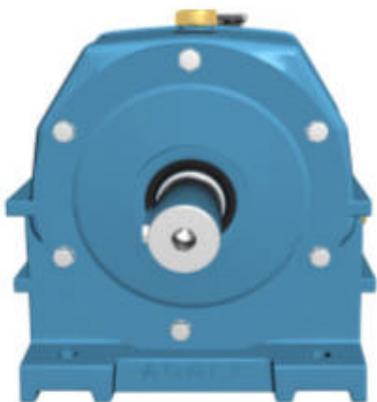


In Line Helical Gear Box and Geared Motors

TECHBOX AM



AGNEE manufactures primarily Industrial gears , Mechanical Engineering Power Transmissions Equipments like Geared Motors viz. Inline helical geared motors, Bevel Helical Geared Motors, Planetary gear boxes and geared motors, Helical and Bevel Helical gear Boxes, Shaft Mounted helical gear boxes, Worm gear boxes, 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:





Certificate of Registration

This certificate has been awarded to:

Agnee Transmissions (India) Pvt. Ltd.

F-557, Road No. 6, IPIA, Kota, Rajasthan, 324005, India

In recognition of the organization's Quality Management System which complies with:

ISO 9001:2008

The scope of activities covered by this certificate is defined below:

Manufacture of Gears and Gear Boxes

Certificate Number:

I490040001W0074x

Issue No:

1

Issued by:

Date of Issue (Original)

10 March 2007

Expiry Date:

14 March 2010

Date of Issue:

10 March 2010

On behalf of the Company Manager



Certificate of Registration

This certificate has been awarded to:

Agnee Transmissions (India) Pvt. Ltd.

F-557, Road No. 6, IPIA, Kota, Rajasthan, 324005, India

In recognition of the organization's Quality Management System which complies with:

ISO 9001:2008

The scope of activities covered by this certificate is defined below:

Manufacture of Gears and Gear Boxes

Certificate Number:

I490040001W0074x

Issue No:

2

Issued by:

Date of Issue (Original)

19 March 2007

Expiry Date:

14 March 2010

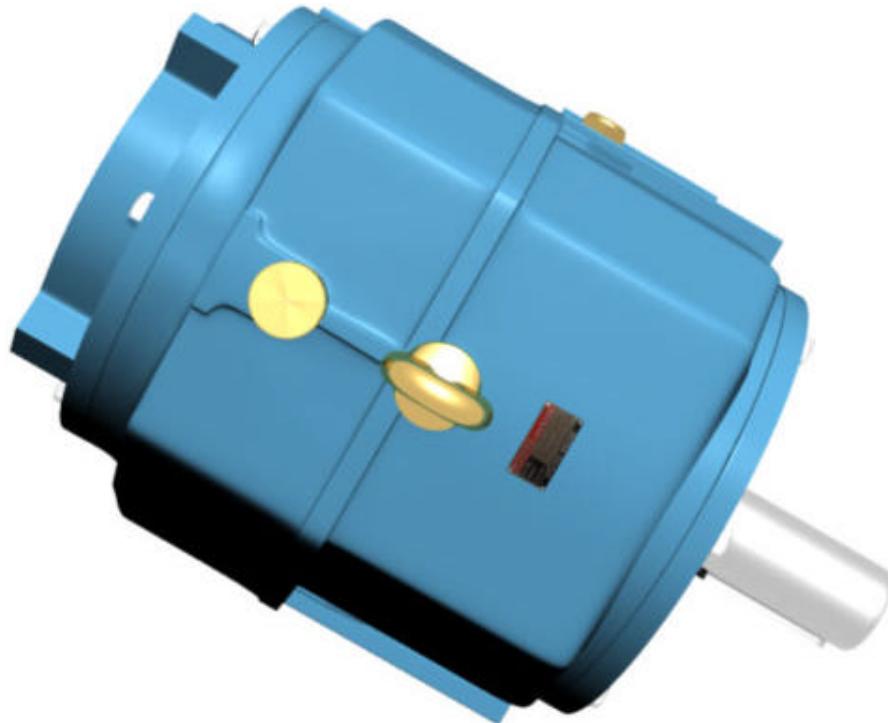
Date of Issue:

10 March 2010

Expiry Date:

14 March 2010

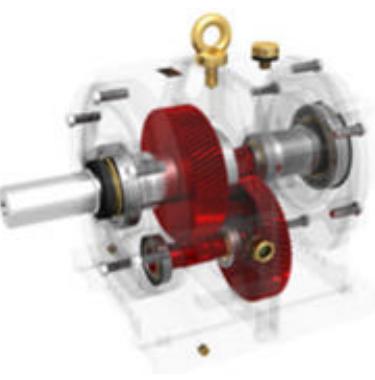
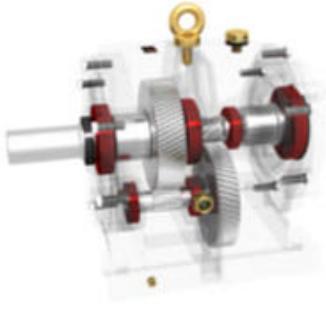
On behalf of the Scientific Manager



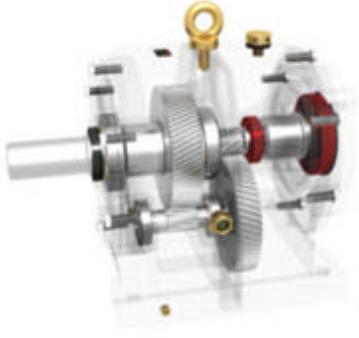
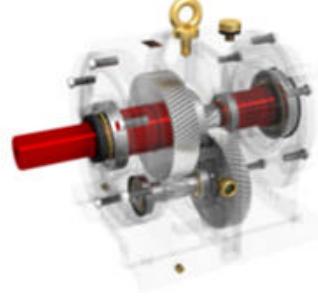
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Technical Characteristics

<ul style="list-style-type: none"> TECHBOX Helical Gear Units are designed for continuous duty under difficult operating conditions 	
<ul style="list-style-type: none"> State of the art gear box housing designed for operation under harsh conditions Gear case and flanges of high strength gray cast iron Compact closed rigid, precise, monobloc, cast iron housing for preventing of lubrication loss and dirt built up. 	
<ul style="list-style-type: none"> Gear Wheels made of high strength case hardened steel Highly wear resistant though flank hardness of 58-62 HRC Tooth Flanks of all gear wheels are hobbed and profile ground to AGMA 10 accuracy for low noise and high efficiency. 	
<ul style="list-style-type: none"> Strong, non flexible pinion shafts and bearings guarantee an exact tooth meshing Oversize bearings size to withstand higher loads 	

AGNEE TECHBOX – AM: Inline helical geared Motor & Reducer

<ul style="list-style-type: none"> Dual bearing support on the input shaft assures precise alignment of the first stage gears and reduces vibrations and consequent gear wear 	
<ul style="list-style-type: none"> Shafts are made from En-8 and tempered thus increasing their capacity to withstand shearing stress To withstand higher radial loads, Smaller overhang distance of output shaft from supporting bearings. Mechanical parts locked in their positions by snap rings and spacers. This also ensures better absorption of axial thrust and prolongs the life of bearings. 	
<ul style="list-style-type: none"> Higher ratio available through attachment of pre stage or pre connected gear box Ratios available from 1.4 - 250 	

ABOUT AGNEE TECHBOX CONCEPT

AGNEE TECHBOX™ is designed to be the most competitive high-efficiency gear reducer series in today's market. The key development factor of AGNEE TECHBOX™ is the Modularity Concept: modular production, modular assembly, modular gear reducers.

TECHBOX™ is built with standardized parts, sharing gears, shafts and input sets to simplify the production process and improve delivery. The interchangeable parts make TECHBOX™ gear reducers the most flexible reducer series available.

TECHBOX™ reducers can be easily adapted for any application. AGNEE has developed a new, flexible, high performance gear reducer series while improving production and performance quality.

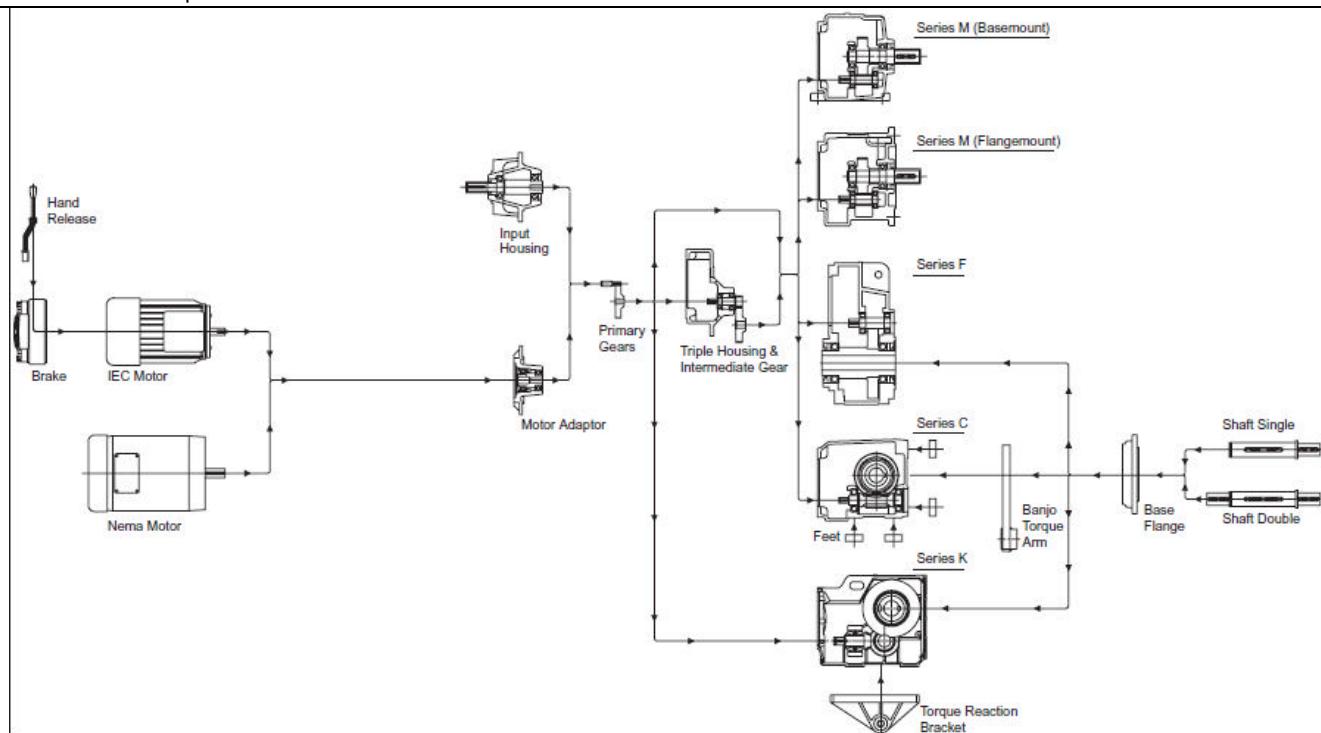
TECHBOX™ introduces key design changes that reflect AGNEE'S commitment to innovation:

The TECHPARTS™ system is designed to standardize parts throughout the TECHBOX™ series, lowering cost, shortening lead times and increasing application flexibility. High-speed helical gears are a common part in the TECHBOX™ line, used in all series (AM, AC, AF and AK). While output shafts are common between the C, F and K series. All series also share an interchangeable input set, including the input flanges, allowing parts to be preassembled for faster production and better quality.

All TECHBOX™ reducers feature the TORQUECASE™ one piece castings of the main housing that enable the reducer to transmit more torque. The TORQUECASE™ also allows for more distance between support bearings, distributing loads more evenly and increasing overhung load ratings.

TORQUECASE™ uses the interchangeable input sets of the TECHPARTS™ system, so each reducer's power section can be tailored

For maximum torque.



Explanation and use of ratings & Service factor

Service Factor

The Service factor of a gear box is its capacity to withstand the operating loads and overloads, a certain number of starts, the duration of operating time, mechanical shocks and vibrations. Thus, higher the service factor greater is the possibility of trouble free operation and increased life.

Rated output torque , M_{n2} [Nm]

Torque transmissible through output shaft, under uniform loading and based on service factor $fm=1$, and referred to specific input speeds n_1 and corresponding output speed n_2 .

The Rated output torque can be calculated with following formula:

$$M_{n2} = \frac{P_{n1} [\text{kW}] \cdot 9550}{n_2} \cdot \eta$$

Torque demand , M_{r2} [Nm]

Torque calculated based on application requirements. It must always be equal to or less than rated output torque M_{n2} for the chosen TECHBOX unit.

Input rated power, P_{n1} [kW]

This is the power value of the motor applied to the input shaft and corresponding to a certain input speed n_1 , a service factor $fm=1$

It is possible to calculate the motor size necessary for the particular application by using the formula:

$$P_{n1} [\text{kW}] = \frac{M_{r2} \cdot n_2}{9550 \cdot \eta}$$

Since the value calculated by above formula could not really correspond to an input power actually available in the market in the IEC standardized motors, it will be necessary to choose among the input powers available, the one which is immediately higher than the calculate Power P_{n1}

EFFICIENCY [η]

An inherent factor in the selection of helical gear box is the efficiency η , defined as the ratio between the mechanical power coming out from the output shaft, and power in the input shaft:

$$\eta = \frac{P_{n2}}{P_{n1}}$$

The efficiency in helical gearboxes is mainly determined by the gearing and bearing friction. The efficiency of TECHBOX AM series gear boxes varies with the number of stages. It is 96% when the reduction stages are 2 and 94% when the stages are 3.

The starting efficiency is always less than the efficiency at rated speed.

GEAR RATIO [i]

The value for the gear ratio is referred to with the letter [i], and calculated through the relationship of the input speed n_1 to the output speed n_2 .

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

In the combined gear boxes, the total ratio is the result of the product of the ratio of the two single gear boxes.

INPUT SPEED n_1 (rpm)

It is the speed the TECHBOX unit is driven at.

OUTPUT SPEED n_2 (rpm)

It is the rotation speed of the output shaft.

Gear unit selection is made by comparing actual loads with catalogue ratings. Catalogue ratings are based on a standard set of loading conditions, whereas actual load conditions vary according to type of application. Service Factors are therefore used to calculate an equivalent load to compare with catalogue ratings.

i.e. Equivalent Load = Actual Load x Service Factor

Mechanical ratings and service factor: Fm

Mechanical ratings measure capacity in terms of life and/or strength, assuming 10 hr/day continuous running under uniform load conditions.

Catalogue ratings allow 100% overload at starting, braking or momentarily during operation up to 10 hours per day.

The unit selected must therefore have a catalogue rating at least equal to half maximum overload.

Mechanical Service Factor Fm (Table 1) is used to modify the actual load according to daily operating time, and type of loading.

Load characteristics for a wide range of applications are detailed in Table 3, which are used in deciding the appropriate Service Factor Fm from Table 1.

If overloads can be calculated, or accurately assessed, actual loads should be used instead of Fm.

For units subjected to frequent stop/starts overloads in excess of 10 times/day, multiply factor Fm x Factor Fs (table 2).

For applications where units are to operate in extremely dusty or moist/humid atmospheres unit selections should be referred to AGNEE application engineers.

Table 1. Mechanical Service Factor (Fm)

Prime mover	Duration of service-hrs per day	Load classification-driven machine		
		Uniform mass acceleration factor ≤ 0.2	Moderate mass acceleration factor ≤ 3	Heavy mass acceleration factor ≤ 10
Electric motor, steam turbine or hydraulic motor	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
	Under 3	1.00	1.25	1.75
Multi-cylinder internal combustion engine	3 to 10	1.25	1.50	2.00
	Over 10	1.50	1.75	2.25
	Under 3	1.25	1.50	2.00
Single cylinder internal combustion engine	3 to 10	1.50	1.75	2.25
	Over 10	1.75	2.00	2.50

Table 2. Number of Starts Factor (Fs)

Start / Stops per hour (1)	Up to 1	5	10	40	60	≥ 200
Factor Fs	1.00	1.03	1.06	1.10	1.15	1.20

LUBRICATION

TECHBOX AM Series gear boxes are equipped with fill, drain and level plugs. The speed reducer is supplied un-lubricated and the oil shall be filled by the Customer before start-up. The table below indicates the approximate quantity to be filled in the reducer, according to its mounting position.

Correct level is at mid height of the sight glass.

NOTE: When ordering, always indicate the reducer mounting position.

TECHBOX AM Series gear boxes require an oil change: -10,000 hours for mineral oil, -20,000 hours for synthetic oil

TABLE 1 LUBRICANT QUANTITY (Litres) Oil Quantities are approximate, fill gearbox until oil escapes from level plug hole

MOUNTING POSITION	Unit Size	Double and Triple Reduction							
		AM0320	AM0330	AM0420	AM0430	AM0620	AM0630	AM0720	AM0730
B3	0.6	0.8	0.6	0.9	1.7	1.8	2.8	3.0	
	B7	0.6	0.8	0.6	0.9	2.1	2.4	4.0	4.9
	B6	0.8	1.0	1.1	1.3	2.4	2.8	4.4	5.4
	B8	0.8	1.0	1.1	1.3	2.7	3.4	5.4	7.0
	V5	0.8	1.7	1.4	2.1	3.5	4.8	5.2	9.0
	V6	1.0	1.5	1.6	2.1	3.2	4.8	6.0	9.0
	B5	0.6	0.8	0.6	0.9	1.7	2.2	3.3	3.4
	V1	0.8	1.7	1.4	2.1	3.1	5.0	6.3	10.0
	V3	1.0	1.5	1.6	2.1	3.6	5.0	6.8	9.0
MOUNTING POSITION	Unit Size	Double and Triple Reduction							
		AM0820	AM0830	AM0920	AM0930	AM1020	AM1030	AM1320	AM1430
		46	6.4	10.5	11.5	11.0	11.0	17.0	17.0
		B7	68	7.1	12.0	11.5	22.0	23.0	31.0
		B6	73	6.9	12.0	11.5	22.0	23.0	31.0
		B8	64	6.9	12.0	11.5	19.0	20.0	28.0
		V5	10.0	8.0	16.8	16.8	32.0	32.0	47.0
		V6	96	9.3	16.4	16.5	26.0	27.0	38.0
		B5	26	2.4	5.5	6.0	8.0	8.0	14.0
		V1	95	9.0	16.0	16.0	22.0	22.0	45.0
		V3	10.5	10.0	17.0	19.0	28.0	29.0	43.0

TEMPERATURE LIMITATIONS

The standard lubricant is suitable for operation in ambient temperatures of 0° to 35°C, outside of this consult Table 2 or AGNEE Application Engineers .

TABLE 2 RECOMMENDED LUBRICANTS

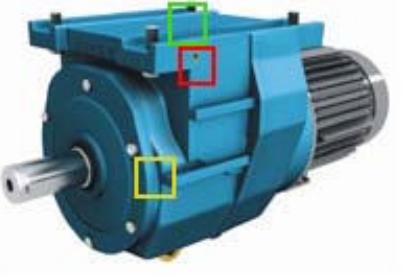
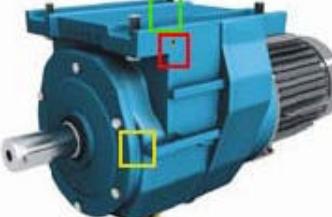
LUBRICANT SUPPLIER	LUBRICANT RANGE NAME	Numbers in Brackets indicates recommended minimum Operating Temperature °C			
		ISO Viscosity / Grade No.	220 / 5E	320 / 6E	
Type E - Mineral Oils containing industrial EP additives		460 / 7E			
		AMBIENT TEMPERATURE RANGE °C			
		-5 TO 20	0 TO 35	20 TO 50	
BP Oil International Limited	Energol GR-XF	220 (-16)	320 (-13)	460 (-1)	
		220 (-15)	320 (-10)	460 (-7)	
Caltex	Meropa RPM Borate EP Lubricant	220 (4)	320 (-4)	460 (-4)	
		220 (-7)	320 (-4)	460 (-7)	
Carl Bechem Gmbh	Berugear GS BM Staroil G	220 (-20)	320 (-13)	460 (-10)	
		220 (-13)	320 (-13)	460 (-10)	
Castrol International	Alpha Max Alpha SP	220 (-19)	320 (-13)	460 (-10)	
		220 (-16)	320 (-16)	460 (-1)	
Chevron International Oil Company Limited	Gear Compound EP (USA Version) Gear Compound EP (Eastern ver)	220 (-16)	320 (-13)	460 (-10)	
		220 (-13)	320 (-13)	460 (-13)	
		Ultra Gear	320 (-7)	460 (-7)	
Esso	Spartan EP	220 (-16)	320 (-13)	460 (-7)	
		220 (-12)	320 (-12)	460 (-4)	
Fuchs Lubricants	Powergear Renogear V	220 EP(-13)	P/Gear(-16) 320 EP(-4)	M460 (-4) 460 EP(-4)	
		220 (-7)	320 (-4)	400 (-4)	
		Renoln CLPF Super	6 (-13)	8 (-10)	
Kluber Lubrication	Klüberoil GEM1	220 (-5)	320 (-5)	460 (-5)	
Mobil Oil Company Ltd	Mobil gear 600 Series Mobil Gear XMP	630 (-13)	632 (-13)	634 (-1)	
		220 (-19)	320 (-13)	460 (-7)	
Petro-Canada	Ultima EP	220 (-22)	320 (-16)	460 (-10)	
Shell Oils	Omala Omala F	220 (4)	320 (-4)	460 (-4)	
		220 (-13)	320 (-10)	460 (-4)	
Total	Carter EP Carter VP/ CS	220 (-7)	320 (-7)	460 (-4)	
		220 (-16)	320 (-13)	460 (-7)	

LUBRICANT SUPPLIER	LUBRICANT RANGE NAME	Numbers in Brackets indicates recommended minimum Operating Temperature °C		
		ISO Viscosity / Grade No.		
		220 / 5H	320 / 6H	460 / 7H
		AMBIENT TEMPERATURE RANGE °C		
		-30 to 20	0 TO 35	20 TO 50
BP Oil International Limited	Enersun EPX	320 (-28)		
Caltex	Pinnacle EP	220 (43)	320 (-43)	460 (-37)
Carl Bechem GmbH	Berusynth GP	220 (38)	320 (-35)	460 (-32)
Castrol International	Alphasyn GP	220 (37)	320 (-31)	460 (-31)
	Alphasyn T	220 (31)	320 (-28)	460 (-28)
Chevron International Oil Company Limited	Tegra	220 (46)	320 (-33)	460 (-31)
Esso- Exxon Fuchs Lubricants (UK) Plc	Spartan Synthetic EP	220 (46)	320 (-43)	460 (-40)
	Renogear SG	220 (32)	320 (-30)	
	Renolin unisyn CLP	220 (37)	320 (-34)	460 (-28)
Kluber Lubrication	Klubersynth GH6	220 (35)	320 (-35)	460 (-30)
Kuwait Petroleum International	Q8 EL Greco	220 (22)	320 (-19)	460 (-16)
Mobil Oil Company Ltd	Mobilgear SHC 630	220 (-40)	320 (-37)	460 (-32)
	Mobilgear SHC XMP	220 (-40)	320 (-33)	460 (-31)
Petro-Canada	Super gear Fluid	220 (-43)	320 (-37)	460 (-37)
Shell Oils	Tivela	220 (-43)	320 (-40)	460 (-37)
Total	Carter SP	220 (-34)	320 (-31)	460 (-28)
Tribol GmbH	Tribol 1510	220 (-36)	320 (-33)	460 (-28)

OPERATING TEMPERATURE

- The operating temperature depends on a number of factor such as type of power transmission, the type and quantity of lubricant, the characteristics and structure of the gear box, the speed and power applied and the environment in which gear box is operating.
- With the TECHBOX, the acceptable operating temperature range can be up to 50° C more than the ambient temperature(maximum 45°C) because of the compactness and the lower quantity of oil contained in the Modern TECHBOX.
- With a standard TECHBOX, the maximum allowable inside temperature is 80° C. Higher temperature could damage the oil seals.
- In case of control, it is important to check the operating temperature when the gearbox runs at normal speed is constant ; his indicates that the gear box is running in a trouble free manner.

MOUNTING POSITIONS

B3	B8	B6
		
V5	V6	V7
		
		
Breather Plug	Level Plug	Drain Plug

MAINTENANCE

For Gearboxes, the first oil change must take place after about 300 hours of operation, carefully flushing the gear unit using suitable detergents.

Do not mix mineral oils with synthetic oils.

Check oil level regularly and change oil at the intervals:

TECHBOX Series gear boxes require an oil change as per table mentioned below:

Oil temperature [°C]	Oil change interval	
	mineral oil	synthetic oil
< 65	8000	25000
65 - 80	4000	15000
80 - 95	2000	12000

INSTALLATION

The following installation instructions must be observed:

- Make sure that the TECHBOX gear box is correctly secured to avoid vibrations.
- If shocks or overloads are expected, install hydraulic couplings, clutches, torque limiters, etc.
- For Satisfactory TECHBOX performance, it is essential to align correctly the motor and the driven machine.
- If TECHBOX is repainted, protect the breather plug hole, the machined surfaces and the outer face of the oil seals to prevent paint drying out the rubber and damaging the sealing properties.
- Before mounting clean and lubricate Mating surfaces must be cleaned and treated with suitable protective products before mounting to avoid oxidation and, as a result, seizure of parts. Coat the hollow shaft with an anti-sieze compound.
- Whenever there are outer loads it is recommended to use pins and positive stops.
- Self locking adhesives should be used on the bolts and joining surfaces of the machine frame to ensure that TECHBOX unit remains surely fixed to the machine in spite of the normal vibrations which any machine would generate.
- Avoid fitting cantilever pinions. If this is not possible, minimize the distance between pinion and output shaft to avoid excessive radial Loads.
- Keep preloading of belts and chains to the minimum.
- Never use the hammer for mounting/dismantling of the keyed parts, but use the tapped hole provided on the head of the shaft.
- Parts fitted on the gearbox output shaft must be machined to ISO H7 tolerance to prevent interference fits that could damage the gearbox itself. Further, to mount or remove such parts, use suitable pullers or extraction devices using the tapped hole located at the top of the shaft extension.
- Prior to putting the gear unit into operation make sure that the equipment that incorporates the same complies with the current revision of the Machines Directive..
- Before starting up the machine, make sure that oil level conforms to the mounting position specified for the TECHBOX unit By checking the level Plug..
- For outdoor installation provide adequate guards in order to protect the drive from exposure to rainfalls, dust as well as direct sun radiation.
- Verify the correct direction of the output shaft before assembling the unit on the machine.

STORAGE

Please follow the following instructions to ensure correct storage of the products:

- a) Do not store outdoors, in areas exposed to weather or with excessive humidity.
- b) Always place wooden boards or other material underneath the product, to avoid the direct contact with the floor.
- c) In case of long-term storage (storage period more than 60 days) all machined surfaces such as flanges, shafts and couplings must be coated with a suitable rust inhibiting product (anti-oxidation coating)
- d) Furthermore gear units must be placed with the fill plug in the highest position and filled up with oil. Oil seals must be touched with oil. Before putting the units into operation the appropriate quantity, and type, of oil must be restored.
- e) At intervals of 4 to 5 months, the output shafts should be rotated.

TRANSPORTATION

CONDITIONS OF SUPPLY

Gear units are supplied as follows:

- a) configured for installation in the mounting position specified when ordering;
- b) tested to factory specifications;
- c) mating machined surfaces unpainted;
- d) nuts and bolts for mounting motors are provided;
- e) shafts are protected;
- f) supplied with lifting lug, (where applicable).
- e) AGNEE dispatches the TECHBOX in Packing suitable for transportation. However if any damage is observed on receipt of the box / carton containing the gear box, our sales executive or customer care executive must be informed about such a damage.

Types and version of TECHBOX- AM Gear Units

The Range Includes

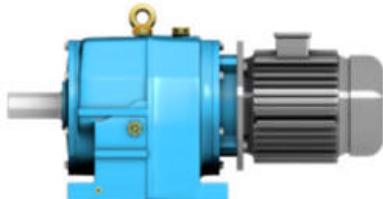
Nine sizes of unit with a ratio coverage of 1.4/1 to 70/1 in double reduction and up to 250/1 in triple reduction .

Version B – Base Mounted, Version F – Flange Mounted, Unit type M - Motorised

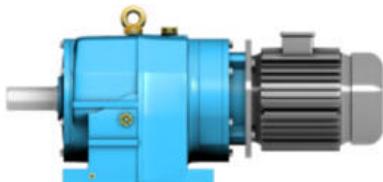
Unit type G - Motorised (non std motor) , Unit type R - Reducer , Unit type S - Reducer unit fitted with a fan

Unit type X - Reducer unit fitted with a backstop, UNIT type Y - Reducer unit with a fan & backstop

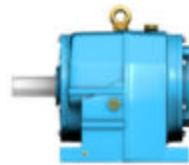
Two Stage base Mount Motorised Gear Unit , generally known as foot mounted geared motor.



Three Stage base Mount Motorised Gear Unit, generally known as foot mounted geared motor.



Two Stage base mounted gear unit without motor, generally known as foot mounted, hollow input gear box



Three Stage base mounted gear unit without motor, generally known as foot mounted, hollow input gear box



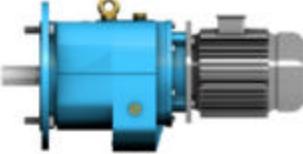
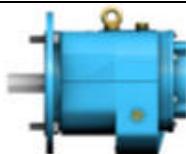
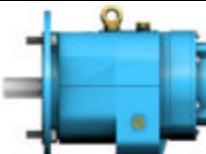
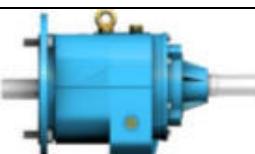
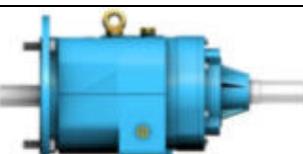
Two Stage base mounted gear reducer generally known as foot mounted, solid input gear box



Three Stage base mounted gear reducer generally known as foot mounted, solid input gear box

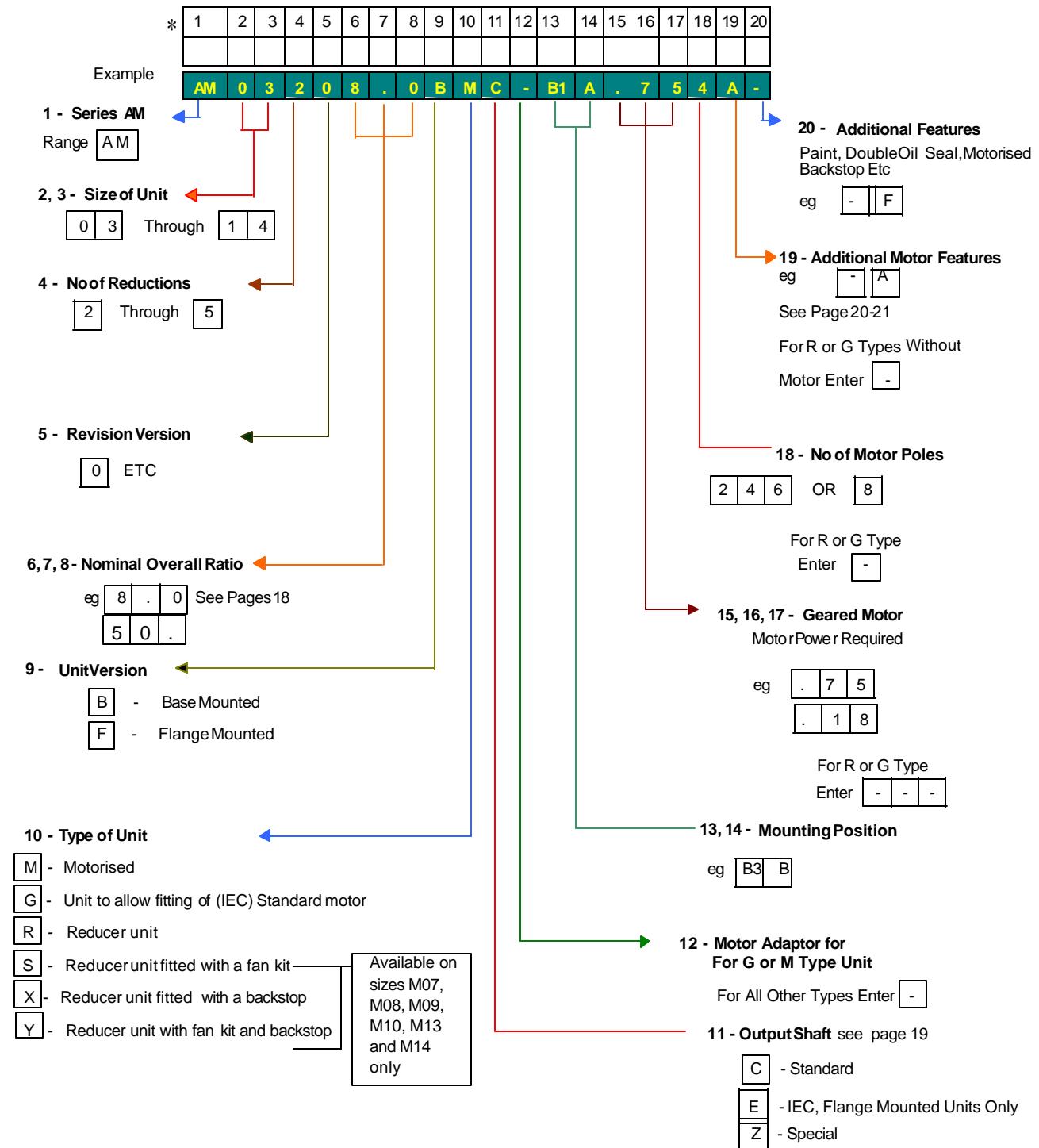


Types and version of units- TECHBOX- AM Gear Units

Two Stage Flange Mount Motorised Gear Unit , generally known as flangemounted geared motor.	
Three Stage Flange Mount Motorised Gear Unit, generally known as flange mounted geared motor.	
Two Stage flange mounted gear unit without motor, generally known as flange mounted, hollow input gear box	
Three Stage flange mounted gear unit without motor, generally known as flange mounted, hollow input gear box	
Two Stage flange mounted gear reducer generally known as flange mounted, solid input gear box	
Three Stage flange mounted gear reducer generally known as flange mounted, solid input gear box	

UNIT DESIGNATIONS

* This Page May Be Photocopied Allowing The Customer To Enter Their Order



*

EXACT RATIOS

EXACT RATIOS-DOUBLE REDUCTION

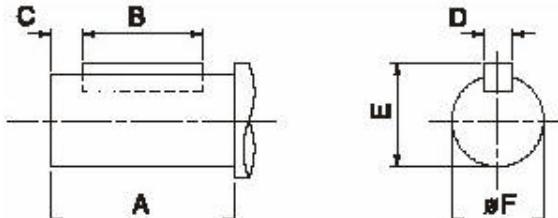
Nominal Ratio	AM0320	AM0420	AM0620	AM0720	AM 0820	AM0920	AM1020	AM1320	AM 1420
1 . 4	1.440	1.454	1.448	1.453	1.449	1.479	1.442	-	-
1 . 8	1.945	2.039	2.033	2.013	2.054	2.036	2.015	-	-
2 . 2	2.213	2.247	2.278	2.261	2.282	2.282	2.191	-	-
2 . 5	2.507	2.552	2.557	2.486	2.538	2.562	2.489	-	-
2 . 8	2.945	2.815	2.812	2.881	2.909	2.969	2.992	2.904	2.888
3 . 2	3.206	3.241	3.248	3.247	3.282	3.301	3.242	3.189	3.247
3 . 6	3.455	3.682	3.681	3.692	3.684	3.688	3.500	3.638	3.822
4 . 0	3.979	3.949	3.953	3.991	4.123	4.088	4.179	4.025	4.029
4 . 5	4.526	4.351	4.431	4.483	4.580	4.582	4.545	4.421	4.537
5 . 0	5.066	5.034	5.040	5.094	5.117	5.073	4.938	5.042	5.333
5 . 6	5.762	5.547	5.649	5.722	5.684	5.686	5.370	5.538	6.005
6 . 3	6.557	6.276	6.316	6.438	6.588	6.628	6.724	6.210	6.548
7 . 1	7.067	7.130	7.160	7.320	7.396	7.404	7.260	6.879	7.270
8 . 0	8.348	8.000	8.053	8.218	8.175	8.224	7.945	7.779	8.667
9 . 0	8.997	9.088	9.129	9.344	9.178	9.188	8.578	8.618	9.623
1 0 .	10.11	9.705	9.832	9.778	10.22	10.27	10.59	9.891	10.06
1 1 .	11.56	11.03	11.44	11.24	11.90	11.71	11.98	11.20	11.43
1 2 .	12.88	12.37	12.54	12.48	12.68	12.74	12.51	12.39	13.32
1 4 .	14.71	14.05	14.58	14.34	14.76	14.53	14.16	14.03	15.13
1 6 .	15.60	15.87	16.16	16.09	16.34	16.59	16.43	15.97	16.43
1 8 .	18.28	17.25	17.25	18.20	18.44	18.43	18.25	18.00	18.11
2 0 .	19.86	20.23	20.61	20.54	20.27	20.59	19.41	20.00	21.75
2 2 .	23.27	21.99	22.00	23.23	22.89	22.87	21.57	22.55	23.97
2 5 .	25.56	24.85	25.25	25.16	26.07	26.04	26.03	25.45	26.07
2 8 .	28.40	28.00	27.65	27.56	28.64	28.74	29.99	28.35	28.25
3 2 .	32.54	31.68	32.19	32.12	32.35	32.31	30.76	31.89	34.51
3 6 .	36.16	35.69	35.25	35.17	35.54	35.67	35.44	35.52	37.39
4 0 .	38.73	39.37	38.75	39.24	40.82	40.25	37.06	39.01	39.42
4 5 .	43.03	44.36	42.43	42.98	44.84	44.44	42.70	43.45	42.71
5 0 .	49.91	47.09	48.15	48.56	47.56	49.07	47.93	48.63	51.27
5 6 .	56.72	53.54	54.00	53.96	54.76	55.18	51.49	51.74	57.52
6 3 .	59.39	58.54	57.96	59.34	60.00	61.13	57.75	59.49	58.57
7 1 .	67.50	66.65	65.00	65.93	69.09	68.74	62.05	63.29	65.70

EXACT RATIOS-TRIPLE REDUCTION

Nominal Ratio	AM0330	AM 0430	AM 0630	AM 0730	AM 0830	AM 0930	AM 1030	AM 1330	AM 1430
3 6 .	36.12	35.19	35.47	35.49	-	-	-	--	
4 0 .	41.28	40.22	40.30	41.28	-	-	-	39.93	41.38
4 5 .	45.99	44.86	45.23	45.30	-	-	-	44.18	48.21
5 0 .	52.55	51.26	51.38	52.69	-	-	-	50.02	54.75
5 6 .	55.71	54.28	58.00	58.34	59.07	59.85	60.23	56.93	59.46
6 3 .	65.27	63.60	63.06	62.29	66.68	66.49	66.93	64.17	65.55
7 1 .	70.93	69.19	73.95	74.47	73.30	74.26	71.17	71.32	78.70
8 0 .	83.10	81.07	80.40	79.51	82.74	82.51	79.08	80.39	86.76
9 0 .	91.29	88.94	90.84	91.15	94.26	93.92	95.44	90.75	94.35
1 0 0 0	101.4	98.82	102.4	99.80	103.5	103.7	110.0	101.1	102.2
1 1 2	116.2	113.4	115.8	116.3	117.0	116.5	112.8	113.7	124.9
1 2 5	129.1	126.0	130.5	127.4	128.5	128.7	129.9	126.6	135.3
1 4 0	138.3	140.9	139.4	142.2	147.6	145.2	135.9	139.1	142.7
1 6 0	153.7	156.6	157.1	155.7	162.1	160.3	156.6	154.9	154.6
1 8 0	178.2	173.9	172.2	174.0	171.9	177.0	175.7	173.4	185.6
2 0 0	202.6	197.6	195.8	195.2	198.0	199.0	188.8	184.5	208.2
2 2 5	212.1	216.1	207.3	212.6	216.9	220.5	211.8	212.1	212.0
2 5 0	241.1	245.6	235.6	238.5	249.8	248.0	227.5	225.6	237.8

OUTPUT SHAFT OPTIONS ADDITIONAL FEATURES

OUTPUTSHAFT OPTIONS.

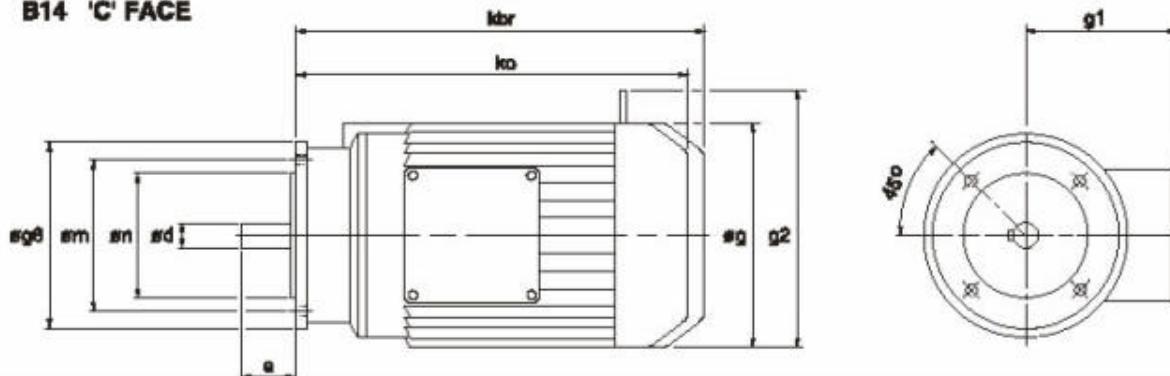


**IEC available on flange mount units only

Size of unit		AM 03		AM 04		AM 05		AM 07		AM 08		AM 09	AM 10	AM 13	AM 14
Type of Output Shaft	Standard	IEC**	Std./IEC**	Std./IEC**	Std./IEC**	Std./IEC**									
Column 11 Entry	C	E	C	E	C	E	C	E	C	E	C	C	C	C	
DIMENSIONS IN MM	A	40	40	50	50	60	60	80	80	100	110	120	140	170	210
	B	32	32	40	40	50	50	70	70	80	80	100	110	140	180
	C	4	3	7	3	7	3	5	3	10	3	10	15	15	15
	D	6	6	8	8	8	8	12	10	14	14	18	20	25	28
	E	22.5	21.5	28	27	33	31	43	41	53.5	51.5	64	74.5	95	106
	ØF	20.015	19.090	25.015	24.090	30.015	28.090	40.018	38.018	50.018	48.018	60.030	70.030	90.035	100.035
		/	/	/	/	/	/	/	/	/	/	/	/	/	/
		20.002	18.960	25.002	23.960	30.002	27.960	40.002	38.002	50.002	48.002	60.011	70.011	90.013	100.013

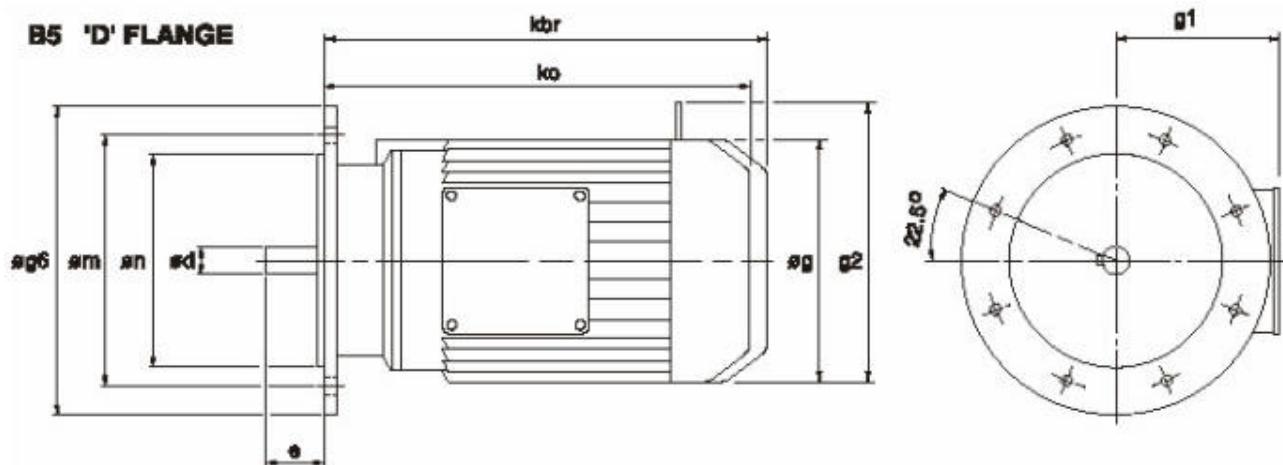
MOTOR DETAILS

B14 'C' FACE



MOTOR FRAMESIZE	$\varnothing g_6$	$\varnothing m$	$\varnothing n$	$\varnothing d$	e	k_o	k_{br}	$\varnothing g$	g_1	g_2	FIXING BOLTS
71	105	85	70	14	30	210	251	137	107	167	4M6
80	120	100	80	19	40	230	280	158	118	190	4M6
90S/L	140	115	95	24	50	270	329	177	149	218	4M8
100	160	130	110	28	60	340	408	197	159	238	4M8
112	160	130	110	28	60	340	408	197	159	238	4M8

B5 'D' FLANGE



MOTOR FRAME SIZE	$\varnothing g_6$	$\varnothing m$	$\varnothing n$	$\varnothing d$	e	k_o	k_{br}	$\varnothing g$	g_1	g_2	FIXING BOLTS
63	140	115	95	11	23	185	227	122	101	160	4-M8
71	160	130	110	14	30	210	251	137	107	167	4-M8
80A	200	165	130	19	40	230	280	158	118	190	4-M10
90S/L	200	165	130	24	50	270	329	177	149	218	4-M10
100L	250	215	180	28	60	340	408	197	159	238	4-M12
112	250	215	180	28	60	340	408	197	159	238	4-M12
132S/M	300	265	230	38	80	402	473	253	184	288	4-M12
160M/L	350	300	250	42	110	538	627	314	230	397	4-M16
180M	350	300	250	48	110	538	663	314	257	452	4-M16
180L	350	300	250	48	110	613	701	354	257	452	4-M16
200L	400	350	300	55	110	613	807	354	257	549	4-M16
225 S/M	450	400	350	60	140	690	1105	411	280	561	8-M16
250M	550	500	450	65	140	690	N/A	411	280	N/A	8-M16
280 S/M	550	500	450	75	140	820	N/A	490	355	N/A	8-M16

Dimensions except g_6 , m , n , d and e will vary as per make of motor

Motor Available	Type of Motor	Column Entry	*The standard motor with brake will be fitted with a rectifier and wired for AC switching. For fast braking needed with safety critical applications (ie lifts, hoists and cranes), it is essential to switch the brake on the DC side of the rectifier. In such cases motor type N should be entered in Column 19
	Standard	A	
	Standard with Brake	B*	
	Standard with Brake & Hand Release	C	
	FIT Non Standard Motor	N	

For large frame sizes standard proprietary brake motors are not available.

All variants of standard IEC motors can be fitted to Series M, for example:-

- Single Phase
- DC
- Energy efficient
- Wash down
- Explosion-proof
- Suitable to be used with inverters
- Force vented
- Flame proof
- Two Speed
- Crane duty
- Underground specification

RATING AT 2900 REV/MIN INPUT

DOUBLE REDUCTION

 INPUT mechanical rating exceeds thermal capacity, check thermal power page at page 28

NOMINAL RATIO	NOMINAL Output Speed REV/ MIN	CAPACITY	SIZES OF UNIT								
			AM0320	AM0420	AM0620	AM0720	AM0820	AM0920	AM1020	AM1320	AM1420
1.4	2071.43	Input kW	6.07	9.51	17.00	26.10	41.30	96.10	156.00		
		Output Torque Nm	28	44	78	120	189	452	719		
1.8	1611.11	Input kW	5.84	9.10	16.10	26.10	41.30	82.20	156.00		
		Output Torque Nm	36	59	105	168	270	534	1010		
2.2	1318.18	Input kW	5.31	8.91	15.70	26.10	41.30	77.50	156.00		
		Output Torque Nm	38	64	114	189	301	565	1100		
2.5	1160.00	Input kW	4.93	8.32	15.20	26.10	40.60	72.90	147.00		
		Output Torque Nm	40	68	124	208	329	596	1170		
2.8	1035.71	Input kW	5.54	8.74	16.70	26.10	41.30	96.10	156.00	195.00	
		Output Torque Nm	52	78	149	239	380	909	1490	1810	
3.2	906.25	Input kW	4.01	7.43	14.00	23.80	34.90	63.60	126.00	195.00	
		Output Torque Nm	41	77	146	248	367	671	1310	1980	
3.6	805.56	Input kW	3.84	7.33	13.30	22.00	32.50	58.60	118.00	195.00	
		Output Torque Nm	43	87	157	260	383	692	1330	2250	
4.0	725.00	Input kW	4.75	7.28	14.00	26.10	41.30	82.20	156.00	195.00	
		Output Torque Nm	60	92	176	332	542	1070	2090	2510	
4.5	644.44	Input kW	4.44	6.90	13.10	26.10	41.30	77.50	152.00	195.00	
		Output Torque Nm	64	96	185	374	603	1130	2200	2760	
5.0	580.00	Input kW	4.08	6.25	12.10	24.90	41.30	82.20	144.00	195.00	
		Output Torque Nm	66	100	194	403	673	1330	2260	3130	
5.6	517.86	Input kW	3.80	5.90	11.40	23.30	41.30	77.50	137.00	195.00	274.00
		Output Torque Nm	70	104	204	424	748	1410	2340	3440	5240
6.3	460.32	Input kW	3.59	5.59	10.70	21.80	34.90	63.60	119.00	195.00	274.00
		Output Torque Nm	75	112	216	449	736	1350	2550	3880	5730
7.1	408.45	Input kW	3.33	5.17	9.94	20.20	32.50	58.60	113.00	195.00	274.00
		Output Torque Nm	75	118	227	474	768	1390	2620	4300	6370
8.0	362.50	Input kW	2.82	4.76	9.24	18.80	34.90	63.60	107.00	195.00	274.00
		Output Torque Nm	75	121	237	493	912	1670	2700	4840	7570
9.0	322.22	Input kW	2.64	4.39	8.56	17.40	32.50	58.60	102.00	186.00	274.00
		Output Torque Nm	75	127	249	519	952	1720	2780	5110	8410
10.0	290.00	Input kW	2.33	4.27	8.21	17.00	25.80	47.40	88.30	173.00	248.00
		Output Torque Nm	75	132	258	530	844	1560	2990	5470	7980
11.0	263.64	Input kW	2.04	3.95	7.48	15.60	23.30	43.10	81.40	165.00	227.00
		Output Torque Nm	75	139	273	560	888	1610	3120	5900	8270
12.0	241.67	Input kW	1.85	3.62	7.05	14.60	25.80	47.40	79.10	136.00	242.00
		Output Torque Nm	76	142	281	579	1050	1930	3160	5370	10300
14.0	207.14	Input kW	1.62	3.34	6.41	13.40	23.30	43.10	72.90	131.00	215.00
		Output Torque Nm	76	149	298	611	1100	2000	3290	5880	10400
16.0	181.25	Input kW	1.51	2.94	5.81	12.40	18.30	32.90	65.90	119.00	172.00
		Output Torque Nm	75	149	300	636	954	1750	3460	6070	8970
18.0	161.11	Input kW	1.29	2.75	5.51	11.20	16.60	29.90	60.40	108.00	161.00
		Output Torque Nm	75	151	304	652	976	1760	3520	6200	9260
20.0	145.00	Input kW	1.20	2.48	4.97	10.60	18.30	32.90	58.90	94.10	153.00
		Output Torque Nm	76	159	326	693	1180	2160	3650	5980	10600
22.0	131.82	Input kW	1.03	2.32	4.72	9.60	16.60	29.90	54.90	88.60	142.00
		Output Torque Nm	76	162	330	709	1210	2190	3770	6350	10800
25.0	116.00	Input kW	0.93	2.08	4.07	8.60	12.20	22.60	45.20	76.70	115.00
		Output Torque Nm	75	164	327	689	1020	1880	3760	6200	9530
28.0	103.57	Input kW	0.83	1.90	3.79	7.97	11.40	20.70	39.50	68.90	109.00
		Output Torque Nm	75	168	334	699	1040	1900	3770	6200	9770
32.0	90.63	Input kW	0.74	1.75	3.47	7.10	12.20	22.60	43.10	62.90	97.60
		Output Torque Nm	76	175	355	723	1260	2330	4220	6350	10700
36.0	80.56	Input kW	0.67	1.59	3.24	6.49	11.40	20.70	39.10	56.60	91.30
		Output Torque Nm	76	180	363	724	1290	2350	4410	6350	10800
40.0	72.50	Input kW	0.47	1.44	2.84	5.76	9.57	19.30	35.30	49.40	75.70
		Output Torque Nm	57	180	349	715	1240	2460	4160	6090	9400
45.0	64.44	Input kW	0.42	1.28	2.60	5.28	8.79	17.40	30.70	45.00	70.20
		Output Torque Nm	57	180	350	717	1250	2470	4160	6160	9460
50.0	58.00	Input kW	0.46	1.21	2.48	4.31	8.79	15.60	27.90	36.70	50.10
		Output Torque Nm	72	180	379	662	1330	2430	4250	5660	8130
56.0	51.79	Input kW	0.39	1.04	1.58	3.19	7.72	12.10	23.70	36.70	46.50
		Output Torque Nm	70	180	275	570	1340	2100	4160	6020	8440
63.0	46.03	Input kW	0.30	0.97	1.97	3.83	6.75	12.70	22.70	33.80	50.10
		Output Torque Nm	56	180	361	718	1290	2470	4160	6360	9270
71.0	40.85	Input kW	0.26	0.86	1.58	3.19	5.96	11.30	21.20	32.00	46.50
		Output Torque Nm	56	180	324	662	1300	2470	4160	6400	9620

Consult AGNEE

RATING AT 2900 REV/MIN INPUT

TRIPLE REDUCTION

 Input mechanical rating exceeds thermal capacity, check thermal power page at page 28

NOMINAL RATIO	NOMINAL Output Speed REV/ MIN	CAPACITY	SIZES OF UNIT								
			AM0330	AM0430	AM0630	AM0730	AM0830	AM0930	AM1030	AM1330	AM1430
36.0	80.56	Input kW	0.67	1.59	2.78	6.04					
		Output Torque Nm	75	176	310	675					
40.0	72.50	Input kW	0.59	1.42	2.56	5.46				35.00	58.10
		Output Torque Nm	75	180	324	710				4380	7520
45.0	64.44	Input kW	0.54	1.28	2.68	5.10				38.90	62.70
		Output Torque Nm	76	180	380	724				5360	9430
50.0	58.00	Input kW	0.47	1.12	2.42	4.38				35.00	58.10
		Output Torque Nm	76	180	391	724				5460	9930
56.0	51.79	Input kW	0.43	1.06	1.94	3.95	6.86	11.20	17.90	29.60	46.70
		Output Torque Nm	75	180	354	725	1270	2100	3380	5270	8680
63.0	46.03	Input kW	0.37	0.90	1.81	3.70	6.30	10.40	16.60	26.80	44.00
		Output Torque Nm	75	180	359	725	1320	2170	3490	5380	9020
71.0	40.85	Input kW	0.35	0.83	1.69	3.10	6.13	10.10	16.40	26.60	44.80
		Output Torque Nm	76	180	392	724	1410	2350	3640	5920	11000
80.0	36.25	Input kW	0.30	0.71	1.55	2.91	5.43	9.38	15.20	24.10	40.70
		Output Torque Nm	76	180	392	724	1410	2420	3760	6060	11000
90.0	32.22	Input kW	0.26	0.65	1.33	2.53	4.74	8.15	12.60	20.90	34.40
		Output Torque Nm	75	180	379	725	1400	2400	3770	5930	10100
100.0	29.00	Input kW	0.24	0.58	1.21	2.31	4.32	7.60	10.90	19.20	32.20
		Output Torque Nm	75	180	389	725	1400	2480	3770	6050	10300
112.0	25.89	Input kW	0.21	0.51	1.08	1.99	3.85	7.36	11.80	18.00	28.30
		Output Torque Nm	76	180	392	724	1410	2690	4180	6350	11000
125.0	23.20	Input kW	0.19	0.46	0.96	1.82	3.50	6.86	10.70	16.10	26.10
		Output Torque Nm	76	180	392	725	1410	2770	4360	6350	11000
140.0	20.71	Input kW	0.13	0.41	0.81	1.60	2.89	5.46	9.82	15.00	22.90
		Output Torque Nm	55	180	351	707	1330	2470	4160	6460	10100
160.0	18.13	Input kW	0.12	0.37	0.72	1.46	2.63	4.94	8.53	13.50	21.10
		Output Torque Nm	55	180	351	707	1330	2470	4160	6460	10100
180.0	16.11	Input kW	0.14	0.33	0.73	1.33	2.62	5.15	8.03	11.70	19.00
		Output Torque Nm	76	180	392	725	1410	2860	4410	6350	11000
200.0	14.50	Input kW	0.12	0.29	0.64	1.19	2.28	4.59	7.48	11.00	17.00
		Output Torque Nm	76	180	392	725	1410	2860	4410	6350	11000
225.0	12.89	Input kW	0.08	0.27	0.54	1.07	1.96	3.59	6.31	9.80	15.40
		Output Torque Nm	55	180	351	707	1330	2470	4160	6460	10100
250.0	11.60	Input kW	0.07	0.24	0.48	0.95	1.71	3.20	5.88	9.21	13.70
		Output Torque Nm	55	180	351	707	1330	2470	4160	6460	10100

RATING AT 1450 REV/MIN INPUT

DOUBLE REDUCTION

Input mechanical rating exceeds thermal capacity, check thermal power at page 28

NOMINAL RATIO	NOMINAL Output Speed REV/ MIN	CAPACITY	SIZES OF UNIT								
			AM0320	AM0420	AM0620	AM0720	AM0820	AM0920	AM1020	AM1320	AM1420
1.4	1035.71	Input kW	3.59	5.27	10.70	13.10	20.70	60.60	78.20		
		Output Torque Nm	33	49	99	121	191	574	722		
1.8	805.56	Input kW	2.95	5.27	10.10	13.10	20.70	51.80	78.20		
		Output Torque Nm	37	69	132	169	272	677	1010		
2.2	659.09	Input kW	2.65	5.27	9.86	13.10	20.70	48.80	78.20		
		Output Torque Nm	38	76	144	190	302	716	1100		
2.5	580.00	Input kW	2.46	5.23	9.54	13.10	20.70	45.90	78.20		
		Output Torque Nm	40	86	157	209	337	756	1250		
2.8	517.86	Input kW	3.48	5.27	10.40	13.10	20.70	60.60	78.20	97.40	137.00
		Output Torque Nm	66	95	188	240	383	1150	1490	1810	2520
3.2	453.13	Input kW	2.00	4.34	8.79	13.10	20.70	40.00	75.20	97.40	137.00
		Output Torque Nm	41	90	184	273	436	850	1570	1990	2840
3.6	402.78	Input kW	1.92	3.99	8.25	13.10	20.50	36.90	69.70	97.40	137.00
		Output Torque Nm	43	94	195	310	485	876	1570	2260	3330
4.0	362.50	Input kW	2.95	4.57	8.75	13.10	20.70	51.80	78.20	97.40	137.00
		Output Torque Nm	75	115	222	334	545	1360	2090	2510	3530
4.5	322.22	Input kW	2.60	4.33	8.22	13.10	20.70	48.80	78.20	97.40	137.00
		Output Torque Nm	75	121	233	375	606	1440	2280	2760	3970
5.0	290.00	Input kW	2.34	3.92	7.60	13.10	20.70	51.80	78.20	97.40	137.00
		Output Torque Nm	76	126	245	425	676	1680	2470	3140	4660
5.6	258.93	Input kW	2.06	3.70	7.13	13.10	20.70	48.80	78.20	97.40	137.00
		Output Torque Nm	76	131	257	477	751	1780	2690	3450	5240
6.3	230.16	Input kW	1.79	3.43	6.72	13.10	20.70	40.00	72.90	97.40	137.00
		Output Torque Nm	75	138	272	540	873	1700	3140	3880	5730
7.1	204.23	Input kW	1.66	3.10	6.16	12.70	20.50	36.90	69.50	97.40	137.00
		Output Torque Nm	75	141	283	597	972	1760	3230	4300	6360
8.0	181.25	Input kW	1.43	2.92	5.80	11.80	20.70	39.50	65.50	97.40	137.00
		Output Torque Nm	76	149	298	621	1080	2080	3330	4840	7570
9.0	161.11	Input kW	1.32	2.63	5.30	10.90	20.50	36.80	62.40	97.40	137.00
		Output Torque Nm	76	153	310	654	1200	2170	3420	5360	8400
10.0	145.00	Input kW	1.16	2.43	4.80	10.20	16.30	29.80	54.20	97.40	137.00
		Output Torque Nm	75	151	303	642	1070	1970	3680	6170	8800
11.0	131.82	Input kW	1.02	2.21	4.26	9.18	14.70	27.10	49.10	82.70	137.00
		Output Torque Nm	75	156	312	661	1120	2040	3770	5940	9980
12.0	120.83	Input kW	0.93	2.06	4.12	8.80	16.30	29.60	48.60	80.30	121.00
		Output Torque Nm	76	162	330	702	1320	2420	3890	6350	10300
14.0	103.57	Input kW	0.81	1.87	3.66	7.88	14.70	27.10	44.80	70.30	108.00
		Output Torque Nm	76	168	341	722	1390	2530	4050	6290	10400
16.0	90.63	Input kW	0.75	1.53	3.29	6.94	10.50	20.70	35.90	60.80	106.00
		Output Torque Nm	75	155	340	715	1100	2210	3770	6200	11100
18.0	80.56	Input kW	0.65	1.52	3.13	6.23	9.13	18.90	32.30	53.90	96.20
		Output Torque Nm	75	167	346	725	1080	2230	3770	6200	11100
20.0	72.50	Input kW	0.60	1.39	2.82	5.53	10.50	20.70	35.60	49.90	76.70
		Output Torque Nm	76	180	371	724	1360	2730	4410	6350	10600
22.0	65.91	Input kW	0.51	1.28	2.68	4.89	9.13	18.90	32.00	44.30	70.70
		Output Torque Nm	76	180	376	724	1340	2760	4410	6350	10800
25.0	58.00	Input kW	0.46	1.14	2.35	4.52	7.26	14.20	22.70	38.30	63.80
		Output Torque Nm	75	180	378	725	1210	2370	3770	6200	10600
28.0	51.79	Input kW	0.42	1.01	2.19	4.13	6.30	13.00	19.70	34.40	55.60
		Output Torque Nm	75	180	386	725	1150	2400	3770	6200	9970
32.0	45.31	Input kW	0.37	0.89	1.91	3.55	6.81	13.80	22.50	31.40	48.80
		Output Torque Nm	76	180	392	724	1410	2860	4410	6350	10700
36.0	40.28	Input kW	0.33	0.80	1.75	3.24	6.20	12.50	19.50	28.30	45.60
		Output Torque Nm	76	180	392	724	1410	2860	4410	6350	10800
40.0	36.25	Input kW	0.23	0.72	1.42	2.87	5.10	9.62	17.60	26.20	39.90
		Output Torque Nm	56	180	349	715	1320	2470	4160	6460	9940
45.0	32.22	Input kW	0.20	0.64	1.30	2.64	4.65	8.71	15.30	23.60	37.10
		Output Torque Nm	56	180	350	717	1320	2470	4160	6460	10000
50.0	29.00	Input kW	0.23	0.60	1.24	2.16	4.64	9.14	14.00	18.40	25.10
		Output Torque Nm	72	180	379	663	1410	2860	4260	5660	8140
56.0	25.89	Input kW	0.19	0.52	0.79	1.59	4.04	5.71	11.80	18.40	23.20
		Output Torque Nm	70	176	275	570	1410	2000	4160	6030	8450
63.0	23.02	Input kW	0.15	0.49	0.98	1.92	3.47	6.35	11.40	17.20	25.10
		Output Torque Nm	55	180	361	718	1330	2470	4160	6460	9270
71.0	20.42	Input kW	0.13	0.43	0.79	1.59	3.03	5.66	10.60	16.10	23.20
		Output Torque Nm	55	180	324	663	1330	2470	4160	6460	9630

RATINGS AT 1450 REV/MIN INPUT

TRIPLE REDUCTION

NOMINAL RATIO	NOMINAL Output Speed REV/ MIN	CAPACITY	SIZES OF UNIT							
			AM0330	AM0430	AM0630	AM0730	AM0830	AM0930	AM1030	AM1330
36.0	40.28	Input kW	0.33	0.81	1.63	3.23				
		Output Torque Nm	75	180	365	725				
40.0	36.25	Input kW	0.29	0.71	1.46	2.78				21.90 37.50
		Output Torque Nm	75	180	372	725				5530 9740
45.0	32.22	Input kW	0.27	0.64	1.38	2.54				22.20 36.40
		Output Torque Nm	76	180	392	724				6170 11000
50.0	29.00	Input kW	0.23	0.56	1.21	2.18				20.10 32.10
		Output Torque Nm	76	180	392	724				6310 11000
56.0	25.89	Input kW	0.22	0.53	1.07	1.97	3.76	6.84	9.94	17.30 28.10
		Output Torque Nm	75	180	393	725	1400	2590	3770	6190 10500
63.0	23.02	Input kW	0.18	0.45	0.99	1.84	3.33	6.29	8.95	15.30 26.00
		Output Torque Nm	75	180	393	725	1400	2640	3770	6200 10700
71.0	20.42	Input kW	0.17	0.41	0.84	1.55	3.05	6.10	9.85	14.20 22.30
		Output Torque Nm	76	180	392	725	1410	2860	4410	6350 11000
80.0	18.13	Input kW	0.15	0.35	0.78	1.45	2.70	5.49	8.87	12.60 20.30
		Output Torque Nm	76	180	392	725	1410	2860	4410	6350 11000
90.0	16.11	Input kW	0.13	0.32	0.69	1.26	2.36	4.46	6.27	10.90 18.80
		Output Torque Nm	75	180	393	725	1400	2640	3770	6200 11100
100.0	14.50	Input kW	0.12	0.29	0.61	1.15	2.15	4.04	5.45	9.79 17.30
		Output Torque Nm	75	180	393	725	1400	2640	3770	6200 11100
112.0	12.95	Input kW	0.10	0.25	0.54	0.99	1.91	3.89	6.22	8.95 14.10
		Output Torque Nm	76	180	392	725	1410	2860	4410	6350 11000
125.0	11.60	Input kW	0.09	0.23	0.48	0.91	1.74	3.52	5.40	8.04 13.00
		Output Torque Nm	76	180	392	725	1410	2860	4410	6350 11000
140.0	10.36	Input kW	0.06	0.20	0.40	0.80	1.44	2.71	4.89	7.47 11.40
		Output Torque Nm	54	180	351	707	1330	2470	4160	6460 10100
160.0	9.06	Input kW	0.06	0.18	0.36	0.73	1.31	2.46	4.25	6.71 10.50
		Output Torque Nm	54	180	351	707	1330	2470	4170	6460 10100
180.0	8.06	Input kW	0.07	0.17	0.36	0.67	1.30	2.57	4.00	5.86 9.49
		Output Torque Nm	76	180	392	725	1410	2860	4410	6350 11000
200.0	7.25	Input kW	0.06	0.15	0.32	0.60	1.14	2.29	3.73	5.50 8.48
		Output Torque Nm	76	180	392	725	1410	2860	4410	6350 11000
225.0	6.44	Input kW	0.05	0.13	0.27	0.53	0.98	1.79	3.15	4.89 7.66
		Output Torque Nm	58	180	351	707	1330	2470	4170	6460 10100
250.0	5.80	Input kW	0.04	0.12	0.24	0.48	0.85	1.59	2.93	4.59 6.84
		Output Torque Nm	60	180	351	707	1330	2470	4170	6460 10100

RATING AT 960 REV/MIN INPUT

DOUBLE REDUCTION

NOMINAL RATIO	NOMINAL Output Speed REV/ MIN	CAPACITY	SIZES OF UNIT								
			AM0320	AM0420	AM0620	AM0720	AM0820	AM0920	AM1020	AM1320	AM1420
1.4	685.71	Input kW	2.38	3.49	8.09	8.65	13.70	46.00	51.80		
		Output Torque	33	49	113	122	191	661	722		
1.8	533.33	Input kW	1.95	3.49	7.68	8.65	13.70	39.30	51.80		
		Output Torque	37	69	152	169	273	779	1010		
2.2	436.36	Input kW	1.75	3.49	7.47	8.65	13.70	37.10	51.80		
		Output Torque	38	76	165	190	303	824	1100		
2.5	384.00	Input kW	1.63	3.49	6.74	8.65	13.70	34.90	51.80		
		Output Torque	40	87	168	209	337	869	1250		
2.8	342.86	Input kW	2.47	3.49	7.92	8.65	13.70	46.00	51.80	64.50	90.60
		Output Torque	70	95	216	241	384	1320	1500	1810	2520
3.2	300.00	Input kW	1.33	2.87	6.25	8.65	13.70	30.40	49.80	64.50	90.60
		Output Torque	41	91	198	273	437	978	1570	1990	2840
3.6	266.67	Input kW	1.27	2.64	5.81	8.65	13.70	28.10	46.10	64.50	90.60
		Output Torque	43	94	208	311	490	1010	1570	2260	3330
4.0	240.00	Input kW	1.95	3.42	6.64	8.65	13.70	39.30	51.80	64.50	90.60
		Output Torque	75	131	254	334	546	1560	2090	2510	3530
4.5	213.33	Input kW	1.72	3.18	6.23	8.65	13.70	37.10	51.80	64.50	90.60
		Output Torque	75	134	268	376	607	1650	2280	2760	3970
5.0	192.00	Input kW	1.55	2.93	5.76	8.65	13.70	39.30	51.80	64.50	90.60
		Output Torque	76	142	281	425	677	1930	2470	3140	4660
5.6	171.43	Input kW	1.37	2.72	5.40	8.65	13.70	37.10	51.80	64.50	90.60
		Output Torque	76	146	295	478	753	2040	2690	3450	5240
6.3	152.38	Input kW	1.19	2.42	4.78	8.65	13.70	30.40	51.80	64.50	90.60
		Output Torque	75	147	292	540	875	1960	3370	3880	5730
7.1	135.21	Input kW	1.10	2.20	4.34	8.65	13.70	28.10	51.80	64.50	90.60
		Output Torque	75	152	301	614	982	2020	3640	4300	6360
8.0	120.00	Input kW	0.94	2.06	4.12	8.64	13.70	29.60	49.00	64.50	90.60
		Output Torque	76	159	321	686	1080	2360	3760	4840	7570
9.0	106.67	Input kW	0.88	1.87	3.73	7.81	13.70	27.50	46.70	64.50	90.60
		Output Torque	76	164	330	705	1220	2450	3870	5370	8400
10.0	96.00	Input kW	0.77	1.75	3.44	7.14	12.40	22.70	36.80	64.50	90.60
		Output Torque	75	165	327	676	1230	2260	3770	6180	8810
11.0	87.27	Input kW	0.67	1.60	3.08	6.56	11.20	20.60	32.50	54.70	90.60
		Output Torque	75	170	341	714	1290	2340	3770	5940	9990
12.0	80.00	Input kW	0.61	1.49	2.95	6.01	11.40	22.20	36.40	53.20	80.20
		Output Torque	76	177	358	724	1400	2740	4400	6350	10300
14.0	68.57	Input kW	0.54	1.33	2.64	5.23	9.82	20.30	32.20	46.50	71.30
		Output Torque	76	180	372	724	1400	2860	4410	6290	10400
16.0	60.00	Input kW	0.50	1.02	2.38	4.66	6.95	15.70	23.70	40.20	70.20
		Output Torque	75	155	371	725	1100	2530	3770	6200	11100
18.0	53.33	Input kW	0.43	1.01	2.26	4.12	6.04	14.30	21.40	35.70	63.70
		Output Torque	75	167	377	725	1080	2560	3770	6200	11100
20.0	48.00	Input kW	0.40	0.92	1.97	3.66	6.95	14.30	23.50	33.00	50.70
		Output Torque	76	180	392	724	1360	2860	4410	6350	10600
22.0	43.64	Input kW	0.34	0.85	1.85	3.24	6.04	12.90	21.20	29.30	46.80
		Output Torque	76	180	392	724	1340	2860	4410	6350	10800
25.0	38.40	Input kW	0.31	0.75	1.62	2.99	4.81	10.50	15.00	25.40	42.20
		Output Torque	75	180	393	725	1210	2640	3770	6200	10600
28.0	34.29	Input kW	0.28	0.67	1.48	2.73	4.17	9.51	13.00	22.80	36.80
		Output Torque	75	180	393	725	1150	2640	3770	6200	9980
32.0	30.00	Input kW	0.24	0.59	1.27	2.35	4.51	9.16	14.90	20.80	32.30
		Output Torque	76	180	392	724	1410	2860	4410	6350	10700
36.0	26.67	Input kW	0.22	0.53	1.16	2.15	4.11	8.30	12.90	18.70	30.20
		Output Torque	76	180	392	724	1410	2860	4410	6350	10800
40.0	24.00	Input kW	0.15	0.48	0.94	1.90	3.37	6.37	11.70	17.40	26.90
		Output Torque	55	180	349	715	1330	2470	4160	6460	10100
45.0	21.33	Input kW	0.13	0.42	0.86	1.74	3.07	5.77	10.10	15.60	24.80
		Output Torque	55	180	350	717	1330	2470	4160	6460	10100
50.0	19.20	Input kW	0.15	0.40	0.82	1.43	3.07	6.05	9.25	12.20	16.60
		Output Torque	72	180	379	663	1410	2860	4260	5660	8140
56.0	17.14	Input kW	0.13	0.34	0.52	1.06	2.68	3.67	7.84	12.20	15.40
		Output Torque	70	176	275	570	1410	2000	4160	6030	8450
63.0	15.24	Input kW	0.10	0.32	0.65	1.27	2.30	4.21	7.52	11.40	16.60
		Output Torque	55	180	361	718	1330	2470	4160	6460	9280
71.0	13.52	Input kW	0.09	0.28	0.52	1.06	2.00	3.67	7.02	10.70	15.40
		Output Torque	55	180	324	663	1330	2420	4160	6460	9630

RATING AT 960 REV/MIN INPUT

TRIPLE REDUCTION

NOMINAL RATIO	NOMINAL Output Speed REV/ MIN	CAPACITY	SIZES OF UNIT								
			AM 0330	AM 0430	AM 0630	AM 0730	AM 0830	AM 0930	AM 1030	AM 1330	AM1430
36.0	26.67	Input kW	0.22	0.54	1.16	2.14					
		Output Torque NM	75	180	393	725					
40.0	24.00	Input kW	0.19	0.47	1.02	1.84				15.60	26.60
		Output Torque NM	75	180	393	725				5940	10500
45.0	21.33	Input kW	0.17	0.42	0.91	1.68				15.10	24.10
		Output Torque NM	76	180	392	725				6350	11000
50.0	19.20	Input kW	0.15	0.37	0.80	1.44				13.40	21.20
		Output Torque NM	76	180	392	725				6350	11000
56.0	17.14	Input kW	0.14	0.35	0.71	1.30	2.48	4.62	6.57	11.40	19.70
		Output Torque NM	75	180	393	725	1400	2640	3770	6200	11100
63.0	15.24	Input kW	0.12	0.30	0.65	1.22	2.20	4.16	5.91	10.10	17.80
		Output Torque NM	75	180	393	725	1400	2640	3770	6200	11100
71.0	13.52	Input kW	0.11	0.27	0.56	1.02	2.01	4.03	6.51	9.39	14.80
		Output Torque NM	76	180	392	725	1410	2860	4410	6350	11000
80.0	12.00	Input kW	0.10	0.23	0.51	0.96	1.79	3.63	5.86	8.33	13.40
		Output Torque NM	76	180	392	725	1410	2860	4410	6350	11000
90.0	10.67	Input kW	0.09	0.21	0.46	0.83	1.56	2.95	4.15	7.21	12.40
		Output Torque NM	75	180	393	725	1400	2640	3770	6200	11100
100.0	9.60	Input kW	0.08	0.19	0.41	0.76	1.42	2.67	3.60	6.48	11.50
		Output Torque NM	75	180	393	725	1400	2640	3770	6200	11100
112.0	8.57	Input kW	0.07	0.17	0.36	0.66	1.27	2.57	4.11	5.92	9.34
		Output Torque NM	76	180	392	725	1410	2860	4410	6350	11000
125.0	7.68	Input kW	0.06	0.15	0.32	0.60	1.15	2.33	3.57	5.32	8.61
		Output Torque NM	76	180	392	725	1410	2860	4410	6350	11000
140.0	6.86	Input kW	0.05	0.14	0.27	0.53	0.95	1.79	3.23	4.94	7.54
		Output Torque NM	58	180	351	707	1330	2470	4170	6460	10100
160.0	6.00	Input kW	0.04	0.12	0.24	0.48	0.86	1.62	2.81	4.44	6.95
		Output Torque NM	60	180	351	707	1330	2470	4170	6400	10100
180.0	5.33	Input kW	0.05	0.11	0.25	0.45	0.86	1.70	2.65	3.88	6.28
		Output Torque NM	76	180	400	737	1410	2860	4410	6350	11000
200.0	4.80	Input kW	0.04	0.10	0.22	0.40	0.75	1.51	2.47	3.64	5.61
		Output Torque NM	76	180	400	737	1410	2860	4410	6350	11000
225.0	4.27	Input kW	0.0	0.09	0.18	0.35	0.65	1.19	2.10	3.23	5.07
		Output Torque NM	65	180	351	707	1340	2480	4210	6460	10100
250.0	3.84	Input kW	0.03	0.08	0.16	0.31	0.58	1.06	1.97	3.04	4.53
		Output Torque NM	67	180	351	707	1360	2480	4240	6460	10100

THERMAL POWER RATING

Thermal Ratings kW

Thermal ratings are a measure of the units ability to dissipate heat, if they are exceeded the lubricant may break down resulting in premature gear failure.

Thermal Power (km)

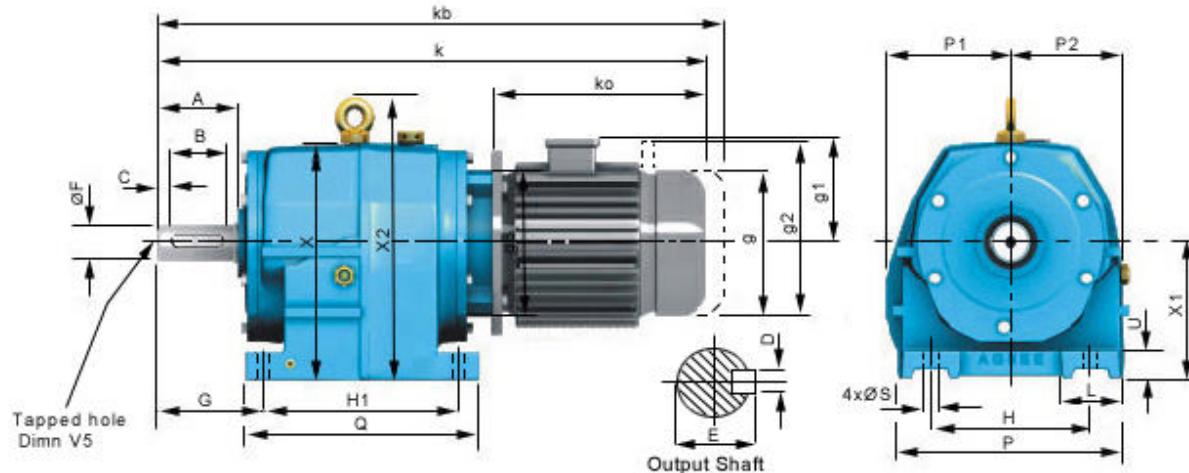
Overall Ratios	Input Rev/min	UNIT SIZE									
		AM03	AM04	AM06	AM07	AM08	AM09	AM10	AM13	AM14	
1.5 to 5.6	2900	CONSULT AGNEE									
	1750	4.1	5.9	9.8	11.4	22.0	31.3	42.2	53.5	73.0	
	<1450	4.1	6.0	9.9	14.5	22.2	31.4	42.3	53.7	73.2	
5.6 to 36	2900	3.0	4.3	7.2	10.5	16.0	22.8	30.7	39.0	53.2	
	1750	4.1	5.8	9.7	14.2	21.7	30.8	41.5	52.6	71.8	
	<1450	4.1	5.8	9.7	14.2	21.7	30.8	41.6	52.7	71.9	
36 & over	2900	2.9	4.2	7.0	10.2	15.6	22.2	29.9	37.9	51.7	
	1750	4.0	5.7	9.4	13.8	21.1	29.9	40.4	51.2	69.9	
	<1450	4.0	5.7	9.4	13.8	21.1	30.0	40.4	51.3	70.0	

Thermal Power (kW) with cooling fan

Overall Ratios	Input Rev/min	Unit Size								
		AM03	AM04	AM06	AM07	AM08	AM09	AM10	AM13	AM14
1.5 to 5.6	2900	-	-	-	CONSULT AGNEE					
	1750	-	-	-	32.4	49.6	70.4	94.9	120.4	164.2
	1450	-	-	-	28.9	44.2	62.8	84.6	107.4	146.5
	1160	-	-	-	27.5	42.0	59.6	80.4	102.0	139.2
	960	-	-	-	25.3	38.7	54.9	74.0	93.9	128.2
	725	-	-	-	21.7	33.2	47.1	63.5	80.5	109.9
5.6 & over	2900	-	-	-	23.0	35.1	49.9	67.3	85.3	116.4
	1750	-	-	-	31.1	47.4	67.4	90.8	115.2	157.2
	1450	-	-	-	27.7	42.3	60.0	80.9	102.6	140.0
	1160	-	-	-	26.3	40.1	57.0	76.8	97.5	133.0
	960	-	-	-	24.2	37.0	52.5	70.8	89.8	122.5
	725	-	-	-	20.7	31.7	45.0	60.7	77.0	105.0

Note: When checking thermal capacities use actual load required to be transmitted, not rating of prime mover.

GEARED MOTOR DIMENSIONS –DOUBLE REDUCTION BASE MOUNT



SIZE	A	B	C	D	E	ØF	G	H	H1	L	P	P1	P2	Q	ØS	U	V5	X	X1	X2
AM0320	40	32	4	6	22.5	20 k ₆	58	110	85	25	135	78	72	110	10	12	M6 x 1.0 16 deep	147	75	-
AM0420	50	40	7	8	28	25 k ₆	75	110	130	35	145	84	75	160	10	16	M10 x 1.5 deep	178	90	-
AM0620	60	50	7	8	33	30 k ₆	90	135	165	55	190	105	98	200	15	20	M10 x 1.5 22 deep	230	115	-
AM0720	80	70	5	12	43	40 k ₆	115	170	205	60	230	130	119	245	19	25	M16 x 2.0 36 deep	275	140	-
AM0820	100	80	10	14	53.5	50 k ₆	140	215	260	75	290	165	147	310	19	35	M16 x 2.0 36 deep	321	180	362
AM0920	120	100	10	18	64	60 m ₆	160	250	310	90	340	200	172	365	23	40	M20 x 2.5 42 deep	394	225	433
AM1020	140	110	15	20	74.5	70 m ₆	185	290	370	110	400	225	203	440	27	45	M20 x 2.5 42 deep	446	250	505
AM1320	170	140	15	25	95	90 m ₆	220	340	410	110	450	242	228	490	34	50	M24 x 3.0 50 deep	483	265	563
AM1420	210	180	15	28	106	100 m ₆	260	380	500	150	530	278	268	590	41	50	M24 x 3.0 50 deep	551	300	630

MOTORS	ALL SIZES				AM0320**		AM0420**		AM0620**		AM0720**		AM0820		AM0920		AM1020		AM1320		AM1420			
	ko	g	g1	g2	g6	k	kb	k	kb	k	kb	k	kb	k	kb	k	kb	k	kb	k	kb			
MOTOR FRAME SIZE	63	185	122	101	160	140	381	423	404	446	455	497	-	-	-	-	-	-	-	-	-			
	71	210	137	107	167	160	406	447	433	474	486	527	-	-	-	-	-	-	-	-	-			
	80	230	158	118	190	200	445	495	468	518	506	556	579	629	672	722	753	803	-	-	-			
	90S/L	270	177	149	218	200	495	554	518	577	555	614	629	688	712	771	793	852	-	-	-			
	100/112	340	197	159	238	250	573	641	596	664	669	737	722	790	788	856	869	937	936	1004	1056	1124	1172	1240
	132 S/M	402	253	184	288	300	-	-	-	733	804	786	857	850	921	931	1002	998	1069	1118	1189	1234	1305	
	160 M/L	538	314	230	*	350	-	-	-	-	-	-	952	*	1016	*	1102	*	1169	*	1248	*	1363	*
	180 M	538	314	230	*	350	-	-	-	-	-	-	-	-	-	1102	*	1169	*	1248	*	1363	*	
	180 L	613	354	257	*	350	-	-	-	-	-	-	-	-	-	1177	*	1244	*	1323	*	1438	*	
	200 L	613	354	257	*	400	-	-	-	-	-	-	-	-	-	1177	*	1244	*	1323	*	1438	*	
	225 S/M	690	411	280	*	450	-	-	-	-	-	-	-	-	-	1281	*	1348	*	1427	*	1542	*	
	250	690	411	280	*	550	-	-	-	-	-	-	-	-	-	-	-	-	1599	*	1714	*		
	280 S/M	820	490	355	*	550	-	-	-	-	-	-	-	-	-	-	-	-	1729	*	1844	*		

Dimension kb, k, ko, g, g2, g1 may vary as per make of motor

kb – for brake motors

g2 – hand release if required

g6 – Dimension is shown for B5 D flange motors ,
please check page 20 for B14 C face motors.

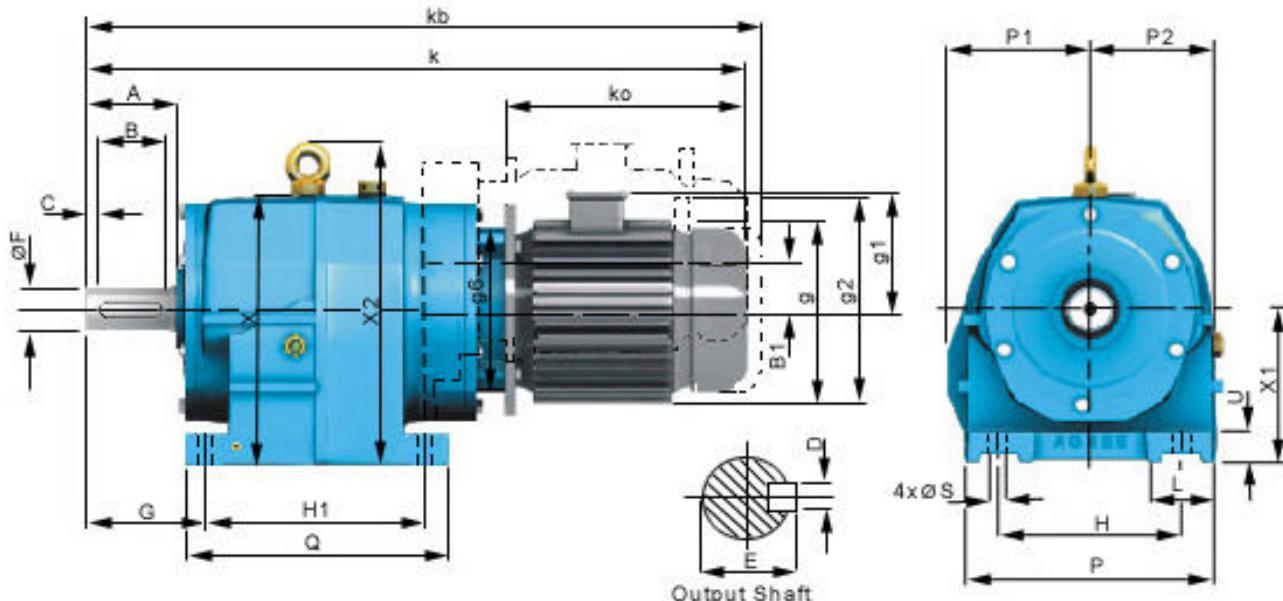
all parallel keys are to
DIN 6885

* Consult AGNEE

** Please check dimension g, g2 and g6 as motor
May Project below the base of the unit especially
when using B5 D flange motors

GEARED MOTOR

DIMENSIONS – TRIPLE REDUCTION BASE MOUNT



SIZE	A	B	B1	C	D	E	ØF	G	H	H1	L	P	P1	P2	Q	ØS	U	V5	X	X1	X2
AM0330	40	32	36	4	6	22.5	20 k6	58	110	85	25	135	78	72	110	10	12	M6x1.0 16 deep	147	75	-
AM0430	50	40	36	7	8	28	25 k6	75	110	130	35	145	84	75	160	10	16	M10x1.5 22 deep	178	90	-
AM0630	60	50	47	7	8	33	30 k6	90	135	165	55	190	105	98	200	15	20	M10x1.5 22 deep	230	115	-
AM0730	80	70	60	5	12	43	40 k6	115	170	205	60	230	130	119	245	19	25	M16x2.0 36 deep	275	140	-
AM0830	100	80	0	10	14	53.5	50 k6	140	215	260	75	290	165	147	310	19	35	M16x2.0 36 deep	321	180	362
AM0930	120	100	0	10	18	64	60 m6	160	250	310	90	340	200	172	365	23	40	M20x2.5 42 deep	394	225	433
AM1030	140	110	0	15	20	74.5	70 m6	185	290	370	110	400	225	203	440	27	45	M20x2.5 42 deep	446	250	505
AM1330	170	140	0	15	25	95	90 m6	220	340	410	110	450	242	228	490	34	50	M24x3.0 50 deep	483	265	563
AM1430	210	180	0	15	28	106	100 m6	260	380	500	150	530	278	268	590	41	50	M24x3.0 50 deep	551	300	630

MOTORS	ALL SIZES					AM0330		AM0430		AM0630		AM0730		AM0830		AM0930		AM1030		AM1330		AM1430	
	ko	g	g1	g2	g6	k	kb	k	kb	k	kb												
63	185	122	101	160	140	437	479	460	502	522	564	608	650	-	-	-	-	-	-	-	-		
71	210	137	107	167	160	462	503	489	530	551	592	639	680	-	-	-	-	-	-	-	-		
80	230	158	118	190	200	-	-	524	574	586	636	659	709	679	729	779	829	877	927	-	-		
90S/L	270	177	149	218	200	-	-	-	-	636	695	708	767	729	788	819	878	917	976	-	-		
100/112	340	197	159	238	250	-	-	-	-	-	822	890	822	890	895	963	993	1061	1118	1186	1243	1311	
132 S/M	402	253	184	288	300	-	-	-	-	-	-	-	-	-	-	-	1055	1126	1180	1251	1305	1376	
160 M/L	538	314	230	*	350	-	-	-	-	-	-	-	-	-	-	-	1226	*	1310	*	1435	*	
180 M	538	314	230	*	350	-	-	-	-	-	-	-	-	-	-	-	1226	*	1310	*	1435	*	
180 L	613	354	257	*	350	-	-	-	-	-	-	-	-	-	-	-	1301	*	1385	*	1510	*	
200 L	613	354	257	*	400	-	-	-	-	-	-	-	-	-	-	-	-	1385	*	1510	*		
225 S/M	690	411	280	*	450	-	-	-	-	-	-	-	-	-	-	-	1489	*	1614	*			

Dimension kb, k, ko, g, g2, g1 may vary as per make of motor

kb – for brake motors

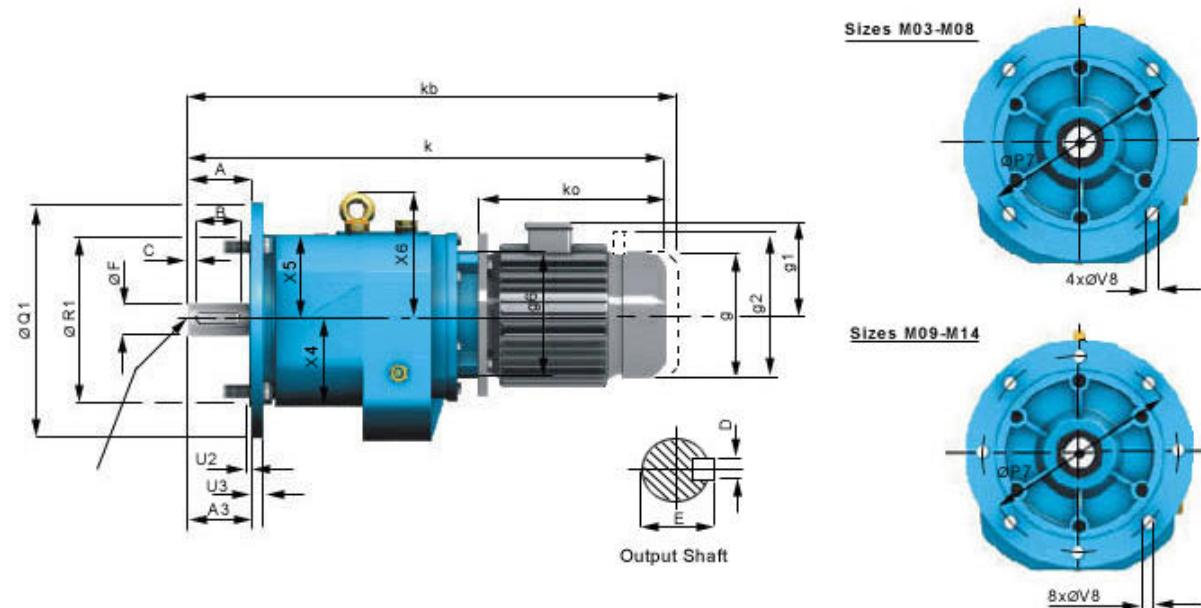
g2 – hand release if required

g6 – Dimension is shown for B5 D flange motors,
please check page 20 for B14 C face motors.

all parallel keys are to
DIN 6885

* Consult AGNEE

GEARED MOTOR DIMENSIONS – DOUBLE REDUCTION FLANGE MOUNT



SIZE	A	A3	B	C	D	E	ØF	ØP7	ØQ1	ØR1	U2	U3	V5	V8	X4	X5	X6
AM0320	40	40	32	4	6	22.5	20 k6	130	160	110 h8	3.5	7	M6x1.0 16deep	10	80	70	-
AM0420	50	50	40	7	8	28	25 k6	165	200	130 h8	3.5	12	M10x1.5 22deep	12	95	88	-
AM0620	60	60	50	7	8	33	30 k6	215	250	180 h8	4	12	M10x1.5 22deep	15	113	115	-
AM0720	80	80	70	5	12	43	40 k6	265	300	230 h8	4	14	M16x2.0 36deep	15	138	138	-
AM0820	100	100	80	10	14	53.5	50 k6	300	350	250 h8	5	16	M16x2.0 36deep	18	187	-	173
AM0920	120	140	100	10	18	64	60 m6	400	450	350 h8	5	18	M20x2.5 42deep	18	230	-	198
AM1020	140	140	110	15	20	74.5	70 m6	400	450	350 h8	5	22	M20x2.5 42deep	18	260	-	245
AM1320	170	170	140	15	25	95	90 m6	500	550	450 h8	5	25	M24x3.0 50deep	18	278	-	288
M1420	210	210	180	15	28	106	100 m6	500	550	450 h8	5	25	M24x3.0 50deep	18	318	-	320

MOTORS	ALL SIZES					AM0320**		AM0420* *		AM0620* *		AM0720**		AM0820		AM0920		AM1020		AM1320		AM1420	
	ko	g	g1	g2	g6	k	kb	k	kb	k	kb	k	kb	k	kb	k	kb	k	kb	k	kb		
63	185	122	101	160	140	381	423	404	446	455	497	-	-	-	-	-	-	-	-	-	-		
71	210	137	107	167	160	406	447	433	474	486	527	-	-	-	-	-	-	-	-	-	-		
80	230	158	118	190	200	445	495	468	518	506	556	579	629	672	722	753	803	-	-	-	-		
90S/L	270	177	149	218	200	495	554	518	577	555	614	629	688	712	771	793	852	-	-	-	-		
100/112	340	197	159	238	250	573	641	596	664	669	737	722	790	788	856	869	937	936	1004	1056	1124	1172	1240
132S/M	402	253	184	288	300	-	-	-	733	804	786	857	850	921	931	1002	998	1069	1118	1189	1234	1305	
160M/L	538	314	230	*	350	-	-	-	-	-	952	*	1016	*	1102	*	1169	*	1248	*	1363	*	
180M	538	314	230	*	350	-	-	-	-	-	-	-	-	-	1102	*	1169	*	1248	*	1363	*	
180L	613	354	257	*	350	-	-	-	-	-	-	-	-	-	1177	*	1244	*	1323	*	1438	*	
200L	613	354	257	*	400	-	-	-	-	-	-	-	-	-	1177	*	1244	*	1323	*	1438	*	
225S/M	690	411	280	*	450	-	-	-	-	-	-	-	-	-	1281	*	1348	*	1427	*	1542	*	
250	690	411	280	*	550	-	-	-	-	-	-	-	-	-	-	-	-	1599	*	1714	*		
280S/M	820	490	355	*	550	-	-	-	-	-	-	-	-	-	-	-	-	1729	*	1844	*		

Dimension kb, k, ko, g, g2, g1 may vary as per make of motor
kb – for brake motors

g2 – hand release if required

g6 – Dimension is shown for B5 D flange motors ,
please check page 20 for B14 C face motors.

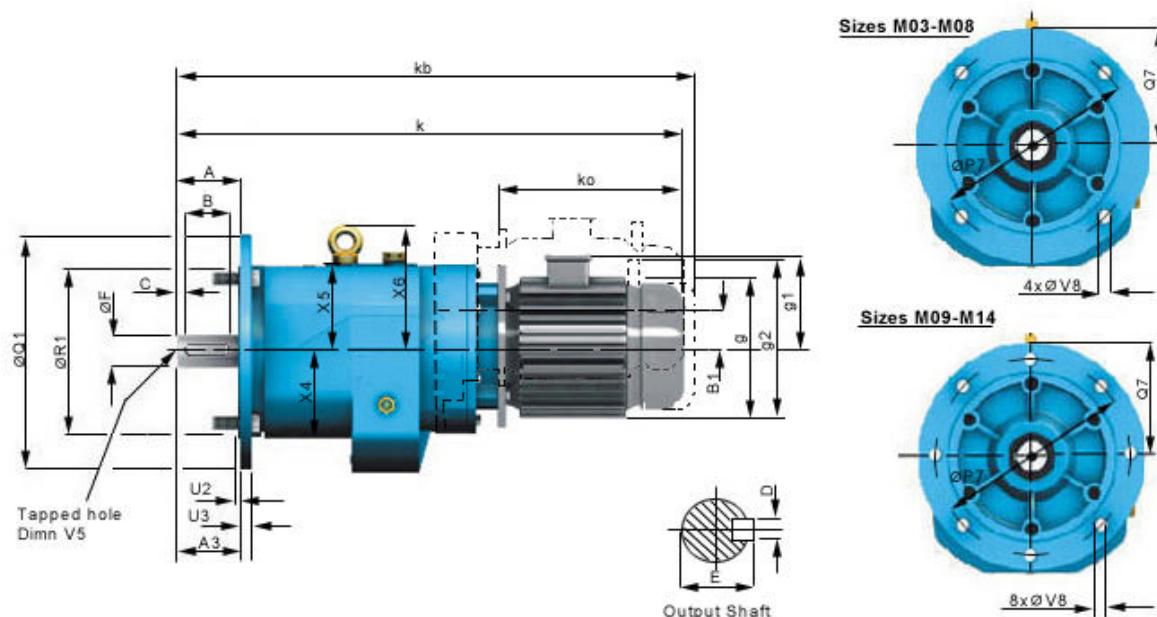
all parallel keys are to DIN 6885

* Consult AGNEE

** Please check dimension g, g2 and g6 as motor may project below the base of the unit

GEARED MOTOR

DIMENSIONS – TRIPLE REDUCTION FLANGE MOUNT



SIZE	A	A3	B	B1	C	D	E	ØF	ØP7	ØQ1	Q7	ØR1	U2	U3	V5	V8	X4	X5	X6
AM0330	40	40	32	36	4	6	22.5	20 k6	130	160	106	110 h8	3.5	7	M6x1.0 16deep	10	80	70	-
AM0430	50	50	40	36	7	8	28	25 k6	165	200	106	130 h8	3.5	12	M10x1.5 22deep	12	95	88	-
AM0630	60	60	50	47	7	8	33	30 k6	215	250	117	180 h8	4	12	M10 x1.5 22deep	15	113	115	-
AM0730	80	80	70	60	5	12	43	40 k6	265	300	150	230 h8	4	14	M16x2.0 36deep	15	138	138	-
AM0830	100	100	80	0	10	14	53.5	50 k5	300	350	-	250 h8	5	16	M16x2.0 36deep	18	187	-	173
AM0930	120	140	100	0	10	18	64	60 m6	400	450	-	350 h8	5	18	M20x2.5 42deep	18	230	-	198
AM1030	140	140	110	0	15	20	74.5	70 m6	400	450	-	350 h8	5	22	M20x2.5 42deep	18	260	-	245
AM1330	170	170	140	0	15	25	95	90 m6	500	550	-	450 h8	5	25	M24x3.0 50deep	18	278	-	288
AM1430	210	210	180	0	15	28	106	100 m6	500	550	-	450 h8	5	25	M24x3.0 50deep	18	318	-	320

MOTORS	ALL SIZES						AM0330		AM0430		AM0630		AM0730		AM0830		AM0930		AM1030		AM1330		AM1430		
	k	g	gl	g2	g6	k	kb	k	kb	k	kb	k	kb	k	lb	k	kb	k	kb	k	kb	k	kb	k	kb
MOTOR FRAME SIZE	63	185	122	101	160	140	437	479	460	502	522	564	608	650	-	-	-	-	-	-	-	-	-	-	-
	71	210	137	107	167	160	462	503	489	530	551	592	639	680	-	-	-	-	-	-	-	-	-	-	-
	80	230	158	118	190	200	-	-	524	574	586	636	659	709	679	729	779	829	877	927	-	-	-	-	-
	90S/L	270	177	149	218	200	-	-	-	-	636	695	708	767	729	788	819	878	917	976	-	-	-	-	-
	100/112	340	197	159	238	250	-	-	-	-	-	-	822	890	822	890	895	963	993	1061	1118	1186	1243	1311	
	132S/M	402	253	184	288	300	-	-	-	-	-	-	-	-	-	-	-	-	1055	1126	1180	1251	1305	1376	
	160M/L	538	314	230	*	350	-	-	-	-	-	-	-	-	-	-	-	-	1226	*	1310	*	1435	*	
	180M	538	314	230	*	350	-	-	-	-	-	-	-	-	-	-	-	-	1226	*	1310	*	1435	*	
	180L	613	354	257	*	350	-	-	-	-	-	-	-	-	-	-	-	-	1301	*	1385	*	1510	*	
	200L	613	354	257	*	400	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1385	*	1510	*
	225S/M	690	411	280	*	450	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1489	*	1614	*

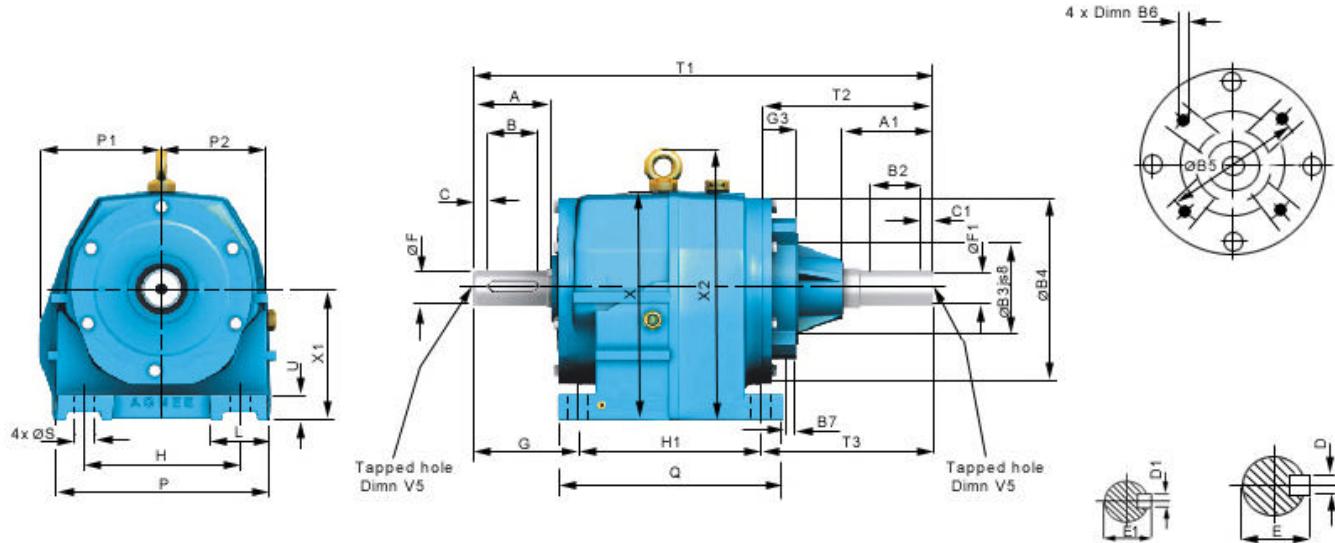
Dimension kb, k, ko, g, g2, g1 may vary as per make of motor

kb = for brake motors **q2** = hand release if required

all parallel keys are to DIN 6885 . * Consult AGNEE

q6 - Dimension is shown for B5 D flange motors, please check page 20 for B14 C face motors

GEAR REDUCER DIMENSIONS – DOUBLE REDUCTION BASE MOUNT

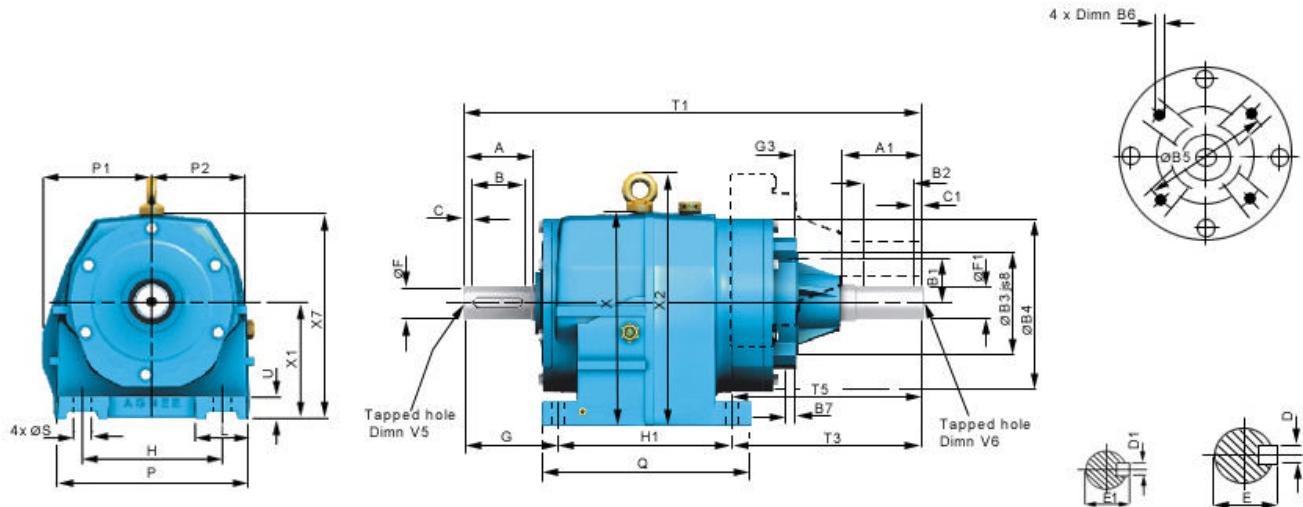


SIZE	A	A1	B	B2	ØB3	ØB4	ØB5	B6	B7	C	C1	D	D1	E	E1	ØF	ØF1	G	G3
AM0320	40	40	32	32	65	140	90	M8	16	4	4	6	5	22.5	18	20 k6	16 k6	58	12
AM0420	50	40	40	32	65	140	90	M8	16	7	4	8	5	28	18	25 k6	16 k6	75	12
AM0620	60	40	50	32	78	180	115	M10	17	7	4	8	6	33	21.5	30 k6	19 k6	90	22
AM0720	80	50	70	40	98	212	145	M12	20	5	5	12	8	43	27	40 k6	24 k6	115	23
AM0820	100	60	80	50	98	250	145	M12	20	10	5	14	8	53.5	31	50 k6	28 k6	140	23
AM0920	120	80	100	70	125	300	175	M16	30	10	5	18	10	64	41	60 m6	38 k6	160	23
AM1020	140	110	110	70	155	360	210	M20	36	15	10	20	16	74.5	45	70 m6	42 k6	185	34
AM1320	170	110	140	90	155	400	210	M20	36	15	10	25	16	95	59	90 m6	55 m6	220	34
AM1420	210	110	180	90	155	460	210	M20	36	15	10	28	16	106	59	100 m6	55 m6	260	34

SIZE	H	H1	L	P	P1	P2	Q	S	T1	T2	T3	U	V5	V6	X	X1	X2
AM0320	110	85	25	135	78	72	110	10	294	111	151	12	M6 x 1.0 16 deep	M5 x 0.8 12.5 deep	147	75	-
AM0420	110	130	35	145	84	75	160	10	317	111	112	16	M10 x 1.5 22 deep	M5 x 0.8 12.5 deep	178	90	-
AM0620	135	165	55	190	105	98	200	15	369	111	114	20	M10 x 1.5 22 deep	M6 x 1.0 16 deep	230	115	-
AM0720	170	205	60	230	130	119	245	19	440	115	120	25	M16 x 2.0 36 deep	M8 x 1.25 19 deep	275	140	-
AM0820	215	260	75	290	165	147	310	19	555	160	155	35	M16 x 2.0 36 deep	M10 x 1.5 22 deep	321	180	362
AM0920	250	310	90	340	200	172	365	23	660	195	190	40	M20 x 2.5 42deep	M12 x 1.75 28 deep	394	225	433
AM1020	290	370	110	400	225	203	440	27	782	233	227	45	M20 x 2.5 42deep	M16 x 2.0 36 deep	446	250	505
AM1320	340	410	110	450	242	228	490	34	907	286	277	50	M24 x 3.0 50 deep	M20 x 2.5 42deep	483	265	563
AM1420	380	500	150	530	278	268	590	41	1022	265	262	50	M24 x 3.0 50 deep	M20 x 2.5 42deep	551	300	630

all parallel keys are to DIN 6885

GEAR REDUCER DIMENSIONS – TRIPLE REDUCTION BASE MOUNT

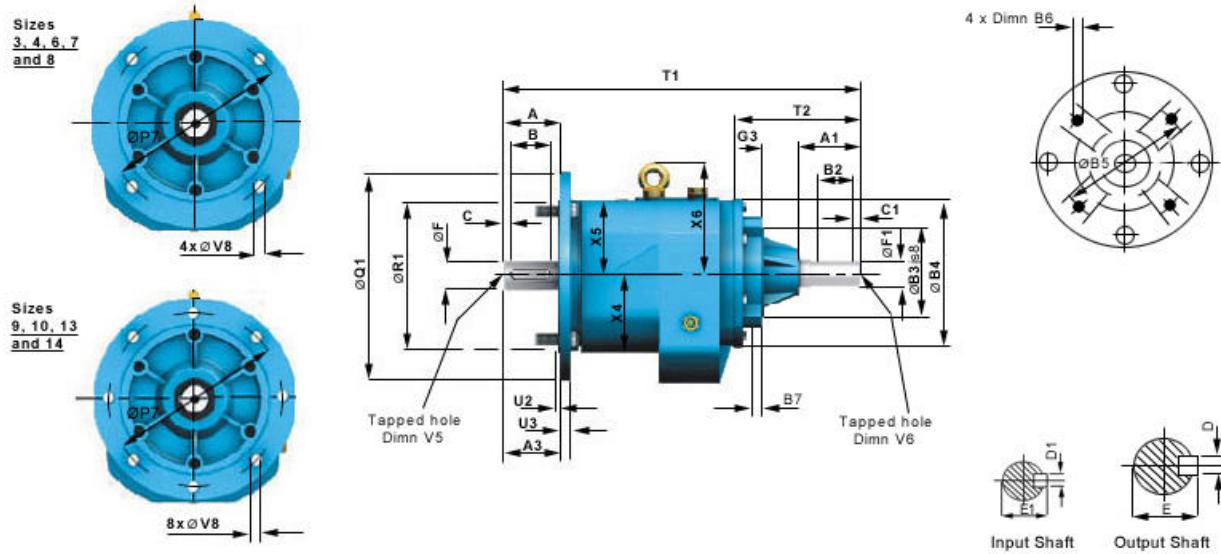


SIZE	A	A1	B	B1	B2	ØB3	ØB4	ØB5	B6	B7	C	C1	D	D1	E	E1	ØF	ØF1	G	G3
AM0330	40	40	32	36	32	65	140	90	M8	16	4	4	6	5	22.5	18	20 k6	16 k6	58	12
AM0430	50	40	40	36	32	65	140	90	M8	16	7	4	8	5	28	18	25 k6	16 k6	75	12
AM0630	60	40	50	47	32	65	140	90	M8	16	7	4	8	5	33	18	30 k6	16 k6	90	12
AM0730	80	40	70	60	32	78	180	115	M10	17	5	4	12	6	43	21.5	40 k6	19 k6	115	22
AM0830	100	50	80	0	40	98	212	145	M12	20	10	5	14	8	53.5	27	50 k6	24 k6	140	23
AM0930	120	60	100	0	50	98	250	145	M12	20	10	5	18	8	64	31	60 m6	28 k6	160	23
AM1030	140	80	110	0	70	125	300	175	M16	30	15	5	20	10	74.5	41	70 m6	38 k6	185	23
AM1330	170	110	140	0	90	155	400	210	M20	36	15	10	25	16	95	59	90 m6	55 m6	220	34
AM1430	210	110	180	0	90	155	460	210	M20	36	15	10	28	16	106	59	100 m6	55 m6	260	34

SIZE	H	H1	L	P	P1	P2	Q	S	T1	T3	T5	U	V5	V6	X	X1	X2	X7
AM 0330	110	85	25	135	78	72	110	10	350	207	167	12	M6 x 1.0 16 deep	M5 x 0.8 12.5 deep	147	75	-	181
AM 0430	110	130	35	145	84	75	160	10	373	168	167	16	M10 x 1.5 22 deep	M5 x 0.8 12.5 deep	178	90	-	196
AM 0630	135	165	55	190	105	98	200	15	435	180	177	20	M10 x 1.5 22 deep	M5 x 0.8 12.5 deep	230	115	-	232
AM0730	170	205	60	230	130	119	245	19	522	202	197	25	M16 x 2.0 36 deep	M6 x 1.0 16 deep	275	140	-	290
AM0830	215	260	75	290	165	147	310	19	540	140	145	35	M16 x 2.0 36 deep	M8 x 1.25 19 deep	321	180	362	-
AM0930	250	310	90	340	200	172	365	23	662	192	197	40	M20 x 2.5 42deep	M10 x 1.5 22 deep	394	225	433	-
AM1030	290	370	110	400	225	203	440	27	784	229	235	45	M20 x 2.5 42 deep	M12 x 1.75 28 deep	446	250	505	-
AM1330	340	410	110	450	242	228	490	34	969	339	348	50	M24 x 3.0 50 deep	M20 x 2.5 42 deep	483	265	563	-
AM1430	380	500	150	530	278	268	590	41	1094	334	337	50	M24 x 3.0 50 deep	M20 x 2.5 42 deep	551	300	630	-

GEAR REDUCER

DIMENSIONS – DOUBLE REDUCTION FLANGE MOUNT

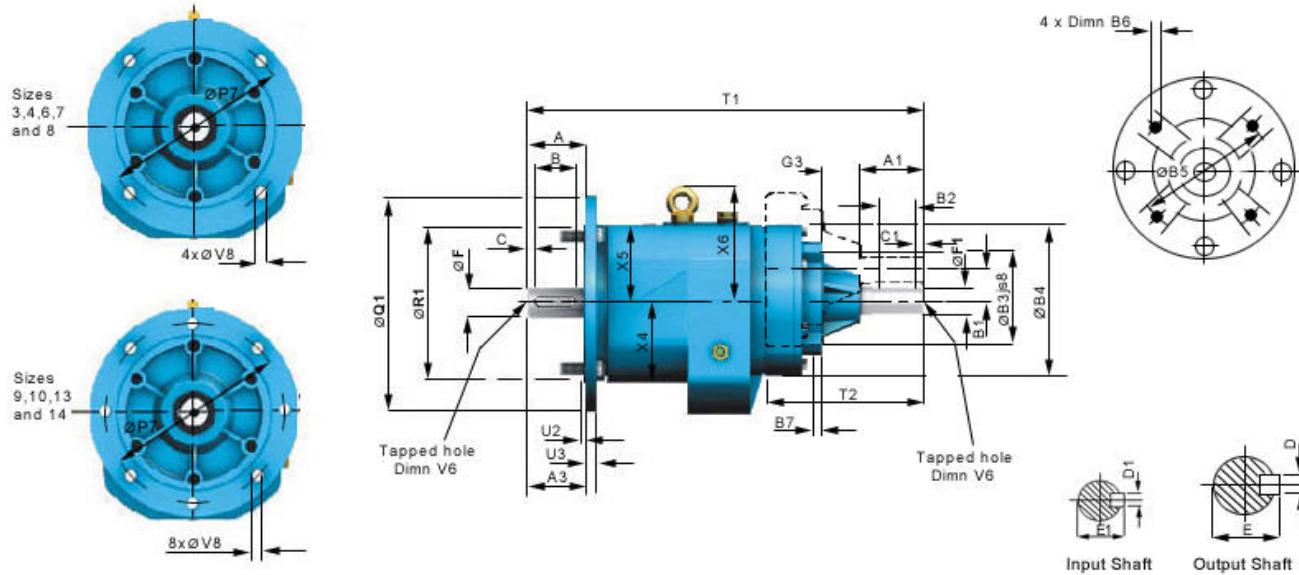


SIZE	A	A1	A3	B	B2	ØB3	ØB4	ØB5	B6	B7	C	C1	D	D1	E	E1	ØF	ØF1	G3
AM0320	40	40	40	32	32	65	140	90	M8	16	4	4	6	5	22.5	18	20 k6	16 k6	12
AM0420	50	40	50	40	32	65	140	90	M8	16	7	4	8	5	28	18	25 k6	16 k6	12
AM0620	60	40	60	50	32	78	180	115	M10	17	7	4	8	6	33	21.5	30 k6	19 k6	22
AM0720	80	50	80	70	40	98	212	145	M12	20	5	5	12	8	43	27	40 k6	24 k6	23
AM0820	100	60	100	80	50	98	250	145	M12	20	10	5	14	8	53.5	31	50 k6	28 k6	23
AM0920	120	80	140	100	70	125	300	175	M16	30	10	5	18	10	64	41	60 m6	38 k6	23
AM1020	140	110	140	110	70	155	360	210	M20	36	15	10	20	12	74.5	45	70 m6	42 k6	34
AM1320	170	110	170	140	90	155	400	210	M20	36	15	10	25	16	95	59	90 m6	55 m6	34
AM1420	210	110	210	180	90	155	460	210	M20	36	15	10	28	16	106	59	100 m6	55 m6	34

SIZE	P7	ØQ1	ØR1	T1	T2	U2	U3	V5	V6	V8	X4	X5	X6
AM0320	130	160	110 h8	294	111	3.5	7	M6 x 1.0 16 deep	M5 x 0.8 12.5 deep	10	80	70	-
AM0420	165	200	130 h8	317	111	3.5	12	M10 x 1.5 22 deep	M5 x 0.8 12.5 deep	12	95	88	-
AM0620	215	250	180 h8	369	111	4	12	M10 x 1.5 22 deep	M6 x 1.0 16 deep	15	113	115	-
AM0720	265	300	230 h8	440	115	4	14	M16 x 2.0 36 deep	M8 x 1.25 19 deep	15	138	138	-
AM0820	300	350	250 h8	555	160	5	16	M16 x 2.0 36 deep	M10 x 1.5 22 deep	18	187	-	173
AM0920	400	450	350 h8	660	195	5	18	M20 x 2.5 42 deep	M12 x 1.75 28 deep	18	230	-	198
AM1020	400	450	350 h8	782	233	5	22	M20 x 2.5 42 deep	M16 x 2.0 36 deep	18	260	-	245
AM1320	500	550	450 h8	907	286	5	25	M24 x 3.0 50 deep	M20 x 2.5 42 deep	18	278	-	288
AM1420	500	550	450 h8	1022	265	5	25	M24 x 3.0 50 deep	M20 x 2.5 42 deep	18	318	-	320

all parallel keys are to DIN 6885

GEAR REDUCER DIMENSIONS – TRIPLE REDUCTION FLANGE MOUNT



SIZE	A	A1	A3	B	B1	B2	ØB3	ØB4	ØB5	B6	B7	C	C1	D	D1	E	E1	ØF	ØF1	G3
AM0330	40	40	40	32	36	32	65	140	90	M8	16	4	4	6	5	22.5	18	20 k6	16 k6	12
AM0430	50	40	50	40	36	32	65	140	90	M8	16	7	4	8	5	28	18	25 k6	16 k6	12
AM0630	60	40	60	50	47	32	65	140	90	M8	16	7	4	8	5	33	18	30 k6	16 k6	12
AM0730	80	40	80	70	60	32	78	180	115	M10	17	5	4	12	6	43	21.5	40 k6	19 k6	22
AM0830	100	50	100	80	0	40	98	212	145	M12	20	10	5	14	8	53.5	27	50 k6	24 k6	23
AM0930	120	60	140	100	0	50	98	250	145	M12	20	10	5	18	8	64	31	60 m6	28 k6	23
AM1030	140	80	140	110	0	70	125	300	175	M16	30	15	5	20	10	74.5	41	70 m6	38 k6	23
AM1330	170	110	170	140	0	90	155	400	210	M20	36	15	10	25	16	95	59	90 m6	55 m6	34
AM1430	210	110	210	180	0	90	155	460	210	M20	36	15	10	28	16	106	59	100 m6	55 m6	34

SIZE	P7	ØQ1	ØR1	T1	T2	U2	U3	V5	V6	V8	X4	X5	X6
AM0330	130	160	110 h8	350	167	3.5	7	M6 x 1.0 16 deep	M5 x 0.8 12.5 deep	10	80	70	-
AM0430	165	200	130 h8	373	167	3.5	12	M10 x 1.5 22 deep	M5 x 0.8 12.5 deep	12	95	88	-
AM0630	215	250	180 h8	435	177	4	12	M10 x 1.5 22 deep	M5 x 0.8 12.5 deep	15	113	115	-
AM0730	265	300	230 h8	522	197	4	14	M16 x 2.0 36 deep	M6 x 1.0 16 deep	15	138	138	-
AM0830	300	350	250 h8	540	145	5	16	M16 x 2.0 36 deep	M8 x 1.25 19 deep	18	187	-	173
AM0930	400	450	350 h8	662	197	5	18	M20 x 2.5 42 deep	M10 x 1.5 22 deep	18	230	-	198
AM1030	400	450	350 h8	784	235	5	22	M20 x 2.5 42 deep	M12 x 1.75 28 deep	18	260	-	245
AM1330	500	550	450 h8	969	348	5	25	M24 x 3.0 50 deep	M20 x 2.5 42 deep	18	278	-	288
AM1430	500	550	450 h8	1094	337	5	25	M24 x 3.0 50 deep	M20 x 2.5 42 deep	18	318	-	320

all parallel keys are to DIN 6885

OVERHUNG & AXIAL LOADS (NEWTONS) ON SHAFTS

Maximum permissible overhung loads

When a sprocket, gear etc. is mounted on the shaft a calculation, as below, must be made to determine the overhung load on the shaft, and the results compared to the maximum permissible overhung loads tabulated. Overhung loads can be reduced by increasing the diameter of the sprocket, gear, etc. If the maximum permissible overhung load is exceeded, the sprocket, gear, etc. should be mounted on a separate shaft, flexibly coupled and supposed in its own bearings, or the gear unit shaft should be extended to run in an outboard bearing. Alternatively, a larger gear is often a less expensive solution.

Permissible overhung loads vary according to the direction of rotation. The values tabulated are for the most unfavourable direction with the unit transmitting full rated power and the load P applied midway along the shaft extension. Hence they can sometimes be increased for a more favourable direction of rotation, or if the power transmitted is less than the rated capacity of the gear unit, or if the load is applied nearer to the gear unit case. Refer to AGNEE for further details. In any event, the sprocket, gear etc. should be positioned as close as possible to the gear unit case in order to reduce bearing loads and shaft stresses, and to prolong life.

All units will accept 100% momentary overload on stated capacities.

Overhung load (Newtons)

$$P = \frac{kW \times 9,500,000 \times K}{N \times R}$$

where

P = equivalent overhung load (Newtons)

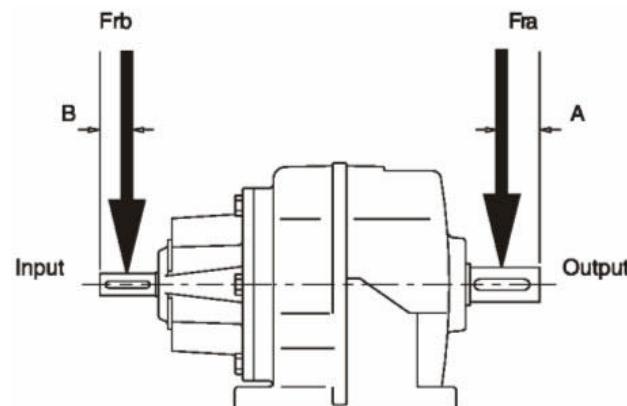
kW = power transmitted by the shaft
(kilowatts)

N = speed of shaft (rev/min)
 R = pitch radius of sprocket, etc. (mm)
 K = factor

Note: 1 Newton = 0.10197 kg.

Overhung member	K (factor)
Chain sprocket*	1.00
spur or helical pinion	1.25
vee belt sheave	1.50
Flat belt pulley	2.00

* If multistrand chain drives are equally loaded and the outer stand is further than dimension Fra output or FrB input, refer to AGNEE



Distance midway along the shaft extension

Size of unit	No. of Reductions	Dimension A (mm)	Dimension B (mm)
AM03	2-3	20	20
AM04	2-3	25	20
AM06	2-5	30	20
AM07	2	40	25
AM07	3-5	40	20
AM08	2	50	30
AM08	3	50	25
AM08	4-5	50	20
AM09	2	60	40
AM09	3	60	30
AM09	4-5	60	20
AM10	2	70	55
AM10	3	70	40
AM10	4	70	25
AM10	5	70	25
AM13	2-3	85	55
AM13	4	85	30
AM13	5	85	25
AM14	2-3	105	55
AM14	4	105	30
AM14	5	105	25

Axial Thrust Capacities (Newtons)

Permissible axial thrust capacities vary according to the direction of rotation and the direction of thrust, towards or away from the unit. The values tabulated are for the most unfavourable direction and hence can sometimes be increased. Similarly they can sometimes be increased if the power transmitted is less than the rated capacity of the gear unit.

Thrust capacities tabulated refer to outputshafts, and are calculated without any overhung loads being applied. In cases where combined axial thrusts and overhung loads are to be applied, refer to AGNEE

OVERHUNG & LOADS (NEWTONS) & AXIAL THRUSTS (NEWTONS)

REDUCER OVERHUNG LOADS (Fra) & AXIAL THRUST CAPACITIES ON OUTPUTSHAFT

		OUTPUT REV/MIN															
		1000	630	500	400	320	250	200	160	125	100	80	63	50	40	32	25& UNDER
AM 0320- AM 0330	OHL(Fra)	1210	1290	1300	1410	1450	1475	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500
	THRUST	1650	1650	1650	1650	1650	1650	1650	1650	1650	1650	1650	1650	1650	1650	1650	1650
AM 0420- AM 0430	OHL(Fra)	1850	1930	1980	2040	2060	2160	2240	2340	2470	2760	3010	3370	3420	3430	3430	3430
	THRUST	2700	2700	2700	2700	2700	2700	2700	2700	2700	2700	2700	2700	2700	2700	2700	2700
AM 0620- AM 0650	OHL(Fra)	3120	3500	3580	3600	3700	3910	4000	4210	4410	4500	4780	5660	6040	6740	7070	7100
	THRUST	4530	4700	4700	4700	4700	4700	4700	4700	4700	4700	4700	4700	4700	4700	4700	4700
AM 0720- AM 0750	OHL(Fra)	4230	4650	4730	4730	4730	4730	4730	4840	5040	5680	6340	7180	7650	8280	9160	9300
	THRUST	6190	7030	7030	7030	7030	7030	7030	7030	7030	7200	7200	7200	7200	7200	7200	7200
AM 0820- AM 0850	OHL(Fra)	8100	8200	8200	8300	8400	8500	8500	8600	8800	9200	12200	13100	15600	18000	22200	22200
	THRUST	8200	8200	8200	8200	8200	8200	8200	8200	8500	8500	8500	10700	10700	10700	10700	10700
AM 0920- AM 0950	OHL(Fra)	10000	10100	10100	10200	10200	10400	10600	10800	11000	11400	13000	15700	17000	22400	26200	28000
	THRUST	9490	10200	10200	10200	10200	10200	10200	10200	10200	11800	13500	15300	15300	15300	15300	15300
AM 1020- AM 1050	OHL(Fra)	12000	12200	12200	12300	12300	12400	12400	12500	12500	13000	15000	15900	23000	28000	34000	40000
	THRUST	12400	12400	12400	12400	12400	12400	12400	12400	13500	13500	16700	16700	23800	23800	23800	23800
AM 1320- AM 1350	OHL(Fra)	28000	28300	28700	29200	29500	30000	31000	32500	35000	38000	42000	45000	51000	56000	60000	64000
	THRUST	24000	24000	24000	24000	24000	24000	24000	24000	26000	28000	31000	33000	38000	43000	43000	43000
AM 1420- AM 1450	OHL(Fra)	35000	35500	36000	37000	37500	38000	39000	40000	41000	43000	46000	52000	60000	70000	79000	79000
	THRUST	28000	28000	28000	28000	28000	28000	28000	28000	35000	37000	38000	41000	48000	48000	48000	48000

REDUCER OVERHUNG LOADS (FrB) ON INPUTSHAFT

AT 1450 rev/min

DOUBLE REDUCTION UNIT	RATIO	SIZE								
		AM03	AM04	AM06	AM07	AM08	AM09	AM10	AM13	AM14
	4.5	1640	1490	1470	1960	3130	1480	3900	11600	10400
	5.6	1690	1550	1550	1960	3130	1480	3900	11600	10400
	7.1	1690	1510	1500	863	1270	1490	2750	10500	7140
	9.0	1730	1570	1580	1960	1270	1850	3710	10500	7140
	11.0	1720	1540	1540	1790	1180	1500	2640	6920	2960
	14.0	1760	1610	1620	2080	2850	2850	3520	9630	6190
	18.0	1740	1580	1550	2020	2920	1540	3380	11500	4830
	22.0	1770	1640	1660	2170	3190	3630	4210	11900	8240
	28.0	1750	1590	1590	2090	2920	1690	4000	12400	11800
	36.0	1780	1660	1690	2220	3260	3750	4530	12000	11800
	45.0	1810	1710	1760	2320	3440	3950	4830	12300	11900
	56.0	1790	1690	1800	2320	3500	4000	4820	12300	11900
	71.0	1820	1720	1800	2350	3500	4000	4920	12300	11900
TRIPLE REDUCTION UNIT	40.0	1850	1770	1510	1780	-	-	-	13000	12600
	50.0	1860	1800	1550	1840	-	-	-	13100	12600
	63.0	1850	1780	1530	1810	2400	3500	4210	13100	12700
	80.0	1860	1810	1570	1860	2470	3600	4270	13200	12900
	100.0	1860	1790	1540	1830	2430	3550	4280	13200	12800
	125.0	1860	1820	1580	1880	2490	3640	4330	13300	12900
	160.0	1860	1830	1600	1920	2540	3700	4420	13600	13200
	200.0	1860	1820	1590	1890	2510	3660	4370	13300	13000
	250.0	1860	1840	1610	1920	2560	3720	4450	13600	13200
QUADRUPLE REDUCTION UNIT ALL RATIOS		-	-	1720	1720	1800	1800	2350	3500	3500
QUINTUPLE REDUCTION UNIT ALL RATIOS		-	-	1840	1840	1800	1800	2350	2350	2350

MOMENTS OF INERTIA

MOMENTS OF INERTIA (Kg cm^2) Referred to Input Shaft

DOUBLE REDUCTION

RATIO	AM0320	AM0420	AM0620	AM 0720	AM0820	AM0920	AM 1020	AM1320	AM1420
1.4	2.27	7.10	21.89	60.27	98.76	298.97	583.87	-	-
1.8	1.50	4.01	12.33	34.36	59.78	185.79	351.91	-	-
2.2	1.28	3.43	10.26	28.43	51.88	159.07	311.93	-	-
2.5	1.12	2.80	8.57	24.66	45.17	136.69	261.14	-	-
2.8	1.28	3.52	11.51	28.21	67.47	208.78	373.34	618.44	1169.23
3.2	0.89	1.96	6.02	16.37	32.93	101.76	184.28	547.14	971.05
3.6	0.84	1.67	5.06	13.67	28.81	88.07	164.27	551.66	990.96
4.0	0.96	2.19	7.08	17.65	44.21	138.20	244.01	409.81	709.48
4.5	0.86	1.93	6.08	15.19	39.27	121.18	220.71	367.33	624.20
5.0	0.88	1.88	6.17	15.00	41.62	129.68	229.30	375.04	617.93
5.6	0.80	1.67	5.36	13.08	37.17	114.41	208.27	338.51	551.99
6.3	0.69	1.24	3.96	9.95	26.84	83.65	142.60	256.20	412.87
7.1	0.67	1.11	3.46	8.70	23.97	73.56	128.51	232.37	366.99
8.0	0.66	1.12	3.60	8.93	25.82	80.41	136.92	241.60	378.20
9.0	0.64	1.01	3.18	7.91	23.16	70.97	123.64	220.47	338.87
10.	0.58	0.87	2.57	6.65	17.47	55.38	90.14	177.81	252.34
11.	0.56	0.79	2.28	5.76	15.62	49.65	79.04	150.52	221.93
12.	0.57	0.81	2.42	6.21	17.05	54.03	87.85	172.05	237.66
14.	0.55	0.75	2.17	5.42	15.31	48.61	77.25	146.03	210.55
16.	0.53	0.65	1.81	4.36	12.23	38.50	62.07	130.69	159.03
18.	0.52	0.63	1.75	3.97	11.17	35.43	56.22	117.53	148.96
20.	0.52	0.63	1.76	4.20	12.07	37.98	61.11	128.48	153.53
22.	0.51	0.61	1.70	3.84	11.04	35.01	55.45	115.79	144.43
25.	0.50	0.55	1.48	3.36	8.88	29.38	44.36	106.03	108.95
28.	0.50	0.54	1.44	3.22	8.54	27.96	40.93	101.72	104.88
32.	0.50	0.55	1.46	3.29	8.81	29.17	43.98	105.16	106.76
36.	0.49	0.53	1.42	3.17	8.48	27.78	40.65	101.02	103.01
40.	0.50	0.54	1.45	3.25	8.74	28.96	43.57	104.56	106.00
45.	0.49	0.53	1.41	3.13	8.42	27.61	40.34	100.54	102.37
50.	0.49	0.51	1.33	2.89	7.49	24.75	37.01	90.76	91.36
56.	0.48	0.51	1.30	2.80	7.36	24.25	35.39	88.24	88.84
63.	0.49	0.51	1.32	2.87	7.46	24.66	36.85	90.51	91.01
71.	0.48	0.50	1.30	2.78	7.34	24.17	35.24	88.01	88.56

TRIPLE REDUCTION

RATIO	AM0330	AM 0430	AM0630	AM 0730	AM0830	AM0930	AM 1030	AM1330	AM1430
36.	0.56	0.59	0.87	2.58	-	-	-	-	-
40.	0.55	0.57	0.80	2.29	-	-	-	141.23	200.86
45.	0.56	0.58	0.86	2.55	-	-	-	165.44	224.05
50.	0.54	0.56	0.79	2.26	-	-	-	140.87	199.99
56.	0.52	0.53	0.65	1.82	8.46	23.22	52.42	126.12	148.84
63.	0.51	0.52	0.63	1.75	7.46	20.29	47.00	113.93	140.57
71.	0.52	0.53	0.65	1.81	8.45	23.18	52.35	125.94	148.41
80.	0.51	0.52	0.63	1.74	7.45	20.26	46.94	113.79	140.23
90.	0.50	0.50	0.55	1.48	5.26	14.54	36.06	104.23	104.90
100	0.49	0.50	0.54	1.44	4.94	13.17	32.86	100.27	101.43
112	0.50	0.50	0.55	1.48	5.26	14.53	36.03	104.16	104.73
125	0.49	0.50	0.54	1.43	4.93	13.16	32.84	100.21	101.28
140	0.50	0.50	0.55	1.47	5.25	14.51	36.00	104.11	104.67
160	0.49	0.50	0.54	1.43	4.93	13.15	32.81	100.18	101.23
180	0.49	0.49	0.52	1.34	3.95	10.17	29.39	90.33	90.44
200	0.48	0.48	0.51	1.31	3.83	9.67	27.79	87.86	88.11
225	0.49	0.49	0.52	1.34	3.95	10.16	29.38	90.31	90.41
250	0.48	0.48	0.51	1.31	3.83	9.67	27.78	87.84	88.09

Note: For units fitted with fans the Moment of Inertia of the fan should be added to the inertia value of the gear unit.

$$GD^2 (\text{Kg cm}^2) = 4 \times \text{Moment of Inertia} (\text{Kg cm}^2)$$

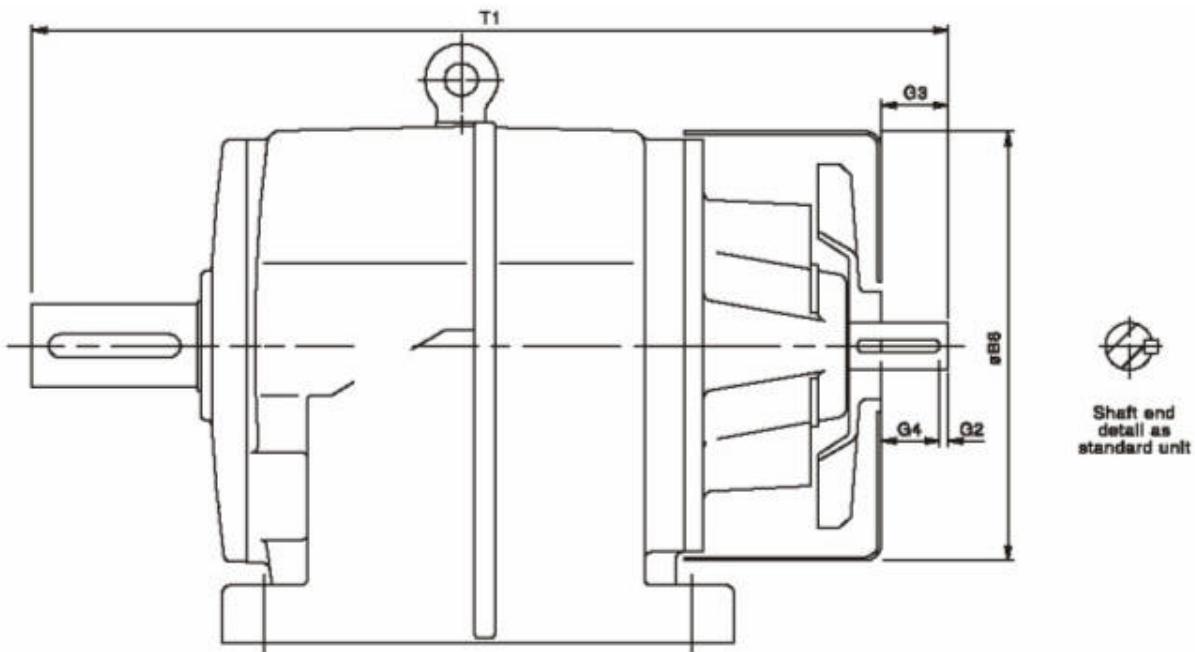
FAN COOLED UNITS

Column 10 Entry

For reducer fan kit modules enter S in column 10

(or Y if used in conjunction with a reducer backstop module kit)

Dimension of Fan cooled Units



Unit Size	Moment of Inertia * (Kg cm ²)	ØB8	G2	G3	G4	T1
AM0720	13.1	225	5	35	30	440
AM0820	13.1	265	5	45	40	555
AM0920	33.5	320	5	65	60	660
AM1020	33.5	380	10	95	85	782
AM1320	210	420	10	85	75	907
AM1420	210	480	10	85	75	1022

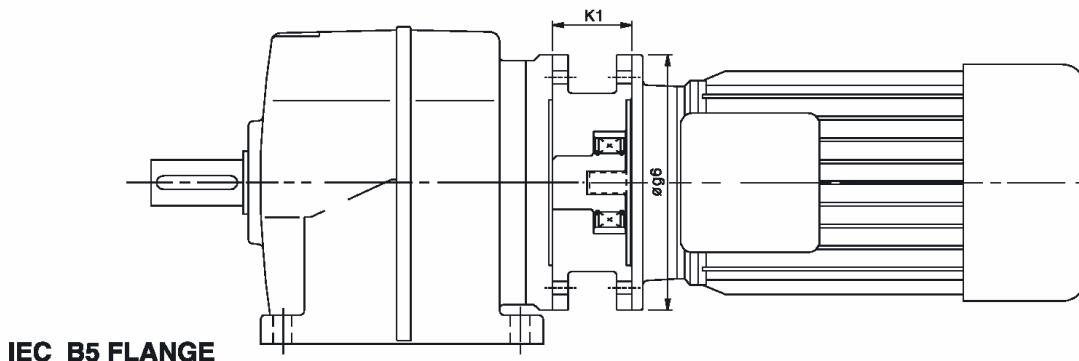
* Moment of Inertia of fan should be added to inertia value of gear unit on

MOTORIZED BACKUP MODULE

Motorised backstop modules can be fitted between the gear unit and motor. The backstop device incorporates high quality centrifugal lift off sprags which are wear free above the lift off speed (n min).

To ensure correct operation motor speed must exceed lift off speed.

Suitable for ambient temperature -40°C to +50°C

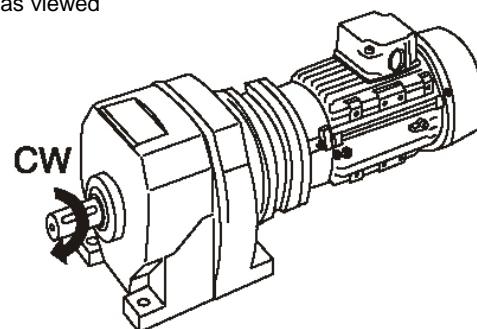


Motor Frame Size	Lift off Speed ('n' min) (rev/min)	Rated Locking Torque ('T max') (at motor) (Nm)	Øg6	K1
100	670	170	250	70
112	670	170	250	70
132	620	940	300	95
160	620	940	350	130
180	620	940	350	130
200	550	1260	400	130

When a backstop module is fitted dimension K1 should be added to the overall length of the geared motor assembly.

Rotation of output shaft must be specified when ordering as viewed from the output shaft end (as shown in the diagram)

- | | | |
|--------------------------|----------------------|-----------------|
| CW-
AC- | Free Rotation | - Clockwise |
| | Locked | - Anticlockwise |
| | Free Rotation | - Anticlockwise |
| | Locked | - Clockwise |



REDUCER BACKSTOP MODULE

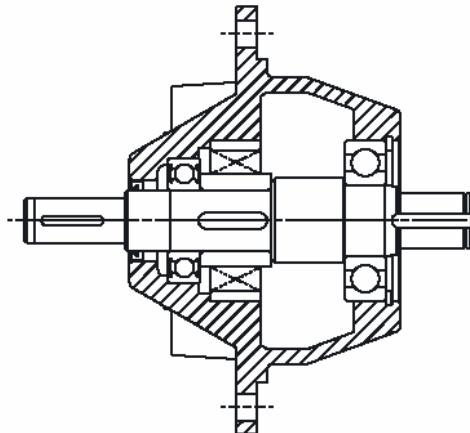
The reducer units listed below can be fitted with an internal backstop, this has no effect of the external unit size. The backstop device incorporates high quality centrifugal lift off sprags which are wear free above the lift off speed (n min). To ensure correct operation input speed must exceed lift off speed.

Suitable for ambient temperature -40°C to + 50° C

Column 10 Entry

For Reducer backstop modules enter in column 10

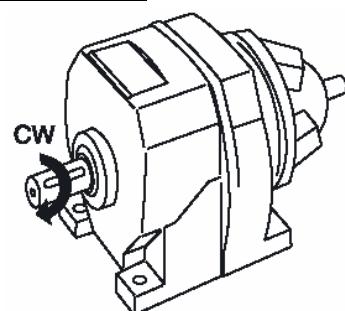
(or if used in conjunction with fan kit)



Unit Size	Lift off Speed ('n' min) (at input shaft) (rev/min)	Rated Locking Torque ('T max') (at input shaft) (Nm)
AM0720	670	170
AM0820	670	300
AM0830	670	170
AM0920	620	940
AM0930	670	300
AM1020	550	1260
AM1030	670	300
AM1320	550	2400
AM1330	550	2400
AM1420	550	2400
AM1430	550	2400

Rotation of output shaft must be specified when ordering as viewed from the output shaft end (as shown in the diagram)

- | | |
|------------------------------|--------------------------------|
| CW – Free Rotation
Locked | - Clockwise
- Anticlockwise |
| AC – Free Rotation
Locked | - Anticlockwise
- Clockwise |



SHIPPING SPECIFICATION -VOLUME

Unit sizes and no. of Reductions			AM 0320		AM 0330		AM 0420		AM 0430		AM 0620		AM 0630		AM 0720		AM 0730		AM 0820		AM 0830	
COLUMN ENTRY			B	F	B	F	B	F	B	F	B	F	B	F	B	F	B	F	B	F	B	F
REDUCER VERSION			.006	.008	.010	.010	.009	.013	.012	.015	.017	.023	.020	.027	.030	.040	.034	.047	.063	.070	.061	.068
MOTORISED	63	With Motor	.010	.011	.014	.015	.013	.016	.017	.018	.022	.028	.026	.033			.039	.054				
		Without Motor	.010	.006	.008	.008	.007	.009	.010	.011	.013	.017	.017	.021			.027	.038				
	71	With Motor	.005	.012	.015	.015	.015	.018	.018	.020	.024	.030	.029	.034			.043	.058				
		Without Motor	.011	.006	.008	.008	.008	.009	.010	.012	.013	.017	.018	.021			.029	.039				
	80	With Motor	.013	.014			.017	.020	.021	.023	.030	.032	.034	.037	.039	.052	.048	.059	.069	.085	.070	.086
		Without Motor	.006	.006			.009	.010	.012	.013	.014	.017	.020	.024	.024	.031	.031	.039	.045	.056	.048	.057
	90	With Motor	.017	.018			.021	.026			.032	.038	.044	.044	.048	.057	.061	.065	.081	.090	.083	.092
		Without Motor	.008	.008			.010	.012			.017	.020	.025	.025	.028	.032	.037	.040	.050	.056	.052	.059
	100/ 112	With Motor	.020	.022			.026	.031			.041	.047			.057	.066	.075	.081	.092	.099	.096	.104
		Without Motor	.008	.009			.011	.013			.020	.023			.030	.035	.044	.047	.053	.056	.056	.061
	132	With Motor									.049	.056			.068	.079			.107	.110		
		Without Motor									.022	.026			.033	.038			.057	.058		
	160	With Motor													.094	.109			.145	.148		
		Without Motor													.041	.047			.068	.070		

Unit sizes and no. of Reductions			AM 0920		AM 0930		AM 1020		AM 1030		AM 1320		AM 1330		AM 1420		AM 1430	
COLUMN ENTRY			B	F	B	F	B	F	B	F	B	F	B	F	B	F	B	F
REDUCER VERSION			.106	.134	.107	.134	.169	.178	.169	.178	.240	.283	.256	.302	.352	.359	.376	.384
MOTORIZED	80	With Motor	.104	.152	.107	.158			.152	.199								
		Without Motor	.072	.102	.076	.111			.112	.147								
	90	With Motor	.120	.161	.124	.166			.173	.208								
		Without Motor	.079	.106	.083	.111			.122	.147								
	100/ 12	With Motor	.135	.176	.139	.181	.182	.213	.193	.226	.238	.329	.252	.348	.323	.411	.342	.436
		Without Motor	.082	.107	.086	.112	.116	.135	.127	.148	.162	.223	.176	.242	.229	.292	.249	.317
	132	With Motor	.150	.189			.206	.227	.218	.240	.268	.348	.283	.367	.359	.433	.380	.458
		Without Motor	.088	.107			.123	.135	.135	.148	.172	.223	.187	.242	.242	.292	.263	.317
	160/ 180 M	With Motor	.205	.226			.269	.269	.282	.282	.332	.389	.348	.408	.436	.478	.459	.504
		Without Motor	.105	.115			.145	.145	.158	.158	.189	.221	.205	.240	.264	.289	.287	.315
	180/ 200	With Motor	.233	.255			.303	.303	.297	.297	.372	.412	.389	.431	.485	.505	.509	.530
		Without Motor	.112	.122			.154	.154	.157	.157	.199	.221	.217	.240	.278	.289	.302	.315
	225	With Motor	.266	.291			.344	.344			.419	.448	.438	.468	.542	.546	.567	.572
		Without Motor	.184	.134			.168	.168			.217	.232	.235	.251	.300	.302	.325	.327
	250	With Motor									.470	.502			.603	.607		
		Without Motor									.267	.286			.360	.363		
	280	With Motor									.581	.617			.735	.741		
		Without Motor									.306	.324			.408	.412		

ALL VOLUMES IN m³

COLUMN 9 ENTRY B - BASE MOUNT

F - FLANGE MOUNT

Above figures are indicative and may vary as per make of motor

SHIPPING SPECIFICATION

FIGURES IN ITALICS INDICATE THAT FRAME SIZE CAN BE FITTED BUT IS BEYOND THE MECHANICAL RATING OF THE UNIT

ALL WEIGHTS IN KG

ALL WEIGHTS EXCLUDE LUBRICANT

Column 9 ENTRY **B** - BASE MOUNT

F - FLANGE MOUNT

Above figures are indicative and may vary as per make of motor.

SHIPPING SPECIFICATION

Unit sizes and no. of Reductions		AM 0920		AM 0930		AM 1020		AM 1030		AM 1320		AM 1330		AM 1420		AM 1430		
COLUMN ENTRY		B	F	B	F	B	F	B	F	B	F	B	F	B	F	B	F	
REDUCER VERSION		114	117	123	126	170	166	179	175	248	245	270	267	360	340	405	385	
MOTORISED	63	Without Motor																
		With Motor																
		With motor & Brake																
	71	Without Motor																
		With Motor																
		With motor & Brake																
	80	Without Motor	117	120	127	130			182	178								
		With Motor	127	130	137	140			192	188								
		With motor & Brake	129	132	139	142			193	187								
	90S	Without Motor	117	120	127	130			182	178								
		With Motor	130	133	140	143			195	191								
		With motor & Brake	132	135	143	145			198	194								
	90L	Without Motor	117	120	127	130			182	178								
		With Motor	132	135	142	145			197	193								
		With motor & Brake	135	138	145	148			200	196								
	100	Without Motor	117	120	127	130	163	159	182	178	239	236	271	268		394	374	
		With Motor	139	142	169	172	185	181	204	200	261	258	293	290		416	396	
		With motor & Brake	144	147	174	177	190	186	209	205	266	263	298	295		421	401	
	112	Without Motor	117	120	127	130	163	159	182	178	239	236	271	268		394	374	
		With Motor	148	151	158	161	194	190	213	209	270	267	302	299		425	405	
		With motor & Brake	153	156	162	165	199	195	218	214	275	272	307	304		430	410	
	132S	Without Motor	117	120	127	130	163	159	182	178	239	236	271	268		394	374	
		With Motor	159	162			205	201	224	220	281	278	313	300		436	416	
		With motor & Brake	168	171			214	210	233	229	290	287	318	305		445	425	
	132M	Without Motor	117	120	127	130	163	159	182	178	239	236	271	268		394	374	
		With Motor	169	172			215	211	234	230	291	288	323	320		446	426	
		With motor & Brake	178	181			224	220	243	239	300	297	328	325		455	435	
	160M	Without Motor	124	127	137	140	172	168	189	185	247	244	279	276	357	337	402	382
		With Motor	196	199			244	240	261	257	319	316	351	348	429	409	474	454
		With Motor & Brake	209	212			244	240	274	270	332	329	364	361	442	422	487	467
	180M	Without Motor	124	127			172	168	189	185	247	244	279	276	357	337	402	382
		With Motor	232	235			280	276	297	293	345	342	377	374	465	445	510	490
		With Motor & Brake	268	271			316	312	333	329	381	378	413	410	501	481	546	526
	180L	Without Motor	124	127			172	168	190	186	247	244	279	276	357	337	402	382
		With Motor	292	295			340	336			405	402	437	434	525	505	570	550
		With Motor & Brake	345	348			393	389			468	465	500	497	578	558	623	603
	225M	Without Motor	138	141			186	182	204	200	261	258	293	290	371	351	416	396
		With Motor	363	366			411	407			486	483	518	515	596	576	641	621
		With Motor & Brake									310	307	342	339	420	400	457	437
	250M	Without Motor									574	571			684	664		
		With Motor									310	307	342	339	420	400	457	437
		With Motor & Brake									672	669			782	762		
	280M	Without Motor									310	307	342	339	420	400	457	437
		With Motor									737	734			847	827		

FIGURES IN ITALICS INDICATE THAT FRAME SIZE CAN BE FITTED BUT IS BEYOND THE MECHANICAL RATING OF THE UNIT
 ALL WEIGHTS IN KG ALL WEIGHTS EXCLUDE LUBRICANT

Column 9 ENTRY **B**-BASE MOUNT

F-FLANGE MOUNT

Above figures are indicative and may vary as per make of motor.

PRODUCT SAFETY

IMPORTANT

Product Safety Information

General - The following information is important in ensuring safety. It must be brought to the attention of personnel involved in the selection of AGNEE equipment, those responsible for the design of the machinery in which it is to be incorporated and those involved in its installation, use and maintenance.

AGNEE equipment will operate safely provided it is selected, installed, used and maintained properly. As with any powertransmission equipment proper precautions must be taken as indicated in the following paragraphs, to ensure safety.

Potential Hazards - these are not necessarily listed in any order of severity as the degree of danger varies in individual circumstances. It is important therefore that the list is studied in its entirety:

1) Fire/Explosion

- (a) Oil mists and vapour are generated within gear units. It is therefore dangerous to use naked lights in the proximity of gearbox openings, due to the risk of fire or explosion.
- (b) In the event of fire or serious overheating (over 300°C), certain materials (rubber, plastics, etc.) may decompose and produce fumes. Care should be taken to avoid exposure to the fumes, and the remains of burned or overheated plastic/rubber materials should be handled with rubber gloves.

2) Guards - Rotating shafts and couplings must be guarded to eliminate the possibility of physical contact or entanglement of clothing. It should be of rigid construction and firmly secured.

3) Noise - High speed gearboxes and gearbox driven machinery may produce noise levels which are damaging to the hearing with prolonged exposure.

4) Lifting - Where provided (on larger units) only the lifting points or eyebolts must be used for lifting operations (see maintenance manual or general arrangement drawing for lifting point positions). Failure to use the lifting points provided may result in personal injury and/or damage to the product or surrounding equipment. Keep clear of raised equipment.

5) Lubricants and Lubrication

- (a) Prolonged contact with lubricants can be detrimental to the skin. The manufacturer's instruction must be followed when handling lubricants.
- (b) The lubrication status of the equipment must be checked before commissioning. Read and care out all instructions on the lubricant plate and in the installation and maintenance literature. Take notice of all warning tags. Failure to do so could result in mechanical damage and in extreme cases risk of injury to personnel.

6) Electrical Equipment - Observe hazard warnings on electrical equipment and isolate power before working on the gearbox or associated equipment, in order to prevent the machinery being started.

7) Installation In Maintenance and Storage

- (a) In the event that equipment is to be held in storage, for a period exceeding 6 months, prior to installation or commissioning, AGNEE must be consulted regarding special preservation requirements. Unless otherwise agreed, equipment must be stored in a building protected from extremes of temperature and humidity to prevent deterioration.

The rotating components (gears and shafts) must be turned a few revolutions once a month (to prevent bearings brinelling).

- (b) External gearbox components may be supplied with preservative materials applied, in the form of a "waxed" tape overlap or wax film preservative. Gloves should be worn when removing these materials. The former can be removed manually, the latter using white spirit as a solvent.

Preservatives applied to the internal parts of the gear units do not require removal prior to operation.

- (c) Installation must be performed in accordance with the manufacturer's instructions and be undertaken by suitably qualified personnel.

- (d) Before working on a gearbox or associated equipment, ensure that the load has been removed from the system to eliminate the possibility of any movement of the machinery and isolate power supply. Where necessary, provide mechanical means to ensure the machinery cannot move or rotate. Ensure removal of such devices after work is complete.

- (e) Ensure the proper maintenance of gearboxes in operation. Use only the correct tools and AGNEE approved spare parts for repair and maintenance. Consult the Maintenance Manual before dismantling or performing maintenance work.

8) Hot Surfaces and Lubricants

- (a) During operation, gear units may become sufficiently hot to cause skin burns. Care must be taken to avoid accidental contact.
- (b) After extended running the lubricant in gear units and lubrication systems may reach temperatures sufficient to cause burns. Allow equipment to cool before servicing or performing adjustments.

9) Selection and Design

- (a) Where gear units provide a backstop facility, ensure that back-up systems are provided if failure of the backstop device would endanger personnel or result in damage.

- (b) The driving and driven equipment must be correctly selected to ensure that the complete machinery installation will perform satisfactorily, avoiding system critical speeds, system torsional vibration, etc.

- (c) The equipment must not be operated in an environment or at speeds, powers, torques or with external loads beyond those for which it was designed.

- (d) As improvements in design are being made continually the contents of this catalogue are not to be regarded as binding in detail, and drawings and capacities are subject to alterations without notice.

The above guidance is based on the current state of knowledge and our best assessment of the potential hazards in the operation of the gear units.

Any further information or clarification required may be obtained by contacting AGNEE

Dear User

Kindly furnish the following Technical Data and Information for selection of Planetary Reduction Gear Box.

- 1) Application
- 2) Prime Mover (Electric motor / Hydraulic motor) :
- 3) Input Shaft (rpm)
- 4) Output Speed (rpm)
- 5) Reduction Ratio:
- 6) Input Power (HP/ Kw):
- 7) Output Torque (kg -m or Nm):
- 8) Load Nature Uniform (U)/ Moderate Shock (M) / Heavy shock (H):
- 9) Service Duration (Hrs): (Daily operating hours)
- 10) Operating Cycle (Minutes cycle):

- 11) Operating Position:

For your specific Reduction Ratios, Output speed, Out Torque, Please write to AGNEE

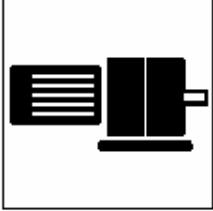
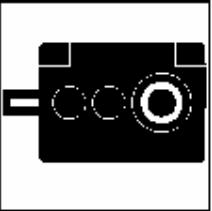
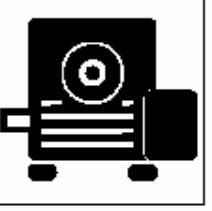
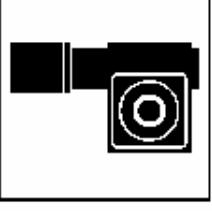
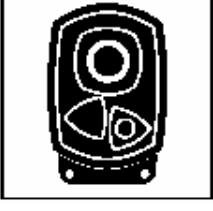
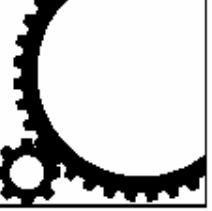
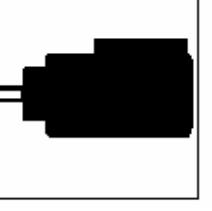
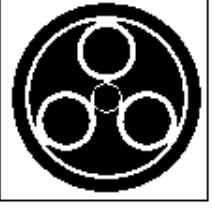
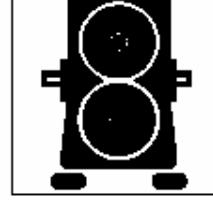
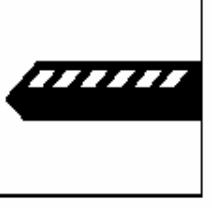
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Dealer / Local Representative

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ENERGY	FOOD & BEVERAGE	FORESTRY
MARINE	METALS & MACHINE TOOLS	MINING
PULP & PAPER	QUARRYING	RUBBER & PLASTICS
TEXTILES	TRANSPORTATION	WATER
DREDGING	SUGAR MILLS	STONE PROCESSING

			
Geared Motors	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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