	2.500	2.500	2.480	2.500	2.520	2.478				
2.76	2.750	2.762	2.739	2.762	2.739	2.769	2.750	2.778	2.739	2.762	2.739	2.762				
3.05	3.091	3.053	3.095	3.053	3.045	3.050	3.045	3.053	3.095	3.053	3.045	3.050				
3.38	3.333	3.389	3.400	3.389	3.400	3.444	3.333	3.391	3.350	3.389	3.400	3.444				
3.73	3.737	3.750	3.762	3.800	3.778	3.706	3.750	3.750	3.778	3.800	3.778	3.706				
4.13	4.111	4.176	4.118	4.158	4.190	4.158	4.056	4.150	4.118	4.158	4.118	4.125				
4.57	4.563	4.563	4.500	4.550	4.500	4.647	4.562	4.611	4.667	4.647	4.500	4.647				
5.06	5.056	5.059	5.105	5.063	5.056	5.062	5.056	5.059	5.053	5.062	5.056	5.062				

DOUBLE REDUCTION UNITS

Nominal Ratio	Type H2-H2SF			Type H2-H2S-H2SF									Type H2-H2S-H2SF			
	Unit size			Unit size									Unit size			
	140	160	180	200	225	250	280	315	355	400	450	500	560	630	710	
5.60	5.636	5.648	5.657	5.625	5.670	5.599	5.625	5.648	5.555	5.625	5.697	5.619	FOR HIGHER SIZES REFER TO AGNEE			
6.20	6.078	6.240	6.214	6.250	6.300	6.245	6.250	6.300	6.146	6.250	6.300	6.240				
6.86	6.814	6.895	6.875	6.905	6.848	6.978	6.875	7.000	6.788	6.905	6.848	6.850				
7.59	7.590	7.693	7.663	7.595	7.565	7.585	7.595	7.609	7.585	7.595	7.609	7.565				
8.40	8.333	8.362	8.427	8.472	8.500	8.680	8.333	8.546	8.302	8.472	8.500	8.542				
9.30	9.342	9.449	9.323	9.319	9.390	9.435	9.206	9.289	9.277	9.319	9.444	9.435				
10.3	10.348	10.489	10.370	10.450	10.434	10.151	10.357	10.272	10.462	10.450	10.494	10.155				
11.4	11.366	11.522	11.474	11.296	11.522	11.711	11.296	11.530	11.539	11.296	11.530	11.545				
12.6	12.505	12.802	12.600	12.664	12.750	12.958	12.667	12.812	12.415	12.708	12.750	13.015				
14.0	14.135	14.167	14.941	14.200	14.167	14.941	14.250	14.167	14.000	14.250	14.167	14.005				
15.4	15.287	15.441	15.260	15.462	15.512	15.500	15.167	15.261	15.568	15.462	15.678	15.265				
17.1	16.818	17.197	17.121	17.337	17.236	16.676	17.062	16.875	17.556	17.337	17.420	16.995				
18.9	18.706	19.003	18.529	19.211	19.111	18.919	18.984	18.958	19.125	19.211	19.111	18.725				
20.9	20.759	20.759	20.250	20.759	20.531	20.912	20.759	20.759	21.686	21.202	20.750	20.845				
23.2	23.319	23.066	22.781	23.003	22.765	23.724	23.098	23.312	23.625	23.493	22.765	-				
25.6	25.840	25.575	25.845	25.594	25.575	25.845	25.594	25.575	25.579	25.594	25.575	-				



AGNEE Series H

Helical and Bevel Helical Gear Boxes



EXACT RATIOS

TRIPLE REDUCTION UNITS

Nominal Ratio	Type H3-H3SF			Type H3-VH3-H3S-H3SF								Type H3-H3S-H3SF			
	Unit size			Unit size								Unit size			
	140	160	180	200	225	250	280	315	355	400	450	500	560	630	710
25.6	25.870	25.502	26.320	25.527	26.383	25.946	25.427	25.444	25.622	25.527	26.154	25.955	FOR HIGHER SIZES REFER TO AGNEE		
28.4	28.457	28.152	28.318	28.467	28.555	29.278	28.241	29.057	28.847	28.467	28.575	28.855			
31.4	31.257	31.812	31.600	31.686	32.345	31.449	31.199	31.583	31.438	31.686	32.531	31.455			
34.7	34.536	35.286	34.853	34.688	35.821	35.634	34.984	35.093	34.288	34.810	35.308	35.785			
38.4	38.361	39.363	38.606	38.407	39.688	39.037	38.282	39.203	39.104	38.407	39.716	39.465			
42.5	42.365	43.112	42.404	43.057	43.917	43.192	42.926	43.559	42.072	43.208	43.917	43.375			
47.1	47.706	48.043	47.400	48.280	48.796	46.471	48.292	48.167	47.444	48.450	48.796	46.675			
52.1	52.685	52.619	52.734	53.644	52.500	52.096	53.437	53.294	53.200	53.833	52.500	52.505			
57.7	56.979	57.353	57.032	57.633	57.611	57.487	57.982	57.375	59.206	57.000	59.536	56.645			
63.8	63.373	64.020	62.425	64.610	63.750	63.607	65.016	63.750	63.700	64.125	65.833	63.875			
70.6	69.721	72.573	69.431	69.008	68.625	72.087	70.544	70.550	73.137	69.106	70.918	69.625			
78.2	78.319	78.520	75.802	78.886	77.562	76.086	77.848	75.937	79.878	78.019	80.951	78.905			
86.5	87.201	85.584	82.841	85.958	85.430	88.380	87.707	88.932	87.551	88.100	85.430	85.875			
95.7	95.109	94.570	92.138	94.455	92.391	95.410	94.715	93.375	98.672	95.410	96.426	97.325			
106	106.298	102.576	103.500	104.950	103.939	105.721	105.018	105.934	109.787	107.189	105.04	105.405			
117	116.958	113.973	116.438	116.292	115.246	119.940	116.847	119.012	119.602	118.772	115.246	-			
130	130.718	126.371	132.099	129.391	129.474	130.663	129.474	130.568	129.493	129.391	129.474	-			

DOUBLE REDUCTION UNITS

Nominal Ratio	Type B2-B2SF			Type B2-VB2-B2S-B2SF-VB2 SA-VB2 CT								Type B2-B2S-B2SF			
	Unit size			Unit size								Unit size			
	140	160	180	200	225	250	280	315	355	400	450	500	560	630	710
5.06	5.118	5.124	5.196	5.124	5.112	5.120	5.112	5.124	5.196	5.124	5.112	REFER TO AGNEE			
5.60	5.595	5.688	5.707	5.688	5.707	5.782	5.595	5.693	5.623	5.688	5.707				
6.20	6.273	5.295	6.315	6.379	6.341	6.221	6.295	6.295	6.341	6.379	6.341				
6.86	6.901	7.011	6.912	6.979	7.034	6.979	6.808	6.966	6.912	6.979	6.912				
7.59	7.658	7.658	7.554	7.700	7.760	7.700	7.510	7.685	7.625	7.700	7.625				
8.40	8.400	8.400	8.427	8.476	8.542	8.476	8.267	8.460	8.394	8.476	8.394				
9.30	9.355	9.355	9.224	9.314	9.387	9.314	9.084	9.296	9.224	9.314	9.224				
10.3	10.220	10.220	10.080	10.192	10.080	10.409	10.220	10.329	10.453	10.409	10.080				
11.4	11.438	11.438	11.474	11.276	11.152	11.517	11.307	11.428	11.565	11.517	11.152				
12.6	12.738	12.738	12.559	12.567	12.429	12.835	12.601	12.735	12.889	12.835	12.429				
14.0	13.916	13.916	13.725	13.982	13.963	13.982	13.963	13.972	13.955	13.982	13.963				
15.4	15.429	15.429	15.327	15.441	15.419	15.441	15.419	15.441	15.411	15.441	15.419				
17.1	16.983	16.983	16.750	16.936	16.750	17.297	16.983	17.164	17.370	17.297	16.750				
18.9	18.830	18.830	19.003	18.844	18.818	18.844	18.818	18.830	18.807	18.844	18.818				



AGNEE Series H

Helical and Bevel Helical Gear Boxes



EXACT RATIOS															
TRIPLE REDUCTION UNITS															
Nominal Ratio	Type B3-B3SF			Type B3-B3S-B3SF								Type B3-B3S-B3SF			
	Unit size			Unit size								Unit size			
	140	160	180	200	225	250	280	315	355	400	450	500	560	630	710
14.0	13.988	14.035	14.597	14.140	14.248	14.315	13.968	14.094	14.075	14.140	14.329	FOR HIGHER SIZES REFER TO AGNEE			
15.4	15.495	15.860	15.847	15.855	15.831	15.401	15.714	15.585	15.873	15.855	15.922				
17.1	17.370	17.607	17.407	17.139	17.482	17.769	17.139	17.494	17.507	17.139	17.494				
18.9	19.079	19.341	19.260	19.218	19.424	19.117	19.282	19.345	19.743	19.218	19.438				
20.9	20.990	21.490	21.750	21.257	21.402	21.750	21.262	21.505	20.839	21.332	21.402				
23.2	23.660	23.780	23.401	23.836	23.780	23.401	23.920	23.780	23.500	23.920	23.780				
25.6	25.660	25.919	26.256	26.296	26.235	25.817	26.389	26.235	25.926	26.389	26.235				
28.4	28.331	28.641	28.416	29.102	28.932	27.993	28.641	28.326	29.468	29.102	29.240				
31.4	31.662	31.733	31.103	32.130	31.919	30.882	31.597	31.250	32.510	32.106	32.259				
34.7	34.243	34.588	35.037	35.037	35.406	34.649	34.172	34.583	35.435	35.130	35.161				
38.4	37.673	38.522	37.920	38.670	38.973	38.141	37.615	38.068	39.006	38.670	38.704				
42.5	41.900	42.567	41.506	42.494	42.827	41.912	41.334	41.832	42.862	42.494	42.531				
47.1	46.626	46.501	45.360	47.014	47.382	46.370	45.731	46.281	47.421	47.014	47.055				
52.1	51.052	52.452	51.632	52.394	52.805	51.677	50.965	51.579	52.849	52.394	52.440				
57.7	57.052	57.300	56.515	57.860	58.313	57.067	56.281	56.959	58.362	57.860	57.910				
63.8	63.288	63.316	61.763	63.316	62.620	63.781	63.316	63.287	66.143	64.667	63.287				
70.6	69.626	70.733	68.971	70.612	71.165	69.645	68.685	69.512	71.224	70.612	70.674				
78.2	78.213	77.271	75.375	77.271	76.422	77.838	77.271	77.236	80.721	78.919	77.236				
86.5	85.621	85.857	84.797	85.621	84.735	88.308	85.975	86.771	87.937	87.448	84.735				
95.7	96.180	95.196	96.202	95.266	95.196	96.202	95.266	95.196	95.210	95.266	95.196				



AGNEE Series H Helical and Bevel Helical Gear Boxes



EXACT RATIOS

QUADRUPLE REDUCTION UNITS

Nominal Ratio	Type B4-B4SF			Nominal Ratio	Type H4-H4SF		
	Unit Size				Unit Size		
	140	160	180		140	160	180
86.5	85.817	86.973	85.190	106	105.519	107.667	106.011
95.7	96.205	96.469	94.986	117	117.206	117.716	116.612
106	106.861	107.617	106.176	130	129.440	132.390	128.844
117	116.849	118.423	118.124	144	144.120	146.427	143.115
130	130.994	131.353	129.333	159	160.338	162.904	158.053
144	145.502	146.533	143.334	176	173.406	176.182	175.978
159	160.689	160.488	157.839	195	192.867	195.953	191.936
176	177.163	177.65	176.433	215	215.701	220.119	214.516
195	196.786	198.179	196.288	238	239.907	234.626	236.683
215	217.326	217.054	212.286	264	269.493	260.956	258.145
238	235.039	236.581	238.179	292	288.658	293.137	288.515
264	261.415	261.422	257.776	323	324.256	323.917	314.266
292	293.653	290.469	289.998	358	360.645	359.907	343.422
323	326.958	323.165	308.352	396	405.120	386.879	382.371
358	349.252	357.097	342.956	438	445.695	430.296	417.043
396	390.341	387.325	385.250	485	486.110	466.720	468.474
438	438.478	430.361	433.406	536	543.300	524.276	523.588
				594	597.784	582.529	589.037
				657	668.112	645.898	668.264



AGNEE Series H Helical and Bevel Helical Gear Boxes



NET WEIGHTS

All Types

Net Weights for Horizontal Units in kg (approx.)

Unit Type	Unit Size													
	140	160	180	200	225	250	280	315	355	400	450	500	560	630
H1	150	190	240	300	395	495	680	915	1210	1650	2265	2970	-	-
H2	235	265	300	360	470	590	810	1090	1445	1970	2690	3540	4860	6540
H2S	*	*	*	352	460	580	795	1070	1420	1930	2640	3480	4770	6420
H2SF	235	265	300	360	470	590	810	1090	1445	1970	2690	3540	4860	6540
H3	290	310	330	380	490	630	850	1150	1525	2080	2840	3780	5100	6900
H3S	*	*	*	373	480	620	835	1130	1500	2040	2790	3720	5010	6780
H3SF	290	310	330	380	490	630	850	1150	1525	2080	2840	3780	5100	6900
H4	295	320	345	*	*	*	*	*	*	*	*	-	-	-
H4SF	295	320	345	*	*	*	*	*	*	*	*	-	-	-
B2	270	285	305	340	455	560	750	1000	1520	2050	2680	3530	-	-
B2S	*	*	*	334	448	550	738	985	1500	2010	2630	3470	-	-
B2SF	270	285	305	340	455	560	750	1000	1520	2050	2680	3530	-	-
B3	300	310	330	380	490	630	850	1150	1525	2080	2840	3780	5100	6900
B3S	*	*	*	373	480	620	835	1130	1500	2040	2790	3720	5010	6780
B3SF	300	310	330	380	490	630	850	1150	1525	2080	2840	3780	5100	6900
B4	305	320	345	*	*	*	*	*	*	*	*	-	-	-
B4SF	305	320	345	*	*	*	*	*	*	*	*	-	-	-

As improvements in design are continually being made, this specification is not to be regarded as binding in detail and dimensions are subject to alteration without notice.



AGNEE Series H Helical and Bevel Helical Gear Boxes



APPROVED LUBRICANTS

Oil Capacities

AGNEE gear units are supplied without oil. Before operating it is essential to ensure that they are filled to correct oil levels, as indicated by markings on dipsticks, with lubricants recommended by AGNEE. Overfilling can cause overheating and leakage.

Correct lubricant is most important and it should be noted that EP oils are recommended in all instances.

Lubricants listed are suitable for normal ambient temperatures and operating duties. All gear units in this range are designed to operate under full load at a maximum temperatures of 110 degree C. Higher temperatures up to a maximum of 120 degree C are acceptable on the basis of peak periods of short duration only. In certain applications these maximum temperatures may be exceeded by the use of special lubricants. Such cases, or others where extreme conditions are to be met, e.g. low temperature operation or unusual loading conditions, should be referred, with full details, to AGNEE for recommendations.

Recommended lubricants are based on information provided by oil supplied and responsibility cannot be accepted for the quality or suitability of oil supplied, nor to any mechanical defect resulting from unsatisfactory lubrication due to the use of sub-standard oil.

RECOMMENDED MINERAL OIL WITH EP ADDITIVES LUBRICANT ISO VG320

Brand	Grade
Kluber Lubrication	Kluberoil GEM 1- 320 N
Motul	Supraco MPL 320
Bharat Petroleum	Cabol 320 or Amocam 320
Castrol	Alpha ZN320
Gulf	Harmony 320
Hindustan Petroleum	Enklo 320
Indian Oil	Servomesh SP320 or Servosystem 320
VeedOI	Avalon 320
Esso Petroleum Co. Ltd.	Sparton EP320
Shell Group	Omala Oil 320

RECOMMENDED SYNTHETIC OIL PAO BASED LUBRICANT ISO VG320

Brand	Grade
Kluber Lubrication	Klubersynth GEM 4- 320 N



AGNEE Series H Helical and Bevel Helical Gear Boxes



Oil Capacities

Oil Capacities for horizontal Units in litres (approx.)

Unit type	Unit Size														
	140	160	180	200	225	250	280	315	355	400	450	500	560	630	710
H1	6	9	13	18	25	35	45	70	95	130	180	245	-	-	-
H2	7	11	15	20	27	35	50	70	100	140	205	320	425	425	895
H2S	-	-	-	19	25	32	45	55	90	125	175	230	290	290	655
H2SF	7	11	15	20	27	35	50	70	100	140	205	320	425	425	895
H3	9	13	17	20	27	35	50	70	100	140	205	415	550	550	1150
H3S	-	-	-	19	25	32	45	55	90	125	175	315	405	405	870
H3SF	9	13	17	20	27	35	50	70	100	140	205	415	550	550	1150
H4	9	13	17	*	*	*	*	*	*	*	*	-	-	-	-
H4SF	9	13	17	*	*	*	*	*	*	*	*	-	-	-	-
B2	6	9	13	18	25	35	45	70	95	130	180	275	-	-	-
B2S	-	-	-	17	22	30	40	50	80	115	165	190	-	-	-
B2SF	6	9	13	18	25	35	45	70	95	130	180	275	-	-	-
B3	7	11	15	20	27	35	50	70	100	140	205	410	535	800	1095
B3S	-	-	-	19	25	32	45	55	90	125	175	315	405	575	835
B3SF	7	11	15	20	27	35	50	70	100	140	205	410	535	800	1095
B4	9	13	17	*	*	*	*	*	*	*	*	-	-	-	-
B4SF	9	13	17	*	*	*	*	*	*	*	*	-	-	-	-

As improvements in design are continually being made, this specification is not to be regarded as binding in detail and dimensions are subject to alteration without notice.



AGNEE Series H **Helical and Bevel Helical Gear Boxes**



Contact Details

AGNEE TRANSMISSIONS (INDIA) PRIVATE LIMITED

F-557, Road No. 6, Inderprasth Industrial Area,
Kota-324005, Rajasthan, India

Phone: 0744-2490773, 2363799 Fax: 2360835

Mobile No.: 09414187835

Email : info@agneetransmissions.com

Alternative Email : agneetransmissions@hotmail.com

Website : [www. agneetransmissions.com](http://www.agneetransmissions.com)

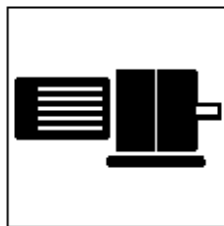
Dealer / Local Representative



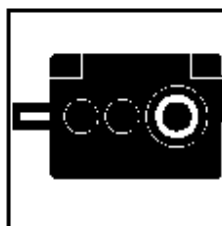
AGNEE Series H Helical and Bevel Helical Gear Boxes



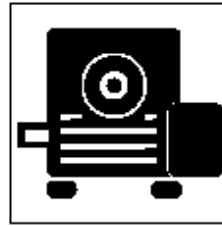
AGRICULTURE	AUTOMOTIVE	CEMENT
CHEMICAL	CONSTRUCTION	DEFENCE
ENERGY	FOOD & BEVERAGE	FORESTRY
MARINE	METALS	MINING
PULP & PAPER	QUARRYING	RUBBER & PLASTICS
TEXTILES	TRANSPORTATION	WATER
DREDGING	SUGAR MILLS	STONE PROCESSING



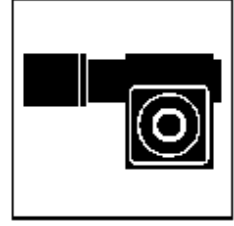
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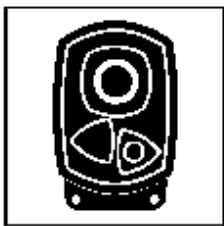
Industrial Reducers



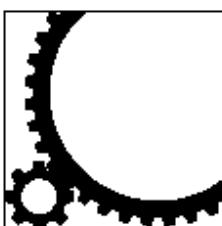
Worm



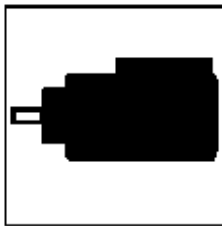
Precision Products



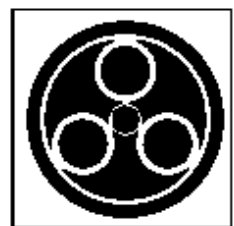
Shaft mount



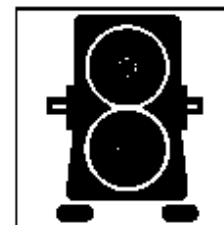
Horizontal Mill Drives



Vertical Mill Drives



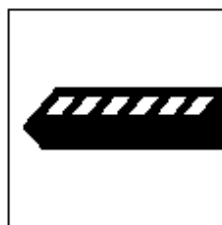
Planetary units



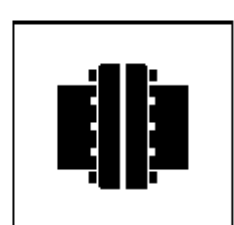
Special Drives



Defence Systems



Rail



Couplings

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