radicon

with you at every turn

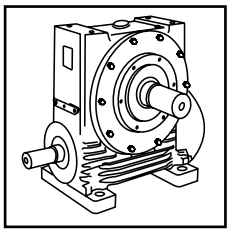
Series A Junior Worm Gear

Technical
Up to - 16HP / 8408lb.in

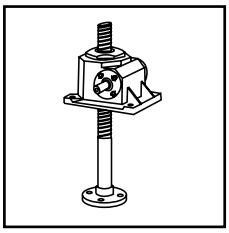
Worm Gears
CAJ-2.00US0812

PRODUCTS IN THE RANGE

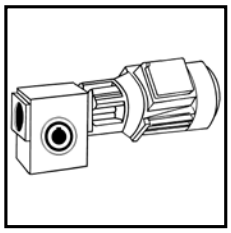
Serving an entire spectrum of mechanical drive applications from food, energy, mining and metal; to automotive, aerospace and marine propulsion, we are here to make a positive difference to the supply of drive solutions.



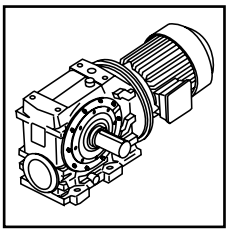
Series A
Worm Gear units and geared motors in single & double reduction types



Series BD
Screwjack worm gear unit

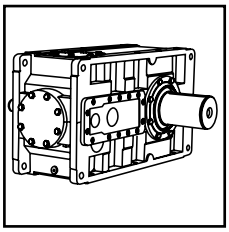


Series BS
Worm gear unit

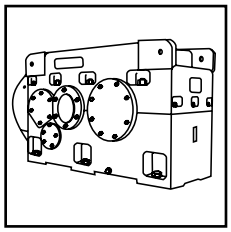


Series C
Right angle drive helical worm geared motors & reducers

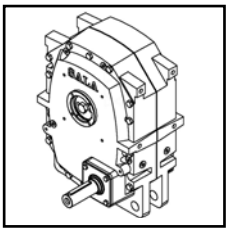
Series F
Parallel angle helical bevel helical geared motors & reducers



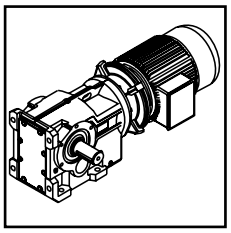
Series G
Helical parallel shaft & bevel helical right angle drive gear units



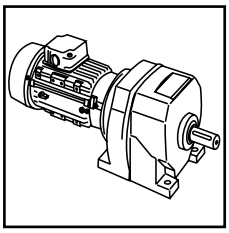
Series H
Large helical parallel shaft & bevel helical right angle drive units



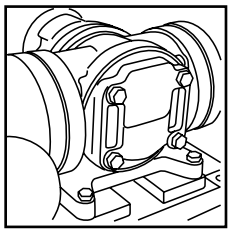
Series J
Shaft mounted helical speed reducers



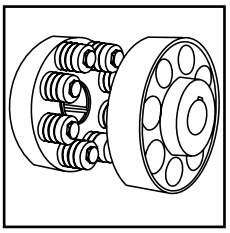
Series K
Right angle helical bevel helical geared motors & reducers



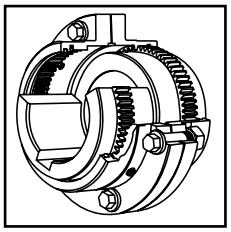
Series M
In-line helical geared motors & reducers



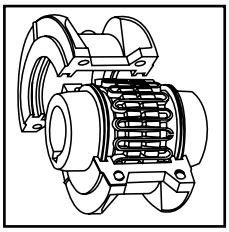
Roloid Gear Pump
Lubrication and fluid transportation pump



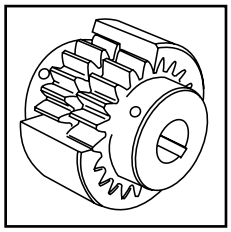
Series X
Cone Ring
Pin and bush elastomer coupling



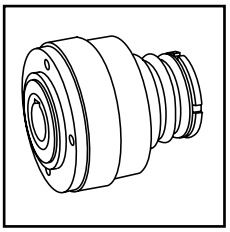
Series X
Gear
Torsionally rigid, high torque coupling



Series X
Grid
Double flexing steel grid coupling



Series X
Nylicon
Gear coupling with nylon sleeve



Series X
Torque Limiter
Overload protection device

We offer a wide range of repair services and many years experience of repairing demanding and highly critical transmissions in numerous industries.

We can create custom engineered transmission solutions of any size and configuration.

SERIES AJ
CONTENTS PAGE

General Description 3

Unit Designations 4

Explanation and use of Ratings and Service Factors 5

Load Classification by Applications 6

Selection Procedure ..... 7 - 10

Mounting Positions ..... 11 - 13

Exact Ratios 14

Output Options 15

Motor Adaptors / Additional Features 16

MOTORIZED

Motor Details 17

Selection Tables - Geared Motors ..... 18 - 26

Dimension Sheets - Geared Motors ..... 27 - 33

REDUCER

Overhung and Axial Loads on Shafts ..... 35 - 36

Ratings - Input Power / Output Torque ..... 37 - 60

Dimension Sheets - Speed Reducers ..... 61 - 67

Case with Additional Machined Spigot 68

Torque Arm 69

Shipping Specification 70

Moments of Inertia 71

INSTALLATION AND MAINTENANCE

Installation and Maintenance ..... 73 - 77

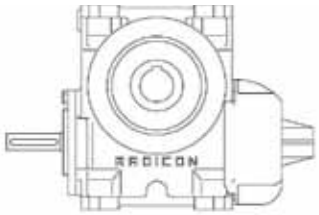
Lubrication 76

Single Reduction Units (worm)
Series A Junior is offered in unit sizes 280, 410, 510, 610, 730 and 860 based on a single universal case for each size, giving a high degree of common parts and interchangeability. Units can be mounted in the underdriven, over driven and vertical mounting positions and provide a choice of shaft arrangements for either motorised or reducer versions. Motors can be close coupled in frame sizes 56C to 215TC in powers from 0.25 HP to 10 HP.

All units are designed with hollow output bores, output shafts can be fitted allowing handing to be changed without dismantling the unit. Double extended output shafts are also available.

Series A Junior gives a choice of 12 standard ratios from 5/1 to 70/1 and important features include high efficiencies and load carrying capacities combined with long life and reliability.

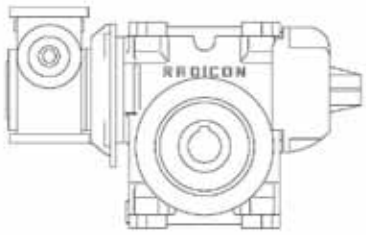
All units are lubricated for life to reduce maintainance to a minimum.



Single Reduction Units (worm)

Double Reduction Units (worm/worm)
These units consist of a standard single reduction unit with a smaller shaft mounted Radicon fitted to the input shaft. The range extends the ratios available up to the maximum of 4200/1 making them ideal for fitting to slow moving machinery.

As with the single reduction units they are available in underdriven, over-driven and vertical types, foot mounting and shaft mounting. All lubricated for life.

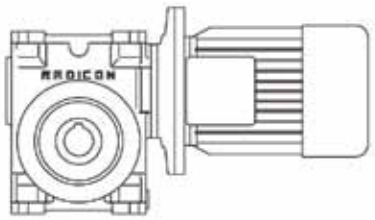


Double Reduction Units (worm/worm)

Motorized Units
Units are designed to be close coupled with standard dimension NEMA motors. Units are also available to accept standard dimension IEC motors (consult application engineering).

Lubricated for life - fit and forget
Series A Junior units are factory filled with synthethic lubricant which means.

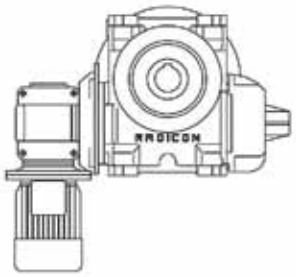
- no oil level checks, topping up, draining or re-filling
- no routine maintenance or danger of starting up without lubricant
- they will mount in any location, however inaccesible
- they are particularly suitable for locations where non contamination through leakage is essential.



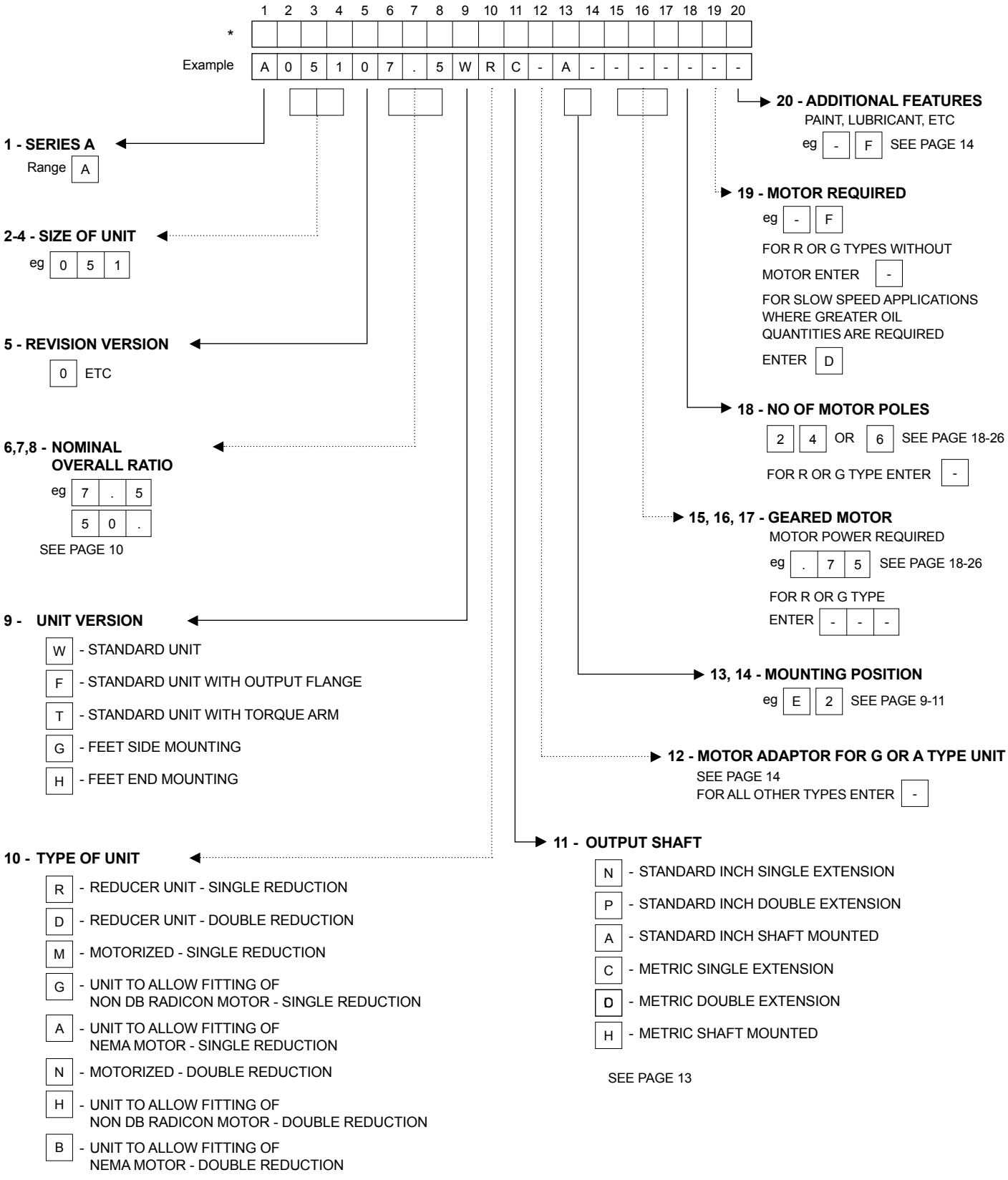
Motorized Single Reduction Units (worm)

For units running at input speeds below 500 rev/min with either the input or output shaft vertical, also for the second stage of all double reduction units irrespective of shaft disposition the lubricant level is simply increased - see lubrication instructions.

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



Motorized Double Reduction Units (worm/worm)



* THIS PAGE MAY BE PHOTOCOPIED ALLOWING THE CUSTOMER TO ENTER THEIR ORDER

EXPLANATION & USE OF RATINGS & SERVICE FACTORS

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

Two types of Service Factor must be considered:- Mechanical Service Factor Fm and Thermal Service Factors Ft, Fp and FD

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 for an 100% overload at starting, braking or momentarily during operation on aggregate once per hour for each hour of operation.

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 5 opposite, 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 subject to frequent stop/start overloads in excess of 10 times per day, refer to application engineering.

For applications where high inertia loads are involved e.g. crane travel drives, slewing motion etc., unit selection should be referred to application engineering.

Table 1. Mechanical service factor Fm

Prime mover	Duration of service hrs per day	Load classification-driven machine		
		Uniform	Moderate Shock	Heavy Shock
Electric motor, steam turbine or hydraulic motor	Under 3	0.80	0.80	0.80
	3 to 10	1.00	1.00	1.00
	Over 10	1.25	1.25	1.25
Multi-cylinder internal combustion engine	Under 3	1.00	1.00	1.00
	3 to 10	1.25	1.25	1.25
	Over 10	1.50	1.50	1.50
Single cylinder internal combustion engine	Under 3	1.25	1.25	1.25
	3 to 10	1.50	1.50	1.50
	Over 10	1.75	1.75	1.75

Thermal ratings and service factors

The Thermal ratings are a measure of the gear units ability to dissipate heat. If they are exceeded the lubricant may overheat and breakdown, resulting in gear failure.

Thermal factors are for units with fans fitted, un-fanned units to be referred to DB Radicon Applications department.

Catalogue thermal limitations are based on the unit operating continuously in an environment with an ambient temperature equal to 68oF and in mounting position A, B or C. The thermal rating is affected by ambient temperature, duration of running per hour and mounting position. To account for these varying conditions, the service factors given in tables 2,3 and 4 should be applied to the catalogue thermal ratings as follows:-

Ptherm = (Pt x Ft x Fp x Fd x efficiency) / 100

Pt = Catalogue input power thermal rating (HP)
Ptherm = Allowable output power thermal rating (HP)
Ft = Service factor for ambient temperature (see Table 2)
Fp = Service factor for different mounting positions (see Table 3)
Fd = Thermal service factor for duration of running (see Table 4)

Table 2. Thermal service factor Ft

Ambient temperature °F	-20	0	20	40	60	68	80	100	120
Factor Ft	1.64	1.50	1.36	1.22	1.07	1.00	0.92	0.77	0.63

Table 3. Thermal service factor Fp (Single Reduction units)

Output Speed (Rev / min)	Mounting Position (See pages 9 and 10)			
	ABC	DEF	GHJ KMN	PST WXY
0 to 100	1.0	1.0	1.0	Refer to Application Engineering
>100 to 200	1.0	1.0	1.0	
>200 to 300	1.0	1.0	1.0	
>300 to 400	1.0	1.0	1.0	
>400 to 500	1.0	1.0	1.0	
>500 to 600	1.0	1.0	1.0	
>600 to 700	1.0	1.0	1.0	
>700	1.0	1.0	1.0	

Table 4. Thermal service factor Fd

Input shaft speed (Rev/min)	Unit Size	% Running time per hour					
		>60	>50-60	>40-50	>30-40	>20-30	>20
250	280-610	1.0	1.46	1.72	1.96	2.32	2.86
	730	1.0	1.44	1.52	1.92	2.26	2.75
	860	1.0	1.46	1.72	1.96	2.32	2.86
500	280-610	1.0	1.46	1.72	1.96	2.32	2.86
	730	1.0	1.38	1.56	1.75	2.02	2.38
	860	1.0	1.46	1.72	1.96	2.32	2.86
875	280-610	1.0	1.46	1.72	1.96	2.32	2.86
	730	1.0	1.34	1.47	1.64	1.84	2.16
	860	1.0	1.41	1.60	1.79	2.07	2.45
1160	280-610	1.0	1.46	1.72	1.96	2.32	2.86
	730	1.0	1.30	1.43	1.56	1.75	2.05
	860	1.0	1.37	1.54	1.72	1.96	2.32
1450	280-610	1.0	1.46	1.72	1.96	2.32	2.86
	730	1.0	1.28	1.39	1.52	1.69	1.97
	860	1.0	1.34	1.50	1.66	1.88	2.21
1750	280-610	1.0	1.46	1.72	1.96	2.32	2.86
	730	1.0	1.26	1.36	1.47	1.63	1.89
	860	1.0	1.32	1.46	1.61	1.81	2.14
2400	280-610	1.0	1.46	1.72	1.96	2.32	2.86
	730	1.0	1.22	1.30	1.39	1.53	1.75
	860	1.0	1.30	1.42	1.55	1.75	2.03
3500	280-610	1.0	1.46	1.72	1.96	2.32	2.86
	730	1.0	1.13	1.23	1.30	1.41	1.58
	860	1.0	1.24	1.34	1.45	1.61	1.85

Double Reduction Units

For double reduction units the factors given in tables 2 and 4 apply. The input shaft speed referred to in table 4 should now be the input speed of the primary unit. New factors should be applied for mounting position (Fp), which refer to the position of the primary unit.

i Inputshaft horizontal and wheel- line horizontal Fp = 1.0
ii Inputshaft horizontal and wheel-line vertical Fp = 0.88
iii Inputshaft vertical and wheel-line horizontal Fp = 0.68

General

When selecting units, use actual load required to be transmitted, not rating of prime mover. Wherever possible use required output torque (lb-in). Catalogue also gives input power rating (HP), being the power required from prime mover allowing for gear unit efficiency. When units transmit less than rated output torque, required input power may be reduced pro-rata to decide capacity of prime mover.

LOAD CLASSIFICATION BY APPLICATIONS

Table 3

U = Uniform load

M = Moderate shock load

H = Heavy shock load

† = Refer to Application Engineering

Driven Machine	type of load
Agitators	
pure liquids	U
liquids and solids	M
liquids-variable density	M
Blowers	
centrifugal	U
lobe	M
vane	U
Brewing and distilling	
bottling machinery	M
brew kettles-continuous duty	M
cookers-continuous duty	M
mash tubs-continuous duty	M
scale hopper-frequent starts	M
Can filling machines	M
Cane knifes	M
Car dumpers	H
Car pullers	M
Clarifiers	U
Classifiers	M
Clay working machinery	
brick press	H
briquette machine	H
clay working machinery	M
pug mill	M
Compressors	
centrifugal	U
lobe	M
reciprocating	
multi-cylinder	M
single cylinder	H
Conveyors-uniformly loaded or fed	
apron	U
assembly	U
belt	U
bucket	U
chain	U
flight	U
oven	U
screw	U
Conveyors-heavy duty not uniformly fed	
apron	M
assembly	M
belt	M
bucket	M
chain	M
flight	M
live roll	†
oven	M
reciprocating	H
screw	M
shaker	H

Driven Machine	type of load
Cranes	
main hoists	†
bridge travel	†
trolley travel	†
Crusher	
ore	H
stone	H
sugar	H
Dredges	
cable reels	M
conveyors	M
cutter head drives	H
jig drives	H
maneuvering winches	M
pumps	M
screen drive	H
stackers	M
utility winches	M
Dry dock cranes	
main hoist	†
auxiliary hoist	†
boom, luffing	†
rotating, swing or slew	†
tracking, drive wheels	†
Elevators	
bucket-uniform load	U
bucket-heavy load	M
bucket-continuous	U
centrifugal discharge	U
escalators	U
freight	M
gravity discharge	U
man lifts	†
passenger	†
Fans	
centrifugal	U
cooling towers	
induced draft	†
forced draft	†
induced draft	M
large, mine, etc	M
large, industrial	M
light, small diameter	U
Feeders	
apron	M
belt	M
disc	U
reciprocating	H
screw	M
Food industry	
beef slicer	M
cereal cooker	U
dough mixer	M
meat grinders	M
Generators-not welding	U
Hammer mills	H
Hoists	
heavy duty	H
medium duty	M
skip hoist	M
Laundry washers	
reversing	M
Laundry tumblers	M
Line shafts	
driving processing equipment	M
light	U
other line shafts	U
Lumber industry	
barkers-hydraulic-mechanical	M
burner conveyor	M
chain saw and drag saw	H
chain transfer	H
craneway transfer	H
de-barking drum	H
edger feed	M
gang feed	M
green chain	M
live rolls	H
log deck	H

Driven Machine	type of load
log haul-incline	H
log haul-well type	H
log turning device	H
main log conveyor	H
off bearing rolls	M
planer feed chains	M
planer floor chains	M
planer tilting hoist	M
re-saw merry-go-round conveyor	M
roll cases	H
slab conveyor	H
small waste conveyor-belt	U
small waste conveyor-chain	M
sorting table	M
tipple hoist conveyor	M
tipple hoist drive	M
transfer conveyors	M
transfer rolls	M
tray drive	M
trimmer feed	M
waste conveyor	M
Machine tools	
bending roll	M
punch press-gear driven	H
notching press- belt driven	†
plate planers	H
tapping machine	H
other machine tools	
main drives	M
auxiliary drives	U
Metal mills	
draw bench carriage and main drive	M
pinch, dryer and scrubber rolls-reversing	†
slitters	M
table conveyors	
non-reversing	
group drives	M
individual drives	H
reversing	
wire drawing and flattening machine	M
wire winding machine	M
Mill-rotary type	
ball	H
cement kilns	H
dryers and coolers	H
kilns, other than cement	H
pebble	H
rod	
plain	H
wedge bar	H
tumbling barrels	H
Mixers	
concrete mixers -continuous	M
concrete mixers -intermittent	M
constant density	U
variable density	M
Oil industry	
chillers	M
oil well pumping	†
paraffin filter press	M
rotary kilns	M
Paper mills	
agitators, (mixers)	M
barker-auxiliaries-hydraulic	M †
barker-mechanical	H
barking drum	H
beater and pulper	M
bleacher	U
calenders	M
calenders-super	H
converting machine, except cutters, platers	M
conveyors	U
couch	M
cutters-plates	H
cylinders	M
dryers	M
felt stretcher	M
felt whipper	H
jordans	M

Driven Machine	type of load
log haul	H
presses	M
pulp machine reel	M
stock chest	M
suction roll	M
washers and thickeners	M
winders	M
Printing presses	†
Pullers	
barge haul	H
Pumps	
centrifugal	U
proportioning	M
reciprocating	
single acting; 3 or more cylinders	M
double acting; 2 or more cylinders	M
single acting; 1 or 2 cylinders	†
double acting; single cylinder	†
rotary	
gear type	U
lobe, vane	U
Rubber and plastics industries	
crackers	H
laboratory equipment	M
mixed mills	H
refiners	M
rubber calenders	M
rubber mill-2 on line	M
rubber mill-3 on line	M
sheeter	M
tire building machines	†
tire and tube press openers	†
tubers and strainers	M
warming mills	M
Sand muller	M
Sewage disposal equipment	
bar screens	U
chemical feeders	U
collectors	U
dewatering screws	M
scum breakers	M
slow or rapid mixers	M
thickeners	M
vacuum filters	M
Screens	
air washing	U
rotary-stone or gravel	M
travelling water intake	U
Slab pushers	M
Steering gear	†
Stokers	U
Sugar industry	
cane knives	M
crushers	M
mills	M
Textile industry	
batchers	M
calenders	M
cards	M
dry cans	M
dryers	M
dyeing machinery	M
knitting machines	†
looms	M
mangles	M
nappers	M
pads	M
range drives	†
slashers	M
soapers	M
spinners	M
tenter frames	M
washers	M
winders	M
Windlass	†

EXAMPLE APPLICATION DETAILS

Absorbed power of driven machine = 0.505 HP
Output speed of gearbox or Input speed of machine = 58 rev/min
Application = Uniformly loaded belt conveyor
Duration of service (hours per day) = 24hrs
Mounting position = D
Ambient temperature = 68°F
Running time (%) = 100%

1 DETERMINE MECHANICAL SERVICE FACTOR (Fm)

Refer to Load Classification by Application, table 5, page 4

Application = Uniformly loaded belt conveyor

Conveyors-uniformly loaded or fed	
apron	U
assembly	U
belt	U
bucket	U
chain	U

U = Uniform load

Refer to mechanical service factor (Fm), table 1, page 3

Duration of service (hours per day) = 24hrs

Prime mover	Duration of service hrs per day	Load classification-drive	
		Uniform	Moderate Shock
Electric motor, steam turbine or hydraulic motor	Under 3	0.80	0.80
	3 to 10	1.00	1.00
	Over 10	1.25	1.25

Therefore mechanical service factor (Fm) = 1.25

2 DETERMINE REQUIRED OUTPUT TORQUE AT GEARBOX OUTPUTSHAFT

Absorbed output torque = $\frac{\text{Absorbed power x 63025}}{\text{Gearbox output speed}}$

$\frac{0.505 \times 63025}{58}$ = 548lb.in

3 SELECT GEARED MOTOR

Refer to selection table one motor size larger than absorbed power.
Absorbed power = 0.505 HP, therefore refer to 0.75 HP selection table, page 21

Required output speed of gearbox = 58 rev/min

0.75 HP

4 POLE

N2 R/MIN	i	lb in	Fm	lb	UNIT DESIGNATION	lb		SERIES X	inches
Output Speed	Ratio	Output Torque	Service Factor	Overhung Load	Column Entry 1 Through 20 Spaces to be filled when entering order	Weight of Base Mount Unit	Motor Frame Size	Cone Ring Output Coupling	Max Bore Coupling Driven Half
329	5.25	127	2.96	390	A 0 4 1 0 5 . 0 _ M _ - _ _ . 7 5 4 A _	49.3	56C	6 1 1 0 1 -	1.50
235	7.33	172	2.63	389	7 . 5				
164	10.50	239	2.31	380	10 .				
138	12.50	278	2.40	377	13 .				
119	14.50	316	2.31	370	15 .				
88	19.50	406	1.31	329	20 .				
69	25.00	478	1.68	234	25 .				
58	30.00	548	1.42	338	30 .				
43	40.00	667	0.91	129	40 .				

Go to point 4

4 CHECK OUTPUT TORQUE

Output torque of selected unit must be equal or more than required output torque at gearbox outputshaft.

Required output torque at gearbox outputshaft = 548 lb.in

0.75 HP

	N2 R/MIN	i	lb in	Fm	lb	UNIT DESIGNATION	lb		SERIES X	inches
	Output Speed	Ratio	Output Torque	Service Factor	Overhung Load	Column Entry [1] Through [20] Spaces to be filled when entering order	Weight of Base Mount Unit	Motor Frame Size	Cone Ring Output Coupling	Max Bore Coupling Driven Half
4 POLE	329	5.25	127	2.96	390	A 0 4 1 0 5 . 0 _ M _ - _ _ . 7 5 4 A _	49.3	56C	6 1 1 0 1 -	1.50
	235	7.33	172	2.63	389	7 . 5				
	164	10.50	239	2.31	380	10 .				
	138	12.50	278	2.40	377	13 .				
	119	14.50	316	2.31	370	15 .				
	88	19.50	406	1.31	329	20 .				
	69	25.00	478	1.68	234	25 .				
	58	30.00	548	1.42	338	30 .				
	43	40.00	667	0.91	129	40 .				

5 CHECK SERVICE FACTOR

Service factor (Fm) of selected unit must be equal or more than required service factor.

Required service factor of gearbox = 1.25

0.75 HP

	N2 R/MIN	i	lb in	Fm	lb	UNIT DESIGNATION	lb		SERIES X	inches
	Output Speed	Ratio	Output Torque	Service Factor	Overhung Load	Column Entry [1] Through [20] Spaces to be filled when entering order	Weight of Base Mount Unit	Motor Frame Size	Cone Ring Output Coupling	Max Bore Coupling Driven Half
4 POLE	329	5.25	127	2.96	390	A 0 4 1 0 5 . 0 _ M _ - _ _ . 7 5 4 A _	49.3	56C	6 1 1 0 1 -	1.50
	235	7.33	172	2.63	389	7 . 5				
	164	10.50	239	2.31	380	10 .				
	138	12.50	278	2.40	377	13 .				
	119	14.50	316	2.31	370	15 .				
	88	19.50	406	1.31	329	20 .				
	69	25.00	478	1.68	234	25 .				
	58	30.00	548	1.42	338	30 .				
	43	40.00	667	0.91	129	40 .				

6 CHECK OVERHUNG LOADS

If sprocket, gear, etc is mounted on the outputshaft then refer to Overhung Loads Procedure, page 35, and compare with allowable overhung load (N) of selected unit

Allowable overhung load (N) must be equal or more than calculated overhung load (P)

0.75 HP

	N2 R/MIN	i	lb in	Fm	N	UNIT DESIGNATION	lb		SERIES X	inches
	Output Speed	Ratio	Output Torque	Service Factor	Overhung Load	Column Entry [1] Through [20] Spaces to be filled when entering order	Weight of Base Mount Unit	Motor Frame Size	Cone Ring Output Coupling	Max Bore Coupling Driven Half
4 POLE	329	5.25	127	2.96	390	A 0 4 1 0 5 . 0 _ M _ - _ _ . 7 5 4 A _	49.3	56C	6 1 1 0 1 -	1.50
	235	7.33	172	2.63	389	7 . 5				
	164	10.50	239	2.31	380	10 .				
	138	12.50	278	2.40	377	13 .				
	119	14.50	316	2.31	370	15 .				
	88	19.50	406	1.31	329	20 .				
	69	25.00	478	1.68	234	25 .				
	58	30.00	548	1.42	338	30 .				
	43	40.00	667	0.91	129	40 .				

NOTE: If any of the following conditions occur then consult application engineering:-

a) Inertia of the Driven Machine (Referred to motor speed) / Inertia of Gear Unit plus Motor >1.0 b) Ambient temperature is above 104°F or c) Sizes A0730 and A0860 are required without a fan

EXAMPLE APPLICATION DETAILS

Absorbed power of driven machine = 0.375 HP
Output speed of gearbox or Input speed of machine = 25 rev/min
Application = Uniformly loaded belt conveyor
Duration of service (hours per day) = 24hrs
Mounting position = D
Ambient temperature = 68°F
Running time (%) = 100%

1 DETERMINE RATIO OF GEARBOX REQUIRED

$$\frac{\text{Motor speed}}{\text{Gearbox output speed}} \quad \frac{1750}{25} = 70$$

Refer to exact ratios (page 14) for nearest standard ratio = 70:1

2 DETERMINE MECHANICAL SERVICE FACTOR (Fm)

Refer to Load Classification by Application, table 5, page 4

Application = Heavy duty, non uniformly fed, bucket conveyor

Conveyors-uniformly loaded or fed	
apron	U
assembly	U
belt	U
bucket	U
chain	U

U = Moderate shock loading

Refer to mechanical service factor (Fm), table 1, page 3

Duration of service (hours per day) = 24hrs

Prime mover	Duration of service hrs per day	Load classification-drive	
		Uniform	Moderate Shock
Electric motor, steam turbine or hydraulic motor	Under 3	0.80	0.80
	3 to 10	1.00	1.00
	Over 10	1.25	1.25

Therefore mechanical service factor (Fm) = 1.25

3 DETERMINE REQUIRED MECHANICAL OUTPUT TORQUE CAPACITY OF GEARBOX

$$\text{Absorbed output torque} = \frac{\text{Absorbed power x 63025}}{\text{Gearbox output speed}}$$

$$\frac{0.375 \times 63025}{25} = 945\text{lb.in}$$

Required mechanical output torque = Absorbed output x Fm torque

945 x 1.25 = 1181lb.in

4 DETERMINE SIZE OF GEAR BOX REQUIRED

Refer to ratings tables, Input speed = 1750rpm, therefore refer to page 43.

NOMINAL RATIO	NOMINAL OUTPUT SPEED REV/MIN	CAPACITY	SIZE OF UNIT			
			A0510	A0610	A0730	A0860
70.0	25.00	Input Power HP (mechanical)	0.39	0.64	0.94	1.47
		Input Power HP (thermal)	0.81	1.08	2.24	2.69
		Output Power HP (mechanical)	0.20	0.34	0.57	0.92
		Output Torque lb-in (mech.)	497	848	1430	2320
		Efficiency %	50	53	60	63

Mechanical output torque capacity must be equal or more than required mechanical output torque capacity of gear box. Required mechanical output torque capacity = 1181 lb-in. At a 70:1 ratio, nominal output speed 25 an A0730 unit has a mechanical output torque capacity of 1430 lb-in. Therefore the unit is acceptable

5 DETERMINE EXACT RATIO OF GEARBOX

Refer to exact ratios table, page 12

Nominal Ratio Column Entry (6 | 7 | 8)	Size A0510	Size A0610	Size A0730	Size A0860
	Exact Ratio	Exact Ratio	Size Exact Ratio	Exact Ratio
7 0 .	70	70	70	70

Exact ratio = 70.0:1

6 CHECK THERMAL CAPACITY OF GEARBOX SELECTED DETERMINE THERMAL INPUT POWER CAPACITY (Pt)

Refer to ratings tables

NOMINAL RATIO	NOMINAL OUTPUT SPEED REV/MIN	CAPACITY	SIZE OF UNIT			
			A0510	A0610	A0730	A0860
70.0	25.00	Input Power HP (mechanical)	0.39	0.64	0.94	1.47
		Input Power HP (thermal)	0.81	1.08	2.24	2.69
		Output Power HP (mechanical)	0.20	0.34	0.57	0.92
		Output Torque lb-in (mech.)	497	848	1430	2320
		Efficiency %	50	53	60	63

Pt = 2.24 HP

Go to point 7

7 DETERMINE THERMAL SERVICE FACTOR (Ft)

Refer to table 2, page 3
Ambient temperature = 68°F

Ambient temperature °F	-20	0	20	40	60	68
Factor Ft	1.64	1.50	1.36	1.22	1.07	1.0

Ft = 1.0

8 DETERMINE THERMAL SERVICE FACTOR (Fp)

Refer to table 3, page 3
Mounting position = D
Nominal output speed (rev/min) = 25

Unit Output Shaft Speed (Rev / min)	Mounting	
	ABC	DEF
0 to 100	1.0	1.0
> 100 to 200	1.0	1.0
> 200 to 300	1.0	1.0

Fp = 1.0

9 DETERMINE THERMAL SERVICE FACTOR (Fd)

Refer to table 4, page 3
% running time = 100

Input shaft speed (Rev / min)	% Running time per hour		
	Unit Size	>60	>50 - 60
1750	280 - 610	1.0	1.46
	730	1.0	1.26

Fd = 1.0

10 DETERMINE REQUIRED POWER OF ELECTRIC MOTOR

Refer to ratings tables to determine gear unit efficiency

NOMINAL RATIO	NOMINAL OUTPUT SPEED REV/MIN	CAPACITY	SIZE OF UNIT			
			A0510	A0610	A0730	A0860
70.0	25.00	Input Power HP (mechanical)	0.39	0.64	0.94	1.47
		Input Power HP (thermal)	0.81	1.08	2.24	2.69
		Output Power HP (mechanical)	0.20	0.34	0.57	0.92
		Output Torque lb-in (mech.)	497	848	1430	2320
		Efficiency %	50	53	60	63

Efficiency % = 60 Required motor power = $\frac{\text{Absorbed power of driven machine x 100}}{\text{Efficiency}} = \frac{.375 \times 100}{60} = .625$ HP

The next largest standard motor power available is selected 0.75 HP

11 DETERMINE ALLOWABLE OUTPUT POWER THERMAL RATING (Ptherm)

Ptherm = $\frac{\text{Pt x Ft x Fp x Fd x efficiency}}{100}$

= $\frac{2.24 \times 1.0 \times 1.0 \times 1.0 \times 60}{100}$

= 1.344 HP

Thermal output power capacity (Ptherm) must be equal or more than absorbed output power to drive machine

Absorbed output power = 0.375 HP Ptherm = 1.344 HP

Therefore unit is acceptable

12 CHECK OVERHUNG LOADS

If sprocket, gear, etc is mounted on the input or output shaft then refer to Overhung loads procedure, pages 35 and 36

NOTE: If any of the following conditions occur then consult application engineering:-

a) $\frac{\text{Inertia of the Driven Machine (Referred to motor speed)}}{\text{Inertia of Gear Unit plus Motor}}$ >1.0 b) Ambient temperature is above 120°F or c) The unit is required without a fan

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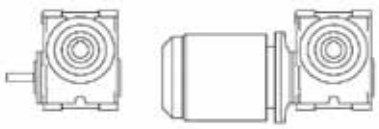
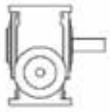
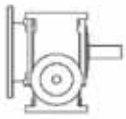
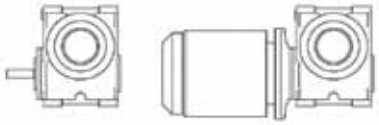
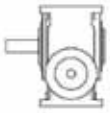
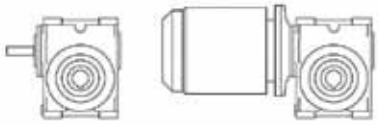
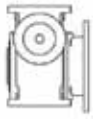
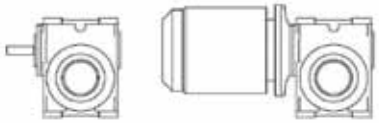
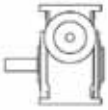
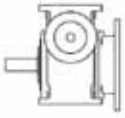
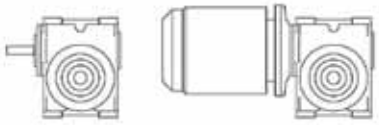
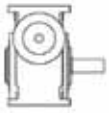
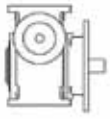
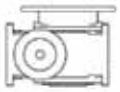
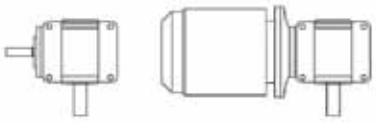
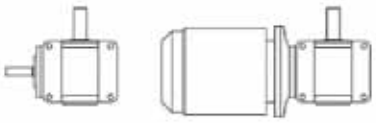
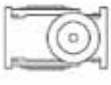
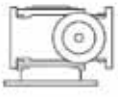
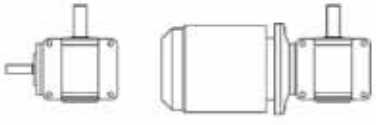
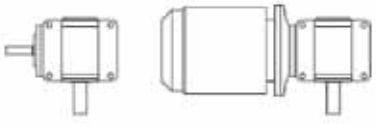
A			
B			
C			
D			
E			
F			
G			
H			
J			
K			
M			
N			

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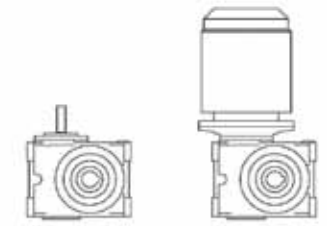
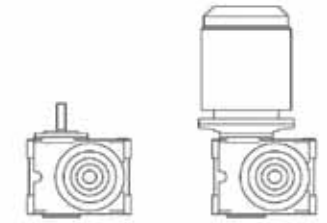
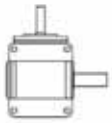
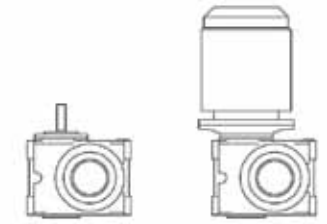
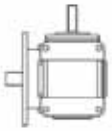
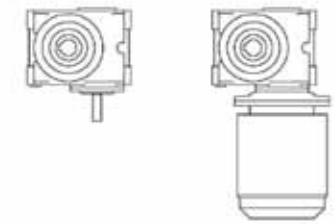
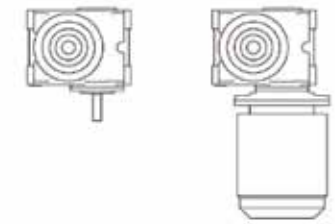
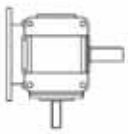
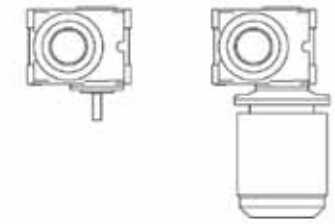
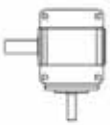
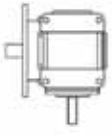
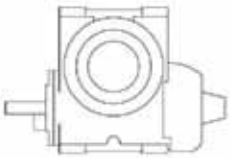
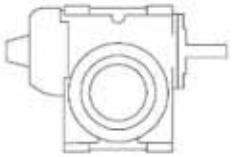
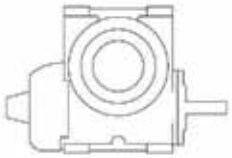
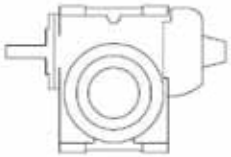
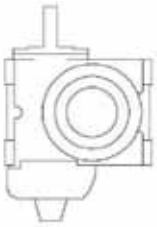
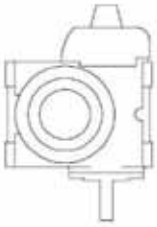
P			
S			
T			
W			
X			
Y			

PRIMARY UNIT MOUNTING POSITION

COLUMN 14 ENTRY	
1	
3	
5	
7	

COLUMN 14 ENTRY	
3	
4	
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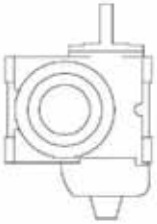
8	

PRIMARY UNIT POSITION RELATIVE TO THE SECONDARY UNIT

FOR SINGLE REDUCTION ENTER [-]

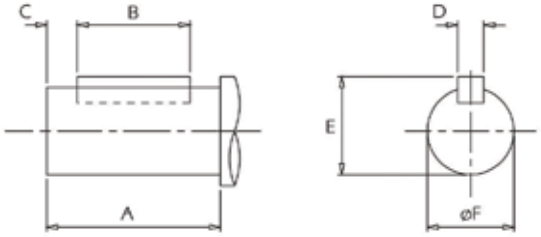
SINGLE REDUCTION

Nominal Ratio Column Entry (6 7 8)	A0280	A0410	A0510	A0610	A0730	A0860
5 . 0	5.250	5.250	4.800	5.000	5.200	4.833
7 . 5	7.333	7.333	7.333	7.333	7.250	7.250
1 0 .	10.50	10.50	10.50	9.667	10.33	9.667
1 2 .	12.50	12.50	12.50	12.50	12.50	12.67
1 5 .	14.50	14.50	14.50	15.00	14.50	14.50
2 0 .	20.00	19.50	20.00	20.00	19.50	19.50
2 5 .	25.00	25.00	25.00	25.00	25.00	25.00
3 0 .	30.00	30.00	30.00	30.00	30.00	30.00
4 0 .	40.00	40.00	40.00	40.00	40.00	40.00
5 0 .	50.00	50.00	50.00	50.00	50.00	50.00
6 0 .	60.00	60.00	60.00	60.00	60.00	60.00
7 0 .	70.00	70.00	70.00	70.00	70.00	70.00

DOUBLE REDUCTION

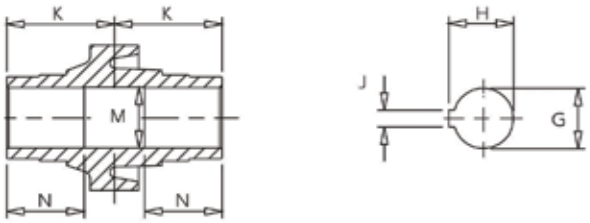
Nominal Ratio	Column Entry (6 7 8)	A0410	A0510	A0610	A0730	A0860
75.00	7 5 .	76.13	76.13	78.75	76.13	69.60
100.00	1 0 0	102.4	105.0	105.0	102.4	93.60
125.00	1 2 5	131.3	131.3	131.3	131.3	120.0
150.00	1 5 0	152.3	152.3	157.5	152.3	152.3
200.00	2 0 0	204.8	210.0	210.0	204.8	204.8
225.00	2 2 5	210.3	210.3	217.5	210.3	210.3
250.00	2 5 0	262.5	262.5	262.5	262.5	262.5
300.00	3 0 0	290.0	290.0	292.5	282.8	290.0
350.00	3 5 0	362.5	362.5	362.5	362.5	336.0
375.00	3 7 5	367.5	367.5	367.5	367.5	362.5
400.00	4 0 0	390.0	400.0	390.0	380.3	390.0
450.00	4 5 0	435.0	435.0	435.0	435.0	435.0
500.00	5 0 0	500.0	500.0	487.5	487.5	500.0
600.00	6 0 0	600.0	600.0	585.0	585.0	600.0
625.0	6 2 5	625.0	625.0	625.0	625.0	625.0
700.00	7 0 0	735.0	735.0	676.7	723.3	676.7
750.00	7 5 0	750.0	750.0	750.0	750.0	750.0
800.00	8 0 0	780.0	800.0	800.0	780.0	780.0
900.00	9 0 0	900.0	900.0	900.0	900.0	900.0
1000.00	1 0 C	1000.	1000.	1000.	1000.	1000.
1200.00	1 2 C	1200.	1200.	1200.	1200.	1200.
1250.00	1 3 C	1250.	1250.	1250.	1250.	1250.
1400.00	1 4 C	1365.	1400.	1400.	1365.	1365.
1500.00	1 5 C	1500.	1500.	1500.	1500.	1500.
1600.00	1 6 C	1600.	1600.	1600.	1600.	1600.
1750.00	1 7 C	1750.	1750.	1750.	1750.	1750.
1800.00	1 8 C	1800.	1800.	1800.	1800.	1800.
2000.00	2 0 C	2000.	2000.	2000.	2000.	2000.
2100.00	2 1 C	2100.	2100.	2100.	2100.	2100.
2400.00	2 4 C	2400.	2400.	2400.	2400.	2400.
2500.00	2 5 C	2500.	2500.	2500.	2500.	2500.
2800.00	2 8 C	2800.	2800.	2800.	2800.	2800.
3000.00	3 0 C	3000.	3000.	3000.	3000.	3000.
3500.00	3 5 C	3500.	3500.	3500.	3500.	3500.
3600.00	3 6 C	3600.	3600.	3600.	3600.	3600.
4200.00	4 2 C	4200.	4200.	4200.	4200.	4200.

OUTPUTSHAFT OPTIONS, COLUMN 11 ENTRY



SIZE OF UNIT	TYPE OF OUTPUTSHAFT	COLUMN 11 ENTRY		DIMENSIONS IN INCHES (METRIC IN MM)					
		SINGLE EXT	DOUBLE EXT	A	B	C	D	E	ø F
A0280	Standard Inch	N	P	1.25"	0.9375"	0.16"	0.190" 0.188"	0.707" 0.699"	0.6250" 0.6245"
	Metric	C	D	35	23	5.5	5.000 4.970	18.00 17.87	16.012 16.001
A0410	Standard Inch	N	P	1.625"	1.3125"	0.16"	0.190" 0.188"	0.834" 0.826"	0.7500" 0.7495"
	Metric	C	D	45	34	6	6.000 5.970	22.50 22.37	20.015 20.002
A0510	Standard Inch	N	P	2.125"	1.7500"	0.19"	0.252" 0.250"	1.110" 1.102"	1.0000" 0.9995"
	Metric	C	D	57	42	7	8.000 7.964	28.00 27.71	25.015 25.002
A0610	Standard Inch	N	P	2.625"	2.0000"	0.25"	0.252" 0.250"	1.238" 1.230"	1.1250" 1.1245"
	Metric	C	D	70	55	7	8.000 7.964	31.00 30.71	28.015 28.002
A0730	Standard Inch	N	P	3.25"	2.5000"	0.25"	0.252" 0.250"	1.364" 1.356"	1.2500" 1.2495"
	Metric	C	D	83	62	7	8.000 7.964	33.00 32.71	30.015 30.002"
A0860	Standard Inch	N	P	3.875"	3.2500"	0.31"	0.377" 0.375"	1.666" 1.658"	1.5000" 1.4995"
	Metric	C	D	98	80	8	10.000 9.964	38.00 37.71	35.018 35.002

OUTPUTBORE OPTIONS, COLUMN 11 ENTRY



SIZE OF UNIT	TYPE OF OUTPUTBORE	COLUMN 11 ENTRY	DIMENSIONS IN INCHES (METRIC IN MM)					
			G	H	J	K	M	N
A0280	Standard Inch	A	0.6257" 0.6250"	0.715" 0.709"	0.1895" 0.1875"	1.575"	0.635" 0.630"	1.26"
	Metric	H	16.034 16.016	18.4 18.3	5.015 4.985	40	16.3 16.2	32
A0410	Standard Inch	A	0.7508" 0.7500"	0.843" 0.837"	0.1895" 0.1875"	1.969"	0.760" 0.755"	1.57"
	Metric	H	22.041 22.020	24.9 24.8	6.015 5.985	50	22.3 22.2	40
A0510	Standard Inch	A	1.0008" 1.0000"	1.120" 1.114"	0.252" 0.250"	2.205"	1.010" 1.005"	1.77"
	Metric	H	25.041 25.020	28.5 28.3	8.018 7.982	56	25.3 25.2	45
A0610	Standard Inch	A	1.3760" 1.3750"	1.524" 1.518"	0.3145" 0.3125"	2.520"	1.385" 1.380"	1.97"
	Metric	H	35.050 35.025	38.5 38.3	10.018 9.982	64	35.3 35.2	50
A0730	Standard Inch	A	1.6260" 1.6250"	1.802" 1.796"	0.377" 0.375"	3.031"	1.635" 1.630"	2.36"
	Metric	H	40.050 40.025	43.5 43.3	12.021 11.979	77	40.3 40.2	60
A0860	Standard Inch	A	1.8760" 1.8750"	2.102" 2.096"	0.502" 0.500"	3.661"	1.885" 1.880"	2.87"
	Metric	H	50.050 50.025	54.0 53.8	14.021 13.979	93	50.3 50.2	73

MOTOR ADAPTORS IEC & NEMA
ADDITIONAL FEATURES

NEMA MOTOR ADAPTORS, COLUMN 12 ENTRY FOR A TYPE ONLY

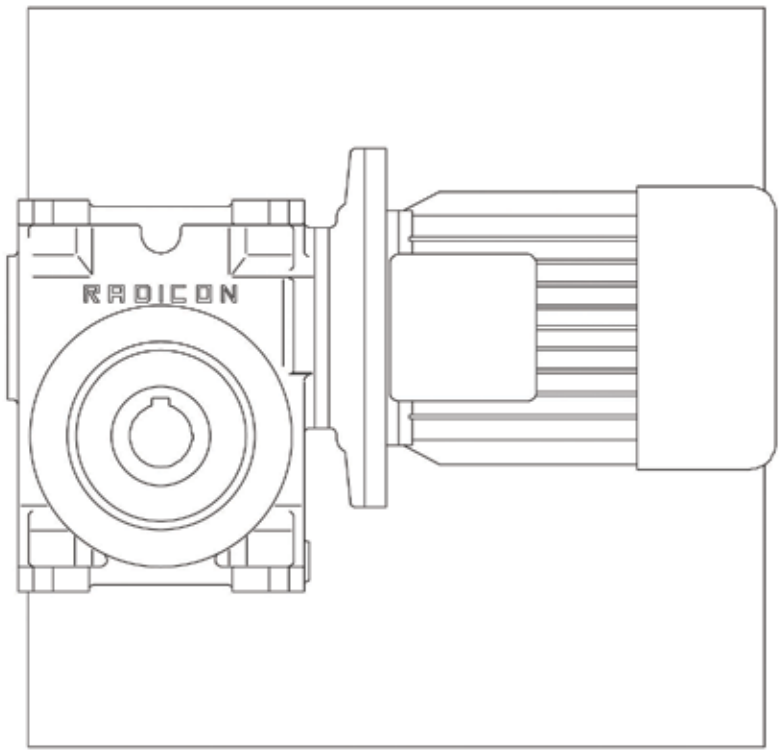
MOTOR FRAME/FLANGE	UNIT SIZE					
	A0280	A0410	A0510	A0610	A0730	A0860
56C	T	T	T	T	-	-
143TC / 145TC	-	V	V	V	V	V
182TC / 184TC	-	-	-	X	X	X
213TC / 215TC	-	-	-	-	-	Y

IEC MOTOR ADAPTORS, COLUMN 12 ENTRY FOR G TYPE ONLY

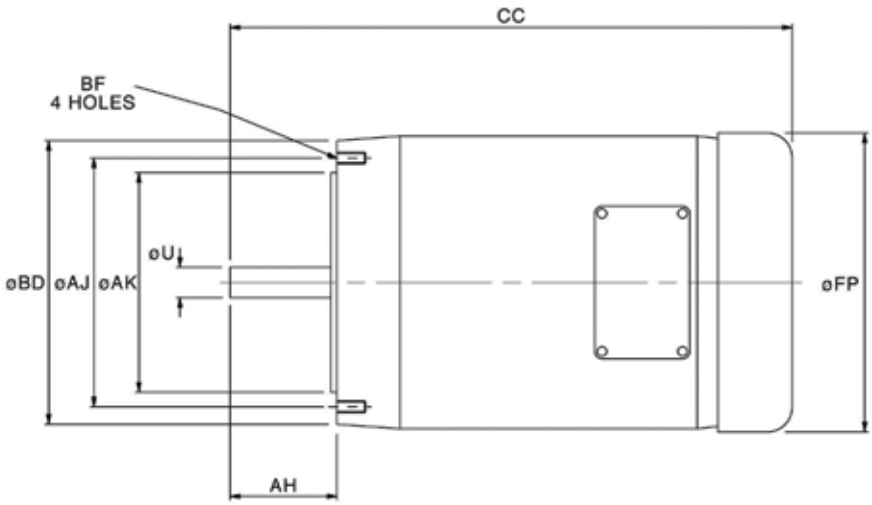
MOTOR FRAME/FLANGE	UNIT SIZE					
	A0280	A0410	A0510	A0610	A0730	A0860
63/D	A	-	-	-	-	-
71/D	B	B	B	-	-	-
71/C	C	C	C	-	-	-
80/D	-	D	D	D	D	-
80/C	-	E	E	E	-	-
90/D	-	-	F	F	F	F
90/C	-	-	G	G	G	-
100/112D	-	-	-	H	H	H
100/112C	-	-	-	J	J	J
132/D	-	-	-	-	-	K
132/C	-	-	-	-	-	L

ADDITIONAL FEATURES - COLUMN 20 ENTRY

COLUMN 20 ENTRY	SPIGOT CASE	PRIME PAINTED ONLY	LUBRICANT TYPE	
			MINERAL	SYNTHETIC
-			●	
B		●	●	
H				
K		●		
R				●
T		●		●
2	●		●	
3	●	●	●	
4	●			
5	●	●		
6	●			●
7	●	●		●

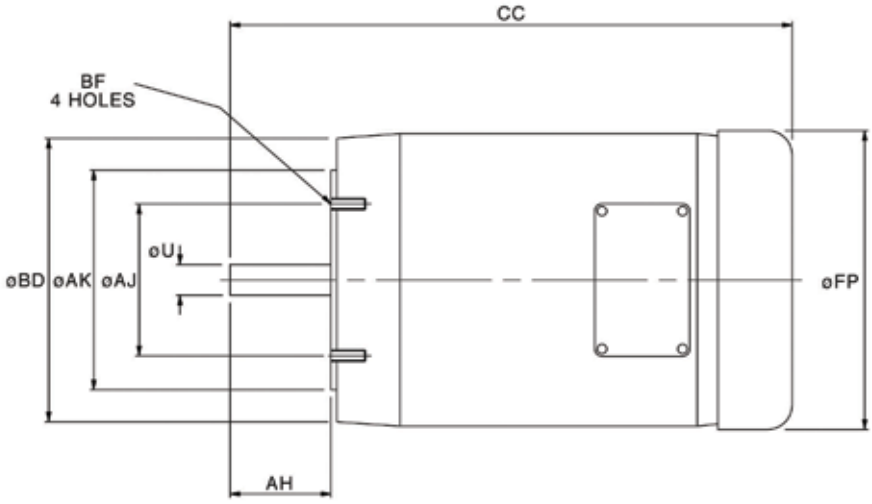


MOTORIZED



MOTOR FRAME SIZE	ø BD	ø AJ	ø AK	ø U	ø AH	CC max	ø FP	B F TAP UNC
56C	6.50	5.88	4.5	0.625	2.06	14.06	7.19	0.38
143TC / 145TC	6.50	5.88	4.5	0.875	2.13	14.19	7.19	0.38

These dimensions apply to Radicon Standard Motors



MOTOR FRAME SIZE	ø BD	ø AJ	ø AK	ø U	ø AH	CC max	ø FP	B F TAP UNC
182TC / 184TC	9.00	7.25	8.5	1.125	2.63	18.06	8.50	0.50
213TC / 215TC	9.00	7.25	8.5	1.375	3.13	19.44	10.19	0.50

These dimensions apply to Radicon Standard Motors

0.25 HP

4 POLE

N2 R/MIN	i	lb in	Fm	lb	UNIT DESIGNATION	lb		SERIES X	inches
Output Speed	Ratio	Output Torque	Service Factor	Overhung Load	Column Entry [1] Through [20] Spaces to be filled when entering order	Weight of Base Mount Unit	Motor Frame Size	Cone Ring Output Coupling	Max Bore Coupling Driven Half
329	5.25	42	3.93	256	A 0 2 8 0 5 . 0 _ M _ - _ _ . 2 5 4 A _	33.4	56C	6 1 1 0 1 -	1.50
235	7.33	56	3.57	256	7 . 5				
164	10.50	77	3.25	256	1 0 .				
138	12.50	88	2.93	256	1 3 .				
119	14.50	101	2.56	254	1 5 .				
86	20.00	122	2.33	254	2 0 .				
69	25.00	147	2.09	253	2 5 .				
58	30.00	168	1.67	251	3 0 .				
43	40.00	186	0.97	251	4 0 .				
88	19.50	135	3.92	393	A 0 4 1 0 2 0 . _ M _ - _ _ . 2 5 4 A _	42.3	56C	6 1 1 0 1 -	1.50
43	40.00	222	2.73	388	4 0 .				
35	50.00	253	1.76	388	5 0 .				
29	60.00	261	1.32	388	6 0 .				
25	70.00	284	0.99	386	7 0 .				
23	76.13	436	2.02	381	A 0 4 1 0 7 5 . _ N _ - _ _ . 2 5 4 A _	51.1	56C	6 1 1 0 1 -	1.50
16	105.00	546	1.30	352	1 0 0				
13	131.25	619	1.42	345	1 2 5				
11	152.25	733	1.20	314	1 5 0				
35	50.00	272	2.99	899	A 0 5 1 0 5 0 . _ M _ - _ _ . 2 5 4 A _	51.1	56C	6 1 1 0 1 -	1.50
29	60.00	301	2.10	899	6 0 .				
25	70.00	322	1.54	896	7 0 .				
22	78.75	465	2.81	892	A 0 5 1 0 7 5 . _ N _ - _ _ . 2 5 4 A _	59.9	56C	6 1 1 0 1 -	1.50
16	105.00	568	3.60	890	1 0 0			6 1 1 0 2 -	1.65
13	131.25	674	3.24	885	1 2 5				
11	157.50	810	1.82	880	1 5 0			6 1 1 0 1 -	1.50
8.2	210.00	982	2.23	874	2 0 0			6 1 1 0 2 -	1.65
7.9	217.50	1041	1.50	871	2 2 5			6 1 1 0 1 -	1.50
6.6	262.50	1148	1.90	862	2 5 0			6 1 1 0 2 -	1.65
5.9	292.50	1200	1.36	824	3 0 0				
4.8	362.50	1460	1.50	782	3 5 0				
4.4	390.00	1435	1.52	798	4 0 0				
4.0	435.00	1666	1.28	732	4 5 0				
3.5	487.50	1660	1.32	741	5 0 0				
29	60.00	317	3.29	984	A 0 6 1 0 6 0 . _ M _ - _ _ . 2 5 4 A _	64.3	56C	6 1 1 0 1 -	1.50
25	70.00	336	2.52	980	7 0 .				
11	152.25	850	3.19	932	A 0 6 1 0 1 5 0 _ N _ - _ _ . 2 5 4 A _	81.9	56C	6 1 1 0 3 -	1.89
8.4	204.75	1001	2.91	916	2 0 0				
8.2	210.25	1077	2.65	907	2 2 5				
6.6	262.50	1177	2.68	898	2 5 0				
6.1	282.75	1386	2.16	867	3 0 0				
4.8	362.50	1464	2.15	864	3 5 0				
4.7	367.50	993	0.99	883	3 7 5			6 1 1 0 1 -	1.50
4.5	380.25	1614	1.95	838	4 0 0			6 1 1 0 3 -	1.89
4.0	435.00	1632	1.93	843	4 5 0				
3.5	487.50	1862	1.69	808	5 0 0				
2.9	585.00	2069	1.52	779	6 0 0				
2.8	625.00	2006	1.57	799	6 2 5				
2.4	723.33	1954	1.04	763	7 0 0			6 1 1 0 2 -	1.65
2.3	750.00	2207	1.43	770	7 5 0			6 1 1 0 3 -	1.89
2.2	780.00	2346	1.34	743	8 0 0				
1.9	900.00	2452	1.28	727	9 0 0				
1.7	1000.00	2648	1.19	696	1 0 C				
1.4	1200.00	2892	1.09	654	1 2 C				
1.4	1250.00	3040	1.04	627	1 2 C				
8.4	204.75	1151	3.35	1455	A 0 7 3 0 2 0 0 _ N _ - _ _ . 2 5 4 A _	110.6	56C	6 1 1 0 3 -	1.89
8.2	210.25	1165	3.61	1455	2 2 5			6 1 1 0 4 -	2.36
6.6	262.50	1320	3.18	1442	2 5 0				
5.9	290.00	1500	2.80	1419	3 0 0				
5.1	336.00	1653	2.54	1410	3 5 0				
4.8	362.50	1277	1.30	1424	3 7 5			6 1 1 0 2 -	1.65
4.4	390.00	1870	2.16	1382	4 0 0			6 1 1 0 3 -	1.89
4.0	435.00	1888	2.23	1388	4 5 0			6 1 1 0 4 -	2.36
3.5	500.00	2109	1.99	1355	5 0 0				
2.9	600.00	2394	1.76	1323	6 0 0				
2.8	625.00	2291	1.83	1348	6 2 5				
2.5	676.67	2176	1.02	1312	7 0 0			6 1 1 0 2 -	1.65
2.3	750.00	2589	1.62	1316	7 5 0			6 1 1 0 4 -	2.36
2.2	780.00	2789	1.51	1287	8 0 0				
1.9	900.00	2880	1.46	1280	9 0 0				
1.7	1000.00	3058	1.37	1253	1 0 C				
1.4	1200.00	3427	1.23	1198	1 2 C				
1.4	1250.00	3518	1.19	1183	1 2 C				
1.3	1365.00	3694	1.02	1148	1 4 C			6 1 1 0 3 -	1.89
1.1	1500.00	3936	1.07	1074	1 5 C			6 1 1 0 4 -	2.36
1.1	1600.00	3961	1.05	989	1 6 C				
.99	1750.00	4119	1.02	573	1 7 C				
.96	1800.00	4056	1.04	802	1 8 C				

NOTE

Other output speeds are available using 2 and 6 pole motors - Consult our application engineers

0.33 HP

4 POLE

N2 R/MIN	i	lb in	Fm	lb	UNIT DESIGNATION	lb		SERIES X	inches
Output Speed	Ratio	Output Torque	Service Factor	Overhung Load	Column Entry [1] Through [20] Spaces to be filled when entering order	Weight of Base Mount Unit	Motor Frame Size	Cone Ring Output Coupling	Max Bore Coupling Driven Half
329	5.25	55	2.98	255	A 0 2 8 0 5 . 0 _ M _ - _ _ . 3 3 4 A _	35.4	56C	6 1 1 0 1 -	1.50
235	7.33	74	2.71	255	7 . 5				
164	10.50	102	2.46	255	1 0 .				
138	12.50	116	2.22	254	1 3 .				
119	14.50	134	1.94	250	1 5 .				
86	20.00	162	1.77	252	2 0 .				
69	25.00	194	1.58	247	2 5 .				
58	30.00	222	1.27	243	3 0 .				
88	19.50	178	2.97	383	A 0 4 1 0 2 0 . _ M _ - _ _ . 3 3 4 A _	44.3	56C	6 1 1 0 1 -	1.50
69	25.00	210	3.81	366	2 5 .				
58	30.00	241	3.23	382	3 0 .				
43	40.00	293	2.07	347	4 0 .				
35	50.00	334	1.33	370	5 0 .				
29	60.00	345	1.00	375	6 0 .				
23	76.13	575	1.53	295	A 0 4 1 0 7 5 . _ N _ - _ _ . 3 3 4 A _	53.1	56C	6 1 1 0 1 -	1.50
16	105.00	721	0.99	239	1 0 0				
13	131.25	817	1.08	234	1 2 5				
43	40.00	314	3.12	892	A 0 5 1 0 5 0 . _ M _ - _ _ . 3 3 4 A _	53.1	56C	6 1 1 0 1 -	1.50
35	50.00	359	2.27	891	5 0 .				
29	60.00	397	1.59	894	6 0 .				
25	70.00	425	1.17	892	7 0 .				
22	78.75	614	2.13	874	A 0 5 1 0 7 5 . _ N _ - _ _ . 3 3 4 A _	61.9	56C	6 1 1 0 1 -	1.50
16	105.00	750	2.72	870	1 0 0			6 1 1 0 2 -	1.65
13	131.25	890	2.46	858	1 2 5				
11	157.50	1069	1.38	829	1 5 0			6 1 1 0 1 -	1.50
8.2	210.00	1296	1.69	804	2 0 0			6 1 1 0 2 -	1.65
7.9	217.50	1374	1.13	788	2 2 5			6 1 1 0 1 -	1.50
6.6	262.50	1516	1.44	766	2 5 0			6 1 1 0 2 -	1.65
5.9	292.50	1584	1.03	737	3 0 0				
35	50.00	375	3.61	975	A 0 6 1 0 6 0 . _ M _ - _ _ . 3 3 4 A _	66.3	56C	6 1 1 0 1 -	1.50
29	60.00	418	2.50	969	6 0 .				
25	70.00	444	1.91	963	7 0 .				
23	76.13	632	3.79	926	A 0 6 1 0 1 5 0 _ N _ - _ _ . 2 5 4 A _	83.9	56C	6 1 1 0 3 -	1.89
17	102.38	755	3.38	936	1 0 0				
13	131.25	900	3.35	921	1 2 5				
11	152.25	1123	2.42	893	1 5 0				
8.4	204.75	1321	2.20	856	2 0 0				
8.2	210.25	1421	2.01	761	2 2 5				
6.6	262.50	1554	2.03	842	2 5 0				
6.1	282.75	1830	1.63	799	3 0 0				
4.8	362.50	1932	1.63	792	3 5 0				
4.5	380.25	2131	1.48	570	4 0 0				
4.0	435.00	2155	1.46	573	4 5 0				
3.5	487.50	2458	1.28	714	5 0 0				
2.9	585.00	2731	1.15	674	6 0 0				
2.8	625.00	2648	1.19	690	6 2 5				
2.3	750.00	2913	1.08	647	7 5 0				
2.2	780.00	3096	1.02	397	8 0 0				
11	152.25	1207	3.48	1442	A 0 7 3 0 2 0 0 _ N _ - _ _ . 3 3 4 A _	112.6	56C	6 1 1 0 4 -	2.36
8.4	204.75	1519	2.54	1300	2 0 0			6 1 1 0 3 -	1.89
8.2	210.25	1538	2.73	1300	2 2 5			6 1 1 0 4 -	2.36
6.6	262.50	1743	2.41	1352	2 5 0				
5.9	290.00	1980	2.12	1191	3 0 0				
5.1	336.00	2182	1.93	1184	3 5 0				
4.8	362.50	1686	0.98	1361	3 7 5			6 1 1 0 2 -	1.65
4.4	390.00	2468	1.64	1305	4 0 0			6 1 1 0 3 -	1.89
4.0	435.00	2492	1.69	1309	4 5 0			6 1 1 0 4 -	2.36
3.5	500.00	2783	1.51	978	5 0 0				
2.9	600.00	3161	1.33	900	6 0 0				
2.8	625.00	3024	1.39	917	6 2 5				
2.3	750.00	3418	1.23	1200	7 5 0				
2.2	780.00	3682	1.14	1162	8 0 0				
1.9	900.00	3802	1.11	1146	9 0 0				
1.7	1000.00	4036	1.04	801	1 0 C				

NOTE

Other output speeds are available using 2 and 6 pole motors - Consult our application engineers

0.50 HP

4 POLE

N2 R/MIN	i	lb in	Fm	lb	UNIT DESIGNATION	lb		SERIES X	inches
Output Speed	Ratio	Output Torque	Service Factor	Overhung Load	Column Entry [1] Through [20] Spaces to be filled when entering order	Weight of Base Mount Unit	Motor Frame Size	Cone Ring Output Coupling	Max Bore Coupling Driven Half
329	5.25	84	1.97	255	A 0 2 8 0 5 . 0 _ M _ - _ _ . 5 0 4 A _	37.4	56C	6 1 1 0 1 -	1.50
235	7.33	113	1.79	254	7 . 5				
164	10.50	155	1.63	252	1 0 .				
138	12.50	176	1.47	251	1 3 .				
119	14.50	203	1.28	242	1 5 .				
86	20.00	245	1.17	249	2 0 .				
69	25.00	294	1.04	233	2 5 .				
58	30.00	336	0.84	227	3 0 .				
235	7.33	115	3.94	391	A 0 4 1 0 2 0 . _ M _ - _ _ . 5 0 4 A _	46.3	56C	6 1 1 0 1 -	1.50
164	10.50	159	3.46	387	1 0 .				
138	12.50	185	3.60	385	1 3 .				
119	14.50	210	3.46	381	1 5 .				
88	19.50	270	1.96	361	2 0 .				
69	25.00	319	2.51	312	2 5 .				
58	30.00	365	2.13	364	3 0 .				
43	40.00	444	1.37	259	4 0 .				
35	50.00	507	0.88	331	5 0 .				
23	76.13	872	1.01	112	A 0 4 1 0 7 5 . _ N _ - _ _ . 5 0 4 A _	55.1	56C	6 1 1 0 1 -	1.50
119	14.50	217	3.91	897	A 0 5 1 0 5 0 . _ M _ - _ _ . 5 0 4 A _	55.1	56C	6 1 1 0 1 -	1.50
58	30.00	385	3.17	884	3 0 .				
43	40.00	477	2.06	873	4 0 .				
35	50.00	544	1.50	873	5 0 .				
29	60.00	602	1.05	885	6 0 .				
22	78.75	931	1.41	835	A 0 5 1 0 7 5 . _ N _ - _ _ . 5 0 4 A _	63.9	56C	6 1 1 0 1 -	1.50
16	105.00	1137	1.80	829	1 0 0			6 1 1 0 2 -	1.65
13	131.25	1348	1.62	800	1 2 5				
11	157.50	1620	0.91	721	1 5 0				
43	40.00	490	3.75	958	A 0 6 1 0 6 0 . _ M _ - _ _ . 5 0 4 A _	68.3	56C	6 1 1 0 2 -	1.65
35	50.00	568	2.38	947	5 0 .			6 1 1 0 1 -	1.50
29	60.00	634	1.65	936	6 0 .				
25	70.00	673	1.26	927	7 0 .				
23	76.13	959	2.50	832	A 0 6 1 0 1 5 0 _ N _ - _ _ . 5 0 4 A _	85.9	56C	6 1 1 0 3 -	1.89
17	102.38	1144	2.23	881	1 0 0				
13	131.25	1363	2.21	855	1 2 5				
11	152.25	1701	1.60	809	1 5 0				
8.4	204.75	2002	1.45	729	2 0 0				
8.2	210.25	2154	1.33	453	2 2 5				
6.6	262.50	2355	1.34	724	2 5 0				
6.1	282.75	2773	1.08	656	3 0 0				
4.8	362.50	2928	1.08	638	3 5 0				
25	69.60	1013	3.67	1368	A 0 7 3 0 2 0 0 _ N _ - _ _ . 5 0 4 A _	114.6	56C	6 1 1 0 3 -	1.89
18	93.60	1296	2.72	1377	1 0 0				
14	120.00	1529	2.75	1194	1 2 5			6 1 1 0 4 -	2.36
11	152.25	1829	2.30	1368	1 5 0				
8.4	204.75	2302	1.68	970	2 0 0			6 1 1 0 3 -	1.89
8.2	210.25	2331	1.80	970	2 2 5			6 1 1 0 4 -	2.36
6.6	262.50	2641	1.59	1160	2 5 0				
5.9	290.00	3000	1.40	709	3 0 0				
5.1	336.00	3306	1.27	704	3 5 0				
4.4	390.00	3740	1.08	1142	4 0 0			6 1 1 0 3 -	1.89
4.0	435.00	3777	1.11	1142	4 5 0			6 1 1 0 4 -	2.36

NOTE

Other output speeds are available using 2 and 6 pole motors - Consult our application engineers

0.75 HP

4 POLE

N2 R/MIN	i	lb in	Fm	lb	UNIT DESIGNATION	lb		SERIES X	inches
Output Speed	Ratio	Output Torque	Service Factor	Overhung Load	Column Entry [1] Through [20] Spaces to be filled when entering order	Weight of Base Mount Unit	Motor Frame Size	Cone Ring Output Coupling	Max Bore Coupling Driven Half
329	5.25	126	1.31	254	A 0 2 8 0 5 . 0 _ M _ - _ _ . 7 5 4 A _	40.4	56C	6 1 1 0 1 -	1.50
235	7.33	170	1.19	251	7 . 5				
164	10.50	232	1.08	249	1 0 .				
138	12.50	265	0.98	247	1 3 .				
119	14.50	305	0.85	231	1 5 .				
329	5.25	127	2.96	390	A 0 4 1 0 5 . 0 _ M _ - _ _ . 7 5 4 A _	49.3	56C	6 1 1 0 1 -	1.50
235	7.33	172	2.63	389	7 . 5				
164	10.50	239	2.31	380	1 0 .				
138	12.50	278	2.40	377	1 3 .				
119	14.50	316	2.31	370	1 5 .				
88	19.50	406	1.31	329	2 0 .				
69	25.00	478	1.68	234	2 5 .				
58	30.00	548	1.42	338	3 0 .				
43	40.00	667	0.91	129	4 0 .				
119	14.50	326	2.61	894	A 0 5 1 0 1 5 . _ M _ - _ _ . 7 5 4 A _	58.1	56C	6 1 1 0 1 -	1.50
86	20.00	414	3.23	880	2 0 .				
69	25.00	495	2.86	887	2 5 .				
58	30.00	577	2.11	868	3 0 .				
43	40.00	715	1.37	844	4 0 .				
35	50.00	816	1.00	848	5 0 .				
22	78.75	1397	0.94	777	A 0 5 1 0 7 5 . _ N _ - _ _ . 7 5 4 A _	66.9	56C	6 1 1 0 1 -	1.50
86	20.00	423	3.93	961	A 0 6 1 0 2 0 . _ M _ - _ _ . 7 5 4 A _	71.3	56C	6 1 1 0 2 -	1.65
69	25.00	511	3.84	951	2 5 .				
58	30.00	591	3.37	941	3 0 .				
43	40.00	735	2.50	922	4 0 .				
35	50.00	852	1.59	905	5 0 .			6 1 1 0 1 -	1.50
29	60.00	951	1.10	888	6 0 .				
25	70.00	1010	0.84	875	7 0 .				
23	76.13	1438	1.67	693	A 0 6 1 0 7 5 . _ N _ - _ _ . 7 5 4 A _	88.9	56C	6 1 1 0 3 -	1.89
17	102.38	1717	1.49	800	1 0 0				
13	131.25	2045	1.48	758	1 2 5				
11	152.25	2552	1.06	685	1 5 0				
8.4	204.75	3003	0.97	541	2 0 0				
25	69.60	1520	2.45	1225	A 0 7 3 0 7 5 . _ N _ - _ _ . 7 5 4 A _	117.6	56C	6 1 1 0 3 -	1.89
18	93.60	1945	1.82	1255	1 0 0				
14	120.00	2293	1.83	896	1 2 5			6 1 1 0 4 -	2.36
11	152.25	2744	1.53	1259	1 5 0				
8.4	204.75	3453	1.12	485	2 0 0			6 1 1 0 3 -	1.89
8.2	210.25	3497	1.20	485	2 2 5			6 1 1 0 4 -	2.36
6.6	262.50	3962	1.06	878	2 5 0				

NOTE

Other output speeds are available using 2 and 6 pole motors - Consult our application engineers

1.00 HP

4 POLE

N2 R/MIN	i	lb in	Fm	lb	UNIT DESIGNATION	lb		SERIES X	inches
Output Speed	Ratio	Output Torque	Service Factor	Overhung Load	Column Entry [1] Through [20] Spaces to be filled when entering order	Weight of Base Mount Unit	Motor Frame Size	Cone Ring Output Coupling	Max Bore Coupling Driven Half
329	5.25	169	2.22	389	A 0 4 105. 0 _M_-__1.04A_	54.3	143TC	6 1 1 0 1 -	1.50
235	7.33	230	1.97	388	7. 5				
164	10.50	319	1.73	374	1 0.				
138	12.50	371	1.80	369	1 3.				
119	14.50	421	1.73	358	1 5.				
88	19.50	541	0.98	297	2 0.				
69	25.00	638	1.26	156	2 5.				
58	30.00	731	1.07	312	3 0.				
235	7.33	236	3.37	896	A 0 5 107. 5 _M_-__1.04A_	63.1	143TC	6 1 1 0 1 -	1.50
164	10.50	327	3.13	893	1 0.				
138	12.50	380	3.00	892	1 3.				
119	14.50	435	1.96	890	1 5.				
86	20.00	552	2.42	869	2 0.				
69	25.00	661	2.14	879	2 5.				
58	30.00	770	1.59	851	3 0.				
43	40.00	954	1.03	816	4 0.				
138	12.50	387	3.83	961	A 0 6 1013. _M_-__1.04A_	76.3	143TC	6 1 1 0 1 -	1.50
115	15.00	456	3.41	954	1 5.				
86	20.00	564	2.95	940	2 0.			6 1 1 0 2 -	1.65
69	25.00	681	2.88	926	2 5.				
58	30.00	788	2.52	913	3 0.				
43	40.00	980	1.88	887	4 0.				
35	50.00	1136	1.19	863	5 0.			6 1 1 0 1 -	1.50
29	60.00	1268	0.82	840	6 0.				
23	76.13	1918	1.25	554	A 0 6 1075. _N_-__1.04A_	93.9	143TC	6 1 1 0 3 -	1.89
17	102.38	2289	1.12	719	1 0 0				
13	131.25	2727	1.11	661	1 2 5				
88	19.50	606	3.79	1483	A 0 7 3020. _M_-__1.04A_	102.8	143TC	6 1 1 0 2 -	1.65
58	30.00	855	3.05	1459	3 0.			6 1 1 0 3 -	1.89
43	40.00	1085	2.34	1434	4 0.				
35	50.00	1290	1.82	1409	5 0.			6 1 1 0 2 -	1.65
29	60.00	1438	1.26	1391	6 0.				
25	70.00	1535	0.93	1373	7 0.			6 1 1 0 1 -	1.50
25	69.60	2027	1.84	1083	A 0 7 3075. _N_-__1.04A_	122.6	143TC	6 1 1 0 3 -	1.89
18	93.60	2593	1.36	1133	1 0 0				
14	120.00	3058	1.37	598	1 2 5			6 1 1 0 4 -	2.36
11	152.25	3659	1.15	1151	1 5 0				
35	50.00	1317	2.80	2383	A 0 8 6050. _M_-__1.04A_	144.6	143TC	6 1 1 0 3 -	1.89
29	60.00	1483	1.90	2383	6 0.				
25	70.00	1609	1.44	2360	7 0.			6 1 1 0 2 -	1.65

NOTE

Other output speeds are available using 2 and 6 pole motors - Consult our application engineers

1.50 HP

4 POLE

N2 R/MIN	i	lb in	Fm	lb	UNIT DESIGNATION	lb		SERIES X	inches
Output Speed	Ratio	Output Torque	Service Factor	Overhung Load	Column Entry [1] Through [20] Spaces to be filled when entering order	Weight of Base Mount Unit	Motor Frame Size	Cone Ring Output Coupling	Max Bore Coupling Driven Half
329	5.25	254	1.48	386	A 0 4 105. 0 _M _- __ 1.54A _	58.3	145TC	6 1 1 0 1 -	1.50
235	7.33	345	1.31	384	7. 5				
164	10.50	479	1.15	361	1 0.				
138	12.50	557	1.20	353	1 3.				
119	14.50	632	1.15	335	1 5.				
359	4.80	238	3.00	894	A 0 5 105. 0 _M _- __ 1.54A _	67.1	145TC	6 1 1 0 1 -	1.50
235	7.33	354	2.25	893	7. 5				
164	10.50	491	2.09	888	1 0.				
138	12.50	570	2.00	887	1 3.				
119	14.50	652	1.30	883	1 5.				
86	20.00	828	1.61	848	2 0.				
69	25.00	991	1.43	865	2 5.				
58	30.00	1155	1.06	818	3 0.				
235	7.33	360	3.46	962	A 0 6 107. 5 _M _- __ 1.54A _	82.5	145TC	6 1 1 0 1 -	1.50
178	9.67	464	3.08	948	1 0.				
138	12.50	581	2.56	932	1 3.				
115	15.00	685	2.27	920	1 5.				
86	20.00	846	1.97	899	2 0.			6 1 1 0 2 -	1.65
69	25.00	1022	1.92	877	2 5.				
58	30.00	1183	1.68	856	3 0.				
43	40.00	1471	1.25	816	4 0.				
23	76.13	2877	0.83	276	A 0 6 1075. _N _- __ 1.54A _	97.9	145TC	6 1 1 0 3 -	1.89
167	10.33	512	3.85	1489	A 0 7 3010. _M _- __ 1.54A _	106.8	145TC	6 1 1 0 2 -	1.65
119	14.50	696	3.48	1470	1 5.			6 1 1 0 3 -	1.89
88	19.50	909	2.53	1446	2 0.			6 1 1 0 2 -	1.65
69	25.00	1101	2.91	1428	2 5.			6 1 1 0 3 -	1.89
58	30.00	1282	2.04	1276	3 0.				
43	40.00	1628	1.56	1368	4 0.				
35	50.00	1935	1.22	1330	5 0.			6 1 1 0 2 -	1.65
29	60.00	2158	0.84	1300	6 0.				
25	69.60	3041	1.22	798	A 0 7 3075. _N _- __ 1.54A _	126.6	145TC	6 1 1 0 3 -	1.89
18	93.60	3890	0.91	888	1 0 0				
88	19.50	919	3.87	2357	A 0 8 6020. _M _- __ 1.54A _	148.6	145TC	6 1 1 0 3 -	1.89
58	30.00	1312	3.39	2304	3 0.			6 1 1 0 4 -	2.36
43	40.00	1669	2.71	2320	4 0.				
35	50.00	1975	1.87	2331	5 0.			6 1 1 0 3 -	1.89
29	60.00	2224	1.27	2301	6 0.				
25	70.00	2414	0.96	2337	7 0.				

NOTE

Other output speeds are available using 2 and 6 pole motors - Consult our application engineers

2.00 HP

4 POLE

N2 R/MIN	i	lb in	Fm	lb	UNIT DESIGNATION	lb		SERIES X	inches
Output Speed	Ratio	Output Torque	Service Factor	Overhung Load	Column Entry [1] Through [20] Spaces to be filled when entering order	Weight of Base Mount Unit	Motor Frame Size	Cone Ring Output Coupling	Max Bore Coupling Driven Half
359	4.80	317	2.25	894	A 0 5 105. 0 _M _- __ 2.04A _	74.1	145TC	6 1 1 0 1 -	1.50
235	7.33	472	1.69	890	7. 5				
164	10.50	655	1.57	883	1 0.				
138	12.50	761	1.50	881	1 3.				
119	14.50	870	0.98	876	1 5.				
86	20.00	1104	1.21	827	2 0.				
345	5.00	334	3.23	961	A 0 6 105. 0 _M _- __ 2.04A _	89.5	145TC	6 1 1 0 1 -	1.50
235	7.33	480	2.60	943	7. 5				
178	9.67	619	2.31	925	1 0.				
138	12.50	775	1.92	903	1 3.				
115	15.00	913	1.71	887	1 5.				
86	20.00	1128	1.47	858	2 0.			6 1 1 0 2 -	1.65
69	25.00	1363	1.44	828	2 5.				
58	30.00	1577	1.26	800	3 0.				
43	40.00	1961	0.94	746	4 0.				
238	7.25	489	3.93	1487	A 0 7 307. 5 _M _- __ 2.04A _	113.8	145TC	6 1 1 0 2 -	1.65
167	10.33	683	2.89	1467	1 0.				
138	12.50	809	3.01	1453	1 3.			6 1 1 0 3 -	1.89
119	14.50	928	2.61	1442	1 5.				
88	19.50	1213	1.90	1410	2 0.			6 1 1 0 2 -	1.65
69	25.00	1468	2.18	1384	2 5.			6 1 1 0 3 -	1.89
58	30.00	1710	1.53	1094	3 0.				
43	40.00	2171	1.17	1303	4 0.				
35	50.00	2581	0.91	1251	5 0.				
25	69.60	4055	0.92	513	A 0 7 3075. _N _- __ 2.04A _	133.6	145TC	6 1 1 0 3 -	1.89
88	19.50	1226	2.90	2331	A 0 8 6020. _M _- __ 2.04A _	155.6	145TC	6 1 1 0 3 -	1.89
69	25.00	1490	3.33	2306	2 5.			6 1 1 0 4 -	2.36
58	30.00	1749	2.54	2225	3 0.				
43	40.00	2226	2.04	2257	4 0.				
35	50.00	2634	1.40	2280	5 0.			6 1 1 0 3 -	1.89
29	60.00	2966	0.95	2219	6 0.				

NOTE

Other output speeds are available using 2 and 6 pole motors - Consult our application engineers

3.00 HP

4 POLE

N2 R/MIN	i	lb in	Fm	lb	UNIT DESIGNATION	lb		SERIES X	inches
Output Speed	Ratio	Output Torque	Service Factor	Overhung Load	Column Entry [1] Through [20] Spaces to be filled when entering order	Weight of Base Mount Unit	Motor Frame Size	Cone Ring Output Coupling	Max Bore Coupling Driven Half
345	5.00	501	2.15	933	A 0 6 1 0 5 . 0 _ M _ - _ _ 3 . 0 4 A _	109.5	182TC	6 1 1 0 1 -	1.50
235	7.33	720	1.73	905	7 . 5				
178	9.67	929	1.54	878	1 0 .				
138	12.50	1163	1.28	846	1 3 .				
115	15.00	1370	1.14	820	1 5 .				
86	20.00	1693	0.98	776	2 0 .			6 1 1 0 2 -	1.65
69	25.00	2045	0.96	731	2 5 .				
332	5.20	532	3.41	1478	A 0 7 3 0 5 . 0 _ M _ - _ _ 3 . 0 4 A _	138.2	182TC	6 1 1 0 2 -	1.65
238	7.25	733	2.62	1455	7 . 5				
167	10.33	1025	1.93	1424	1 0 .				
138	12.50	1214	2.00	1403	1 3 .			6 1 1 0 3 -	1.89
119	14.50	1393	1.74	1384	1 5 .				
88	19.50	1819	1.26	1336	2 0 .			6 1 1 0 2 -	1.65
69	25.00	2203	1.45	1296	2 5 .			6 1 1 0 3 -	1.89
58	30.00	2565	1.02	729	3 0 .				
238	7.25	737	3.97	2372	A 0 8 6 0 7 . 5 _ M _ - _ _ 3 . 0 4 A _	180.0	182TC	6 1 1 0 3 -	1.89
178	9.67	970	3.50	2367	1 0 .				
136	12.67	1253	2.79	2327	1 3 .				
119	14.50	1409	2.84	2305	1 5 .				
88	19.50	1839	1.93	2279	2 0 .				
69	25.00	2235	2.22	2229	2 5 .			6 1 1 0 4 -	2.36
58	30.00	2624	1.70	2068	3 0 .				
43	40.00	3339	1.36	2131	4 0 .				
35	50.00	3951	0.93	2178	5 0 .			6 1 1 0 3 -	1.89

NOTE

Other output speeds are available using 2 and 6 pole motors - Consult our application engineers

5.00 HP

4 POLE

N2 R/MIN	i	lb in	Fm	lb	UNIT DESIGNATION	lb		SERIES X	inches
Output Speed	Ratio	Output Torque	Service Factor	Overhung Load	Column Entry [1] Through [20] Spaces to be filled when entering order	Weight of Base Mount Unit	Motor Frame Size	Cone Ring Output Coupling	Max Bore Coupling Driven Half
345	5.00	835	1.29	879	A 0 6 1 0 5 . 0 _ M _ - _ _ 5 . 0 4 A _	123.5	184TC	6 1 1 0 1 -	1.50
235	7.33	1201	1.04	829	7 . 5				
178	9.67	1549	0.93	784	1 0 .				
332	5.20	887	2.04	1429	A 0 7 3 0 5 . 0 _ M _ - _ _ 5 . 0 4 A _	152.2	184TC	6 1 1 0 2 -	1.65
238	7.25	1223	1.57	1391	7 . 5				
167	10.33	1708	1.16	1337	1 0 .				
138	12.50	2023	1.20	1303	1 3 .			6 1 1 0 3 -	1.89
119	14.50	2322	1.04	1270	1 5 .				
69	25.00	3672	0.87	1119	2 5 .				
357	4.83	829	3.54	2372	A 0 8 6 0 5 . 0 _ M _ - _ _ 5 . 0 4 A _	194.0	184TC	6 1 1 0 3 -	1.89
238	7.25	1228	2.38	2362	7 . 5				
178	9.67	1617	2.10	2352	1 0 .				
136	12.67	2089	1.67	2272	1 3 .				
119	14.50	2349	1.70	2227	1 5 .				
88	19.50	3065	1.16	2176	2 0 .				
69	25.00	3726	1.33	2075	2 5 .			6 1 1 0 4 -	2.36
58	30.00	4373	1.02	1753	3 0 .				
43	40.00	5565	0.81	1879	4 0 .				

7.50 HP

4 POLE

N2 R/MIN	i	lb in	Fm	lb	UNIT DESIGNATION	lb		SERIES X	inches
Output Speed	Ratio	Output Torque	Service Factor	Overhung Load	Column Entry [1] Through [20] Spaces to be filled when entering order	Weight of Base Mount Unit	Motor Frame Size	Cone Ring Output Coupling	Max Bore Coupling Driven Half
3357	4.83	1244	2.36	2366	A 0 8 6 0 5 . 0 _ M _ - _ _ 7 . 5 4 A _	242.0	213TC	6 1 1 0 3 -	1.89
238	7.25	1842	1.59	2350	7 . 5				
178	9.67	2425	1.40	2334	1 0 .				
136	12.67	3133	1.12	2202	1 3 .				
119	14.50	3524	1.14	2129	1 5 .				
69	25.00	5589	0.89	1883	2 5 .			6 1 1 0 4 -	2.36

10.0 HP

4 POLE

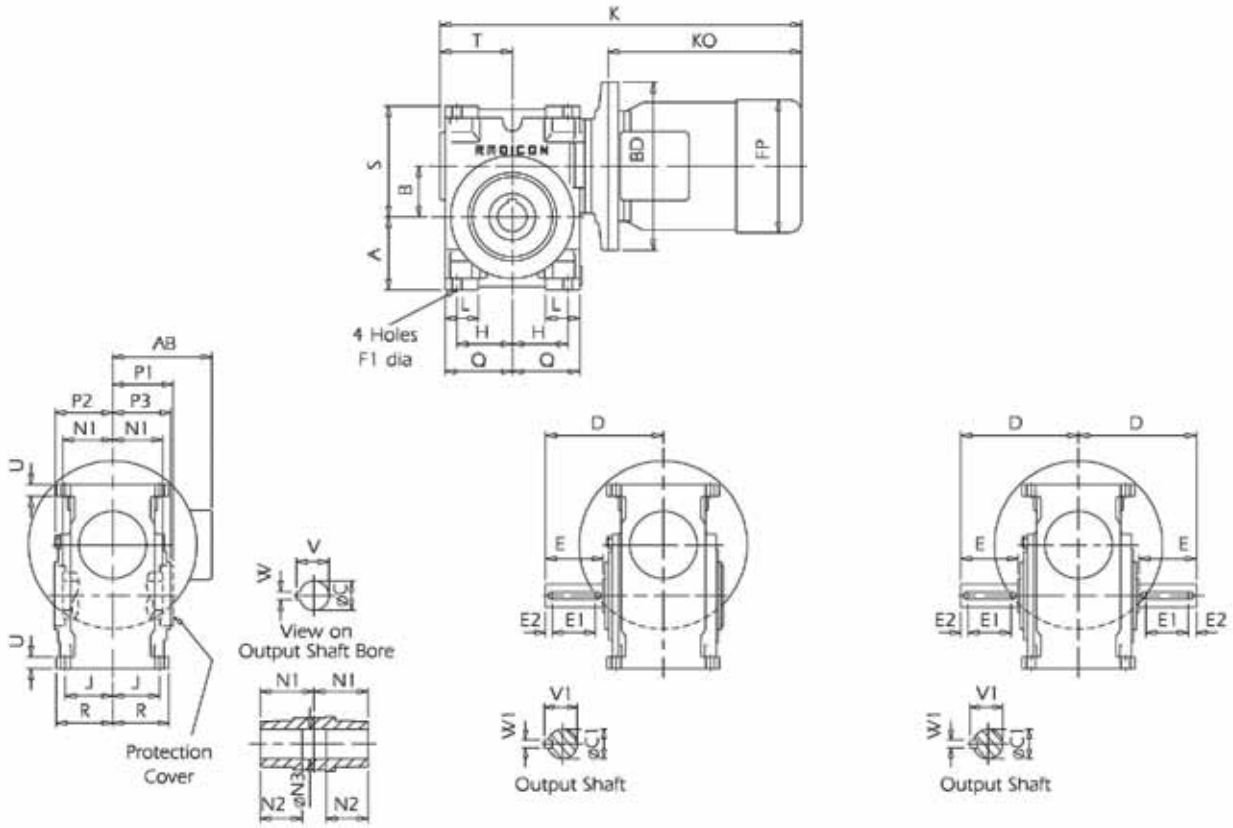
N2 R/MIN	i	lb in	Fm	lb	UNIT DESIGNATION	lb		SERIES X	inches
Output Speed	Ratio	Output Torque	Service Factor	Overhung Load	Column Entry [1] Through [20] Spaces to be filled when entering order	Weight of Base Mount Unit	Motor Frame Size	Cone Ring Output Coupling	Max Bore Coupling Driven Half
357	4.83	1658	1.77	2360	A 0 8 6 0 5 . 0 _ M _ - _ _ 1 0 . 4 A _	257.0	215TC	6 1 1 0 3 -	1.89
238	7.25	2457	1.19	2338	7 . 5				
178	9.67	3234	1.05	2315	1 0 .				
136	12.67	4178	0.84	2133	1 3 .			6 1 1 0 4 -	2.36
119	14.50	4699	0.85	2032	1 5 .				

NOTE

Other output speeds are available using 2 and 6 pole motors - Consult our application engineers

A	0			0				W	A

STANDARD UNIT



SIZE	A	B	ø C	øC1	D	E	E1	E2	F1	H	J	L	N1	N2
A0280	2.283	1.125	0.625	0.625	3.125	1.250	0.9375	0.16	0.35	2.067	1.635	1.18	1.575	1.26
A0410	2.598	1.625	0.750	0.750	3.875	1.625	1.3125	0.16	0.45	2.303	1.930	1.26	1.969	1.57
A0510	2.913	2.000	1.000	1.000	4.625	2.125	1.75	0.19	0.45	2.244	2.045	1.38	2.205	1.77
A0610	3.425	2.375	1.375	1.125	5.500	2.625	2.0	0.25	0.45	2.599	2.205	1.58	2.520	1.97
A0730	4.134	2.875	1.625	1.250	6.625	3.250	2.5	0.25	0.53	3.189	2.755	1.77	3.031	2.36
A0860	4.606	3.375	1.875	1.500	7.875	3.875	3.25	0.31	0.69	3.544	3.110	2.16	3.661	2.87

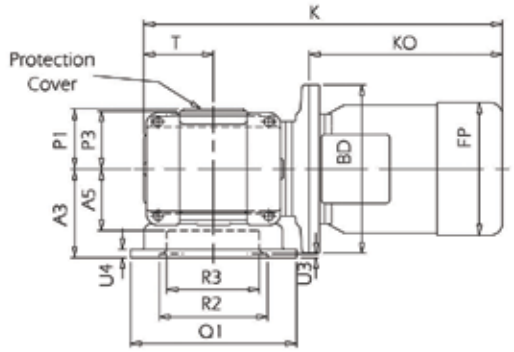
SIZE	øN3	P1	P2	P3	Q	R	S	T	U	V	V1	W	W1
A0280	0.635 0.630	1.89	1.77	1.73	2.42	1.99	3.189	2.09	0.35	0.715 0.709	0.707 0.699	0.1895 0.1875	0.190 0.188
A0410	0.760 0.755	2.28	2.16	2.16	2.72	2.36	3.976	2.44	0.39	0.843 0.837	0.834 0.826	0.1895 0.1875	0.190 0.188
A0510	1.010 1.005	2.48	2.40	2.40	2.64	2.44	4.409	2.96	0.47	1.120 1.114	1.110 1.102	0.2520 0.2500	0.252 0.250
A0610	1.385 1.380	2.84	2.64	2.72	3.15	2.64	5.197	3.39	0.55	1.524 1.518	1.238 1.230	0.3145 0.3125	0.252 0.250
A0730	1.635 1.630	3.42	3.19	3.31	3.74	3.31	6.024	4.06	0.63	1.802 1.796	1.364 1.356	0.3770 0.3750	0.252 0.250
A0860	1.885 1.880	4.09	3.82	3.90	4.25	3.82	7.008	4.57	0.71	2.102 2.096	1.666 1.658	0.5020 0.5000	0.377 0.375

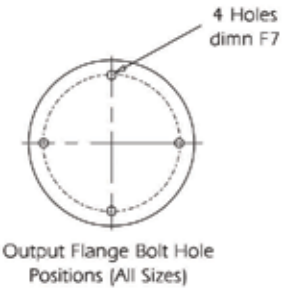
MOTORS		ALL SIZES				A0280	A0410	A0510	A0610	A0730	A0860
		KO	øBD	øFP	AB	K (max)	K (max)	K (max)	K (max)	K (max)	K (max)
MOTOR FRAME SIZE	56C	12.00	6.50	7.19	5.25	17.48	18.06	19.09	19.96		
	143/145TC	12.06	6.50	7.19	5.25		18.12	19.15	20.02	21.71	22.73
	182/184TC	15.44	9.00	8.50	5.88				23.95	25.29	26.55
	213/215TC	16.31	9.00	10.19	7.38						27.42

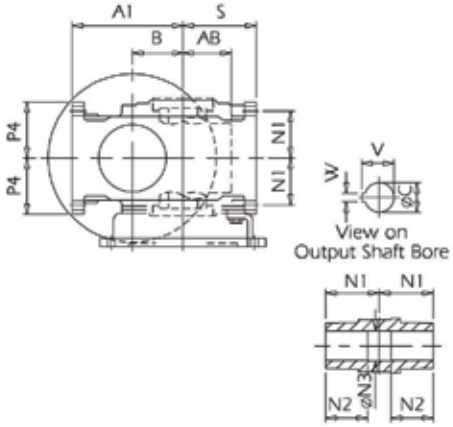
SERIES AJ
DIMENSIONS SINGLE REDUCTION

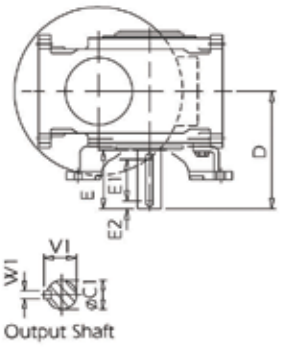
A	0			0				F	A

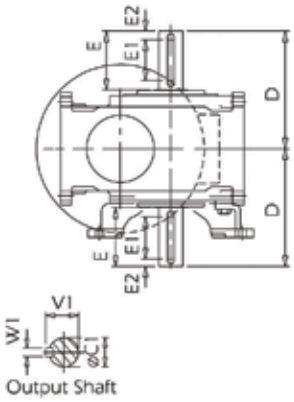
STANDARD UNIT FLANGE MOUNTED











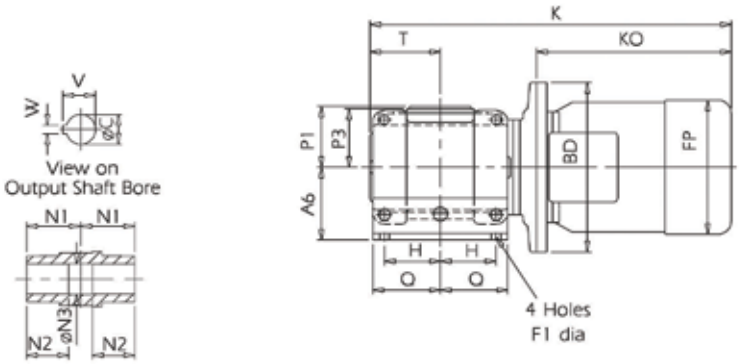
SIZE	A1	A3	A5	B	ø C	ø C1	D	E	E1	E2	F7	N1	N2	øN3
A0280	3.189	2.480	1.93	1.125	0.625	0.625	3.125	1.250	0.9375	0.16	ø0.26 on 3.937 pcd	1.575	1.26	0.635 0.630
A0410	3.976	3.150	2.36	1.625	0.750	0.750	3.875	1.625	1.3125	0.16	ø0.35 on 4.528 pcd	1.969	1.57	0.760 0.755
A0510	4.409	3.543	2.56	2.000	1.000	1.000	4.625	2.125	1.75	0.19	ø0.35 on 5.118 pcd	2.205	1.77	1.010 1.005
A0610	5.197	4.134	2.80	2.375	1.375	1.125	5.500	2.625	2.0	0.25	ø0.43 on 6.496 pcd	2.520	1.97	1.385 1.380
A0730	6.024	4.724	3.58	2.875	1.625	1.250	6.625	3.250	2.5	0.25	ø0.53 on 8.465 pcd	3.031	2.36	1.635 1.630
A0860	7.008	5.197	3.94	3.375	1.875	1.500	7.875	3.875	3.25	0.31	ø0.53 on 8.465 pcd	3.661	2.87	1.885 1.880

SIZE	P1	P3	P4	Q1	R2	R3	S	T	U3	U4	V	V1	W	W1
A0280	1.89	1.73	1.99	4.72	3.1508 3.1496	2.36	2.283	2.09	0.12	0.28	0.715 0.709	0.707 0.699	0.1895 0.1875	0.190 0.188
A0410	2.28	2.16	2.36	5.51	3.7415 3.7402	2.84	2.598	2.44	0.14	0.31	0.843 0.837	0.834 0.826	0.1895 0.1875	0.190 0.188
A0510	2.48	2.40	2.44	6.30	4.3321 4.3307	3.46	2.913	2.96	0.16	0.35	1.120 1.114	1.110 1.102	0.2520 0.2500	0.252 0.250
A0610	2.84	2.72	2.64	7.87	5.1197 5.1181	4.33	3.425	3.39	0.18	0.39	1.524 1.518	1.238 1.230	0.3145 0.3125	0.252 0.250
A0730	3.42	3.31	3.31	9.84	7.0882 7.0866	5.35	4.134	4.06	0.20	0.47	1.802 1.796	1.364 1.356	0.3770 0.3750	0.252 0.250
A0860	4.09	3.90	3.82	9.84	7.0882 7.0866	5.91	4.606	4.57	0.20	0.47	2.102 2.096	1.666 1.658	0.5020 0.5000	0.377 0.375

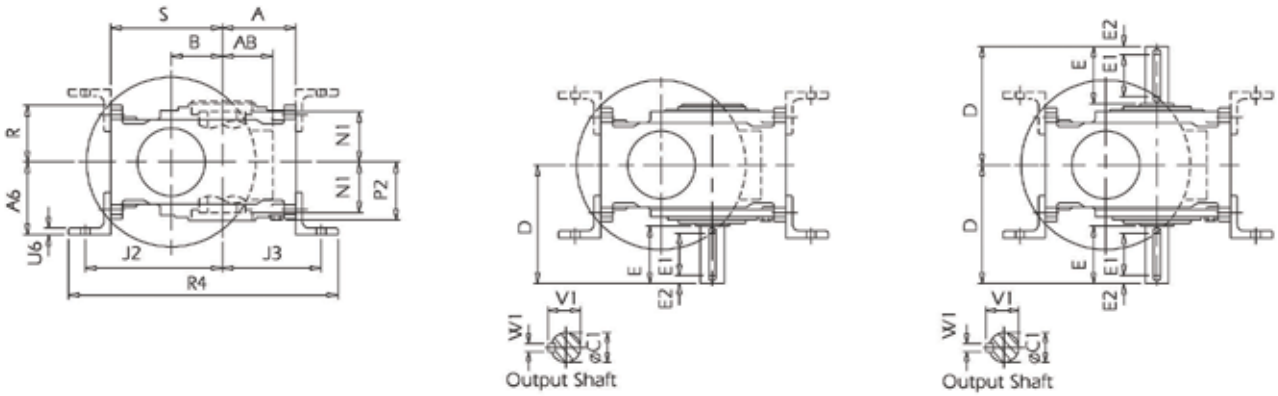
MOTORS		ALL SIZES				A0280	A0410	A0510	A0610	A0730	A0860
		KO	øBD	øFP	AB	K (max)	K (max)	K (max)	K (max)	K (max)	K (max)
MOTOR FRAME SIZE	56C	12.00	6.50	7.19	5.25	17.48	18.06	19.09	19.96		
	143/145TC	12.06	6.50	7.19	5.25		18.12	19.15	20.02	21.71	22.73
	182/184TC	15.44	9.00	8.50	5.88				23.95	25.29	26.55
	213/215TC	16.31	9.00	10.19	7.38						27.42

A	0			0				G	A

STANDARD UNIT SIDE MOUNTED FEET



Feet can be fitted on either side of the gearcase as shown by the dotted line



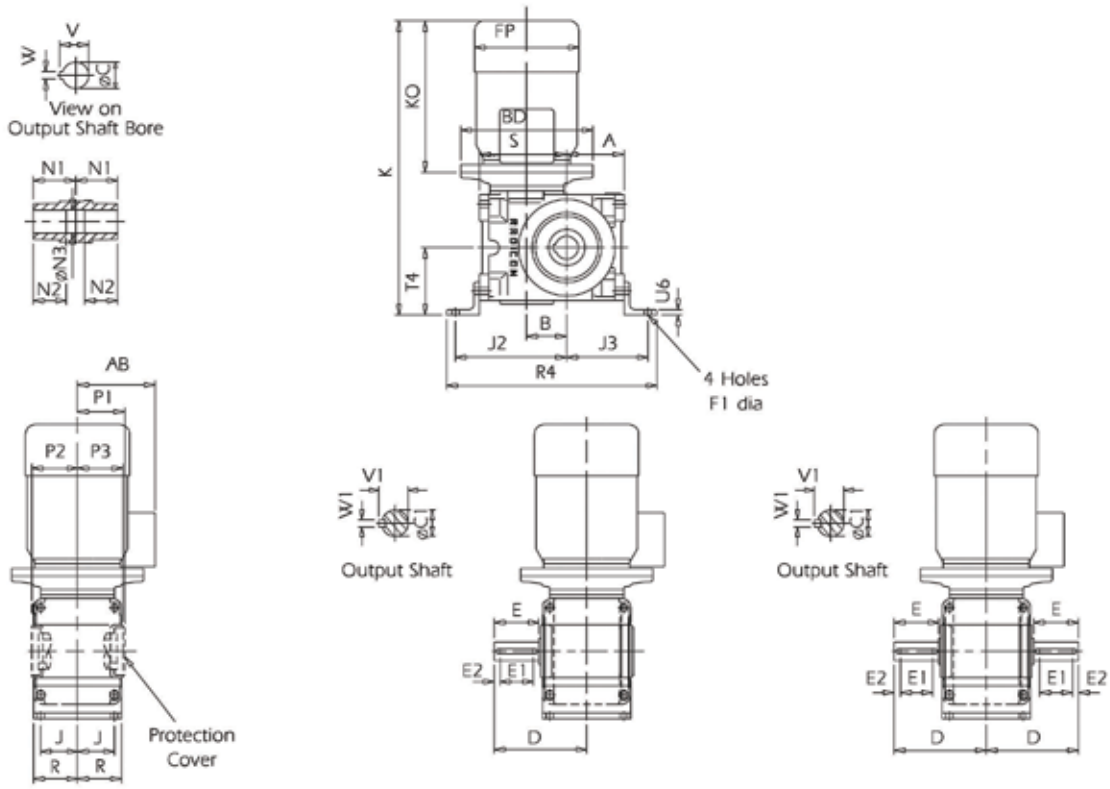
SIZE	A	A6	B	ø C	ø C1	D	E	E1	E2	F1	H	J2	J3	N1
A0280	2.283	2.441	1.125	0.625	0.625	3.125	1.250	0.9375	0.16	0.35	2.067	4.00	3.09	1.575
A0410	2.598	2.953	1.625	0.750	0.750	3.875	1.625	1.3125	0.16	0.45	2.303	5.00	3.62	1.969
A0510	2.913	3.071	2.000	1.000	1.000	4.625	2.125	1.75	0.19	0.45	2.244	5.43	3.94	2.205
A0610	3.425	3.386	2.375	1.375	1.125	5.500	2.625	2.0	0.25	0.45	2.599	6.38	4.61	2.520
A0730	4.134	4.055	2.875	1.625	1.250	6.625	3.250	2.5	0.25	0.53	3.189	7.32	5.43	3.031
A0860	4.606	4.646	3.375	1.875	1.500	7.875	3.875	3.25	0.31	0.69	3.544	8.54	6.14	3.661

SIZE	N2	øN3	P1	P2	P3	R	R4	S	T	U6	V	V1	W	W1
A0280	1.26	0.635 0.630	1.89	1.77	1.73	1.99	7.84	3.189	2.09	0.20	0.715 0.709	0.707 0.699	0.1895 0.1875	0.190 0.188
A0410	1.57	0.760 0.755	2.28	2.16	2.16	2.36	9.72	3.976	2.44	0.24	0.843 0.837	0.834 0.826	0.1895 0.1875	0.190 0.188
A0510	1.77	1.010 1.005	2.48	2.40	2.40	2.44	10.47	4.409	2.96	0.24	1.120 1.114	1.110 1.102	0.2520 0.2500	0.252 0.250
A0610	1.97	1.385 1.380	2.84	2.64	2.72	2.64	12.56	5.197	3.39	0.31	1.524 1.518	1.238 1.230	0.3145 0.3125	0.252 0.250
A0730	2.36	1.635 1.630	3.42	3.19	3.31	3.31	14.09	6.024	4.06	0.31	1.802 1.796	1.364 1.356	0.3770 0.3750	0.252 0.250
A0860	2.87	1.885 1.880	4.09	3.82	3.90	3.82	16.34	7.008	4.57	0.39	2.102 2.096	1.666 1.658	0.5020 0.5000	0.377 0.375

MOTORS		ALL SIZES				A0280	A0410	A0510	A0610	A0730	A0860
		KO	øBD	øFP	AB	K (max)	K (max)	K (max)	K (max)	K (max)	K (max)
MOTOR FRAME SIZE	56C	12.00	6.50	7.19	5.25	17.48	18.06	19.09	19.96		
	143/145TC	12.06	6.50	7.19	5.25		18.12	19.15	20.02	21.71	22.73
	182/184TC	15.44	9.00	8.50	5.88				23.95	25.29	26.55
	213/215TC	16.31	9.00	10.19	7.38						27.42

A	0			0				H	A

STANDARD UNIT END MOUNTED FEET



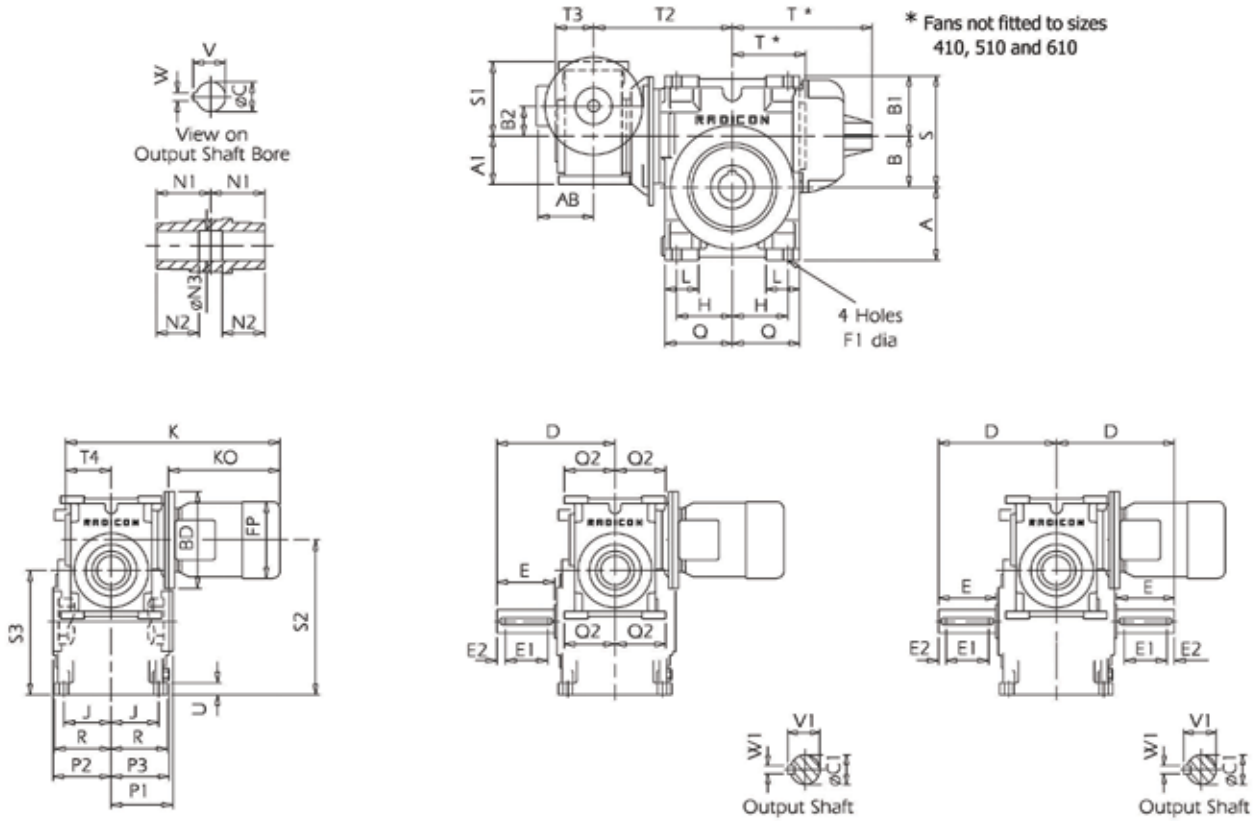
SIZE	A	B	ø C	ø C1	D	E	E1	E2	F1	J	J2	J3	N1	N2
A0280	2.283	1.125	0.625	0.625	3.125	1.250	0.9375	0.16	0.35	1.635	4.00	3.09	1.575	1.26
A0410	2.598	1.625	0.750	0.750	3.875	1.625	1.3125	0.16	0.45	1.930	5.00	3.62	1.969	1.57
A0510	2.913	2.000	1.000	1.000	4.625	2.125	1.75	0.19	0.45	2.045	5.43	3.94	2.205	1.77
A0610	3.425	2.375	1.375	1.125	5.500	2.625	2.0	0.25	0.45	2.205	6.38	4.61	2.520	1.97
A0730	4.134	2.875	1.625	1.250	6.625	3.250	2.5	0.25	0.53	2.755	7.32	5.43	3.031	2.36
A0860	4.606	3.375	1.875	1.500	7.875	3.875	3.25	0.31	0.69	3.110	8.54	6.14	3.661	2.87

SIZE	øN3	P1	P2	P3	R	R4	S	T4	U6	V	V1	W	W1
A0280	0.635 0.630	1.89	1.77	1.73	1.99	7.84	3.189	2.874	0.20	0.715 0.709	0.707 0.699	0.1895 0.1875	0.190 0.188
A0410	0.760 0.755	2.28	2.16	2.16	2.36	9.72	3.976	3.327	0.24	0.843 0.837	0.834 0.826	0.1895 0.1875	0.190 0.188
A0510	1.010 1.005	2.48	2.40	2.40	2.44	10.47	4.409	3.268	0.24	1.120 1.114	1.110 1.102	0.2520 0.2500	0.252 0.250
A0610	1.385 1.380	2.84	2.64	2.72	2.64	12.56	5.197	3.780	0.31	1.524 1.518	1.238 1.230	0.3145 0.3125	0.252 0.250
A0730	1.635 1.630	3.42	3.19	3.31	3.31	14.09	6.024	4.488	0.31	1.802 1.796	1.364 1.356	0.3770 0.3750	0.252 0.250
A0860	1.885 1.880	4.09	3.82	3.90	3.82	16.34	7.008	5.079	0.39	2.102 2.096	1.666 1.658	0.5020 0.5000	0.377 0.375

MOTORS		ALL SIZES				A0280	A0410	A0510	A0610	A0730	A0860
		KO	øBD	øFP	AB	K (max)	K (max)	K (max)	K (max)	K (max)	K (max)
MOTOR FRAME SIZE	56C	12.00	6.50	7.19	5.25	17.48	18.06	19.09	19.96		
	143/145TC	12.06	6.50	7.19	5.25		18.12	19.15	20.02	21.71	22.73
	182/184TC	15.44	9.00	8.50	5.88				23.95	25.29	26.55
	213/215TC	16.31	9.00	10.19	7.38						27.42

A	0			0				W	B

STANDARD UNIT



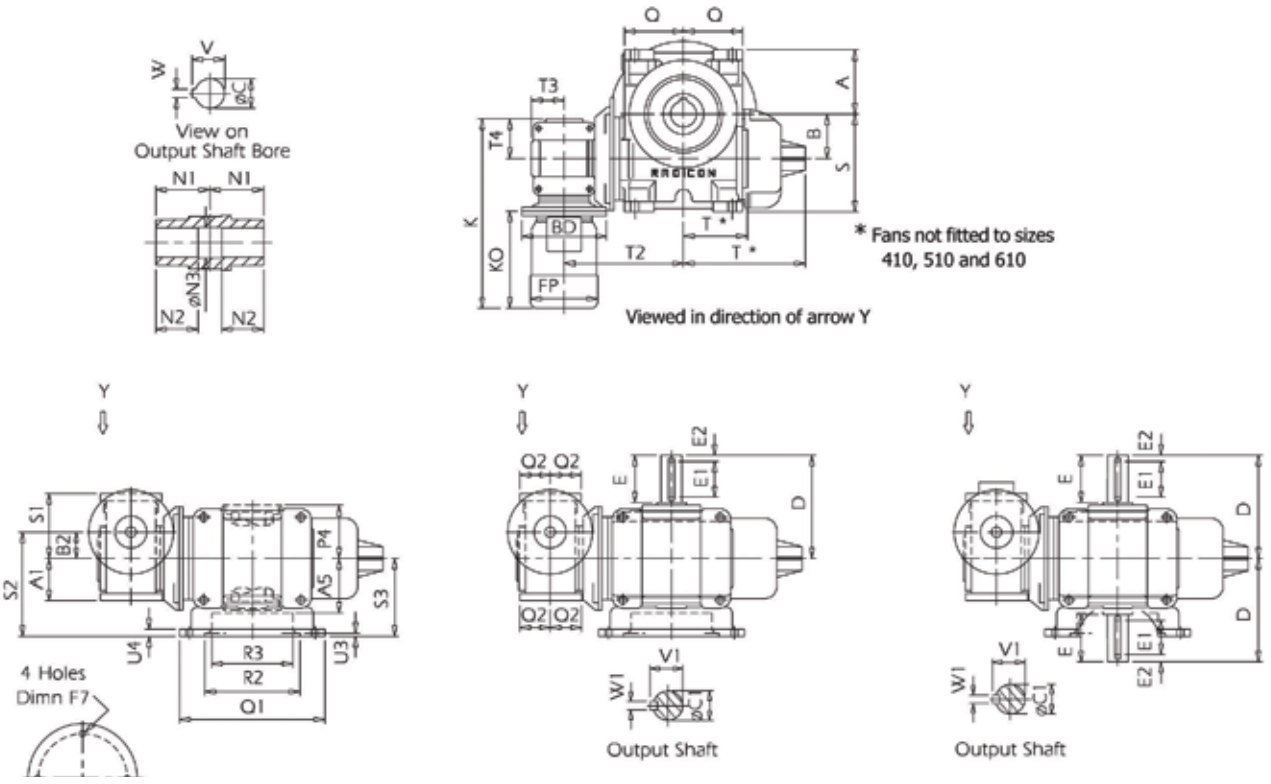
SIZE	A	A1	B	B1	B2	øC	øC1	D	E	E1	E2	F1	H	J	L	N1	N2	øN3	P1
A0410	2.598	2.283	1.625	2.350	1.125	0.750	0.750	3.875	1.625	1.3125	0.16	0.45	2.303	1.930	1.26	1.969	1.57	0.760 0.755	2.28
A0510	2.913	2.283	2.000	2.409	1.125	1.000	1.000	4.625	2.125	1.75	0.19	0.45	2.244	2.045	1.38	2.205	1.77	1.010 1.005	2.48
A0610	3.425	2.598	2.375	2.823	1.625	1.375	1.125	5.500	2.625	2.0	0.25	0.45	2.599	2.205	1.58	2.520	1.97	1.385 1.380	2.84
A0730	4.134	2.598	2.875	3.150	1.625	1.625	1.250	6.625	3.250	2.5	0.25	0.53	3.189	2.755	1.77	3.031	2.36	1.635 1.630	3.42
A0860	4.606	2.913	3.375	3.634	2.000	1.875	1.500	7.875	3.875	3.25	0.31	0.69	3.544	3.110	2.16	3.661	2.87	1.885 1.880	4.09

SIZE	P2	P3	Q	Q2	R	S	S1	S2	S3	T	T2	T3	T4	U	V	V1	W	W1
A0410	2.16	2.16	2.72	2.42	2.36	3.976	3.189	2.283	4.225	2.44	4.961	1.89	2.09	0.39	0.843 0.837	0.834 0.826	0.1895 0.1875	0.190 0.188
A0510	2.40	2.40	2.64	2.42	2.44	4.409	3.189	2.283	4.914	2.96	5.630	1.89	2.09	0.47	1.120 1.114	1.110 1.102	0.2520 0.2500	0.252 0.250
A0610	2.64	2.72	3.15	2.72	2.64	5.197	3.976	2.598	5.800	3.39	6.732	2.28	2.44	0.55	1.524 1.518	1.238 1.230	0.3145 0.3125	0.252 0.250
A0730	3.19	3.31	3.74	2.72	3.31	6.024	3.976	2.598	7.009	7.76	7.559	2.28	2.44	0.63	1.802 1.796	1.364 1.356	0.3770 0.3750	0.252 0.250
A0860	3.82	3.90	4.25	2.64	3.82	7.008	4.409	2.913	7.980	8.94	8.189	2.48	2.96	0.71	2.102 2.096	1.666 1.658	0.5020 0.5000	0.377 0.375

MOTORS		ALL SIZES				A0410	A0510	A0610	A0730	A0860
		KO	øBD	FP	AB	K (max)	K (max)	K (max)	K (max)	K (max)
MOTOR FRAME SIZE	56C	12.00	6.50	7.19	5.25	17.48	17.48	18.06	18.06	19.09
	143/145TC	12.06	6.50	7.19	5.25			18.12	18.12	19.15

A	0			0				F	B

STANDARD UNIT FLANGE MOUNTED



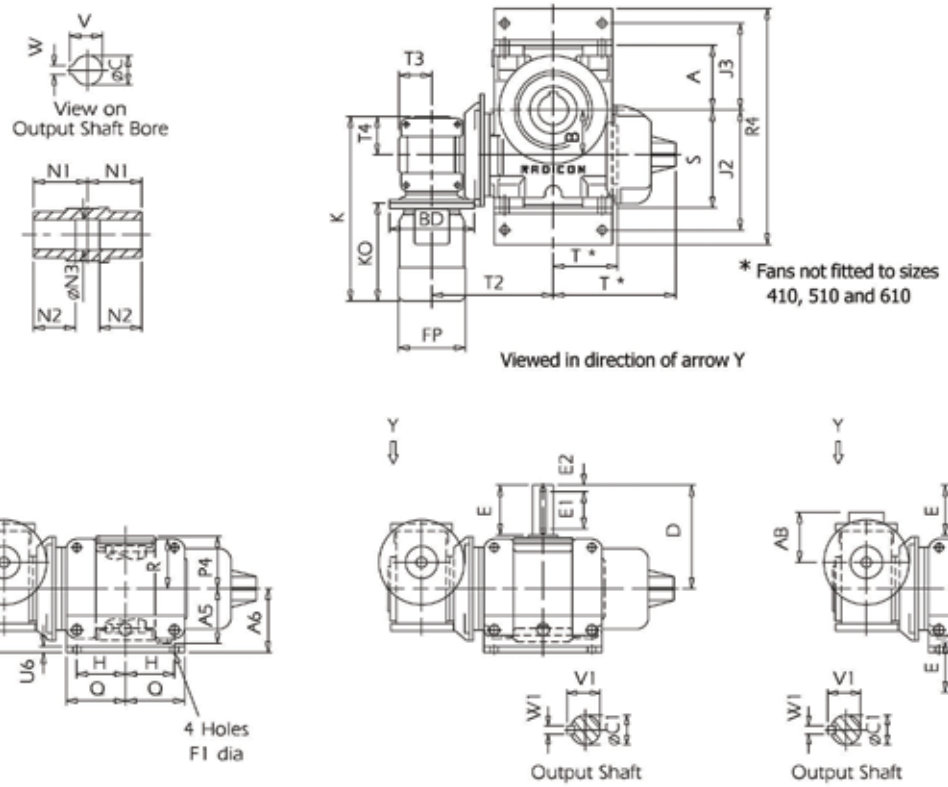
SIZE	A	A1	A5	B	B2	øC	øC1	D	E	E1	E2	F7	N1	N2	øN3	P4	Q	Q1
A0410	2.598	2.283	2.36	1.625	1.125	0.750	0.750	3.875	1.625	1.3125	0.16	0.35 on 4.528 pcd	1.969	1.57	0.760 0.755	2.16	2.72	5.51
A0510	2.913	2.283	2.56	2.000	1.125	1.000	1.000	4.625	2.125	1.75	0.19	ø0.35 on 5.118 pcd	2.205	1.77	1.010 1.005	2.40	2.64	6.30
A0610	3.425	2.598	2.80	2.375	1.625	1.375	1.125	5.500	2.625	2.0	0.25	ø 0.43 on 6.496 pcd	2.520	1.97	1.385 1.380	2.64	3.15	7.87
A0730	4.134	2.598	3.58	2.875	1.625	1.625	1.250	6.625	3.250	2.5	0.25	ø 0.53 on 8.465 pcd	3.031	2.36	1.635 1.630	3.19	3.74	9.84
A0860	4.606	2.913	3.94	3.375	2.000	1.875	1.500	7.875	3.875	3.25	0.31	ø0.53 on 8.465 pcd	3.661	2.87	1.885 1.880	3.82	4.25	9.84

SIZE	Q2	R2	R3	S	S1	S2	S3	T	T2	T3	T4	U3	U4	V	V1	W	W1
A0410	2.72	3.7415 3.7402	2.84	3.976	3.189	4.276	3.150	2.44	4.961	1.89	2.09	0.14	0.31	0.843 0.837	0.834 0.826	0.1895 0.1875	0.190 0.188
A0510	2.64	4.3321 4.3307	3.46	4.409	3.189	4.669	3.543	2.96	5.630	1.89	2.09	0.16	0.35	1.120 1.114	1.110 1.102	0.2520 0.2500	0.252 0.250
A0610	3.15	5.1197 5.1181	4.33	5.197	3.976	5.760	4.134	3.39	6.732	2.28	2.44	0.18	0.39	1.524 1.518	1.238 1.230	0.3145 0.3125	0.252 0.250
A0730	3.74	7.0882 7.0866	5.35	6.024	3.976	6.350	4.724	7.76	7.559	2.28	2.44	0.20	0.47	1.802 1.796	1.364 1.356	0.3770 0.3750	0.252 0.250
A0860	4.25	7.0882 7.0866	5.91	7.008	4.409	7.197	5.197	8.94	8.189	2.48	2.96	0.20	0.47	2.102 2.096	1.666 1.658	0.5020 0.5000	0.377 0.375

MOTORS		ALL SIZES				A0410	A0510	A0610	A0730	A0860
		KO	øBD	FP	AB	K (max)	K (max)	K (max)	K (max)	K (max)
MOTOR FRAME SIZE	56C	12.00	6.50	7.19	5.25	17.48	17.48	18.06	18.06	19.09
	143/145TC	12.06	6.50	7.19	5.25			18.12	18.12	19.15

A	0			0				G	B

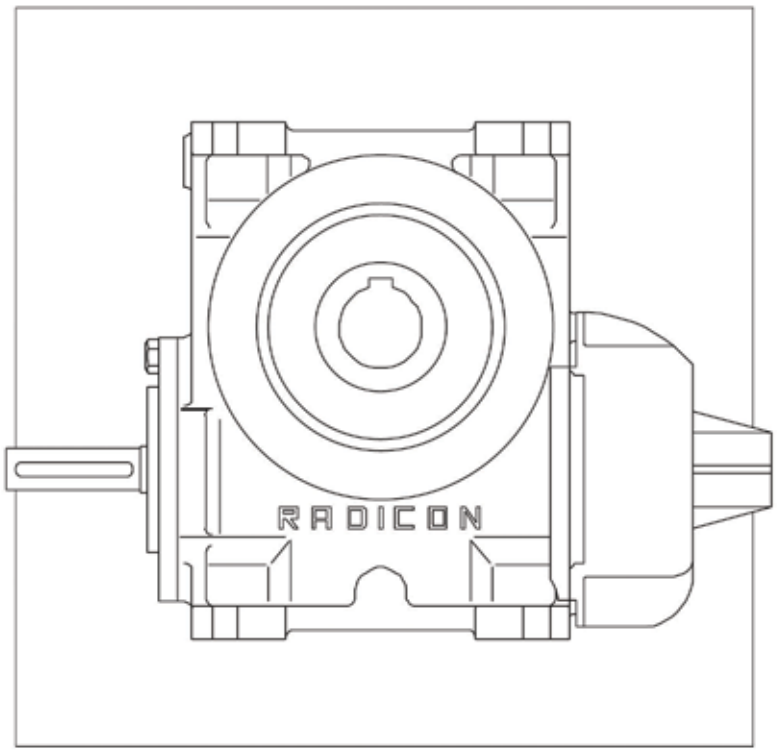
STANDARD UNIT SIDE MOUNTED FEET



SIZE	A	A1	A5	A6	B	B2	øC	øC1	D	E	E1	E2	F1	H	J2	J3	N1	N2
A0410	2.598	2.283	2.16	2.953	1.625	1.125	0.750	0.750	3.875	1.625	1.3125	0.16	0.45	2.303	5.00	3.62	1.969	1.57
A0510	2.913	2.283	2.40	3.071	2.000	1.125	1.000	1.000	4.625	2.125	1.75	0.19	0.45	2.244	5.43	3.94	2.205	1.77
A0610	3.425	2.598	2.64	3.386	2.375	1.625	1.375	1.125	5.500	2.625	2.0	0.25	0.45	2.599	6.38	4.61	2.520	1.97
A0730	4.134	2.598	3.19	4.055	2.875	1.625	1.625	1.250	6.625	3.250	2.5	0.25	0.53	3.189	7.32	5.43	3.031	2.36
A0860	4.606	2.913	3.82	4.646	3.375	2.000	1.875	1.500	7.875	3.875	3.25	0.31	0.69	3.544	8.54	6.14	3.661	2.87

SIZE	øN3	P4	Q	R	S	S1	S2	T	T2	T3	T4	U6	V	V1	W	W1
A0410	0.760 0.755	2.16	2.72	2.36	3.976	3.189	2.283	2.44	4.961	1.89	2.09	0.24	0.843 0.837	0.834 0.826	0.1895 0.1875	0.190 0.188
A0510	1.010 1.005	2.40	2.64	2.44	4.409	3.189	2.283	2.96	5.630	1.89	2.09	0.24	1.120 1.114	1.110 1.102	0.2520 0.2500	0.252 0.250
A0610	1.385 1.380	2.72	3.15	2.64	5.197	3.976	2.598	3.39	6.732	2.28	2.44	0.31	1.524 1.518	1.238 1.230	0.3145 0.3125	0.252 0.250
A0730	1.635 1.630	3.31	3.74	3.31	6.024	3.976	2.598	7.76	7.559	2.28	2.44	0.31	1.802 1.796	1.364 1.356	0.3770 0.3750	0.252 0.250
A0860	1.885 1.880	3.90	4.25	3.82	7.008	4.409	2.913	8.94	8.189	2.48	2.96	0.39	2.102 2.096	1.666 1.658	0.5020 0.5000	0.377 0.375

MOTORS		ALL SIZES				A0410	A0510	A0610	A0730	A0860
		KO	øBD	FP	AB	K (max)	K (max)	K (max)	K (max)	K (max)
MOTOR FRAME SIZE	56C	12.00	6.50	7.19	5.25	17.48	17.48	18.06	18.06	19.09
	143/145TC	12.06	6.50	7.19	5.25			18.12	18.12	19.15



REDUCER

OVERHUNG LOADS (lbs) 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 supported 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 unfavour- able 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 application engineering 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 (lbs)

$$P = \frac{HP \times 126{,}000 \times K}{N \times D}$$

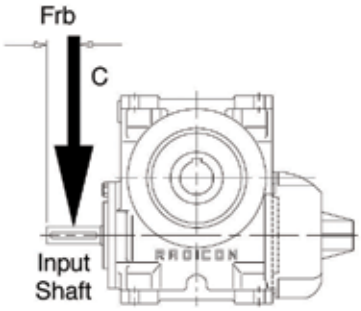
where

P = equivalent overhung load (lb)
H P = power transmitted by the shaft (HP)
N = speed of shaft (rpm)
D = pitch diameter of sprocket, etc. (in)
K = factor

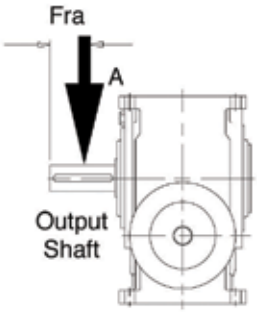
Overhung member	K (factor)
Chain sprocket*	1.00
Spur or helical pinion	1.25
Vee belt sheave	1.50
Flat belt pulley	2.00

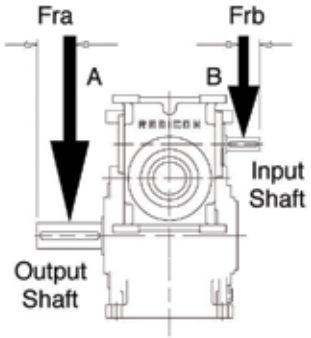
* If multistrand chain drives are equally loaded and the outer stand is further than dimension A output or B input, refer to application engineering.

Note: 1 lb = 2.2047 kg = 4.4484 Newtons.



Single reduction (worm)





Double reduction (worm/worm)

Distance midway along the shaft extension

Size of unit	Dimension A (inches)	Dimension B (inches)	Dimension C (inches)
A0280	0.625	-	0.5625
A0410	0.8125	0.5625	0.8125
A0510	1.0625	0.5625	0.9375
A0610	1.3125	0.8125	1.125
A0730	1.625	0.8125	1.375
A0860	1.9375	0.9375	1.625

OVERHUNG LOADS & AXIAL THRUSTS (POUNDS)

OVERHUNG LOAD OUTPUT SHAFT (POUNDS)

Input Shaft (rev/min)	Nominal Ratio	Nominal Output Speed (rev/min)	Size of Unit					
			A0280	A0410	A0510	A0610	A0730	A0860
1750	5.0	350	252	383	876	815	1300	2330
	7.5	233.33	250	376	878	820	1300	2330
	10.	175	249	341	822	798	1280	2310
	12.5	140	247	323	815	775	1220	2170
	15.	116.67	246	309	866	768	1230	2110
	20.	87.50	234	348	817	770	1250	2160
	25.	70	229	291	812	756	1140	1960
	30	58.33	235	220	793	747	1220	2020
	40	43.75	251	338	850	760	1230	2010
	50	35	253	378	878	829	1280	2170
	60	29.17	254	384	884	871	1340	2330
	70	25	255	386	889	899	1380	2340
1160	5.0	232	251	377	846	783	1250	2310
	7.5	154.67	249	355	851	783	1250	2210
	10.	116	232	325	804	760	1250	2160
	12.5	92.80	231	293	787	749	1190	2130
	15.	77.33	234	152	848	741	1190	2020
	20.	58	227	338	763	728	1220	2120
	25	46.40	221	-	735	684	934	1810
	30	38.67	232	-	758	679	1180	1920
	40	29	251	330	810	745	1190	1900
	50	23.20	253	362	876	819	1260	2140
	60	19.33	254	383	883	864	1330	2320
	70	16.57	255	386	888	893	1380	2340

OVERHUNG LOAD INPUT SHAFT (POUNDS)

Input Shaft (rev/min)	Nominal Ratio	Nominal Output Speed (rev/min)	Size of Unit					
			A0280	A0410	A0510	A0610	A0730	A0860
1750	5.0	350	23.1	125	39.6	40.7	195	80.6
	7.5	233.33	38.8	110	103	100	103	170
	10.	175	39.2	67.4	93.9	84.8	60.9	152
	12.5	140	74	97.4	88.8	85.3	99.1	54.0
	15.	116.67	40	94.3	45.5	67.1	82.4	101
	20.	87.50	89.7	41.9	161	149	43.4	61.1
	25.	70	65.5	82.9	143	142	140	206
	30	58.33	60.2	64.9	64.9	114	85.5	131
	40	43.75	103	69.9	41.2	78.5	50.1	88.3
	50	35	104	59.8	82.9	105	52.3	93.8
	60	29.17	104	122	76.6	97.7	122	136
	70	25	104	80.5	69.7	140	173	226
1160	5.0	232	6.9	104	0.2	0.1	134	8.1
	7.5	154.67	24.1	90.3	75.6	66.1	49.2	101
	10.	116	24.6	54	75	50.4	30.1	89
	12.5	92.80	58.7	75.2	59.2	63.1	67.1	11.8
	15.	77.33	32.1	69.8	29	42.3	50.8	57.7
	20.	58	73.6	32.7	120	110	11.9	19.4
	25	46.40	48.4	63.4	97.6	89	99.6	138
	30	38.67	52	51.2	40.4	59.2	51.5	83.3
	40	29	102	60.8	21.9	60.7	14.3	37
	50	23.20	103	53.5	73.4	92.5	35.7	70.1
	60	19.33	104	117	70	88.2	109	117
	70	16.57	104	77.1	64.8	133	163	212

AXIAL THRUST OUTPUT SHAFT (POUNDS)

Input Shaft (rev/min)	Nominal Ratio	Nominal Output Speed (rev/min)	Size of Unit					
			A0280	A0410	A0510	A0610	A0730	A0860
1750	5.0	350	690	845	1110	1010	1670	1500
	7.5	233.33	707	868	1110	1010	1670	1920
	10.	175	709	852	1050	984	1640	1960
	12.5	140	722	853	1050	956	1570	1980
	15.	116.67	724	849	1100	947	1580	1990
	20.	87.50	734	924	1050	949	1610	2130
	25.	70	729	884	1040	932	1470	2020
	30	58.33	743	873	1020	920	1570	2090
	40	43.75	784	943	1080	937	1580	2090
	50	35	805	993	1130	1020	1640	2240
	60	29.17	818	1020	1170	1070	1720	2360
	70	25	828	1040	1200	1110	1780	2440
1160	5.0	232	654	787	1070	965	1600	1310
	7.5	154.67	677	818	1080	966	1610	1750
	10.	116	681	818	1020	936	1600	1810
	12.5	92.80	697	804	1000	923	1530	1890
	15.	77.33	712	800	1070	913	1530	1890
	20.	58	714	907	987	898	1570	2060
	25	46.40	708	855	966	843	1410	1900
	30	38.67	735	857	989	837	1520	2010
	40	29	780	934	1050	919	1540	2020
	50	23.20	802	987	1120	1010	1620	2210
	60	19.33	816	1020	1170	1070	1710	2340
	70	16.57	826	1040	1200	1100	1770	2420

AXIAL THRUST INPUT SHAFT (POUNDS)

Input Shaft (rev/min)	Nominal Ratio	Nominal Output Speed (rev/min)	Size of Unit					
			A0280	A0410	A0510	A0610	A0730	A0860
1750	5.0	350	258	873	319	785	1350	1440
	7.5	233.33	217	819	340	851	1370	1640
	10.	175	154	707	439	804	1310	1530
	12.5	140	140	641	419	684	1080	1480
	15.	116.67	146	599	391	651	1130	1250
	20.	87.50	89.5	759	402	624	1240	1460
	25.	70	71.8	545	370	595	731	907
	30	58.33	114	511	319	548	1040	1090
	40	43.75	231	703	517	622	1110	1120
	50	35	289	836	378	910	1330	1530
	60	29.17	327	908	797	1090	1570	1880
	70	25	351	961	883	1190	1750	2080
1160	5.0	232	256	815	301	790	1420	1480
	7.5	154.67	212	754	341	832	1440	1570
	10.	116	143	655	460	760	1470	1420
	12.5	92.80	129	554	391	682	1210	1450
	15.	77.33	167	502	331	642	1270	1190
	20.	58	75.8	730	298	553	1390	1400
	25	46.40	57.6	471	261	407	829	714
	30	38.67	139	474	333	377	1170	1000
	40	29	267	684	559	658	1250	1030
	50	23.20	330	826	770	958	1580	1560
	60	19.33	369	905	899	1140	1840	1910
	70	16.57	397	961	991	1260	2010	2130

SERIES AJ
RATINGS AT
3500 REV / MIN INPUT

SINGLE REDUCTION

NOMINAL RATIO	NOMINAL OUTPUT SPEED REV / MIN	CAPACITY	SIZE OF UNIT					
			A0280	A0410	A0510	A0610	A0730	A0860
5.0	700.00	Input Power HP (mechanical)	1.45	3.29	6.95	10.40	14.90	25.70
		Input Power HP (thermal)	3.46	4.46	7.87	10.80	30.00	39.10
		Output Power HP (mechanical)	1.27	2.88	6.33	9.56	13.90	24.10
		Output Torque lb.in (mech.)	120	272	547	860	1300	2100
		Efficiency %	88	87	91	92	93	94
7.5	466.67	Input Power HP (mechanical)	1.33	2.94	4.99	7.66	11.60	17.60
		Input Power HP (thermal)	2.73	3.64	6.08	8.74	26.30	32.80
		Output Power HP (mechanical)	1.13	2.52	4.40	6.86	10.70	16.20
		Output Torque lb.in (mech.)	149	332	581	906	1390	2120
		Efficiency %	85	86	88	90	92	92
10.0	350.00	Input Power HP (mechanical)	1.22	2.94	5.08	6.88	9.81	15.70
		Input Power HP (thermal)	2.06	2.94	4.63	7.50	22.00	27.60
		Output Power HP (mechanical)	1.00	2.46	4.37	6.09	8.82	14.30
		Output Torque lb.in (mech.)	188	464	825	1060	1640	2480
		Efficiency %	82	84	86	89	90	91
12.5	280.00	Input Power HP (mechanical)	1.11	2.73	4.51	6.94	10.60	14.30
		Input Power HP (thermal)	1.72	2.50	4.14	5.94	17.40	25.00
		Output Power HP (mechanical)	0.86	2.22	3.80	5.96	9.38	12.90
		Output Torque lb.in (mech.)	194	499	855	1340	2110	2950
		Efficiency %	78	81	84	85	88	90
15.0	233.33	Input Power HP (mechanical)	1.01	2.63	3.55	6.11	9.45	14.30
		Input Power HP (thermal)	1.72	2.29	4.12	5.34	16.40	20.50
		Output Power HP (mechanical)	0.79	2.10	2.94	5.15	8.31	12.70
		Output Torque lb.in (mech.)	206	549	768	1390	2170	3320
		Efficiency %	78	79	83	84	88	89
20.0	175.00	Input Power HP (mechanical)	0.89	1.76	3.86	5.21	6.87	10.30
		Input Power HP (thermal)	1.15	2.20	2.62	3.75	13.90	17.40
		Output Power HP (mechanical)	0.61	1.34	2.97	4.14	5.84	8.86
		Output Torque lb.in (mech.)	219	471	1070	1490	2050	3110
		Efficiency %	69	76	74	77	85	86
25.0	140.00	Input Power HP (mechanical)	0.80	2.00	3.25	5.05	7.23	10.30
		Input Power HP (thermal)	1.06	1.54	2.38	3.36	9.44	11.70
		Output Power HP (mechanical)	0.53	1.42	2.42	3.89	5.84	8.42
		Output Torque lb.in (mech.)	237	638	1090	1750	2630	3790
		Efficiency %	66	69	72	74	81	82
30.0	116.67	Input Power HP (mechanical)	0.66	1.77	2.71	4.13	5.47	8.91
		Input Power HP (thermal)	1.00	1.42	2.27	3.06	8.92	11.10
		Output Power HP (mechanical)	0.42	1.20	1.94	3.06	4.30	7.17
		Output Torque lb.in (mech.)	225	649	1050	1650	2320	3870
		Efficiency %	63	66	70	71	79	80
40.0	87.50	Input Power HP (mechanical)	0.43	1.22	1.83	3.08	4.20	6.82
		Input Power HP (thermal)	0.82	1.29	2.09	2.72	7.71	9.63
		Output Power HP (mechanical)	0.22	0.76	1.22	2.14	3.13	5.24
		Output Torque lb.in (mech.)	161	545	878	1540	2250	3770
		Efficiency %	52	62	67	68	74	77
50.0	70.00	Input Power HP (mechanical)	0.31	0.81	1.36	2.14	3.29	5.06
		Input Power HP (thermal)	0.63	0.96	1.46	1.95	5.68	6.82
		Output Power HP (mechanical)	0.14	0.45	0.82	1.36	2.33	3.67
		Output Torque lb.in (mech.)	130	402	735	1220	2100	3300
		Efficiency %	47	55	60	63	71	72
60.0	58.33	Input Power HP (mechanical)	0.24	0.62	0.98	1.51	2.36	3.53
		Input Power HP (thermal)	0.53	0.76	1.26	1.69	4.56	5.65
		Output Power HP (mechanical)	0.09	0.29	0.53	0.88	1.53	2.38
		Output Torque lb.in (mech.)	100	313	575	949	1650	2570
		Efficiency %	39	46	54	58	65	67
70.0	50.00	Input Power HP (mechanical)	0.19	0.49	0.74	1.18	1.77	2.72
		Input Power HP (thermal)	0.43	0.64	1.02	1.30	3.47	4.29
		Output Power HP (mechanical)	0.06	0.21	0.36	0.61	1.03	1.68
		Output Torque lb.in (mech.)	80	258	454	774	1300	2120
		Efficiency %	34	42	49	52	58	62

SERIES AJ
RATINGS AT
3500 REV / MIN INPUT

DOUBLE REDUCTION

NOMINAL RATIO	NOMINAL OUTPUT SPEED REV / MIN	CAPACITY	SIZE OF UNIT				
			A0410	A0510	A0610	A0730	A0860
75.0	46.67	Input Power HP (mechanical)	0.99	1.23	2.21	2.89	5.35
		Input Power HP (thermal)	1.45	2.40	3.37	4.29	6.82
		Output Power HP (mechanical)	0.64	0.85	1.50	2.14	4.18
		Output Torque lb.in (mech.)	881	1160	2120	2930	5240
		Efficiency %	65	69	68	74	78
100.	35.00	Input Power HP (mechanical)	0.60	1.34	1.96	2.40	3.73
		Input Power HP (thermal)	1.36	1.65	2.54	4.29	5.90
		Output Power HP (mechanical)	0.36	0.83	1.20	1.70	2.77
		Output Torque lb.in (mech.)	656	1560	2260	3130	4660
		Efficiency %	59	62	61	71	74
125.	28.00	Input Power HP (mechanical)	0.69	1.34	1.93	2.68	4.30
		Input Power HP (thermal)	1.01	1.50	2.26	3.52	4.29
		Output Power HP (mechanical)	0.37	0.79	1.13	1.78	3.00
		Output Torque lb.in (mech.)	881	1870	2670	4210	6480
		Efficiency %	54	59	59	66	70
150.	23.33	Input Power HP (mechanical)	0.59	0.80	1.43	2.03	3.16
		Input Power HP (thermal)	1.19	2.01	2.74	2.83	3.98
		Output Power HP (mechanical)	0.32	0.48	0.84	1.36	2.20
		Output Torque lb.in (mech.)	881	1310	2390	3720	6030
		Efficiency %	54	60	59	67	70
200.	17.50	Input Power HP (mechanical)	0.40	1.00	1.29	1.54	2.25
		Input Power HP (thermal)	1.14	1.36	2.00	2.83	3.66
		Output Power HP (mechanical)	0.19	0.54	0.68	0.96	1.45
		Output Torque lb.in (mech.)	711	2040	2560	3530	5360
		Efficiency %	48	54	52	62	65
225.	15.56	Input Power HP (mechanical)	0.47	0.66	1.20	1.68	2.54
		Input Power HP (thermal)	1.09	1.90	2.52	2.21	3.58
		Output Power HP (mechanical)	0.23	0.37	0.65	1.04	1.69
		Output Torque lb.in (mech.)	881	1390	2540	3950	6390
		Efficiency %	50	56	54	62	66
250.	14.00	Input Power HP (mechanical)	0.43	0.91	1.28	1.56	2.54
		Input Power HP (thermal)	0.83	1.22	1.80	2.45	2.73
		Output Power HP (mechanical)	0.19	0.46	0.64	0.89	1.53
		Output Torque lb.in (mech.)	881	2190	3020	4210	7210
		Efficiency %	43	51	50	57	60
300.	11.67	Input Power HP (mechanical)	0.43	0.61	0.99	1.38	2.21
		Input Power HP (thermal)	1.09	1.27	2.32	2.13	2.26
		Output Power HP (mechanical)	0.17	0.28	0.51	0.82	1.30
		Output Torque lb.in (mech.)	881	1470	2680	4170	6780
		Efficiency %	39	46	52	59	59
350.	10.00	Input Power HP (mechanical)	0.35	0.72	1.07	1.25	0.98
		Input Power HP (thermal)	0.76	1.12	1.67	2.21	1.80
		Output Power HP (mechanical)	0.14	0.34	0.48	0.65	0.42
		Output Torque lb.in (mech.)	881	2190	3150	4210	2530
		Efficiency %	38	47	45	52	43
375.	9.33	Input Power HP (mechanical)	0.20	0.26	0.51	0.65	1.96
		Input Power HP (thermal)	0.50	0.72	1.08	1.50	2.34
		Output Power HP (mechanical)	0.05	0.08	0.14	0.24	1.10
		Output Torque lb.in (mech.)	312	548	934	1570	7210
		Efficiency %	24	31	27	37	56
400.	8.75	Input Power HP (mechanical)	0.32	0.73	0.91	1.04	1.62
		Input Power HP (thermal)	1.07	1.26	1.70	2.13	2.26
		Output Power HP (mechanical)	0.11	0.30	0.41	0.56	0.86
		Output Torque lb.in (mech.)	755	2190	2870	3840	6030
		Efficiency %	33	42	45	54	53
450.	7.78	Input Power HP (mechanical)	0.32	0.58	0.97	1.11	1.69
		Input Power HP (thermal)	0.71	1.10	1.56	2.11	2.22
		Output Power HP (mechanical)	0.11	0.25	0.40	0.54	0.91
		Output Torque lb.in (mech.)	881	1980	3150	4210	7130
		Efficiency %	35	44	42	48	54
500.	7.00	Input Power HP (mechanical)	0.34	0.63	0.85	0.99	1.66
		Input Power HP (thermal)	0.79	1.14	1.52	2.07	2.26
		Output Power HP (mechanical)	0.10	0.24	0.36	0.48	0.80
		Output Torque lb.in (mech.)	881	2190	3150	4210	7210
		Efficiency %	29	39	42	48	48
600.	5.83	Input Power HP (mechanical)	0.31	0.54	0.77	0.88	1.47
		Input Power HP (thermal)	0.74	1.11	1.42	1.95	2.14
		Output Power HP (mechanical)	0.08	0.19	0.30	0.40	0.67
		Output Torque lb.in (mech.)	881	2080	3150	4210	7210
		Efficiency %	26	36	39	45	45
625.	5.60	Input Power HP (mechanical)	0.29	0.54	0.80	0.91	1.43
		Input Power HP (thermal)	0.76	1.10	1.55	1.49	2.05
		Output Power HP (mechanical)	0.08	0.20	0.28	0.37	0.64
		Output Torque lb.in (mech.)	881	2190	3150	4210	7210
		Efficiency %	27	36	35	41	45
700.	5.00	Input Power HP (mechanical)	0.24	0.23	0.51	0.51	0.77
		Input Power HP (thermal)	0.43	0.47	0.85	0.62	0.89
		Output Power HP (mechanical)	0.05	0.05	0.16	0.16	0.29
		Output Torque lb.in (mech.)	626	603	1890	2060	3550
		Efficiency %	20	20	30	31	38
750.	4.67	Input Power HP (mechanical)	0.27	0.47	0.73	0.82	1.27
		Input Power HP (thermal)	0.71	1.08	1.45	1.49	2.05
		Output Power HP (mechanical)	0.07	0.16	0.23	0.31	0.53
		Output Torque lb.in (mech.)	881	2110	3150	4210	7210
		Efficiency %	24	33	32	38	42
800.	4.38	Input Power HP (mechanical)	0.25	0.46	0.68	0.74	1.05
		Input Power HP (thermal)	0.82	0.89	1.61	1.25	1.83
		Output Power HP (mechanical)	0.06	0.14	0.22	0.29	0.46
		Output Torque lb.in (mech.)	795	1950	3150	4050	6480
		Efficiency %	22	30	32	39	44

SERIES AJ
RATINGS AT
3500 REV / MIN INPUT

DOUBLE REDUCTION

NOMINAL RATIO	NOMINAL OUTPUT SPEED REV / MIN	CAPACITY	SIZE OF UNIT				
			A0410	A0510	A0610	A0730	A0860
900.	3.89	Input Power HP (mechanical)	0.25	0.42	0.66	0.74	1.12
		Input Power HP (thermal)	0.70	1.06	1.42	1.37	1.98
		Output Power HP (mechanical)	0.05	0.13	0.19	0.26	0.45
		Output Torque lb.in (mech.)	881	2130	3150	4210	7210
		Efficiency %	22	31	30	35	40
1000.	3.50	Input Power HP (mechanical)	0.26	0.44	0.61	0.69	1.03
		Input Power HP (thermal)	0.76	0.89	1.45	1.25	1.83
		Output Power HP (mechanical)	0.05	0.12	0.18	0.23	0.40
		Output Torque lb.in (mech.)	881	2190	3150	4210	7210
		Efficiency %	19	28	29	34	39
1200.	2.92	Input Power HP (mechanical)	0.24	0.39	0.56	0.63	0.92
		Input Power HP (thermal)	0.72	0.89	1.37	1.25	1.83
		Output Power HP (mechanical)	0.04	0.10	0.15	0.20	0.33
		Output Torque lb.in (mech.)	881	2170	3150	4210	7210
		Efficiency %	17	25	26	31	36
1250.	2.80	Input Power HP (mechanical)	0.23	0.34	0.54	0.61	0.93
		Input Power HP (thermal)	0.63	0.70	1.27	0.93	1.28
		Output Power HP (mechanical)	0.04	0.08	0.14	0.19	0.32
		Output Torque lb.in (mech.)	881	1830	3150	4210	7210
		Efficiency %	17	24	26	31	35
1400.	2.50	Input Power HP (mechanical)	0.21	0.23	0.51	0.51	0.77
		Input Power HP (thermal)	0.43	0.47	0.85	0.62	0.89
		Output Power HP (mechanical)	0.03	0.04	0.13	0.14	0.26
		Output Torque lb.in (mech.)	822	934	3150	3520	6480
		Efficiency %	16	16	24	28	34
1500.	2.33	Input Power HP (mechanical)	0.21	0.34	0.50	0.55	0.83
		Input Power HP (thermal)	0.63	0.70	1.27	0.93	1.28
		Output Power HP (mechanical)	0.03	0.08	0.12	0.16	0.27
		Output Torque lb.in (mech.)	881	2130	3150	4210	7210
		Efficiency %	15	23	23	28	32
1600.	2.19	Input Power HP (mechanical)	0.21	0.27	0.44	0.54	0.78
		Input Power HP (thermal)	0.67	0.89	1.26	1.25	1.71
		Output Power HP (mechanical)	0.03	0.05	0.08	0.14	0.24
		Output Torque lb.in (mech.)	795	1460	2400	4040	6970
		Efficiency %	13	19	19	26	31
1750.	2.00	Input Power HP (mechanical)	0.21	0.23	0.47	0.51	0.76
		Input Power HP (thermal)	0.43	0.47	0.85	0.62	0.89
		Output Power HP (mechanical)	0.03	0.03	0.10	0.13	0.23
		Output Torque lb.in (mech.)	881	1100	3150	3970	7210
		Efficiency %	13	15	21	25	30
1800.	1.94	Input Power HP (mechanical)	0.21	0.28	0.49	0.53	0.75
		Input Power HP (thermal)	0.53	0.58	1.01	0.74	1.11
		Output Power HP (mechanical)	0.03	0.05	0.10	0.13	0.22
		Output Torque lb.in (mech.)	881	1610	3150	4210	7210
		Efficiency %	13	18	20	24	30
2000.	1.75	Input Power HP (mechanical)	0.19	0.24	0.39	0.48	0.71
		Input Power HP (thermal)	0.63	0.70	1.23	0.93	1.28
		Output Power HP (mechanical)	0.02	0.04	0.07	0.11	0.20
		Output Torque lb.in (mech.)	804	1470	2430	4090	7050
		Efficiency %	12	17	17	24	28
2100.	1.67	Input Power HP (mechanical)	0.20	0.23	0.44	0.48	0.69
		Input Power HP (thermal)	0.43	0.47	0.85	0.62	0.89
		Output Power HP (mechanical)	0.02	0.03	0.08	0.11	0.19
		Output Torque lb.in (mech.)	881	1290	3150	4210	7210
		Efficiency %	12	15	19	23	28
2400.	1.46	Input Power HP (mechanical)	0.19	0.24	0.39	0.47	0.65
		Input Power HP (thermal)	0.53	0.58	1.01	0.74	1.11
		Output Power HP (mechanical)	0.02	0.03	0.06	0.10	0.17
		Output Torque lb.in (mech.)	810	1490	2450	4120	7110
		Efficiency %	10	15	15	20	25
2500.	1.40	Input Power HP (mechanical)	0.16	0.19	0.32	0.38	0.53
		Input Power HP (thermal)	0.60	0.70	1.09	0.93	1.28
		Output Power HP (mechanical)	0.01	0.02	0.04	0.07	0.11
		Output Torque lb.in (mech.)	576	1050	1750	3050	4780
		Efficiency %	8	12	12	18	20
2800.	1.25	Input Power HP (mechanical)	0.18	0.23	0.36	0.42	0.60
		Input Power HP (thermal)	0.43	0.47	0.85	0.62	0.89
		Output Power HP (mechanical)	0.02	0.03	0.05	0.08	0.14
		Output Torque lb.in (mech.)	816	1500	2470	4150	7160
		Efficiency %	9	13	14	19	24
3000.	1.17	Input Power HP (mechanical)	0.16	0.19	0.33	0.38	0.49
		Input Power HP (thermal)	0.53	0.58	1.01	0.74	1.11
		Output Power HP (mechanical)	0.01	0.02	0.03	0.06	0.09
		Output Torque lb.in (mech.)	581	1060	1760	3080	4820
		Efficiency %	7	10	10	15	18
3500.	1.00	Input Power HP (mechanical)	0.16	0.19	0.30	0.34	0.46
		Input Power HP (thermal)	0.43	0.47	0.85	0.62	0.89
		Output Power HP (mechanical)	0.009	0.02	0.03	0.05	0.08
		Output Torque lb.in (mech.)	585	1070	1780	3100	4850
		Efficiency %	6	9	9	14	17
3600.	0.97	Input Power HP (mechanical)	0.15	0.17	0.30	0.33	0.41
		Input Power HP (thermal)	0.53	0.58	1.01	0.74	1.11
		Output Power HP (mechanical)	0.007	0.01	0.02	0.04	0.06
		Output Torque lb.in (mech.)	443	814	1340	2330	3630
		Efficiency %	4	7	7	11	14
4200.	0.83	Input Power HP (mechanical)	0.15	0.17	0.27	0.30	0.39
		Input Power HP (thermal)	0.43	0.47	0.85	0.62	0.89
		Output Power HP (mechanical)	0.006	0.01	0.02	0.03	0.05
		Output Torque lb.in (mech.)	448	822	1360	2360	3670
		Efficiency %	4	7	7	10	13

SERIES AJ
RATINGS AT
2400 REV / MIN INPUT

SINGLE REDUCTION

NOMINAL RATIO	NOMINAL OUTPUT SPEED REV / MIN	CAPACITY	SIZE OF UNIT					
			A0280	A0410	A0510	A0610	A0730	A0860
5.0	480.00	Input Power HP (mechanical)	1.18	2.67	5.71	8.56	12.30	21.20
		Input Power HP (thermal)	2.87	4.00	6.77	9.42	23.70	30.20
		Output Power HP (mechanical)	1.04	2.37	5.20	7.85	11.40	19.90
		Output Torque lb.in (mech.)	143	326	655	1030	1560	2530
		Efficiency %	88	89	91	92	93	94
7.5	320.00	Input Power HP (mechanical)	1.08	2.38	4.07	6.25	9.48	14.40
		Input Power HP (thermal)	2.29	3.30	5.38	7.79	20.60	25.40
		Output Power HP (mechanical)	0.92	2.05	3.60	5.61	8.72	13.30
		Output Torque lb.in (mech.)	177	395	693	1080	1660	2540
		Efficiency %	85	86	88	90	92	93
10.0	240.00	Input Power HP (mechanical)	0.99	2.36	4.12	5.60	7.93	12.70
		Input Power HP (thermal)	1.75	2.65	4.13	6.69	17.00	21.30
		Output Power HP (mechanical)	0.80	1.98	3.54	4.93	7.19	11.70
		Output Torque lb.in (mech.)	221	546	977	1250	1950	2960
		Efficiency %	81	84	86	88	91	92
12.5	192.00	Input Power HP (mechanical)	0.89	2.20	3.65	5.31	8.28	11.40
		Input Power HP (thermal)	1.47	2.27	3.68	5.33	13.60	19.10
		Output Power HP (mechanical)	0.70	1.79	3.08	4.54	7.38	10.30
		Output Torque lb.in (mech.)	229	588	1010	1490	2420	3420
		Efficiency %	78	81	84	86	89	90
15.0	160.00	Input Power HP (mechanical)	0.82	2.11	2.70	4.71	7.19	11.50
		Input Power HP (thermal)	1.45	2.07	3.61	4.77	12.80	15.80
		Output Power HP (mechanical)	0.63	1.69	2.24	3.96	6.33	10.20
		Output Torque lb.in (mech.)	241	645	853	1560	2410	3900
		Efficiency %	77	80	83	84	88	89
20.0	120.00	Input Power HP (mechanical)	0.71	1.33	3.11	4.01	5.22	7.82
		Input Power HP (thermal)	0.98	1.95	2.36	3.41	10.80	13.30
		Output Power HP (mechanical)	0.49	1.02	2.38	3.16	4.47	6.78
		Output Torque lb.in (mech.)	255	524	1250	1660	2290	3470
		Efficiency %	68	77	75	78	86	87
25.0	96.00	Input Power HP (mechanical)	0.64	1.59	2.60	3.90	5.75	8.20
		Input Power HP (thermal)	0.91	1.39	2.12	3.04	7.48	9.17
		Output Power HP (mechanical)	0.42	1.13	1.92	2.97	4.66	6.74
		Output Torque lb.in (mech.)	274	739	1260	1950	3060	4420
		Efficiency %	65	70	73	75	81	82
30.0	80.00	Input Power HP (mechanical)	0.53	1.40	2.15	3.31	4.16	6.80
		Input Power HP (thermal)	0.85	1.27	2.00	2.75	6.98	8.61
		Output Power HP (mechanical)	0.33	0.95	1.54	2.43	3.28	5.49
		Output Torque lb.in (mech.)	259	750	1210	1910	2580	4320
		Efficiency %	62	67	71	72	79	81
40.0	60.00	Input Power HP (mechanical)	0.32	0.90	1.40	2.43	3.19	5.39
		Input Power HP (thermal)	0.69	1.14	1.82	2.41	5.99	7.40
		Output Power HP (mechanical)	0.16	0.55	0.93	1.68	2.39	4.15
		Output Torque lb.in (mech.)	172	580	977	1760	2510	4360
		Efficiency %	52	62	66	69	75	77
50.0	48.00	Input Power HP (mechanical)	0.22	0.58	0.98	1.56	2.40	3.70
		Input Power HP (thermal)	0.54	0.85	1.29	1.76	4.44	5.26
		Output Power HP (mechanical)	0.10	0.33	0.59	0.98	1.72	2.70
		Output Torque lb.in (mech.)	137	426	779	1290	2260	3540
		Efficiency %	47	56	60	63	72	73
60.0	40.00	Input Power HP (mechanical)	0.17	0.44	0.70	1.09	1.68	2.53
		Input Power HP (thermal)	0.45	0.69	1.11	1.52	3.57	4.36
		Output Power HP (mechanical)	0.07	0.21	0.39	0.64	1.10	1.72
		Output Torque lb.in (mech.)	105	331	607	1000	1740	2710
		Efficiency %	40	48	55	58	66	68
70.0	34.29	Input Power HP (mechanical)	0.13	0.34	0.52	0.84	1.24	1.93
		Input Power HP (thermal)	0.37	0.58	0.90	1.18	2.74	3.34
		Output Power HP (mechanical)	0.05	0.15	0.26	0.44	0.75	1.21
		Output Torque lb.in (mech.)	85	272	478	816	1370	2230
		Efficiency %	35	44	50	53	60	63

RATINGS AT 2400 REV / MIN INPUT

	NOMINAL RATIO	NOMINAL OUTPUT SPEED REV / MIN	CAPACITY	SIZE OF UNIT				
				A0410	A0510	A0610	A0730	A0860
DOUBLE REDUCTION	75.0	32.00	Input Power HP (mechanical)	0.69	0.92	1.63	2.34	4.00
			Input Power HP (thermal)	1.24	2.08	2.92	3.87	5.21
			Output Power HP (mechanical)	0.44	0.62	1.10	1.73	3.08
			Output Torque lb.in (mech.)	881	1240	2280	3460	5630
			Efficiency %	64	68	68	74	77
	100.	24.00	Input Power HP (mechanical)	0.43	1.09	1.45	1.77	2.78
			Input Power HP (thermal)	1.18	1.44	2.10	3.72	4.41
			Output Power HP (mechanical)	0.26	0.66	0.88	1.25	2.04
			Output Torque lb.in (mech.)	687	1820	2430	3350	5010
			Efficiency %	59	61	61	70	73
	125.	19.20	Input Power HP (mechanical)	0.49	1.08	1.44	1.88	3.23
			Input Power HP (thermal)	0.84	1.28	1.86	2.72	3.22
			Output Power HP (mechanical)	0.26	0.62	0.83	1.22	2.22
			Output Torque lb.in (mech.)	881	2150	2870	4210	6980
			Efficiency %	53	58	58	65	68
	150.	16.00	Input Power HP (mechanical)	0.41	0.59	1.04	1.50	2.34
			Input Power HP (thermal)	1.02	1.81	2.34	2.57	3.43
			Output Power HP (mechanical)	0.22	0.35	0.62	1.00	1.62
			Output Torque lb.in (mech.)	881	1400	2570	3990	6460
			Efficiency %	54	59	60	67	69
	200.	12.00	Input Power HP (mechanical)	0.29	0.75	0.95	1.12	1.66
			Input Power HP (thermal)	0.99	1.17	1.70	2.57	2.94
			Output Power HP (mechanical)	0.14	0.40	0.50	0.70	1.07
			Output Torque lb.in (mech.)	738	2190	2750	3760	5750
			Efficiency %	48	53	53	62	64
	225.	10.67	Input Power HP (mechanical)	0.33	0.49	0.87	1.23	1.88
			Input Power HP (thermal)	0.95	1.53	2.20	2.01	3.06
			Output Power HP (mechanical)	0.16	0.27	0.48	0.76	1.24
			Output Torque lb.in (mech.)	881	1480	2720	4210	6850
			Efficiency %	49	55	55	62	66
	250.	9.60	Input Power HP (mechanical)	0.30	0.64	0.92	1.09	1.77
			Input Power HP (thermal)	0.71	1.06	1.51	2.07	2.18
			Output Power HP (mechanical)	0.13	0.32	0.46	0.61	1.05
			Output Torque lb.in (mech.)	881	2190	3150	4210	7210
			Efficiency %	42	49	50	56	59
	300.	8.00	Input Power HP (mechanical)	0.30	0.45	0.71	0.96	1.63
			Input Power HP (thermal)	0.98	1.01	2.03	1.89	2.07
			Output Power HP (mechanical)	0.12	0.21	0.37	0.57	0.95
			Output Torque lb.in (mech.)	881	1560	2850	4210	7210
			Efficiency %	39	46	52	59	58
	350.	6.86	Input Power HP (mechanical)	0.24	0.51	0.74	0.87	0.68
			Input Power HP (thermal)	0.67	0.99	1.42	1.97	1.34
			Output Power HP (mechanical)	0.09	0.23	0.33	0.44	0.30
			Output Torque lb.in (mech.)	881	2190	3150	4210	2610
			Efficiency %	38	45	45	51	44
	375.	6.40	Input Power HP (mechanical)	0.13	0.18	0.34	0.44	1.36
			Input Power HP (thermal)	0.42	0.63	0.91	1.16	1.96
			Output Power HP (mechanical)	0.03	0.06	0.10	0.17	0.76
			Output Torque lb.in (mech.)	321	564	963	1620	7210
			Efficiency %	25	32	29	38	56
	400.	6.00	Input Power HP (mechanical)	0.23	0.51	0.65	0.73	1.17
			Input Power HP (thermal)	0.95	1.01	1.47	1.89	2.07
			Output Power HP (mechanical)	0.08	0.21	0.30	0.40	0.62
			Output Torque lb.in (mech.)	777	2190	3060	3950	6340
			Efficiency %	34	41	46	54	53
	450.	5.33	Input Power HP (mechanical)	0.22	0.43	0.66	0.76	1.18
			Input Power HP (thermal)	0.62	0.97	1.33	1.86	1.86
			Output Power HP (mechanical)	0.08	0.18	0.28	0.37	0.63
			Output Torque lb.in (mech.)	881	2080	3150	4210	7210
			Efficiency %	35	43	42	48	54
	500.	4.80	Input Power HP (mechanical)	0.23	0.45	0.58	0.68	1.15
			Input Power HP (thermal)	0.69	1.01	1.31	1.86	1.96
			Output Power HP (mechanical)	0.07	0.17	0.25	0.33	0.55
			Output Torque lb.in (mech.)	881	2190	3150	4210	7210
			Efficiency %	29	37	42	48	48
	600.	4.00	Input Power HP (mechanical)	0.21	0.39	0.53	0.60	1.01
			Input Power HP (thermal)	0.65	1.00	1.23	1.76	1.86
			Output Power HP (mechanical)	0.06	0.14	0.21	0.27	0.46
			Output Torque lb.in (mech.)	881	2130	3150	4210	7210
			Efficiency %	27	35	39	45	45
	625.	3.84	Input Power HP (mechanical)	0.20	0.38	0.54	0.63	0.99
			Input Power HP (thermal)	0.67	0.92	1.34	1.35	1.86
			Output Power HP (mechanical)	0.05	0.13	0.19	0.26	0.44
			Output Torque lb.in (mech.)	881	2190	3150	4210	7210
			Efficiency %	27	35	35	41	44
	700.	3.43	Input Power HP (mechanical)	0.17	0.16	0.35	0.35	0.54
			Input Power HP (thermal)	0.37	0.40	0.75	0.56	0.80
			Output Power HP (mechanical)	0.03	0.03	0.11	0.11	0.21
			Output Torque lb.in (mech.)	654	630	1970	2150	3710
			Efficiency %	20	20	31	33	39
	750.	3.20	Input Power HP (mechanical)	0.19	0.34	0.49	0.56	0.87
			Input Power HP (thermal)	0.63	0.92	1.26	1.35	1.80
			Output Power HP (mechanical)	0.04	0.11	0.16	0.21	0.37
			Output Torque lb.in (mech.)	881	2160	3150	4210	7210
			Efficiency %	24	33	32	38	42
	800.	3.00	Input Power HP (mechanical)	0.18	0.33	0.46	0.51	0.74
			Input Power HP (thermal)	0.68	0.70	1.40	1.10	1.61
			Output Power HP (mechanical)	0.04	0.10	0.15	0.20	0.32
			Output Torque lb.in (mech.)	814	2040	3150	4150	6630
			Efficiency %	23	29	32	40	44

SERIES AJ
RATINGS AT
2400 REV / MIN INPUT

DOUBLE REDUCTION

NOMINAL RATIO	NOMINAL OUTPUT SPEED REV / MIN	CAPACITY	SIZE OF UNIT				
			A0410	A0510	A0610	A0730	A0860
900.	2.67	Input Power HP (mechanical)	0.17	0.30	0.45	0.50	0.77
		Input Power HP (thermal)	0.62	0.86	1.24	1.23	1.75
		Output Power HP (mechanical)	0.04	0.09	0.13	0.18	0.31
		Output Torque lb.in (mech.)	881	2180	3150	4210	7210
		Efficiency %	22	30	30	35	40
1000.	2.40	Input Power HP (mechanical)	0.18	0.31	0.41	0.47	0.71
		Input Power HP (thermal)	0.68	0.70	1.28	1.10	1.61
		Output Power HP (mechanical)	0.03	0.08	0.12	0.16	0.28
		Output Torque lb.in (mech.)	881	2190	3150	4210	7210
		Efficiency %	19	27	29	34	39
1200.	2.00	Input Power HP (mechanical)	0.16	0.28	0.38	0.42	0.63
		Input Power HP (thermal)	0.65	0.70	1.21	1.10	1.61
		Output Power HP (mechanical)	0.03	0.07	0.10	0.13	0.23
		Output Torque lb.in (mech.)	881	2190	3150	4210	7210
		Efficiency %	17	25	26	32	36
1250.	1.92	Input Power HP (mechanical)	0.15	0.24	0.36	0.41	0.63
		Input Power HP (thermal)	0.54	0.59	1.11	0.83	1.14
		Output Power HP (mechanical)	0.03	0.06	0.10	0.13	0.22
		Output Torque lb.in (mech.)	881	1900	3150	4210	7210
		Efficiency %	18	24	27	31	35
1400.	1.71	Input Power HP (mechanical)	0.15	0.16	0.35	0.35	0.54
		Input Power HP (thermal)	0.37	0.40	0.75	0.56	0.80
		Output Power HP (mechanical)	0.02	0.03	0.09	0.10	0.19
		Output Torque lb.in (mech.)	838	970	3150	3660	6740
		Efficiency %	16	16	25	29	35
1500.	1.60	Input Power HP (mechanical)	0.14	0.24	0.33	0.37	0.56
		Input Power HP (thermal)	0.54	0.59	1.11	0.83	1.14
		Output Power HP (mechanical)	0.02	0.06	0.08	0.11	0.18
		Output Torque lb.in (mech.)	881	2190	3150	4210	7210
		Efficiency %	16	23	24	29	32
1600.	1.50	Input Power HP (mechanical)	0.14	0.19	0.29	0.36	0.53
		Input Power HP (thermal)	0.61	0.70	1.11	1.10	1.55
		Output Power HP (mechanical)	0.02	0.04	0.06	0.10	0.17
		Output Torque lb.in (mech.)	809	1490	2450	4120	7100
		Efficiency %	14	19	20	27	32
1750.	1.37	Input Power HP (mechanical)	0.14	0.16	0.31	0.35	0.52
		Input Power HP (thermal)	0.37	0.40	0.75	0.56	0.80
		Output Power HP (mechanical)	0.02	0.02	0.07	0.09	0.16
		Output Torque lb.in (mech.)	881	1150	3150	4110	7210
		Efficiency %	13	15	22	26	30
1800.	1.33	Input Power HP (mechanical)	0.14	0.20	0.32	0.36	0.51
		Input Power HP (thermal)	0.45	0.50	0.89	0.67	0.99
		Output Power HP (mechanical)	0.02	0.04	0.07	0.09	0.15
		Output Torque lb.in (mech.)	881	1670	3150	4210	7210
		Efficiency %	13	18	21	25	30
2000.	1.20	Input Power HP (mechanical)	0.13	0.17	0.26	0.32	0.48
		Input Power HP (thermal)	0.54	0.59	1.09	0.83	1.14
		Output Power HP (mechanical)	0.02	0.03	0.05	0.08	0.14
		Output Torque lb.in (mech.)	817	1500	2470	4160	7170
		Efficiency %	12	17	18	25	28
2100.	1.14	Input Power HP (mechanical)	0.14	0.16	0.29	0.32	0.46
		Input Power HP (thermal)	0.37	0.40	0.75	0.56	0.80
		Output Power HP (mechanical)	0.02	0.02	0.06	0.08	0.13
		Output Torque lb.in (mech.)	881	1330	3150	4210	7210
		Efficiency %	12	15	20	24	28
2400.	1.00	Input Power HP (mechanical)	0.13	0.16	0.26	0.31	0.44
		Input Power HP (thermal)	0.45	0.50	0.89	0.67	0.99
		Output Power HP (mechanical)	0.01	0.02	0.04	0.07	0.11
		Output Torque lb.in (mech.)	824	1510	2490	4190	7210
		Efficiency %	10	15	15	21	26
2500.	0.96	Input Power HP (mechanical)	0.11	0.13	0.21	0.25	0.35
		Input Power HP (thermal)	0.54	0.59	0.97	0.83	1.14
		Output Power HP (mechanical)	0.009	0.02	0.03	0.05	0.07
		Output Torque lb.in (mech.)	586	1070	1780	3110	4870
		Efficiency %	8	12	13	19	22
2800.	0.86	Input Power HP (mechanical)	0.12	0.16	0.23	0.28	0.40
		Input Power HP (thermal)	0.37	0.40	0.75	0.56	0.80
		Output Power HP (mechanical)	0.01	0.02	0.03	0.06	0.10
		Output Torque lb.in (mech.)	833	1530	2520	4210	7210
		Efficiency %	9	13	15	20	24
3000.	0.80	Input Power HP (mechanical)	0.11	0.13	0.21	0.25	0.32
		Input Power HP (thermal)	0.45	0.50	0.89	0.67	0.99
		Output Power HP (mechanical)	0.007	0.01	0.02	0.04	0.06
		Output Torque lb.in (mech.)	594	1090	1800	3150	4930
		Efficiency %	7	10	11	16	20
3500.	0.69	Input Power HP (mechanical)	0.11	0.13	0.19	0.22	0.30
		Input Power HP (thermal)	0.37	0.40	0.75	0.56	0.80
		Output Power HP (mechanical)	0.006	0.01	0.02	0.03	0.05
		Output Torque lb.in (mech.)	600	1100	1820	3180	4980
		Efficiency %	6	9	10	15	18
3600.	0.67	Input Power HP (mechanical)	0.10	0.12	0.18	0.21	0.26
		Input Power HP (thermal)	0.45	0.50	0.89	0.67	0.99
		Output Power HP (mechanical)	0.005	0.009	0.01	0.03	0.04
		Output Torque lb.in (mech.)	455	835	1380	2390	3730
		Efficiency %	5	8	8	12	15
4200.	0.57	Input Power HP (mechanical)	0.10	0.11	0.17	0.19	0.25
		Input Power HP (thermal)	0.37	0.40	0.75	0.56	0.80
		Output Power HP (mechanical)	0.004	0.008	0.01	0.02	0.03
		Output Torque lb.in (mech.)	459	844	1390	2420	3770
		Efficiency %	4	7	8	11	14

SERIES AJ
RATINGS AT
1750 REV / MIN INPUT

SINGLE REDUCTION

NOMINAL RATIO	NOMINAL OUTPUT SPEED REV / MIN	CAPACITY	SIZE OF UNIT					
			A0280	A0410	A0510	A0610	A0730	A0860
5.0	350.00	Input Power HP (mechanical)	1.00	2.25	4.84	7.26	10.40	18.00
		Input Power HP (thermal)	2.44	3.55	5.87	8.23	18.90	23.80
		Output Power HP (mechanical)	0.87	1.99	4.39	6.61	9.67	16.90
		Output Torque lb.in (mech.)	165	376	759	1190	1810	2940
		Efficiency %	88	88	91	91	93	94
7.5	233.33	Input Power HP (mechanical)	0.91	2.00	3.42	5.27	7.97	12.10
		Input Power HP (thermal)	1.96	2.95	4.74	6.91	16.40	20.10
		Output Power HP (mechanical)	0.77	1.72	3.02	4.73	7.36	11.20
		Output Torque lb.in (mech.)	203	454	797	1250	1920	2930
		Efficiency %	85	86	88	90	92	93
10.0	175.00	Input Power HP (mechanical)	0.83	1.88	3.45	4.69	6.39	10.70
		Input Power HP (thermal)	1.50	2.37	3.66	5.95	13.50	16.80
		Output Power HP (mechanical)	0.67	1.57	2.94	4.11	5.78	9.77
		Output Torque lb.in (mech.)	252	594	1110	1430	2150	3400
		Efficiency %	81	84	85	88	90	91
12.5	140.00	Input Power HP (mechanical)	0.74	1.83	3.05	4.24	6.60	9.04
		Input Power HP (thermal)	1.27	2.04	3.26	4.76	10.90	15.00
		Output Power HP (mechanical)	0.58	1.48	2.56	3.60	5.87	8.18
		Output Torque lb.in (mech.)	259	668	1150	1620	2640	3730
		Efficiency %	77	81	84	85	89	90
15.0	116.67	Input Power HP (mechanical)	0.66	1.76	2.16	3.77	5.73	9.16
		Input Power HP (thermal)	1.25	1.86	3.18	4.25	10.20	12.50
		Output Power HP (mechanical)	0.51	1.40	1.78	3.15	5.04	8.14
		Output Torque lb.in (mech.)	264	730	927	1700	2630	4250
		Efficiency %	77	79	82	84	88	89
20.0	87.50	Input Power HP (mechanical)	0.59	1.06	2.59	3.23	4.16	6.24
		Input Power HP (thermal)	0.86	1.73	2.11	3.08	8.60	10.50
		Output Power HP (mechanical)	0.40	0.81	1.96	2.50	3.55	5.38
		Output Torque lb.in (mech.)	287	566	1410	1800	2490	3780
		Efficiency %	67	76	75	77	85	86
25.0	70.00	Input Power HP (mechanical)	0.53	1.32	2.17	3.15	4.74	6.80
		Input Power HP (thermal)	0.79	1.25	1.90	2.74	6.04	7.32
		Output Power HP (mechanical)	0.34	0.92	1.58	2.36	3.82	5.54
		Output Torque lb.in (mech.)	308	831	1420	2120	3440	4990
		Efficiency %	65	70	72	75	81	82
30.0	58.33	Input Power HP (mechanical)	0.42	1.15	1.73	2.76	3.33	5.45
		Input Power HP (thermal)	0.73	1.14	1.78	2.47	5.61	6.84
		Output Power HP (mechanical)	0.26	0.77	1.21	1.99	2.60	4.35
		Output Torque lb.in (mech.)	281	831	1310	2150	2810	4700
		Efficiency %	61	67	70	72	78	80
40.0	43.75	Input Power HP (mechanical)	0.25	0.69	1.12	1.90	2.55	4.35
		Input Power HP (thermal)	0.60	1.02	1.62	2.17	4.81	5.87
		Output Power HP (mechanical)	0.13	0.42	0.74	1.28	1.90	3.33
		Output Torque lb.in (mech.)	180	608	1060	1840	2740	4790
		Efficiency %	51	61	66	67	75	76
50.0	35.00	Input Power HP (mechanical)	0.17	0.45	0.76	1.21	1.85	2.85
		Input Power HP (thermal)	0.47	0.77	1.16	1.59	3.58	4.19
		Output Power HP (mechanical)	0.08	0.25	0.45	0.75	1.31	2.05
		Output Torque lb.in (mech.)	144	445	814	1350	2360	3690
		Efficiency %	47	55	60	62	71	72
60.0	29.17	Input Power HP (mechanical)	0.13	0.33	0.53	0.84	1.28	1.94
		Input Power HP (thermal)	0.40	0.62	1.00	1.38	2.90	3.48
		Output Power HP (mechanical)	0.05	0.16	0.29	0.49	0.84	1.31
		Output Torque lb.in (mech.)	110	344	633	1050	1810	2830
		Efficiency %	40	48	55	58	65	68
70.0	25.00	Input Power HP (mechanical)	0.10	0.25	0.39	0.64	0.94	1.47
		Input Power HP (thermal)	0.33	0.53	0.81	1.08	2.24	2.69
		Output Power HP (mechanical)	0.03	0.11	0.20	0.34	0.57	0.92
		Output Torque lb.in (mech.)	88	283	497	848	1430	2320
		Efficiency %	35	44	50	53	60	63

SERIES AJ
RATINGS AT
1750 REV / MIN INPUT

	NOMINAL RATIO	NOMINAL OUTPUT SPEED REV / MIN	CAPACITY	SIZE OF UNIT				
				A0410	A0510	A0610	A0730	A0860
DOUBLE REDUCTION	75.0	23.33	Input Power HP (mechanical)	0.51	0.71	1.27	1.86	3.12
			Input Power HP (thermal)	1.09	1.88	2.56	3.44	4.24
			Output Power HP (mechanical)	0.32	0.48	0.84	1.36	2.37
			Output Torque lb.in (mech.)	881	1310	2390	3720	5940
			Efficiency %	63	67	66	73	76
	100.	17.50	Input Power HP (mechanical)	0.33	0.91	1.13	1.38	2.17
			Input Power HP (thermal)	1.05	1.26	1.83	3.11	3.60
			Output Power HP (mechanical)	0.19	0.54	0.68	0.96	1.57
			Output Torque lb.in (mech.)	711	2040	2560	3530	5290
			Efficiency %	58	59	60	69	72
	125.	14.00	Input Power HP (mechanical)	0.36	0.82	1.12	1.40	2.49
			Input Power HP (thermal)	0.74	1.12	1.63	2.28	2.63
			Output Power HP (mechanical)	0.19	0.46	0.64	0.89	1.67
			Output Torque lb.in (mech.)	881	2190	3020	4210	7210
			Efficiency %	52	56	57	64	67
	150.	11.67	Input Power HP (mechanical)	0.30	0.46	0.81	1.16	1.83
			Input Power HP (thermal)	0.92	1.55	2.10	2.30	3.01
			Output Power HP (mechanical)	0.16	0.27	0.48	0.77	1.25
			Output Torque lb.in (mech.)	881	1480	2720	4210	6840
			Efficiency %	53	58	59	66	68
	200.	8.75	Input Power HP (mechanical)	0.21	0.56	0.74	0.85	1.29
			Input Power HP (thermal)	0.89	1.06	1.51	2.30	2.58
			Output Power HP (mechanical)	0.10	0.29	0.39	0.52	0.83
			Output Torque lb.in (mech.)	758	2190	2910	3860	6090
			Efficiency %	48	51	52	62	64
	225.	7.78	Input Power HP (mechanical)	0.24	0.38	0.67	0.91	1.46
			Input Power HP (thermal)	0.87	1.26	1.99	1.80	2.77
			Output Power HP (mechanical)	0.12	0.21	0.37	0.56	0.95
			Output Torque lb.in (mech.)	881	1560	2860	4210	7200
			Efficiency %	48	54	54	61	65
	250.	7.00	Input Power HP (mechanical)	0.22	0.48	0.68	0.81	1.32
			Input Power HP (thermal)	0.64	0.96	1.35	1.88	1.91
			Output Power HP (mechanical)	0.09	0.23	0.33	0.45	0.76
			Output Torque lb.in (mech.)	881	2190	3150	4210	7210
			Efficiency %	42	48	49	55	58
	300.	5.83	Input Power HP (mechanical)	0.22	0.35	0.55	0.71	1.21
			Input Power HP (thermal)	0.80	0.84	1.85	1.68	1.87
			Output Power HP (mechanical)	0.08	0.16	0.28	0.41	0.69
			Output Torque lb.in (mech.)	881	1640	2990	4210	7210
			Efficiency %	39	45	52	58	57
	350.	5.00	Input Power HP (mechanical)	0.18	0.38	0.55	0.64	0.51
			Input Power HP (thermal)	0.60	0.91	1.28	1.80	1.10
			Output Power HP (mechanical)	0.07	0.17	0.24	0.32	0.22
			Output Torque lb.in (mech.)	881	2190	3150	4210	2680
			Efficiency %	38	44	44	50	44
	375.	4.67	Input Power HP (mechanical)	0.10	0.14	0.25	0.33	1.01
			Input Power HP (thermal)	0.38	0.57	0.83	0.97	1.77
			Output Power HP (mechanical)	0.02	0.04	0.07	0.13	0.55
			Output Torque lb.in (mech.)	328	577	985	1660	7210
			Efficiency %	26	32	30	38	55
	400.	4.38	Input Power HP (mechanical)	0.17	0.39	0.50	0.55	0.88
			Input Power HP (thermal)	0.80	0.84	1.33	1.68	1.87
			Output Power HP (mechanical)	0.06	0.15	0.22	0.30	0.46
			Output Torque lb.in (mech.)	795	2190	3150	4040	6480
			Efficiency %	34	39	45	54	52
	450.	3.89	Input Power HP (mechanical)	0.16	0.32	0.49	0.56	0.88
			Input Power HP (thermal)	0.56	0.89	1.19	1.72	1.68
			Output Power HP (mechanical)	0.06	0.14	0.20	0.27	0.46
			Output Torque lb.in (mech.)	881	2130	3150	4210	7210
			Efficiency %	35	42	41	48	52
	500.	3.50	Input Power HP (mechanical)	0.17	0.33	0.43	0.51	0.86
			Input Power HP (thermal)	0.63	0.84	1.19	1.68	1.78
			Output Power HP (mechanical)	0.05	0.12	0.18	0.24	0.40
			Output Torque lb.in (mech.)	881	2190	3150	4210	7210
			Efficiency %	29	36	42	47	47
	600.	2.92	Input Power HP (mechanical)	0.15	0.29	0.39	0.45	0.75
			Input Power HP (thermal)	0.59	0.84	1.11	1.63	1.69
			Output Power HP (mechanical)	0.04	0.10	0.15	0.20	0.33
			Output Torque lb.in (mech.)	881	2170	3150	4210	7210
			Efficiency %	26	34	39	45	44
	625.	2.80	Input Power HP (mechanical)	0.15	0.29	0.40	0.47	0.74
			Input Power HP (thermal)	0.61	0.77	1.22	1.21	1.68
			Output Power HP (mechanical)	0.04	0.10	0.14	0.19	0.32
			Output Torque lb.in (mech.)	881	2190	3150	4210	7210
			Efficiency %	27	34	35	40	43
	700.	2.50	Input Power HP (mechanical)	0.12	0.12	0.26	0.26	0.40
			Input Power HP (thermal)	0.33	0.36	0.68	0.51	0.72
			Output Power HP (mechanical)	0.03	0.02	0.08	0.09	0.16
			Output Torque lb.in (mech.)	675	651	2040	2220	3830
			Efficiency %	21	20	32	33	39
	750.	2.33	Input Power HP (mechanical)	0.14	0.25	0.36	0.41	0.65
			Input Power HP (thermal)	0.58	0.77	1.15	1.21	1.67
			Output Power HP (mechanical)	0.03	0.08	0.12	0.16	0.27
			Output Torque lb.in (mech.)	881	2190	3150	4210	7210
			Efficiency %	24	32	32	38	41
	800.	2.19	Input Power HP (mechanical)	0.13	0.26	0.34	0.38	0.55
			Input Power HP (thermal)	0.56	0.59	1.17	0.99	1.44
			Output Power HP (mechanical)	0.03	0.07	0.11	0.15	0.24
			Output Torque lb.in (mech.)	828	2110	3150	4210	6750
			Efficiency %	23	29	32	39	44

SERIES AJ
RATINGS AT
1750 REV / MIN INPUT

	NOMINAL RATIO	NOMINAL OUTPUT SPEED REV / MIN	CAPACITY	SIZE OF UNIT				
				A0410	A0510	A0610	A0730	A0860
DOUBLE REDUCTION	900.	1.94	Input Power HP (mechanical)	0.12	0.23	0.33	0.37	0.57
			Input Power HP (thermal)	0.57	0.71	1.13	1.11	1.58
			Output Power HP (mechanical)	0.03	0.07	0.10	0.13	0.22
			Output Torque lb.in (mech.)	881	2190	3150	4210	7210
			Efficiency %	22	30	30	35	39
	1000.	1.75	Input Power HP (mechanical)	0.13	0.23	0.30	0.35	0.53
			Input Power HP (thermal)	0.56	0.59	1.17	0.99	1.44
			Output Power HP (mechanical)	0.02	0.06	0.09	0.12	0.20
			Output Torque lb.in (mech.)	881	2190	3150	4210	7210
			Efficiency %	19	26	29	34	38
	1200.	1.46	Input Power HP (mechanical)	0.12	0.21	0.28	0.31	0.46
			Input Power HP (thermal)	0.56	0.59	1.11	0.99	1.44
			Output Power HP (mechanical)	0.02	0.05	0.07	0.10	0.17
			Output Torque lb.in (mech.)	881	2190	3150	4210	7210
			Efficiency %	17	24	26	31	36
	1250.	1.40	Input Power HP (mechanical)	0.11	0.19	0.26	0.30	0.47
			Input Power HP (thermal)	0.47	0.50	0.99	0.75	1.03
			Output Power HP (mechanical)	0.02	0.04	0.07	0.09	0.16
			Output Torque lb.in (mech.)	881	1960	3150	4210	7210
			Efficiency %	17	24	27	31	34
	1400.	1.25	Input Power HP (mechanical)	0.11	0.12	0.25	0.26	0.40
			Input Power HP (thermal)	0.33	0.36	0.68	0.51	0.72
			Output Power HP (mechanical)	0.02	0.02	0.06	0.08	0.14
			Output Torque lb.in (mech.)	850	997	3150	3770	6930
			Efficiency %	16	16	25	30	35
	1500.	1.17	Input Power HP (mechanical)	0.10	0.18	0.24	0.27	0.42
			Input Power HP (thermal)	0.47	0.50	0.99	0.75	1.03
			Output Power HP (mechanical)	0.02	0.04	0.06	0.08	0.13
			Output Torque lb.in (mech.)	881	2190	3150	4210	7210
			Efficiency %	16	23	24	29	32
	1600.	1.09	Input Power HP (mechanical)	0.10	0.14	0.21	0.27	0.39
			Input Power HP (thermal)	0.56	0.59	1.03	0.99	1.44
			Output Power HP (mechanical)	0.01	0.03	0.04	0.07	0.13
			Output Torque lb.in (mech.)	821	1510	2480	4170	7200
			Efficiency %	14	19	21	27	32
	1750.	1.00	Input Power HP (mechanical)	0.11	0.12	0.23	0.26	0.38
			Input Power HP (thermal)	0.33	0.36	0.68	0.51	0.72
			Output Power HP (mechanical)	0.01	0.02	0.05	0.07	0.11
			Output Torque lb.in (mech.)	881	1180	3150	4210	7210
			Efficiency %	13	15	22	26	30
	1800.	0.97	Input Power HP (mechanical)	0.10	0.15	0.24	0.26	0.37
			Input Power HP (thermal)	0.40	0.43	0.80	0.60	0.89
			Output Power HP (mechanical)	0.01	0.03	0.05	0.06	0.11
			Output Torque lb.in (mech.)	881	1720	3150	4210	7210
			Efficiency %	13	18	21	25	30
	2000.	0.88	Input Power HP (mechanical)	0.09	0.12	0.19	0.23	0.35
			Input Power HP (thermal)	0.47	0.50	0.99	0.75	1.03
			Output Power HP (mechanical)	0.01	0.02	0.04	0.06	0.10
			Output Torque lb.in (mech.)	831	1530	2520	4210	7210
			Efficiency %	13	17	19	25	28
	2100.	0.83	Input Power HP (mechanical)	0.10	0.12	0.21	0.23	0.34
			Input Power HP (thermal)	0.33	0.36	0.68	0.51	0.72
			Output Power HP (mechanical)	0.01	0.02	0.04	0.06	0.10
			Output Torque lb.in (mech.)	881	1370	3150	4210	7210
			Efficiency %	12	15	20	24	28
	2400.	0.73	Input Power HP (mechanical)	0.09	0.12	0.19	0.23	0.32
			Input Power HP (thermal)	0.40	0.43	0.80	0.60	0.89
			Output Power HP (mechanical)	0.010	0.02	0.03	0.05	0.08
			Output Torque lb.in (mech.)	842	1550	2550	4210	7210
			Efficiency %	11	15	16	21	26
	2500.	0.70	Input Power HP (mechanical)	0.08	0.10	0.15	0.18	0.25
			Input Power HP (thermal)	0.47	0.50	0.90	0.75	1.03
			Output Power HP (mechanical)	0.007	0.01	0.02	0.04	0.06
			Output Torque lb.in (mech.)	599	1100	1820	3180	4970
			Efficiency %	9	13	14	20	22
	2800.	0.63	Input Power HP (mechanical)	0.09	0.12	0.17	0.20	0.29
			Input Power HP (thermal)	0.33	0.36	0.68	0.51	0.72
			Output Power HP (mechanical)	0.008	0.02	0.03	0.04	0.07
			Output Torque lb.in (mech.)	851	1560	2570	4210	7210
			Efficiency %	9	13	15	20	24
	3000.	0.58	Input Power HP (mechanical)	0.08	0.10	0.15	0.18	0.23
			Input Power HP (thermal)	0.40	0.43	0.80	0.60	0.89
			Output Power HP (mechanical)	0.006	0.01	0.02	0.03	0.05
			Output Torque lb.in (mech.)	607	1110	1840	3210	5030
			Efficiency %	7	11	12	17	20
	3500.	0.50	Input Power HP (mechanical)	0.08	0.09	0.13	0.16	0.21
			Input Power HP (thermal)	0.33	0.36	0.68	0.51	0.72
			Output Power HP (mechanical)	0.005	0.009	0.01	0.03	0.04
			Output Torque lb.in (mech.)	613	1120	1860	3250	5090
			Efficiency %	6	10	11	16	19
	3600.	0.49	Input Power HP (mechanical)	0.07	0.08	0.13	0.15	0.19
			Input Power HP (thermal)	0.40	0.43	0.80	0.60	0.89
			Output Power HP (mechanical)	0.004	0.007	0.01	0.02	0.03
			Output Torque lb.in (mech.)	464	853	1410	2440	3810
			Efficiency %	5	8	8	13	16
	4200.	0.42	Input Power HP (mechanical)	0.07	0.08	0.12	0.14	0.17
			Input Power HP (thermal)	0.33	0.36	0.68	0.51	0.72
			Output Power HP (mechanical)	0.003	0.006	0.009	0.02	0.03
			Output Torque lb.in (mech.)	469	861	1420	2470	3840
			Efficiency %	4	7	8	12	15

SERIES AJ
RATINGS AT
1450 REV / MIN INPUT

SINGLE REDUCTION

NOMINAL RATIO	NOMINAL OUTPUT SPEED REV / MIN	CAPACITY	SIZE OF UNIT					
			A0280	A0410	A0510	A0610	A0730	A0860
5.0	290.00	Input Power HP (mechanical)	0.90	2.03	4.38	6.57	9.36	16.20
		Input Power HP (thermal)	2.21	3.28	5.38	7.58	16.50	20.50
		Output Power HP (mechanical)	0.79	1.79	3.96	5.98	8.72	15.30
		Output Torque lb.in (mech.)	179	409	826	1300	1970	3210
		Efficiency %	87	88	90	91	93	94
7.5	193.33	Input Power HP (mechanical)	0.81	1.79	3.08	4.75	7.17	10.90
		Input Power HP (thermal)	1.79	2.74	4.38	6.40	14.30	17.30
		Output Power HP (mechanical)	0.69	1.54	2.71	4.24	6.60	10.10
		Output Torque lb.in (mech.)	219	491	863	1350	2080	3180
		Efficiency %	85	86	88	89	92	93
10.0	145.00	Input Power HP (mechanical)	0.74	1.65	3.02	4.21	5.58	9.57
		Input Power HP (thermal)	1.37	2.20	3.39	5.52	11.80	14.50
		Output Power HP (mechanical)	0.59	1.37	2.56	3.69	5.03	8.74
		Output Torque lb.in (mech.)	271	624	1170	1550	2260	3670
		Efficiency %	80	83	85	88	90	91
12.5	116.00	Input Power HP (mechanical)	0.67	1.64	2.73	3.72	5.77	7.90
		Input Power HP (thermal)	1.16	1.90	3.02	4.43	9.52	12.90
		Output Power HP (mechanical)	0.51	1.32	2.26	3.15	5.10	7.12
		Output Torque lb.in (mech.)	278	718	1230	1710	2770	3920
		Efficiency %	77	81	83	85	88	90
15.0	96.67	Input Power HP (mechanical)	0.57	1.57	1.89	3.31	5.01	8.02
		Input Power HP (thermal)	1.14	1.73	2.95	3.96	8.91	10.80
		Output Power HP (mechanical)	0.43	1.24	1.55	2.73	4.38	7.10
		Output Torque lb.in (mech.)	272	783	975	1780	2760	4470
		Efficiency %	76	79	82	83	87	88
20.0	72.50	Input Power HP (mechanical)	0.53	0.91	2.32	2.84	3.64	5.46
		Input Power HP (thermal)	0.78	1.61	1.97	2.88	7.50	9.05
		Output Power HP (mechanical)	0.35	0.69	1.74	2.19	3.09	4.69
		Output Torque lb.in (mech.)	307	585	1510	1900	2620	3970
		Efficiency %	67	76	74	77	85	86
25.0	58.00	Input Power HP (mechanical)	0.47	1.17	1.95	2.78	4.17	6.08
		Input Power HP (thermal)	0.72	1.16	1.77	2.56	5.30	6.37
		Output Power HP (mechanical)	0.30	0.81	1.40	2.06	3.33	4.93
		Output Torque lb.in (mech.)	329	881	1520	2240	3620	5360
		Efficiency %	64	70	71	74	80	81
30.0	48.33	Input Power HP (mechanical)	0.37	1.01	1.53	2.44	2.92	4.79
		Input Power HP (thermal)	0.67	1.07	1.66	2.32	4.92	5.94
		Output Power HP (mechanical)	0.22	0.67	1.06	1.74	2.27	3.80
		Output Torque lb.in (mech.)	289	874	1380	2270	2960	4950
		Efficiency %	61	66	69	71	78	79
40.0	36.25	Input Power HP (mechanical)	0.21	0.60	0.99	1.64	2.24	3.83
		Input Power HP (thermal)	0.55	0.95	1.51	2.03	4.22	5.10
		Output Power HP (mechanical)	0.11	0.36	0.64	1.09	1.66	2.91
		Output Torque lb.in (mech.)	185	624	1120	1890	2880	5050
		Efficiency %	50	60	65	66	74	76
50.0	29.00	Input Power HP (mechanical)	0.15	0.38	0.65	1.04	1.58	2.44
		Input Power HP (thermal)	0.44	0.72	1.08	1.50	3.15	3.66
		Output Power HP (mechanical)	0.07	0.21	0.38	0.64	1.11	1.74
		Output Torque lb.in (mech.)	147	456	834	1380	2420	3780
		Efficiency %	46	55	59	61	71	71
60.0	24.17	Input Power HP (mechanical)	0.11	0.28	0.46	0.72	1.09	1.65
		Input Power HP (thermal)	0.37	0.59	0.94	1.30	2.55	3.04
		Output Power HP (mechanical)	0.04	0.14	0.25	0.41	0.71	1.11
		Output Torque lb.in (mech.)	112	352	647	1070	1850	2890
		Efficiency %	40	48	55	57	65	67
70.0	20.71	Input Power HP (mechanical)	0.08	0.21	0.33	0.55	0.80	1.25
		Input Power HP (thermal)	0.30	0.50	0.77	1.02	1.98	2.36
		Output Power HP (mechanical)	0.03	0.09	0.17	0.29	0.48	0.78
		Output Torque lb.in (mech.)	90	289	508	866	1460	2370
		Efficiency %	35	44	50	52	60	62

SERIES AJ
RATINGS AT
1450 REV / MIN INPUT

	NOMINAL RATIO	NOMINAL OUTPUT SPEED REV / MIN	CAPACITY	SIZE OF UNIT				
				A0410	A0510	A0610	A0730	A0860
DOUBLE REDUCTION	75.0	19.33	Input Power HP (mechanical)	0.43	0.62	1.09	1.60	2.69
			Input Power HP (thermal)	1.01	1.79	2.37	3.19	3.77
			Output Power HP (mechanical)	0.27	0.41	0.72	1.16	2.02
			Output Torque lb.in (mech.)	881	1350	2470	3850	6120
			Efficiency %	62	66	66	73	75
	100.	14.50	Input Power HP (mechanical)	0.28	0.79	0.98	1.19	1.87
			Input Power HP (thermal)	0.97	1.17	1.71	2.85	3.21
			Output Power HP (mechanical)	0.16	0.46	0.58	0.82	1.34
			Output Torque lb.in (mech.)	725	2110	2640	3650	5440
			Efficiency %	58	58	59	69	72
	125.	11.60	Input Power HP (mechanical)	0.30	0.69	0.97	1.18	2.10
			Input Power HP (thermal)	0.69	1.05	1.51	2.09	2.34
			Output Power HP (mechanical)	0.15	0.38	0.55	0.74	1.38
			Output Torque lb.in (mech.)	881	2190	3120	4210	7210
			Efficiency %	51	55	56	63	66
	150.	9.67	Input Power HP (mechanical)	0.25	0.40	0.70	0.98	1.58
			Input Power HP (thermal)	0.87	1.39	1.98	2.14	2.83
			Output Power HP (mechanical)	0.13	0.23	0.41	0.64	1.07
			Output Torque lb.in (mech.)	881	1530	2800	4210	7050
			Efficiency %	52	58	59	65	67
	200.	7.25	Input Power HP (mechanical)	0.18	0.48	0.64	0.72	1.11
			Input Power HP (thermal)	0.84	1.01	1.42	2.14	2.44
			Output Power HP (mechanical)	0.09	0.24	0.33	0.44	0.71
			Output Torque lb.in (mech.)	769	2190	3000	3920	6270
			Efficiency %	48	51	52	61	63
	225.	6.44	Input Power HP (mechanical)	0.20	0.33	0.58	0.77	1.23
			Input Power HP (thermal)	0.82	1.13	1.88	1.68	2.62
			Output Power HP (mechanical)	0.10	0.18	0.31	0.46	0.79
			Output Torque lb.in (mech.)	881	1600	2940	4210	7210
			Efficiency %	48	54	54	60	64
	250.	5.80	Input Power HP (mechanical)	0.19	0.41	0.57	0.68	1.11
			Input Power HP (thermal)	0.60	0.91	1.26	1.80	1.80
			Output Power HP (mechanical)	0.08	0.19	0.28	0.37	0.63
			Output Torque lb.in (mech.)	881	2190	3150	4210	7210
			Efficiency %	42	47	49	55	57
	300.	4.83	Input Power HP (mechanical)	0.18	0.30	0.47	0.60	1.02
			Input Power HP (thermal)	0.72	0.75	1.76	1.57	1.75
			Output Power HP (mechanical)	0.07	0.13	0.24	0.34	0.57
			Output Torque lb.in (mech.)	881	1690	3090	4210	7210
			Efficiency %	38	45	52	58	56
	350.	4.14	Input Power HP (mechanical)	0.15	0.32	0.46	0.54	0.43
			Input Power HP (thermal)	0.57	0.86	1.21	1.68	0.99
			Output Power HP (mechanical)	0.06	0.14	0.20	0.27	0.19
			Output Torque lb.in (mech.)	881	2190	3150	4210	2710
			Efficiency %	38	44	44	49	43
	375.	3.87	Input Power HP (mechanical)	0.08	0.11	0.21	0.28	0.85
			Input Power HP (thermal)	0.36	0.54	0.79	0.89	1.68
			Output Power HP (mechanical)	0.02	0.04	0.06	0.11	0.46
			Output Torque lb.in (mech.)	332	584	997	1680	7210
			Efficiency %	26	32	30	38	54
	400.	3.63	Input Power HP (mechanical)	0.14	0.33	0.41	0.46	0.75
			Input Power HP (thermal)	0.72	0.75	1.26	1.57	1.75
			Output Power HP (mechanical)	0.05	0.13	0.19	0.25	0.39
			Output Torque lb.in (mech.)	804	2190	3150	4090	6560
			Efficiency %	34	39	45	53	52
	450.	3.22	Input Power HP (mechanical)	0.14	0.28	0.41	0.47	0.74
			Input Power HP (thermal)	0.53	0.85	1.13	1.66	1.59
			Output Power HP (mechanical)	0.05	0.11	0.17	0.22	0.38
			Output Torque lb.in (mech.)	881	2150	3150	4210	7210
			Efficiency %	35	41	41	47	52
	500.	2.90	Input Power HP (mechanical)	0.14	0.28	0.36	0.42	0.72
			Input Power HP (thermal)	0.60	0.75	1.12	1.57	1.71
			Output Power HP (mechanical)	0.04	0.10	0.15	0.20	0.33
			Output Torque lb.in (mech.)	881	2190	3150	4210	7210
			Efficiency %	29	36	41	47	46
	600.	2.42	Input Power HP (mechanical)	0.13	0.25	0.32	0.37	0.63
			Input Power HP (thermal)	0.56	0.75	1.05	1.55	1.63
			Output Power HP (mechanical)	0.03	0.08	0.12	0.17	0.28
			Output Torque lb.in (mech.)	881	2190	3150	4210	7210
			Efficiency %	26	34	38	45	44
	625.	2.32	Input Power HP (mechanical)	0.12	0.24	0.33	0.39	0.62
			Input Power HP (thermal)	0.59	0.69	1.17	1.13	1.57
			Output Power HP (mechanical)	0.03	0.08	0.12	0.16	0.27
			Output Torque lb.in (mech.)	881	2190	3150	4210	7210
			Efficiency %	27	33	35	40	43
	700.	2.07	Input Power HP (mechanical)	0.10	0.10	0.22	0.22	0.34
			Input Power HP (thermal)	0.30	0.33	0.63	0.48	0.68
			Output Power HP (mechanical)	0.02	0.02	0.07	0.07	0.13
			Output Torque lb.in (mech.)	687	662	2070	2260	3890
			Efficiency %	21	20	32	33	39
	750.	1.93	Input Power HP (mechanical)	0.11	0.21	0.30	0.35	0.54
			Input Power HP (thermal)	0.55	0.69	1.09	1.13	1.57
			Output Power HP (mechanical)	0.03	0.07	0.10	0.13	0.22
			Output Torque lb.in (mech.)	881	2190	3150	4210	7210
			Efficiency %	24	32	32	37	41
	800.	1.81	Input Power HP (mechanical)	0.11	0.22	0.29	0.32	0.47
			Input Power HP (thermal)	0.51	0.53	1.07	0.92	1.34
			Output Power HP (mechanical)	0.02	0.06	0.09	0.12	0.20
			Output Torque lb.in (mech.)	836	2140	3150	4210	6810
			Efficiency %	23	28	32	39	43

SERIES AJ
RATINGS AT
1450 REV / MIN INPUT

DOUBLE REDUCTION

NOMINAL RATIO	NOMINAL OUTPUT SPEED REV / MIN	CAPACITY	SIZE OF UNIT				
			A0410	A0510	A0610	A0730	A0860
900.	1.61	Input Power HP (mechanical)	0.10	0.19	0.27	0.31	0.48
		Input Power HP (thermal)	0.55	0.64	1.08	1.04	1.48
		Output Power HP (mechanical)	0.02	0.06	0.08	0.11	0.18
		Output Torque lb.in (mech.)	881	2190	3150	4210	7210
		Efficiency %	22	29	30	35	39
1000.	1.45	Input Power HP (mechanical)	0.11	0.20	0.25	0.29	0.44
		Input Power HP (thermal)	0.51	0.53	1.07	0.92	1.34
		Output Power HP (mechanical)	0.02	0.05	0.07	0.10	0.17
		Output Torque lb.in (mech.)	881	2190	3150	4210	7210
		Efficiency %	19	26	29	33	38
1200.	1.21	Input Power HP (mechanical)	0.10	0.17	0.23	0.26	0.39
		Input Power HP (thermal)	0.51	0.53	1.07	0.92	1.34
		Output Power HP (mechanical)	0.02	0.04	0.06	0.08	0.14
		Output Torque lb.in (mech.)	881	2190	3150	4210	7210
		Efficiency %	17	24	26	31	36
1250.	1.16	Input Power HP (mechanical)	0.09	0.16	0.22	0.25	0.39
		Input Power HP (thermal)	0.44	0.46	0.91	0.70	0.96
		Output Power HP (mechanical)	0.02	0.04	0.06	0.08	0.13
		Output Torque lb.in (mech.)	881	1990	3150	4210	7210
		Efficiency %	18	23	26	31	34
1400.	1.04	Input Power HP (mechanical)	0.09	0.10	0.21	0.22	0.34
		Input Power HP (thermal)	0.30	0.33	0.63	0.48	0.68
		Output Power HP (mechanical)	0.01	0.02	0.05	0.06	0.12
		Output Torque lb.in (mech.)	857	1010	3150	3830	6990
		Efficiency %	16	16	25	30	35
1500.	0.97	Input Power HP (mechanical)	0.09	0.15	0.20	0.23	0.35
		Input Power HP (thermal)	0.44	0.46	0.91	0.70	0.96
		Output Power HP (mechanical)	0.01	0.03	0.05	0.06	0.11
		Output Torque lb.in (mech.)	881	2190	3150	4210	7210
		Efficiency %	16	22	24	29	32
1600.	0.91	Input Power HP (mechanical)	0.09	0.12	0.17	0.22	0.33
		Input Power HP (thermal)	0.51	0.53	0.99	0.92	1.34
		Output Power HP (mechanical)	0.01	0.02	0.04	0.06	0.10
		Output Torque lb.in (mech.)	829	1520	2510	4210	7210
		Efficiency %	14	19	21	27	32
1750.	0.83	Input Power HP (mechanical)	0.09	0.10	0.19	0.22	0.32
		Input Power HP (thermal)	0.30	0.33	0.63	0.48	0.68
		Output Power HP (mechanical)	0.01	0.02	0.04	0.06	0.09
		Output Torque lb.in (mech.)	881	1190	3150	4210	7210
		Efficiency %	13	15	22	26	30
1800.	0.81	Input Power HP (mechanical)	0.09	0.12	0.20	0.22	0.31
		Input Power HP (thermal)	0.37	0.40	0.75	0.57	0.84
		Output Power HP (mechanical)	0.01	0.02	0.04	0.05	0.09
		Output Torque lb.in (mech.)	881	1750	3150	4210	7210
		Efficiency %	13	18	21	25	30
2000.	0.73	Input Power HP (mechanical)	0.08	0.10	0.15	0.20	0.30
		Input Power HP (thermal)	0.44	0.46	0.91	0.70	0.96
		Output Power HP (mechanical)	0.010	0.02	0.03	0.05	0.08
		Output Torque lb.in (mech.)	842	1550	2550	4210	7210
		Efficiency %	13	17	19	25	28
2100.	0.69	Input Power HP (mechanical)	0.08	0.10	0.17	0.19	0.28
		Input Power HP (thermal)	0.30	0.33	0.63	0.48	0.68
		Output Power HP (mechanical)	0.010	0.02	0.03	0.05	0.08
		Output Torque lb.in (mech.)	881	1390	3150	4210	7210
		Efficiency %	12	15	20	24	28
2400.	0.60	Input Power HP (mechanical)	0.08	0.10	0.15	0.19	0.27
		Input Power HP (thermal)	0.37	0.40	0.75	0.57	0.84
		Output Power HP (mechanical)	0.008	0.01	0.02	0.04	0.07
		Output Torque lb.in (mech.)	853	1560	2580	4210	7210
		Efficiency %	11	15	16	21	26
2500.	0.58	Input Power HP (mechanical)	0.06	0.08	0.12	0.15	0.21
		Input Power HP (thermal)	0.44	0.46	0.86	0.70	0.96
		Output Power HP (mechanical)	0.006	0.01	0.02	0.03	0.05
		Output Torque lb.in (mech.)	607	1110	1840	3220	5040
		Efficiency %	9	13	14	20	22
2800.	0.52	Input Power HP (mechanical)	0.07	0.10	0.14	0.17	0.24
		Input Power HP (thermal)	0.30	0.33	0.63	0.48	0.68
		Output Power HP (mechanical)	0.007	0.01	0.02	0.03	0.06
		Output Torque lb.in (mech.)	861	1580	2610	4210	7210
		Efficiency %	10	14	16	20	24
3000.	0.48	Input Power HP (mechanical)	0.06	0.08	0.12	0.15	0.19
		Input Power HP (thermal)	0.37	0.40	0.75	0.57	0.84
		Output Power HP (mechanical)	0.005	0.009	0.01	0.02	0.04
		Output Torque lb.in (mech.)	614	1120	1860	3250	5100
		Efficiency %	7	11	12	17	20
3500.	0.41	Input Power HP (mechanical)	0.06	0.08	0.11	0.13	0.18
		Input Power HP (thermal)	0.30	0.33	0.63	0.48	0.68
		Output Power HP (mechanical)	0.004	0.007	0.01	0.02	0.03
		Output Torque lb.in (mech.)	620	1130	1880	3290	5150
		Efficiency %	7	10	11	16	19
3600.	0.40	Input Power HP (mechanical)	0.06	0.07	0.11	0.12	0.15
		Input Power HP (thermal)	0.37	0.40	0.75	0.57	0.84
		Output Power HP (mechanical)	0.003	0.005	0.009	0.02	0.02
		Output Torque lb.in (mech.)	470	863	1430	2470	3850
		Efficiency %	5	8	9	13	16
4200.	0.35	Input Power HP (mechanical)	0.06	0.07	0.09	0.11	0.14
		Input Power HP (thermal)	0.30	0.33	0.63	0.48	0.68
		Output Power HP (mechanical)	0.003	0.005	0.008	0.01	0.02
		Output Torque lb.in (mech.)	474	871	1440	2490	3890
		Efficiency %	5	7	8	12	15

SERIES AJ
RATINGS AT
1160 REV / MIN INPUT

SINGLE REDUCTION

NOMINAL RATIO	NOMINAL OUTPUT SPEED REV / MIN	CAPACITY	SIZE OF UNIT					
			A0280	A0410	A0510	A0610	A0730	A0860
5.0	232.00	Input Power HP (mechanical)	0.79	1.79	3.86	5.64	8.28	13.70
		Input Power HP (thermal)	1.96	2.98	4.85	6.86	13.90	17.10
		Output Power HP (mechanical)	0.69	1.57	3.48	5.12	7.68	12.80
		Output Torque lb.in (mech.)	196	449	906	1390	2170	3370
		Efficiency %	87	88	90	91	93	94
7.5	154.67	Input Power HP (mechanical)	0.71	1.57	2.71	4.18	6.30	9.59
		Input Power HP (thermal)	1.59	2.50	3.97	5.83	12.00	14.50
		Output Power HP (mechanical)	0.60	1.35	2.37	3.72	5.79	8.86
		Output Torque lb.in (mech.)	239	537	944	1480	2280	3490
		Efficiency %	84	86	87	89	92	92
10.0	116.00	Input Power HP (mechanical)	0.64	1.40	2.57	3.70	4.74	8.39
		Input Power HP (thermal)	1.23	2.01	3.09	5.04	9.97	12.20
		Output Power HP (mechanical)	0.52	1.16	2.17	3.22	4.26	7.64
		Output Torque lb.in (mech.)	294	660	1240	1690	2390	4010
		Efficiency %	80	83	85	87	90	91
12.5	92.80	Input Power HP (mechanical)	0.58	1.43	2.39	3.17	4.91	6.71
		Input Power HP (thermal)	1.04	1.74	2.76	4.06	8.08	10.80
		Output Power HP (mechanical)	0.44	1.15	1.97	2.65	4.32	6.02
		Output Torque lb.in (mech.)	301	779	1340	1800	2930	4140
		Efficiency %	76	80	83	84	88	90
15.0	77.33	Input Power HP (mechanical)	0.48	1.37	1.61	2.82	4.26	6.82
		Input Power HP (thermal)	1.02	1.58	2.69	3.63	7.56	9.06
		Output Power HP (mechanical)	0.36	1.08	1.31	2.32	3.71	6.01
		Output Torque lb.in (mech.)	283	848	1030	1890	2920	4730
		Efficiency %	76	79	81	82	87	88
20.0	58.00	Input Power HP (mechanical)	0.46	0.76	1.99	2.44	3.10	4.65
		Input Power HP (thermal)	0.69	1.48	1.80	2.65	6.37	7.60
		Output Power HP (mechanical)	0.31	0.57	1.47	1.85	2.62	3.97
		Output Torque lb.in (mech.)	331	606	1600	2010	2770	4200
		Efficiency %	66	75	74	76	84	85
25.0	46.40	Input Power HP (mechanical)	0.41	0.95	1.71	2.38	3.56	5.33
		Input Power HP (thermal)	0.64	1.07	1.62	2.37	4.53	5.38
		Output Power HP (mechanical)	0.26	0.65	1.21	1.74	2.82	4.29
		Output Torque lb.in (mech.)	355	881	1640	2360	3830	5820
		Efficiency %	63	68	71	73	79	80
30.0	38.67	Input Power HP (mechanical)	0.31	0.83	1.31	2.10	2.50	4.10
		Input Power HP (thermal)	0.59	0.98	1.53	2.14	4.20	5.02
		Output Power HP (mechanical)	0.18	0.54	0.90	1.47	1.92	3.22
		Output Torque lb.in (mech.)	298	881	1460	2400	3130	5240
		Efficiency %	60	65	68	70	77	78
40.0	29.00	Input Power HP (mechanical)	0.18	0.50	0.85	1.37	1.92	3.28
		Input Power HP (thermal)	0.49	0.88	1.38	1.88	3.61	4.32
		Output Power HP (mechanical)	0.09	0.30	0.54	0.89	1.40	2.46
		Output Torque lb.in (mech.)	190	642	1180	1940	3050	5340
		Efficiency %	50	59	64	65	73	75
50.0	23.20	Input Power HP (mechanical)	0.12	0.32	0.54	0.87	1.31	2.03
		Input Power HP (thermal)	0.40	0.67	1.00	1.39	2.70	3.11
		Output Power HP (mechanical)	0.06	0.17	0.32	0.52	0.91	1.43
		Output Torque lb.in (mech.)	151	468	856	1420	2480	3880
		Efficiency %	46	55	58	60	70	70
60.0	19.33	Input Power HP (mechanical)	0.09	0.24	0.38	0.60	0.91	1.37
		Input Power HP (thermal)	0.34	0.54	0.87	1.21	2.20	2.59
		Output Power HP (mechanical)	0.04	0.11	0.20	0.34	0.58	0.91
		Output Torque lb.in (mech.)	115	361	663	1100	1900	2960
		Efficiency %	39	47	54	57	64	66
70.0	16.57	Input Power HP (mechanical)	0.07	0.18	0.28	0.45	0.66	1.04
		Input Power HP (thermal)	0.28	0.46	0.71	0.96	1.71	2.02
		Output Power HP (mechanical)	0.02	0.08	0.14	0.23	0.39	0.64
		Output Torque lb.in (mech.)	92	296	520	887	1490	2430
		Efficiency %	35	44	50	52	59	61

SERIES AJ
RATINGS AT
1160 REV / MIN INPUT

DOUBLE REDUCTION

NOMINAL RATIO	NOMINAL OUTPUT SPEED REV / MIN	CAPACITY	SIZE OF UNIT				
			A0410	A0510	A0610	A0730	A0860
75.0	15.47	Input Power HP (mechanical)	0.35	0.52	0.92	1.36	2.28
		Input Power HP (thermal)	0.93	1.69	2.19	2.90	3.35
		Output Power HP (mechanical)	0.21	0.34	0.60	0.97	1.69
		Output Torque lb.in (mech.)	881	1410	2580	4020	6390
		Efficiency %	61	66	65	71	74
100.	11.60	Input Power HP (mechanical)	0.23	0.67	0.83	1.00	1.58
		Input Power HP (thermal)	0.90	1.08	1.57	2.63	2.86
		Output Power HP (mechanical)	0.13	0.38	0.48	0.68	1.12
		Output Torque lb.in (mech.)	740	2190	2760	3770	5690
		Efficiency %	58	57	58	68	71
125.	9.28	Input Power HP (mechanical)	0.25	0.57	0.80	0.96	1.71
		Input Power HP (thermal)	0.64	0.97	1.39	1.93	2.09
		Output Power HP (mechanical)	0.12	0.31	0.44	0.59	1.11
		Output Torque lb.in (mech.)	881	2190	3150	4210	7210
		Efficiency %	50	54	55	62	65
150.	7.73	Input Power HP (mechanical)	0.21	0.33	0.58	0.79	1.31
		Input Power HP (thermal)	0.81	1.22	1.86	1.96	2.65
		Output Power HP (mechanical)	0.11	0.19	0.34	0.51	0.87
		Output Torque lb.in (mech.)	881	1580	2900	4210	7210
		Efficiency %	52	57	58	64	67
200.	5.80	Input Power HP (mechanical)	0.15	0.39	0.53	0.59	0.92
		Input Power HP (thermal)	0.80	0.94	1.33	1.96	2.29
		Output Power HP (mechanical)	0.07	0.19	0.27	0.36	0.57
		Output Torque lb.in (mech.)	782	2190	3110	3990	6380
		Efficiency %	48	50	51	60	63
225.	5.16	Input Power HP (mechanical)	0.16	0.27	0.48	0.62	1.00
		Input Power HP (thermal)	0.77	1.00	1.77	1.54	2.40
		Output Power HP (mechanical)	0.08	0.15	0.26	0.37	0.63
		Output Torque lb.in (mech.)	881	1660	3050	4210	7210
		Efficiency %	48	53	53	59	63
250.	4.64	Input Power HP (mechanical)	0.15	0.33	0.46	0.55	0.90
		Input Power HP (thermal)	0.56	0.85	1.18	1.70	1.69
		Output Power HP (mechanical)	0.06	0.15	0.22	0.30	0.51
		Output Torque lb.in (mech.)	881	2190	3150	4210	7210
		Efficiency %	41	46	48	54	56
300.	3.87	Input Power HP (mechanical)	0.15	0.24	0.39	0.48	0.83
		Input Power HP (thermal)	0.64	0.66	1.66	1.44	1.61
		Output Power HP (mechanical)	0.06	0.11	0.20	0.27	0.46
		Output Torque lb.in (mech.)	881	1680	3150	4210	7210
		Efficiency %	38	44	51	57	55
350.	3.31	Input Power HP (mechanical)	0.12	0.26	0.37	0.44	0.35
		Input Power HP (thermal)	0.54	0.81	1.13	1.54	0.89
		Output Power HP (mechanical)	0.04	0.11	0.16	0.21	0.15
		Output Torque lb.in (mech.)	881	2190	3150	4210	2750
		Efficiency %	37	43	43	49	43
375.	3.09	Input Power HP (mechanical)	0.06	0.09	0.17	0.22	0.69
		Input Power HP (thermal)	0.34	0.52	0.75	0.83	1.58
		Output Power HP (mechanical)	0.02	0.03	0.05	0.09	0.37
		Output Torque lb.in (mech.)	337	592	1010	1700	7210
		Efficiency %	26	32	30	38	53
400.	2.90	Input Power HP (mechanical)	0.11	0.27	0.34	0.38	0.61
		Input Power HP (thermal)	0.64	0.66	1.19	1.44	1.61
		Output Power HP (mechanical)	0.04	0.10	0.15	0.20	0.31
		Output Torque lb.in (mech.)	815	2190	3150	4150	6650
		Efficiency %	34	38	44	53	51
450.	2.58	Input Power HP (mechanical)	0.11	0.23	0.33	0.38	0.60
		Input Power HP (thermal)	0.50	0.80	1.06	1.54	1.50
		Output Power HP (mechanical)	0.04	0.09	0.13	0.18	0.31
		Output Torque lb.in (mech.)	881	2180	3150	4210	7210
		Efficiency %	34	41	40	46	51
500.	2.32	Input Power HP (mechanical)	0.11	0.23	0.29	0.34	0.59
		Input Power HP (thermal)	0.57	0.66	1.06	1.44	1.61
		Output Power HP (mechanical)	0.03	0.08	0.12	0.16	0.27
		Output Torque lb.in (mech.)	881	2190	3150	4210	7210
		Efficiency %	29	35	41	46	45
600.	1.93	Input Power HP (mechanical)	0.10	0.20	0.26	0.30	0.51
		Input Power HP (thermal)	0.54	0.66	0.99	1.44	1.58
		Output Power HP (mechanical)	0.03	0.07	0.10	0.13	0.22
		Output Torque lb.in (mech.)	881	2190	3150	4210	7210
		Efficiency %	26	33	38	44	43
625.	1.86	Input Power HP (mechanical)	0.10	0.20	0.27	0.32	0.50
		Input Power HP (thermal)	0.56	0.61	1.11	1.04	1.45
		Output Power HP (mechanical)	0.03	0.06	0.09	0.12	0.21
		Output Torque lb.in (mech.)	881	2190	3150	4210	7210
		Efficiency %	26	33	34	39	42
700.	1.66	Input Power HP (mechanical)	0.08	0.08	0.18	0.18	0.28
		Input Power HP (thermal)	0.28	0.30	0.59	0.45	0.63
		Output Power HP (mechanical)	0.02	0.02	0.06	0.06	0.11
		Output Torque lb.in (mech.)	701	675	2110	2300	3970
		Efficiency %	21	21	32	33	38
750.	1.55	Input Power HP (mechanical)	0.09	0.17	0.24	0.28	0.44
		Input Power HP (thermal)	0.53	0.61	1.04	1.04	1.45
		Output Power HP (mechanical)	0.02	0.05	0.08	0.10	0.18
		Output Torque lb.in (mech.)	881	2190	3150	4210	7210
		Efficiency %	24	31	32	37	40
800.	1.45	Input Power HP (mechanical)	0.09	0.18	0.23	0.26	0.38
		Input Power HP (thermal)	0.45	0.47	0.95	0.84	1.24
		Output Power HP (mechanical)	0.02	0.05	0.07	0.10	0.16
		Output Torque lb.in (mech.)	845	2190	3150	4210	6890
		Efficiency %	23	28	31	38	43

SERIES AJ
RATINGS AT
1160 REV / MIN INPUT

DOUBLE REDUCTION

NOMINAL RATIO	NOMINAL OUTPUT SPEED REV / MIN	CAPACITY	SIZE OF UNIT				
			A0410	A0510	A0610	A0730	A0860
900.	1.29	Input Power HP (mechanical)	0.08	0.16	0.22	0.25	0.39
		Input Power HP (thermal)	0.53	0.57	1.03	0.95	1.36
		Output Power HP (mechanical)	0.02	0.04	0.06	0.09	0.15
		Output Torque lb.in (mech.)	881	2190	3150	4210	7210
		Efficiency %	22	29	29	34	38
1000.	1.16	Input Power HP (mechanical)	0.08	0.16	0.20	0.24	0.36
		Input Power HP (thermal)	0.45	0.47	0.95	0.84	1.24
		Output Power HP (mechanical)	0.02	0.04	0.06	0.08	0.13
		Output Torque lb.in (mech.)	881	2190	3150	4210	7210
		Efficiency %	19	25	28	33	37
1200.	0.97	Input Power HP (mechanical)	0.08	0.14	0.19	0.21	0.32
		Input Power HP (thermal)	0.45	0.47	0.95	0.84	1.24
		Output Power HP (mechanical)	0.01	0.03	0.05	0.06	0.11
		Output Torque lb.in (mech.)	881	2190	3150	4210	7210
		Efficiency %	17	24	26	31	35
1250.	0.93	Input Power HP (mechanical)	0.07	0.13	0.18	0.21	0.32
		Input Power HP (thermal)	0.39	0.41	0.81	0.65	0.89
		Output Power HP (mechanical)	0.01	0.03	0.05	0.06	0.11
		Output Torque lb.in (mech.)	881	2030	3150	4210	7210
		Efficiency %	18	23	26	30	33
1400.	0.83	Input Power HP (mechanical)	0.07	0.08	0.17	0.18	0.28
		Input Power HP (thermal)	0.28	0.30	0.59	0.45	0.63
		Output Power HP (mechanical)	0.01	0.01	0.04	0.05	0.10
		Output Torque lb.in (mech.)	869	1030	3150	3890	7090
		Efficiency %	16	16	24	29	34
1500.	0.77	Input Power HP (mechanical)	0.07	0.12	0.16	0.18	0.28
		Input Power HP (thermal)	0.39	0.41	0.81	0.65	0.89
		Output Power HP (mechanical)	0.01	0.03	0.04	0.05	0.09
		Output Torque lb.in (mech.)	881	2190	3150	4210	7210
		Efficiency %	16	22	24	28	31
1600.	0.73	Input Power HP (mechanical)	0.07	0.09	0.14	0.18	0.27
		Input Power HP (thermal)	0.45	0.47	0.94	0.84	1.24
		Output Power HP (mechanical)	0.010	0.02	0.03	0.05	0.08
		Output Torque lb.in (mech.)	842	1550	2550	4210	7210
		Efficiency %	14	19	21	27	31
1750.	0.66	Input Power HP (mechanical)	0.07	0.08	0.15	0.18	0.26
		Input Power HP (thermal)	0.28	0.30	0.59	0.45	0.63
		Output Power HP (mechanical)	0.009	0.01	0.03	0.04	0.08
		Output Torque lb.in (mech.)	881	1210	3150	4210	7210
		Efficiency %	13	15	22	25	29
1800.	0.64	Input Power HP (mechanical)	0.07	0.10	0.16	0.18	0.25
		Input Power HP (thermal)	0.34	0.36	0.68	0.53	0.78
		Output Power HP (mechanical)	0.009	0.02	0.03	0.04	0.07
		Output Torque lb.in (mech.)	881	1780	3150	4210	7210
		Efficiency %	13	18	21	24	29
2000.	0.58	Input Power HP (mechanical)	0.06	0.08	0.12	0.16	0.24
		Input Power HP (thermal)	0.39	0.41	0.81	0.65	0.89
		Output Power HP (mechanical)	0.008	0.01	0.02	0.04	0.07
		Output Torque lb.in (mech.)	855	1570	2590	4210	7210
		Efficiency %	13	17	19	25	28
2100.	0.55	Input Power HP (mechanical)	0.06	0.08	0.14	0.16	0.23
		Input Power HP (thermal)	0.28	0.30	0.59	0.45	0.63
		Output Power HP (mechanical)	0.008	0.01	0.03	0.04	0.06
		Output Torque lb.in (mech.)	881	1410	3150	4210	7210
		Efficiency %	12	15	20	24	27
2400.	0.48	Input Power HP (mechanical)	0.06	0.08	0.12	0.15	0.22
		Input Power HP (thermal)	0.34	0.36	0.68	0.53	0.78
		Output Power HP (mechanical)	0.007	0.01	0.02	0.03	0.06
		Output Torque lb.in (mech.)	865	1590	2620	4210	7210
		Efficiency %	11	15	16	21	26
2500.	0.46	Input Power HP (mechanical)	0.05	0.06	0.10	0.12	0.17
		Input Power HP (thermal)	0.39	0.41	0.81	0.65	0.89
		Output Power HP (mechanical)	0.004	0.008	0.01	0.02	0.04
		Output Torque lb.in (mech.)	616	1130	1870	3260	5110
		Efficiency %	9	13	14	20	22
2800.	0.41	Input Power HP (mechanical)	0.06	0.08	0.11	0.14	0.20
		Input Power HP (thermal)	0.28	0.30	0.59	0.45	0.63
		Output Power HP (mechanical)	0.006	0.01	0.02	0.03	0.05
		Output Torque lb.in (mech.)	874	1600	2640	4210	7210
		Efficiency %	10	14	16	20	24
3000.	0.39	Input Power HP (mechanical)	0.05	0.06	0.10	0.12	0.15
		Input Power HP (thermal)	0.34	0.36	0.68	0.53	0.78
		Output Power HP (mechanical)	0.004	0.007	0.01	0.02	0.03
		Output Torque lb.in (mech.)	623	1140	1890	3300	5170
		Efficiency %	8	11	12	17	21
3500.	0.33	Input Power HP (mechanical)	0.05	0.06	0.09	0.11	0.14
		Input Power HP (thermal)	0.28	0.30	0.59	0.45	0.63
		Output Power HP (mechanical)	0.003	0.006	0.01	0.02	0.03
		Output Torque lb.in (mech.)	629	1150	1910	3330	5220
		Efficiency %	7	10	12	16	19
3600.	0.32	Input Power HP (mechanical)	0.05	0.05	0.08	0.10	0.12
		Input Power HP (thermal)	0.34	0.36	0.68	0.53	0.78
		Output Power HP (mechanical)	0.002	0.004	0.007	0.01	0.02
		Output Torque lb.in (mech.)	476	874	1440	2500	3910
		Efficiency %	5	8	9	13	16
4200.	0.28	Input Power HP (mechanical)	0.04	0.05	0.07	0.09	0.11
		Input Power HP (thermal)	0.28	0.30	0.59	0.45	0.63
		Output Power HP (mechanical)	0.002	0.004	0.006	0.01	0.02
		Output Torque lb.in (mech.)	480	882	1460	2530	3940
		Efficiency %	5	7	9	12	15

SERIES AJ
RATINGS AT
875 REV / MIN INPUT

SINGLE REDUCTION

NOMINAL RATIO	NOMINAL OUTPUT SPEED REV / MIN	CAPACITY	SIZE OF UNIT					
			A0280	A0410	A0510	A0610	A0730	A0860
5.0	175.00	Input Power HP (mechanical)	0.64	1.52	2.91	4.26	7.05	10.30
		Input Power HP (thermal)	1.69	2.64	4.26	6.06	11.20	13.60
		Output Power HP (mechanical)	0.55	1.33	2.60	3.83	6.52	9.63
		Output Torque lb.in (mech.)	209	503	899	1380	2440	3350
		Efficiency %	87	88	89	90	92	93
7.5	116.67	Input Power HP (mechanical)	0.60	1.33	2.29	3.54	5.33	8.12
		Input Power HP (thermal)	1.38	2.22	3.52	5.19	9.74	11.50
		Output Power HP (mechanical)	0.50	1.13	1.99	3.11	4.87	7.45
		Output Torque lb.in (mech.)	265	597	1050	1640	2540	3890
		Efficiency %	84	85	87	88	91	92
10.0	87.50	Input Power HP (mechanical)	0.53	1.14	2.09	3.12	3.77	7.08
		Input Power HP (thermal)	1.07	1.79	2.74	4.50	8.07	9.72
		Output Power HP (mechanical)	0.42	0.93	1.75	2.69	3.37	6.39
		Output Torque lb.in (mech.)	320	703	1320	1870	2510	4450
		Efficiency %	79	82	84	86	89	90
12.5	70.00	Input Power HP (mechanical)	0.49	1.20	2.00	2.57	3.98	5.12
		Input Power HP (thermal)	0.90	1.55	2.45	3.63	6.56	8.64
		Output Power HP (mechanical)	0.37	0.95	1.63	2.13	3.48	4.56
		Output Torque lb.in (mech.)	331	859	1470	1920	3130	4160
		Efficiency %	76	80	82	83	87	89
15.0	58.33	Input Power HP (mechanical)	0.38	1.09	1.31	2.30	3.46	5.54
		Input Power HP (thermal)	0.89	1.42	2.39	3.26	6.15	7.26
		Output Power HP (mechanical)	0.28	0.84	1.05	1.86	2.99	4.83
		Output Torque lb.in (mech.)	297	881	1100	2010	3120	5040
		Efficiency %	75	77	80	81	86	87
20.0	43.75	Input Power HP (mechanical)	0.39	0.60	1.63	1.99	2.43	3.61
		Input Power HP (thermal)	0.59	1.32	1.62	2.39	5.19	6.10
		Output Power HP (mechanical)	0.25	0.45	1.18	1.49	2.04	3.05
		Output Torque lb.in (mech.)	364	632	1700	2140	2860	4280
		Efficiency %	65	75	72	75	84	84
25.0	35.00	Input Power HP (mechanical)	0.35	0.73	1.45	1.96	2.91	4.38
		Input Power HP (thermal)	0.55	0.96	1.46	2.14	3.71	4.35
		Output Power HP (mechanical)	0.22	0.49	1.01	1.40	2.28	3.46
		Output Torque lb.in (mech.)	389	881	1810	2520	4100	6230
		Efficiency %	62	67	69	71	78	79
30.0	29.17	Input Power HP (mechanical)	0.25	0.64	1.08	1.73	2.04	3.35
		Input Power HP (thermal)	0.51	0.88	1.37	1.94	3.44	4.06
		Output Power HP (mechanical)	0.14	0.41	0.72	1.19	1.55	2.59
		Output Torque lb.in (mech.)	309	881	1560	2560	3350	5600
		Efficiency %	58	64	67	69	76	77
40.0	21.88	Input Power HP (mechanical)	0.14	0.40	0.67	1.09	1.52	2.63
		Input Power HP (thermal)	0.43	0.79	1.25	1.71	2.96	3.50
		Output Power HP (mechanical)	0.07	0.23	0.42	0.70	1.09	1.93
		Output Torque lb.in (mech.)	197	664	1220	2010	3140	5570
		Efficiency %	49	58	63	64	72	74
50.0	17.50	Input Power HP (mechanical)	0.10	0.25	0.43	0.69	1.04	1.61
		Input Power HP (thermal)	0.35	0.61	0.91	1.27	2.23	2.53
		Output Power HP (mechanical)	0.04	0.13	0.25	0.41	0.71	1.11
		Output Torque lb.in (mech.)	156	483	883	1470	2560	4010
		Efficiency %	45	54	57	59	68	69
60.0	14.58	Input Power HP (mechanical)	0.07	0.19	0.30	0.47	0.72	1.09
		Input Power HP (thermal)	0.30	0.49	0.79	1.11	1.82	2.12
		Output Power HP (mechanical)	0.03	0.09	0.16	0.26	0.45	0.71
		Output Torque lb.in (mech.)	118	372	683	1130	1960	3050
		Efficiency %	39	47	53	55	63	65
70.0	12.50	Input Power HP (mechanical)	0.05	0.14	0.22	0.36	0.52	0.82
		Input Power HP (thermal)	0.25	0.42	0.65	0.88	1.43	1.66
		Output Power HP (mechanical)	0.02	0.06	0.11	0.18	0.31	0.49
		Output Torque lb.in (mech.)	95	304	535	912	1540	2490
		Efficiency %	35	44	49	51	59	60

SERIES AJ
RATINGS AT
875 REV / MIN INPUT

DOUBLE REDUCTION

NOMINAL RATIO	NOMINAL OUTPUT SPEED REV / MIN	CAPACITY	SIZE OF UNIT				
			A0410	A0510	A0610	A0730	A0860
75.0	11.67	Input Power HP (mechanical)	0.27	0.42	0.74	1.09	1.84
		Input Power HP (thermal)	0.85	1.55	2.00	2.56	2.95
		Output Power HP (mechanical)	0.16	0.27	0.48	0.77	1.34
		Output Torque lb.in (mech.)	881	1480	2720	4210	6730
		Efficiency %	60	64	64	70	73
100.	8.75	Input Power HP (mechanical)	0.18	0.52	0.67	0.78	1.28
		Input Power HP (thermal)	0.82	0.99	1.43	2.43	2.52
		Output Power HP (mechanical)	0.10	0.29	0.39	0.52	0.89
		Output Torque lb.in (mech.)	758	2190	2910	3860	5990
		Efficiency %	57	56	57	67	69
125.	7.00	Input Power HP (mechanical)	0.19	0.44	0.62	0.74	1.32
		Input Power HP (thermal)	0.58	0.89	1.26	1.78	1.85
		Output Power HP (mechanical)	0.09	0.23	0.33	0.45	0.83
		Output Torque lb.in (mech.)	881	2190	3150	4210	7210
		Efficiency %	49	53	54	60	63
150.	5.83	Input Power HP (mechanical)	0.16	0.27	0.47	0.61	1.01
		Input Power HP (thermal)	0.75	1.05	1.72	1.74	2.45
		Output Power HP (mechanical)	0.08	0.15	0.27	0.38	0.66
		Output Torque lb.in (mech.)	881	1650	3030	4210	7210
		Efficiency %	51	56	57	63	65
200.	4.38	Input Power HP (mechanical)	0.11	0.30	0.41	0.46	0.72
		Input Power HP (thermal)	0.74	0.88	1.22	1.74	2.12
		Output Power HP (mechanical)	0.05	0.15	0.21	0.28	0.44
		Output Torque lb.in (mech.)	797	2190	3150	4060	6500
		Efficiency %	48	48	50	59	61
225.	3.89	Input Power HP (mechanical)	0.12	0.21	0.38	0.48	0.77
		Input Power HP (thermal)	0.73	0.87	1.54	1.36	2.14
		Output Power HP (mechanical)	0.06	0.11	0.20	0.28	0.48
		Output Torque lb.in (mech.)	881	1680	3150	4210	7210
		Efficiency %	47	52	53	58	62
250.	3.50	Input Power HP (mechanical)	0.12	0.26	0.36	0.42	0.70
		Input Power HP (thermal)	0.52	0.79	1.09	1.55	1.56
		Output Power HP (mechanical)	0.05	0.12	0.17	0.22	0.38
		Output Torque lb.in (mech.)	881	2190	3150	4210	7210
		Efficiency %	41	45	47	53	55
300.	2.92	Input Power HP (mechanical)	0.11	0.19	0.30	0.37	0.64
		Input Power HP (thermal)	0.55	0.57	1.45	1.28	1.44
		Output Power HP (mechanical)	0.04	0.08	0.15	0.21	0.35
		Output Torque lb.in (mech.)	881	1680	3150	4210	7210
		Efficiency %	38	43	50	56	54
350.	2.50	Input Power HP (mechanical)	0.09	0.20	0.29	0.34	0.27
		Input Power HP (thermal)	0.50	0.76	1.05	1.36	0.79
		Output Power HP (mechanical)	0.03	0.08	0.12	0.16	0.12
		Output Torque lb.in (mech.)	881	2190	3150	4210	2790
		Efficiency %	37	42	42	48	42
375.	2.33	Input Power HP (mechanical)	0.05	0.07	0.13	0.17	0.54
		Input Power HP (thermal)	0.32	0.49	0.71	0.77	1.51
		Output Power HP (mechanical)	0.01	0.02	0.04	0.07	0.28
		Output Torque lb.in (mech.)	342	602	1030	1730	7210
		Efficiency %	26	32	30	38	52
400.	2.19	Input Power HP (mechanical)	0.09	0.21	0.26	0.30	0.48
		Input Power HP (thermal)	0.55	0.57	1.11	1.28	1.44
		Output Power HP (mechanical)	0.03	0.08	0.11	0.15	0.24
		Output Torque lb.in (mech.)	828	2190	3150	4210	6750
		Efficiency %	34	37	43	52	50
450.	1.94	Input Power HP (mechanical)	0.08	0.18	0.26	0.30	0.46
		Input Power HP (thermal)	0.47	0.75	0.98	1.36	1.43
		Output Power HP (mechanical)	0.03	0.07	0.10	0.13	0.23
		Output Torque lb.in (mech.)	881	2190	3150	4210	7210
		Efficiency %	34	40	39	45	50
500.	1.75	Input Power HP (mechanical)	0.09	0.18	0.22	0.27	0.46
		Input Power HP (thermal)	0.54	0.57	0.99	1.28	1.44
		Output Power HP (mechanical)	0.02	0.06	0.09	0.12	0.20
		Output Torque lb.in (mech.)	881	2190	3150	4210	7210
		Efficiency %	29	34	40	45	44
600.	1.46	Input Power HP (mechanical)	0.08	0.16	0.20	0.23	0.40
		Input Power HP (thermal)	0.50	0.57	0.93	1.28	1.44
		Output Power HP (mechanical)	0.02	0.05	0.07	0.10	0.17
		Output Torque lb.in (mech.)	881	2190	3150	4210	7210
		Efficiency %	26	32	37	43	42
625.	1.40	Input Power HP (mechanical)	0.07	0.15	0.21	0.24	0.39
		Input Power HP (thermal)	0.51	0.53	1.01	0.90	1.30
		Output Power HP (mechanical)	0.02	0.05	0.07	0.09	0.16
		Output Torque lb.in (mech.)	881	2190	3150	4210	7210
		Efficiency %	26	32	34	38	41
700.	1.25	Input Power HP (mechanical)	0.06	0.06	0.14	0.14	0.22
		Input Power HP (thermal)	0.25	0.27	0.53	0.41	0.58
		Output Power HP (mechanical)	0.01	0.01	0.04	0.05	0.08
		Output Torque lb.in (mech.)	716	690	2160	2360	4060
		Efficiency %	21	21	31	33	38
750.	1.17	Input Power HP (mechanical)	0.07	0.13	0.19	0.22	0.34
		Input Power HP (thermal)	0.50	0.53	0.98	0.90	1.30
		Output Power HP (mechanical)	0.02	0.04	0.06	0.08	0.13
		Output Torque lb.in (mech.)	881	2190	3150	4210	7210
		Efficiency %	24	30	31	36	39
800.	1.09	Input Power HP (mechanical)	0.07	0.14	0.18	0.20	0.30
		Input Power HP (thermal)	0.40	0.41	0.83	0.73	1.12
		Output Power HP (mechanical)	0.02	0.04	0.05	0.07	0.12
		Output Torque lb.in (mech.)	855	2190	3150	4210	6970
		Efficiency %	23	27	31	37	42

SERIES AJ
RATINGS AT
875 REV / MIN INPUT

DOUBLE REDUCTION

NOMINAL RATIO	NOMINAL OUTPUT SPEED REV / MIN	CAPACITY	SIZE OF UNIT				
			A0410	A0510	A0610	A0730	A0860
900.	0.97	Input Power HP (mechanical)	0.06	0.12	0.17	0.19	0.30
		Input Power HP (thermal)	0.48	0.49	0.93	0.82	1.23
		Output Power HP (mechanical)	0.01	0.03	0.05	0.06	0.11
		Output Torque lb.in (mech.)	881	2190	3150	4210	7210
		Efficiency %	22	28	29	34	37
1000.	0.88	Input Power HP (mechanical)	0.06	0.12	0.16	0.18	0.28
		Input Power HP (thermal)	0.40	0.41	0.83	0.73	1.12
		Output Power HP (mechanical)	0.01	0.03	0.04	0.06	0.10
		Output Torque lb.in (mech.)	881	2190	3150	4210	7210
		Efficiency %	19	25	28	32	36
1200.	0.73	Input Power HP (mechanical)	0.06	0.11	0.14	0.16	0.24
		Input Power HP (thermal)	0.40	0.41	0.83	0.73	1.12
		Output Power HP (mechanical)	0.01	0.03	0.04	0.05	0.08
		Output Torque lb.in (mech.)	881	2190	3150	4210	7210
		Efficiency %	17	23	26	30	34
1250.	0.70	Input Power HP (mechanical)	0.06	0.10	0.14	0.16	0.25
		Input Power HP (thermal)	0.34	0.35	0.71	0.59	0.81
		Output Power HP (mechanical)	0.010	0.02	0.04	0.05	0.08
		Output Torque lb.in (mech.)	881	2070	3150	4210	7210
		Efficiency %	18	23	26	30	32
1400.	0.63	Input Power HP (mechanical)	0.05	0.06	0.13	0.14	0.22
		Input Power HP (thermal)	0.25	0.27	0.53	0.41	0.58
		Output Power HP (mechanical)	0.009	0.01	0.03	0.04	0.07
		Output Torque lb.in (mech.)	881	1050	3150	3970	7210
		Efficiency %	17	16	24	29	33
1500.	0.58	Input Power HP (mechanical)	0.05	0.09	0.12	0.14	0.22
		Input Power HP (thermal)	0.34	0.35	0.71	0.59	0.81
		Output Power HP (mechanical)	0.008	0.02	0.03	0.04	0.07
		Output Torque lb.in (mech.)	881	2190	3150	4210	7210
		Efficiency %	16	22	24	28	31
1600.	0.55	Input Power HP (mechanical)	0.05	0.07	0.11	0.14	0.20
		Input Power HP (thermal)	0.40	0.41	0.83	0.73	1.12
		Output Power HP (mechanical)	0.007	0.01	0.02	0.04	0.06
		Output Torque lb.in (mech.)	858	1580	2600	4210	7210
		Efficiency %	14	19	21	26	31
1750.	0.50	Input Power HP (mechanical)	0.05	0.06	0.12	0.13	0.20
		Input Power HP (thermal)	0.25	0.27	0.53	0.41	0.58
		Output Power HP (mechanical)	0.007	0.010	0.02	0.03	0.06
		Output Torque lb.in (mech.)	881	1240	3150	4210	7210
		Efficiency %	13	16	22	25	28
1800.	0.49	Input Power HP (mechanical)	0.05	0.08	0.12	0.14	0.20
		Input Power HP (thermal)	0.30	0.31	0.60	0.48	0.71
		Output Power HP (mechanical)	0.007	0.01	0.02	0.03	0.06
		Output Torque lb.in (mech.)	881	1810	3150	4210	7210
		Efficiency %	13	18	20	24	29
2000.	0.44	Input Power HP (mechanical)	0.05	0.06	0.10	0.12	0.18
		Input Power HP (thermal)	0.34	0.35	0.71	0.59	0.81
		Output Power HP (mechanical)	0.006	0.01	0.02	0.03	0.05
		Output Torque lb.in (mech.)	871	1600	2630	4210	7210
		Efficiency %	13	17	19	24	27
2100.	0.42	Input Power HP (mechanical)	0.05	0.06	0.11	0.12	0.18
		Input Power HP (thermal)	0.25	0.27	0.53	0.41	0.58
		Output Power HP (mechanical)	0.006	0.009	0.02	0.03	0.05
		Output Torque lb.in (mech.)	881	1440	3150	4210	7210
		Efficiency %	12	15	19	23	27
2400.	0.36	Input Power HP (mechanical)	0.05	0.06	0.09	0.12	0.17
		Input Power HP (thermal)	0.30	0.31	0.60	0.48	0.71
		Output Power HP (mechanical)	0.005	0.009	0.02	0.02	0.04
		Output Torque lb.in (mech.)	880	1620	2660	4210	7210
		Efficiency %	11	15	16	21	25
2500.	0.35	Input Power HP (mechanical)	0.04	0.05	0.07	0.09	0.13
		Input Power HP (thermal)	0.34	0.35	0.71	0.59	0.81
		Output Power HP (mechanical)	0.003	0.006	0.01	0.02	0.03
		Output Torque lb.in (mech.)	627	1150	1900	3320	5200
		Efficiency %	10	13	15	20	22
2800.	0.31	Input Power HP (mechanical)	0.04	0.06	0.08	0.10	0.15
		Input Power HP (thermal)	0.25	0.27	0.53	0.41	0.58
		Output Power HP (mechanical)	0.004	0.008	0.01	0.02	0.04
		Output Torque lb.in (mech.)	881	1630	2690	4210	7210
		Efficiency %	10	14	16	20	24
3000.	0.29	Input Power HP (mechanical)	0.04	0.05	0.07	0.09	0.12
		Input Power HP (thermal)	0.30	0.31	0.60	0.48	0.71
		Output Power HP (mechanical)	0.003	0.005	0.009	0.02	0.02
		Output Torque lb.in (mech.)	633	1160	1920	3360	5260
		Efficiency %	8	11	12	17	21
3500.	0.25	Input Power HP (mechanical)	0.04	0.05	0.07	0.08	0.11
		Input Power HP (thermal)	0.25	0.27	0.53	0.41	0.58
		Output Power HP (mechanical)	0.002	0.005	0.008	0.01	0.02
		Output Torque lb.in (mech.)	639	1170	1940	3390	5300
		Efficiency %	7	10	12	17	19
3600.	0.24	Input Power HP (mechanical)	0.03	0.04	0.06	0.07	0.09
		Input Power HP (thermal)	0.30	0.31	0.60	0.48	0.71
		Output Power HP (mechanical)	0.002	0.003	0.006	0.010	0.02
		Output Torque lb.in (mech.)	484	889	1470	2550	3970
		Efficiency %	6	9	9	13	17
4200.	0.21	Input Power HP (mechanical)	0.03	0.04	0.06	0.07	0.09
		Input Power HP (thermal)	0.25	0.27	0.53	0.41	0.58
		Output Power HP (mechanical)	0.002	0.003	0.005	0.008	0.01
		Output Torque lb.in (mech.)	488	897	1480	2570	4000
		Efficiency %	5	8	9	13	15

SERIES AJ
RATINGS AT
500 REV / MIN INPUT

SINGLE REDUCTION

NOMINAL RATIO	NOMINAL OUTPUT SPEED REV / MIN	CAPACITY	SIZE OF UNIT					
			A0280	A0410	A0510	A0610	A0730	A0860
5.0	100.00	Input Power HP (mechanical)	0.36	1.07	1.67	2.43	4.91	5.90
		Input Power HP (thermal)	1.27	2.07	3.31	4.78	7.33	8.59
		Output Power HP (mechanical)	0.31	0.93	1.46	2.14	4.49	5.44
		Output Torque lb.in (mech.)	205	614	884	1350	2940	3310
		Efficiency %	85	87	88	88	91	92
7.5	66.67	Input Power HP (mechanical)	0.39	0.93	1.61	2.37	3.12	5.03
		Input Power HP (thermal)	1.05	1.75	2.77	4.14	6.41	7.38
		Output Power HP (mechanical)	0.32	0.78	1.37	2.06	2.81	4.56
		Output Torque lb.in (mech.)	295	721	1270	1900	2570	4170
		Efficiency %	82	85	87	90	91	
10.0	50.00	Input Power HP (mechanical)	0.35	0.74	1.36	1.96	2.15	4.36
		Input Power HP (thermal)	0.81	1.42	2.18	3.61	5.35	6.24
		Output Power HP (mechanical)	0.27	0.59	1.11	1.66	1.90	3.88
		Output Torque lb.in (mech.)	357	784	1470	2020	2470	4720
		Efficiency %	78	80	82	85	88	89
12.5	40.00	Input Power HP (mechanical)	0.33	0.72	1.31	1.68	2.59	2.93
		Input Power HP (thermal)	0.68	1.24	1.95	2.93	4.37	5.57
		Output Power HP (mechanical)	0.24	0.56	1.04	1.36	2.22	2.56
		Output Torque lb.in (mech.)	380	881	1640	2140	3490	4090
		Efficiency %	74	77	79	81	86	87
15.0	33.33	Input Power HP (mechanical)	0.24	0.64	0.83	1.45	2.16	3.32
		Input Power HP (thermal)	0.68	1.13	1.91	2.64	4.10	4.70
		Output Power HP (mechanical)	0.18	0.48	0.65	1.15	1.83	2.84
		Output Torque lb.in (mech.)	322	881	1190	2170	3340	5180
		Efficiency %	73	75	79	79	85	85
20.0	25.00	Input Power HP (mechanical)	0.27	0.38	1.08	1.32	1.39	2.06
		Input Power HP (thermal)	0.45	1.06	1.30	1.90	3.48	3.97
		Output Power HP (mechanical)	0.17	0.28	0.76	0.95	1.14	1.70
		Output Torque lb.in (mech.)	432	680	1910	2390	2790	4180
		Efficiency %	63	73	70	72	82	83
25.0	20.00	Input Power HP (mechanical)	0.22	0.43	1.01	1.30	1.77	2.90
		Input Power HP (thermal)	0.42	0.76	1.17	1.67	2.51	2.86
		Output Power HP (mechanical)	0.13	0.28	0.67	0.90	1.34	2.22
		Output Torque lb.in (mech.)	421	881	2120	2820	4210	6980
		Efficiency %	60	64	67	69	76	76
30.0	16.67	Input Power HP (mechanical)	0.16	0.38	0.68	1.12	1.26	2.08
		Input Power HP (thermal)	0.39	0.70	1.11	1.52	2.34	2.67
		Output Power HP (mechanical)	0.09	0.23	0.44	0.73	0.93	1.55
		Output Torque lb.in (mech.)	330	881	1660	2770	3500	5850
		Efficiency %	56	61	64	65	73	74
40.0	12.50	Input Power HP (mechanical)	0.09	0.25	0.41	0.69	0.87	1.50
		Input Power HP (thermal)	0.33	0.63	1.02	1.35	2.03	2.32
		Output Power HP (mechanical)	0.04	0.14	0.25	0.42	0.60	1.06
		Output Torque lb.in (mech.)	208	703	1250	2130	3010	5330
		Efficiency %	47	56	60	61	69	71
50.0	10.00	Input Power HP (mechanical)	0.06	0.16	0.27	0.44	0.65	1.01
		Input Power HP (thermal)	0.28	0.50	0.75	1.07	1.54	1.69
		Output Power HP (mechanical)	0.03	0.08	0.15	0.25	0.43	0.67
		Output Torque lb.in (mech.)	164	509	931	1550	2680	4220
		Efficiency %	44	52	55	56	66	66
60.0	8.33	Input Power HP (mechanical)	0.04	0.12	0.19	0.30	0.45	0.68
		Input Power HP (thermal)	0.24	0.41	0.66	0.93	1.27	1.43
		Output Power HP (mechanical)	0.02	0.05	0.09	0.16	0.27	0.43
		Output Torque lb.in (mech.)	124	391	718	1190	2060	3210
		Efficiency %	38	45	51	53	61	62
70.0	7.14	Input Power HP (mechanical)	0.03	0.08	0.13	0.22	0.33	0.51
		Input Power HP (thermal)	0.20	0.35	0.54	0.75	1.00	1.13
		Output Power HP (mechanical)	0.01	0.04	0.06	0.11	0.18	0.30
		Output Torque lb.in (mech.)	99	319	561	956	1610	2610
		Efficiency %	34	43	47	48	56	58

SERIES AJ
RATINGS AT
500 REV / MIN INPUT

DOUBLE REDUCTION

NOMINAL RATIO	NOMINAL OUTPUT SPEED REV / MIN	CAPACITY	SIZE OF UNIT				
			A0410	A0510	A0610	A0730	A0860
75.0	6.67	Input Power HP (mechanical)	0.16	0.27	0.48	0.64	1.17
		Input Power HP (thermal)	0.73	1.32	1.70	2.01	2.49
		Output Power HP (mechanical)	0.09	0.17	0.30	0.44	0.82
		Output Torque lb.in (mech.)	881	1620	2960	4210	7210
		Efficiency %	59	63	62	68	70
100.	5.00	Input Power HP (mechanical)	0.11	0.31	0.43	0.48	0.81
		Input Power HP (thermal)	0.71	0.85	1.21	2.01	2.14
		Output Power HP (mechanical)	0.06	0.17	0.24	0.31	0.54
		Output Torque lb.in (mech.)	790	2190	3150	4030	6400
		Efficiency %	56	54	55	65	67
125.	4.00	Input Power HP (mechanical)	0.11	0.26	0.37	0.44	0.79
		Input Power HP (thermal)	0.50	0.76	1.07	1.54	1.57
		Output Power HP (mechanical)	0.05	0.13	0.19	0.26	0.48
		Output Torque lb.in (mech.)	881	2190	3150	4210	7210
		Efficiency %	48	51	52	58	60
150.	3.33	Input Power HP (mechanical)	0.09	0.16	0.29	0.36	0.60
		Input Power HP (thermal)	0.66	0.79	1.49	1.36	1.95
		Output Power HP (mechanical)	0.05	0.09	0.16	0.22	0.38
		Output Torque lb.in (mech.)	881	1680	3150	4210	7210
		Efficiency %	50	55	56	61	63
200.	2.50	Input Power HP (mechanical)	0.07	0.18	0.25	0.28	0.44
		Input Power HP (thermal)	0.65	0.77	1.06	1.36	1.94
		Output Power HP (mechanical)	0.03	0.08	0.12	0.16	0.26
		Output Torque lb.in (mech.)	824	2190	3150	4200	6720
		Efficiency %	47	46	48	58	59
225.	2.22	Input Power HP (mechanical)	0.07	0.13	0.23	0.28	0.46
		Input Power HP (thermal)	0.63	0.65	1.16	1.03	1.71
		Output Power HP (mechanical)	0.03	0.06	0.12	0.16	0.27
		Output Torque lb.in (mech.)	881	1670	3150	4210	7210
		Efficiency %	46	50	51	56	60
250.	2.00	Input Power HP (mechanical)	0.07	0.15	0.21	0.25	0.42
		Input Power HP (thermal)	0.46	0.69	0.94	1.34	1.43
		Output Power HP (mechanical)	0.03	0.07	0.10	0.13	0.22
		Output Torque lb.in (mech.)	881	2190	3150	4210	7210
		Efficiency %	40	44	45	50	52
300.	1.67	Input Power HP (mechanical)	0.07	0.11	0.18	0.22	0.39
		Input Power HP (thermal)	0.42	0.43	1.11	0.98	1.16
		Output Power HP (mechanical)	0.02	0.05	0.09	0.12	0.20
		Output Torque lb.in (mech.)	881	1670	3150	4210	7210
		Efficiency %	37	42	49	54	51
350.	1.43	Input Power HP (mechanical)	0.05	0.12	0.17	0.20	0.17
		Input Power HP (thermal)	0.45	0.65	0.92	1.03	0.68
		Output Power HP (mechanical)	0.02	0.05	0.07	0.09	0.07
		Output Torque lb.in (mech.)	881	2190	3150	4210	2870
		Efficiency %	36	40	41	46	40
375.	1.33	Input Power HP (mechanical)	0.03	0.04	0.08	0.11	0.32
		Input Power HP (thermal)	0.30	0.46	0.64	0.69	1.37
		Output Power HP (mechanical)	0.008	0.01	0.02	0.04	0.16
		Output Torque lb.in (mech.)	352	618	1050	1780	7210
		Efficiency %	27	32	30	37	49
400.	1.25	Input Power HP (mechanical)	0.05	0.12	0.15	0.18	0.29
		Input Power HP (thermal)	0.42	0.43	0.98	0.98	1.16
		Output Power HP (mechanical)	0.02	0.04	0.06	0.09	0.14
		Output Torque lb.in (mech.)	850	2190	3150	4210	6930
		Efficiency %	34	35	42	50	48
450.	1.11	Input Power HP (mechanical)	0.05	0.10	0.15	0.18	0.28
		Input Power HP (thermal)	0.42	0.65	0.87	1.03	1.32
		Output Power HP (mechanical)	0.02	0.04	0.06	0.08	0.13
		Output Torque lb.in (mech.)	881	2190	3150	4210	7210
		Efficiency %	33	38	38	44	47
500.	1.00	Input Power HP (mechanical)	0.05	0.11	0.13	0.16	0.27
		Input Power HP (thermal)	0.42	0.43	0.87	0.98	1.16
		Output Power HP (mechanical)	0.01	0.03	0.05	0.07	0.11
		Output Torque lb.in (mech.)	881	2190	3150	4210	7210
		Efficiency %	28	33	39	43	42
600.	0.83	Input Power HP (mechanical)	0.05	0.09	0.12	0.14	0.24
		Input Power HP (thermal)	0.42	0.43	0.82	0.98	1.16
		Output Power HP (mechanical)	0.01	0.03	0.04	0.06	0.10
		Output Torque lb.in (mech.)	881	2190	3150	4210	7210
		Efficiency %	26	31	36	41	40
625.	0.80	Input Power HP (mechanical)	0.04	0.09	0.12	0.15	0.24
		Input Power HP (thermal)	0.39	0.40	0.77	0.69	1.03
		Output Power HP (mechanical)	0.01	0.03	0.04	0.05	0.09
		Output Torque lb.in (mech.)	881	2190	3150	4210	7210
		Efficiency %	26	31	33	37	39
700.	0.71	Input Power HP (mechanical)	0.04	0.04	0.09	0.08	0.14
		Input Power HP (thermal)	0.20	0.21	0.44	0.34	0.49
		Output Power HP (mechanical)	0.008	0.008	0.03	0.03	0.05
		Output Torque lb.in (mech.)	745	717	2240	2450	4210
		Efficiency %	21	21	30	32	36
750.	0.67	Input Power HP (mechanical)	0.04	0.08	0.11	0.13	0.21
		Input Power HP (thermal)	0.39	0.40	0.77	0.69	1.03
		Output Power HP (mechanical)	0.009	0.02	0.03	0.04	0.08
		Output Torque lb.in (mech.)	881	2190	3150	4210	7210
		Efficiency %	24	29	30	35	37
800.	0.63	Input Power HP (mechanical)	0.04	0.08	0.11	0.12	0.18
		Input Power HP (thermal)	0.30	0.32	0.64	0.57	0.91
		Output Power HP (mechanical)	0.009	0.02	0.03	0.04	0.07
		Output Torque lb.in (mech.)	881	2190	3150	4210	7210
		Efficiency %	23	26	30	36	40

RATINGS AT 500 REV / MIN INPUT

	NOMINAL RATIO	NOMINAL OUTPUT SPEED REV / MIN	CAPACITY	SIZE OF UNIT				
				A0410	A0510	A0610	A0730	A0860
DOUBLE REDUCTION	900.	0.56	Input Power HP (mechanical)	0.04	0.07	0.10	0.12	0.18
			Input Power HP (thermal)	0.37	0.38	0.71	0.64	0.99
			Output Power HP (mechanical)	0.008	0.02	0.03	0.04	0.06
			Output Torque lb.in (mech.)	881	2190	3150	4210	7210
			Efficiency %	22	27	28	32	36
	1000.	0.50	Input Power HP (mechanical)	0.04	0.07	0.09	0.11	0.17
			Input Power HP (thermal)	0.30	0.32	0.64	0.57	0.91
			Output Power HP (mechanical)	0.007	0.02	0.02	0.03	0.06
			Output Torque lb.in (mech.)	881	2190	3150	4210	7210
			Efficiency %	19	24	27	31	34
	1200.	0.42	Input Power HP (mechanical)	0.03	0.07	0.08	0.10	0.15
			Input Power HP (thermal)	0.30	0.32	0.64	0.57	0.91
			Output Power HP (mechanical)	0.006	0.01	0.02	0.03	0.05
			Output Torque lb.in (mech.)	881	2190	3150	4210	7210
			Efficiency %	17	22	25	29	33
	1250.	0.40	Input Power HP (mechanical)	0.03	0.06	0.08	0.09	0.15
			Input Power HP (thermal)	0.27	0.28	0.56	0.49	0.67
			Output Power HP (mechanical)	0.006	0.01	0.02	0.03	0.05
			Output Torque lb.in (mech.)	881	2140	3150	4210	7210
			Efficiency %	17	22	25	28	31
	1400.	0.36	Input Power HP (mechanical)	0.03	0.04	0.08	0.08	0.13
			Input Power HP (thermal)	0.20	0.21	0.44	0.34	0.49
			Output Power HP (mechanical)	0.005	0.006	0.02	0.02	0.04
			Output Torque lb.in (mech.)	881	1080	3150	4110	7210
			Efficiency %	17	16	23	28	32
	1500.	0.33	Input Power HP (mechanical)	0.03	0.06	0.07	0.08	0.13
			Input Power HP (thermal)	0.27	0.28	0.56	0.49	0.67
			Output Power HP (mechanical)	0.005	0.01	0.02	0.02	0.04
			Output Torque lb.in (mech.)	881	2190	3150	4210	7210
			Efficiency %	16	21	23	27	29
	1600.	0.31	Input Power HP (mechanical)	0.03	0.04	0.06	0.08	0.12
			Input Power HP (thermal)	0.30	0.32	0.64	0.57	0.91
			Output Power HP (mechanical)	0.004	0.008	0.01	0.02	0.04
			Output Torque lb.in (mech.)	881	1630	2690	4210	7210
			Efficiency %	15	19	21	26	29
	1750.	0.29	Input Power HP (mechanical)	0.03	0.04	0.07	0.08	0.12
			Input Power HP (thermal)	0.20	0.21	0.44	0.34	0.49
			Output Power HP (mechanical)	0.004	0.006	0.01	0.02	0.03
			Output Torque lb.in (mech.)	881	1270	3150	4210	7210
			Efficiency %	13	15	21	24	27
	1800.	0.28	Input Power HP (mechanical)	0.03	0.05	0.07	0.08	0.12
			Input Power HP (thermal)	0.24	0.24	0.47	0.40	0.59
			Output Power HP (mechanical)	0.004	0.008	0.01	0.02	0.03
			Output Torque lb.in (mech.)	881	1870	3150	4210	7210
			Efficiency %	13	17	20	23	27
	2000.	0.25	Input Power HP (mechanical)	0.03	0.04	0.06	0.07	0.11
			Input Power HP (thermal)	0.27	0.28	0.56	0.49	0.67
			Output Power HP (mechanical)	0.003	0.006	0.01	0.02	0.03
			Output Torque lb.in (mech.)	881	1650	2720	4210	7210
			Efficiency %	13	17	19	24	26
	2100.	0.24	Input Power HP (mechanical)	0.03	0.04	0.06	0.07	0.11
			Input Power HP (thermal)	0.20	0.21	0.44	0.34	0.49
			Output Power HP (mechanical)	0.003	0.006	0.01	0.02	0.03
			Output Torque lb.in (mech.)	881	1480	3150	4210	7210
			Efficiency %	12	15	19	22	26
	2400.	0.21	Input Power HP (mechanical)	0.03	0.04	0.06	0.07	0.10
			Input Power HP (thermal)	0.24	0.24	0.47	0.40	0.59
			Output Power HP (mechanical)	0.003	0.005	0.009	0.01	0.02
			Output Torque lb.in (mech.)	881	1670	2750	4210	7210
			Efficiency %	11	15	16	20	24
	2500.	0.20	Input Power HP (mechanical)	0.02	0.03	0.04	0.05	0.08
			Input Power HP (thermal)	0.27	0.28	0.56	0.49	0.67
			Output Power HP (mechanical)	0.002	0.004	0.006	0.01	0.02
			Output Torque lb.in (mech.)	647	1180	1960	3430	5370
			Efficiency %	10	13	15	20	22
	2800.	0.18	Input Power HP (mechanical)	0.02	0.04	0.05	0.06	0.09
			Input Power HP (thermal)	0.20	0.21	0.44	0.34	0.49
			Output Power HP (mechanical)	0.002	0.005	0.008	0.01	0.02
			Output Torque lb.in (mech.)	881	1680	2780	4210	7210
			Efficiency %	10	14	16	20	23
	3000.	0.17	Input Power HP (mechanical)	0.02	0.03	0.04	0.05	0.07
			Input Power HP (thermal)	0.24	0.24	0.47	0.40	0.59
			Output Power HP (mechanical)	0.002	0.003	0.005	0.009	0.01
			Output Torque lb.in (mech.)	654	1190	1980	3460	5420
			Efficiency %	8	11	12	17	20
	3500.	0.14	Input Power HP (mechanical)	0.02	0.03	0.04	0.05	0.07
			Input Power HP (thermal)	0.20	0.21	0.44	0.34	0.49
			Output Power HP (mechanical)	0.002	0.003	0.004	0.008	0.01
			Output Torque lb.in (mech.)	659	1200	2000	3490	5470
			Efficiency %	8	10	12	16	19
	3600.	0.14	Input Power HP (mechanical)	0.02	0.02	0.03	0.04	0.05
			Input Power HP (thermal)	0.24	0.24	0.47	0.40	0.59
			Output Power HP (mechanical)	0.001	0.002	0.003	0.006	0.009
			Output Torque lb.in (mech.)	499	916	1510	2620	4090
			Efficiency %	6	9	10	13	17
	4200.	0.12	Input Power HP (mechanical)	0.02	0.02	0.03	0.04	0.05
			Input Power HP (thermal)	0.20	0.21	0.44	0.34	0.49
			Output Power HP (mechanical)	0.001	0.002	0.003	0.005	0.008
			Output Torque lb.in (mech.)	503	923	1530	2650	4120
			Efficiency %	5	8	9	13	15

SERIES AJ
RATINGS AT
250 REV / MIN INPUT

SINGLE REDUCTION

NOMINAL RATIO	NOMINAL OUTPUT SPEED REV / MIN	CAPACITY	SIZE OF UNIT					
			A0280	A0410	A0510	A0610	A0730	A0860
5.0	50.00	Input Power HP (mechanical)	0.18	0.68	0.83	1.22	2.45	2.95
		Input Power HP (thermal)	1.01	1.62	2.59	3.83	4.95	5.42
		Output Power HP (mechanical)	0.15	0.58	0.72	1.06	2.21	2.67
		Output Torque lb.in (mech.)	202	765	867	1330	2890	3250
		Efficiency %	84	85	86	87	90	90
7.5	33.33	Input Power HP (mechanical)	0.19	0.58	0.84	1.18	1.56	2.52
		Input Power HP (thermal)	0.83	1.38	2.19	3.35	4.37	4.71
		Output Power HP (mechanical)	0.16	0.48	0.70	1.00	1.38	2.24
		Output Torque lb.in (mech.)	288	881	1300	1850	2520	4090
		Efficiency %	81	82	84	85	88	89
10.0	25.00	Input Power HP (mechanical)	0.17	0.42	0.78	0.98	1.08	2.18
		Input Power HP (thermal)	0.62	1.11	1.72	2.84	3.68	4.01
		Output Power HP (mechanical)	0.13	0.33	0.62	0.81	0.93	1.90
		Output Torque lb.in (mech.)	348	880	1630	1980	2420	4620
		Efficiency %	76	78	79	83	86	87
12.5	20.00	Input Power HP (mechanical)	0.18	0.37	0.68	0.90	1.30	1.46
		Input Power HP (thermal)	0.51	0.94	1.55	2.24	3.02	3.60
		Output Power HP (mechanical)	0.13	0.28	0.52	0.71	1.08	1.25
		Output Torque lb.in (mech.)	413	881	1640	2230	3410	3990
		Efficiency %	72	75	77	79	83	86
15.0	16.67	Input Power HP (mechanical)	0.13	0.33	0.41	0.73	1.08	1.66
		Input Power HP (thermal)	0.52	0.85	1.54	2.02	2.84	3.05
		Output Power HP (mechanical)	0.10	0.24	0.32	0.56	0.89	1.38
		Output Torque lb.in (mech.)	349	881	1160	2100	3250	5030
		Efficiency %	71	73	77	77	82	83
20.0	12.50	Input Power HP (mechanical)	0.17	0.21	0.62	0.76	0.70	1.03
		Input Power HP (thermal)	0.35	0.82	0.99	1.44	2.43	2.60
		Output Power HP (mechanical)	0.10	0.15	0.41	0.52	0.55	0.82
		Output Torque lb.in (mech.)	506	730	2080	2640	2700	4050
		Efficiency %	60	71	67	69	79	80
25.0	10.00	Input Power HP (mechanical)	0.13	0.23	0.52	0.71	0.93	1.47
		Input Power HP (thermal)	0.33	0.57	0.88	1.27	1.77	1.89
		Output Power HP (mechanical)	0.07	0.14	0.33	0.46	0.67	1.07
		Output Torque lb.in (mech.)	450	881	2070	2920	4210	6750
		Efficiency %	57	62	63	66	72	73
30.0	8.33	Input Power HP (mechanical)	0.09	0.20	0.34	0.56	0.63	1.04
		Input Power HP (thermal)	0.31	0.53	0.86	1.17	1.65	1.77
		Output Power HP (mechanical)	0.05	0.12	0.21	0.35	0.44	0.74
		Output Torque lb.in (mech.)	351	881	1570	2630	3340	5580
		Efficiency %	54	58	61	62	70	71
40.0	6.25	Input Power HP (mechanical)	0.05	0.14	0.21	0.38	0.43	0.75
		Input Power HP (thermal)	0.26	0.48	0.80	1.05	1.45	1.55
		Output Power HP (mechanical)	0.02	0.07	0.12	0.22	0.28	0.50
		Output Torque lb.in (mech.)	220	744	1190	2200	2860	5050
		Efficiency %	45	53	57	58	65	67
50.0	5.00	Input Power HP (mechanical)	0.03	0.09	0.15	0.24	0.32	0.52
		Input Power HP (thermal)	0.23	0.41	0.62	0.88	1.11	1.15
		Output Power HP (mechanical)	0.01	0.04	0.08	0.13	0.20	0.32
		Output Torque lb.in (mech.)	173	537	982	1630	2540	4060
		Efficiency %	42	50	52	53	62	62
60.0	4.17	Input Power HP (mechanical)	0.02	0.06	0.10	0.17	0.25	0.38
		Input Power HP (thermal)	0.20	0.34	0.55	0.80	0.92	0.97
		Output Power HP (mechanical)	0.009	0.03	0.05	0.08	0.14	0.22
		Output Torque lb.in (mech.)	131	411	755	1250	2160	3370
		Efficiency %	37	43	48	50	57	59
70.0	3.57	Input Power HP (mechanical)	0.02	0.05	0.07	0.12	0.18	0.29
		Input Power HP (thermal)	0.17	0.29	0.46	0.65	0.73	0.77
		Output Power HP (mechanical)	0.006	0.02	0.03	0.06	0.10	0.16
		Output Torque lb.in (mech.)	104	335	588	1000	1690	2740
		Efficiency %	33	41	45	46	53	54

SERIES AJ
RATINGS AT
250 REV / MIN INPUT

DOUBLE REDUCTION

NOMINAL RATIO	NOMINAL OUTPUT SPEED REV / MIN	CAPACITY	SIZE OF UNIT				
			A0410	A0510	A0610	A0730	A0860
75.0	3.33	Input Power HP (mechanical)	0.08	0.15	0.26	0.34	0.61
		Input Power HP (thermal)	0.61	1.09	1.42	1.58	2.15
		Output Power HP (mechanical)	0.05	0.09	0.16	0.22	0.41
		Output Torque lb.in (mech.)	881	1680	3150	4210	7210
		Efficiency %	56	60	60	66	68
100.	2.50	Input Power HP (mechanical)	0.06	0.16	0.23	0.26	0.44
		Input Power HP (thermal)	0.61	0.71	1.00	1.58	1.86
		Output Power HP (mechanical)	0.03	0.08	0.12	0.16	0.28
		Output Torque lb.in (mech.)	824	2190	3150	4200	6690
		Efficiency %	54	51	53	62	64
125.	2.00	Input Power HP (mechanical)	0.06	0.14	0.19	0.23	0.42
		Input Power HP (thermal)	0.42	0.64	0.89	1.27	1.38
		Output Power HP (mechanical)	0.03	0.07	0.10	0.13	0.24
		Output Torque lb.in (mech.)	881	2190	3150	4210	7210
		Efficiency %	46	48	49	55	57
150.	1.67	Input Power HP (mechanical)	0.05	0.08	0.15	0.19	0.31
		Input Power HP (thermal)	0.57	0.60	1.13	1.01	1.52
		Output Power HP (mechanical)	0.02	0.04	0.08	0.11	0.19
		Output Torque lb.in (mech.)	881	1670	3150	4210	7210
		Efficiency %	48	53	54	58	60
200.	1.25	Input Power HP (mechanical)	0.04	0.09	0.13	0.15	0.24
		Input Power HP (thermal)	0.57	0.60	0.91	1.01	1.52
		Output Power HP (mechanical)	0.02	0.04	0.06	0.08	0.14
		Output Torque lb.in (mech.)	852	2190	3150	4210	6950
		Efficiency %	46	44	46	55	57
225.	1.11	Input Power HP (mechanical)	0.04	0.06	0.12	0.15	0.24
		Input Power HP (thermal)	0.48	0.50	0.87	0.78	1.37
		Output Power HP (mechanical)	0.02	0.03	0.06	0.08	0.14
		Output Torque lb.in (mech.)	881	1660	3150	4210	7210
		Efficiency %	44	49	49	53	57
250.	1.00	Input Power HP (mechanical)	0.03	0.08	0.11	0.13	0.22
		Input Power HP (thermal)	0.40	0.60	0.81	1.01	1.23
		Output Power HP (mechanical)	0.01	0.03	0.05	0.06	0.11
		Output Torque lb.in (mech.)	881	2190	3150	4210	7210
		Efficiency %	38	41	43	48	50
300.	0.83	Input Power HP (mechanical)	0.03	0.06	0.09	0.12	0.20
		Input Power HP (thermal)	0.32	0.33	0.83	0.75	0.87
		Output Power HP (mechanical)	0.01	0.02	0.04	0.06	0.10
		Output Torque lb.in (mech.)	881	1660	3150	4210	7210
		Efficiency %	35	40	47	51	49
350.	0.71	Input Power HP (mechanical)	0.03	0.06	0.09	0.11	0.09
		Input Power HP (thermal)	0.39	0.50	0.80	0.78	0.61
		Output Power HP (mechanical)	0.010	0.02	0.03	0.05	0.04
		Output Torque lb.in (mech.)	881	2190	3150	4210	2980
		Efficiency %	35	38	39	43	38
375.	0.67	Input Power HP (mechanical)	0.01	0.02	0.04	0.06	0.17
		Input Power HP (thermal)	0.27	0.43	0.55	0.64	1.18
		Output Power HP (mechanical)	0.004	0.007	0.01	0.02	0.08
		Output Torque lb.in (mech.)	366	644	1100	1850	7210
		Efficiency %	27	31	29	35	47
400.	0.63	Input Power HP (mechanical)	0.03	0.07	0.08	0.09	0.16
		Input Power HP (thermal)	0.32	0.33	0.83	0.75	0.87
		Output Power HP (mechanical)	0.009	0.02	0.03	0.04	0.07
		Output Torque lb.in (mech.)	881	2190	3150	4210	7210
		Efficiency %	33	33	40	48	46
450.	0.56	Input Power HP (mechanical)	0.02	0.05	0.08	0.09	0.15
		Input Power HP (thermal)	0.37	0.50	0.75	0.78	1.13
		Output Power HP (mechanical)	0.008	0.02	0.03	0.04	0.07
		Output Torque lb.in (mech.)	881	2190	3150	4210	7210
		Efficiency %	32	37	36	42	45
500.	0.50	Input Power HP (mechanical)	0.03	0.06	0.07	0.08	0.15
		Input Power HP (thermal)	0.32	0.33	0.76	0.75	0.87
		Output Power HP (mechanical)	0.007	0.02	0.03	0.03	0.06
		Output Torque lb.in (mech.)	881	2190	3150	4210	7210
		Efficiency %	27	31	37	41	39
600.	0.42	Input Power HP (mechanical)	0.02	0.05	0.06	0.07	0.13
		Input Power HP (thermal)	0.32	0.33	0.72	0.75	0.87
		Output Power HP (mechanical)	0.006	0.01	0.02	0.03	0.05
		Output Torque lb.in (mech.)	881	2190	3150	4210	7210
		Efficiency %	25	30	35	40	38
625.	0.40	Input Power HP (mechanical)	0.02	0.05	0.06	0.08	0.13
		Input Power HP (thermal)	0.30	0.31	0.58	0.53	0.78
		Output Power HP (mechanical)	0.006	0.01	0.02	0.03	0.05
		Output Torque lb.in (mech.)	881	2190	3150	4210	7210
		Efficiency %	25	29	31	35	37
700.	0.36	Input Power HP (mechanical)	0.02	0.02	0.05	0.05	0.07
		Input Power HP (thermal)	0.17	0.18	0.35	0.29	0.41
		Output Power HP (mechanical)	0.004	0.004	0.01	0.01	0.03
		Output Torque lb.in (mech.)	774	745	2330	2540	4370
		Efficiency %	21	21	29	31	35
750.	0.33	Input Power HP (mechanical)	0.02	0.04	0.06	0.07	0.11
		Input Power HP (thermal)	0.30	0.31	0.58	0.53	0.78
		Output Power HP (mechanical)	0.005	0.01	0.02	0.02	0.04
		Output Torque lb.in (mech.)	881	2190	3150	4210	7210
		Efficiency %	23	28	29	33	35
800.	0.31	Input Power HP (mechanical)	0.02	0.04	0.06	0.06	0.10
		Input Power HP (thermal)	0.24	0.25	0.49	0.44	0.70
		Output Power HP (mechanical)	0.004	0.01	0.02	0.02	0.04
		Output Torque lb.in (mech.)	881	2190	3150	4210	7210
		Efficiency %	23	24	28	34	38

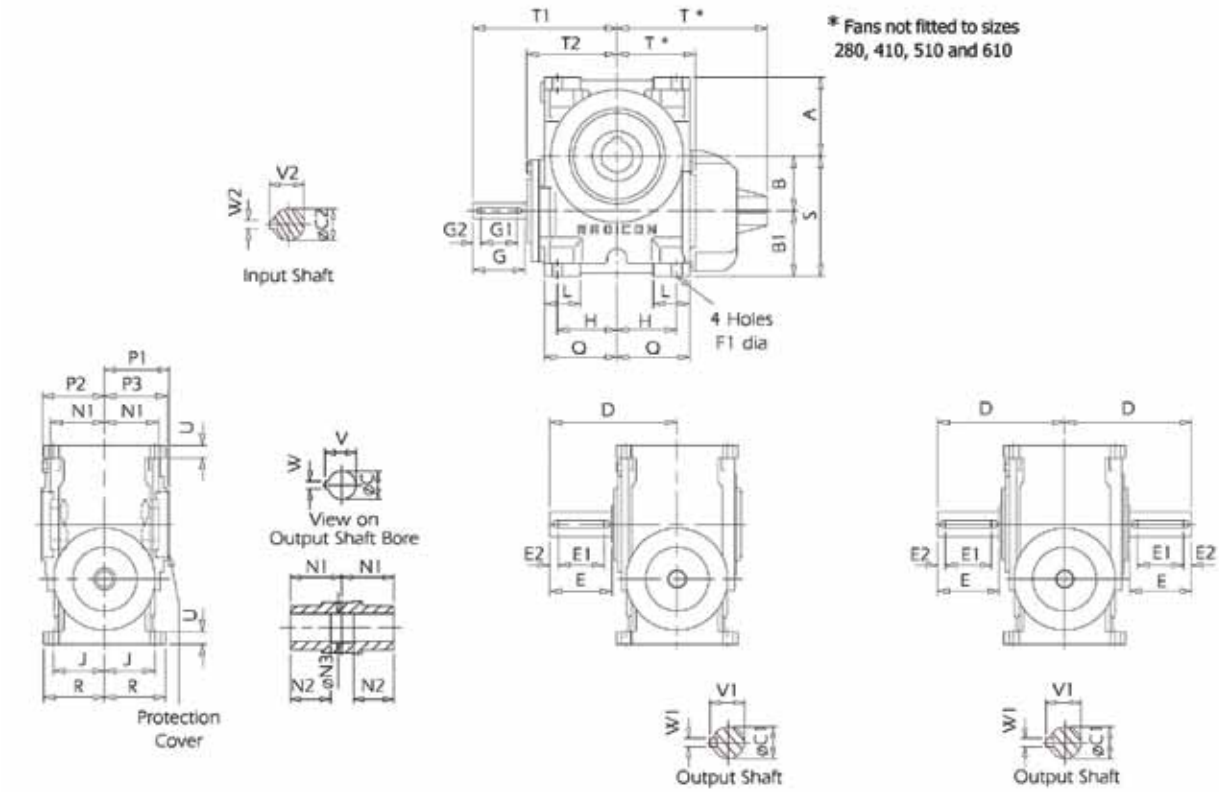
SERIES AJ
RATINGS AT
250 REV / MIN INPUT

DOUBLE REDUCTION

NOMINAL RATIO	NOMINAL OUTPUT SPEED REV / MIN	CAPACITY	SIZE OF UNIT				
			A0410	A0510	A0610	A0730	A0860
900.	0.28	Input Power HP (mechanical)	0.02	0.04	0.05	0.06	0.09
		Input Power HP (thermal)	0.28	0.29	0.54	0.49	0.76
		Output Power HP (mechanical)	0.004	0.010	0.01	0.02	0.03
		Output Torque lb.in (mech.)	881	2190	3150	4210	7210
		Efficiency %	22	26	27	31	34
1000.	0.25	Input Power HP (mechanical)	0.02	0.04	0.05	0.06	0.09
		Input Power HP (thermal)	0.24	0.25	0.49	0.44	0.70
		Output Power HP (mechanical)	0.003	0.009	0.01	0.02	0.03
		Output Torque lb.in (mech.)	881	2190	3150	4210	7210
		Efficiency %	19	22	26	29	32
1200.	0.21	Input Power HP (mechanical)	0.02	0.03	0.04	0.05	0.08
		Input Power HP (thermal)	0.24	0.25	0.49	0.44	0.70
		Output Power HP (mechanical)	0.003	0.007	0.01	0.01	0.02
		Output Torque lb.in (mech.)	881	2190	3150	4210	7210
		Efficiency %	17	21	24	28	31
1250.	0.20	Input Power HP (mechanical)	0.02	0.03	0.04	0.05	0.08
		Input Power HP (thermal)	0.21	0.22	0.44	0.39	0.56
		Output Power HP (mechanical)	0.003	0.007	0.01	0.01	0.02
		Output Torque lb.in (mech.)	881	2190	3150	4210	7210
		Efficiency %	17	21	24	27	29
1400.	0.18	Input Power HP (mechanical)	0.02	0.02	0.04	0.05	0.07
		Input Power HP (thermal)	0.17	0.18	0.35	0.29	0.41
		Output Power HP (mechanical)	0.003	0.003	0.009	0.01	0.02
		Output Torque lb.in (mech.)	881	1120	3150	4210	7210
		Efficiency %	17	16	22	27	30
1500.	0.17	Input Power HP (mechanical)	0.01	0.03	0.04	0.04	0.07
		Input Power HP (thermal)	0.21	0.22	0.44	0.39	0.56
		Output Power HP (mechanical)	0.002	0.006	0.008	0.01	0.02
		Output Torque lb.in (mech.)	881	2190	3150	4210	7210
		Efficiency %	16	20	22	26	28
1600.	0.16	Input Power HP (mechanical)	0.01	0.02	0.03	0.04	0.06
		Input Power HP (thermal)	0.24	0.25	0.49	0.44	0.70
		Output Power HP (mechanical)	0.002	0.004	0.007	0.01	0.02
		Output Torque lb.in (mech.)	881	1700	2800	4210	7210
		Efficiency %	15	18	20	25	28
1750.	0.14	Input Power HP (mechanical)	0.01	0.02	0.04	0.04	0.06
		Input Power HP (thermal)	0.17	0.18	0.35	0.29	0.41
		Output Power HP (mechanical)	0.002	0.003	0.007	0.009	0.02
		Output Torque lb.in (mech.)	881	1310	3150	4210	7210
		Efficiency %	13	15	20	23	26
1800.	0.14	Input Power HP (mechanical)	0.01	0.03	0.04	0.04	0.06
		Input Power HP (thermal)	0.19	0.20	0.37	0.33	0.49
		Output Power HP (mechanical)	0.002	0.004	0.007	0.009	0.02
		Output Torque lb.in (mech.)	881	1930	3150	4210	7210
		Efficiency %	13	17	19	22	26
2000.	0.13	Input Power HP (mechanical)	0.01	0.02	0.03	0.04	0.06
		Input Power HP (thermal)	0.21	0.22	0.44	0.39	0.56
		Output Power HP (mechanical)	0.002	0.003	0.006	0.008	0.01
		Output Torque lb.in (mech.)	881	1710	2830	4210	7210
		Efficiency %	14	17	19	23	25
2100.	0.12	Input Power HP (mechanical)	0.01	0.02	0.03	0.04	0.06
		Input Power HP (thermal)	0.17	0.18	0.35	0.29	0.41
		Output Power HP (mechanical)	0.002	0.003	0.006	0.008	0.01
		Output Torque lb.in (mech.)	881	1530	3150	4210	7210
		Efficiency %	12	15	18	21	24
2400.	0.10	Input Power HP (mechanical)	0.01	0.02	0.03	0.04	0.05
		Input Power HP (thermal)	0.19	0.20	0.37	0.33	0.49
		Output Power HP (mechanical)	0.002	0.003	0.005	0.007	0.01
		Output Torque lb.in (mech.)	881	1730	2850	4210	7210
		Efficiency %	11	15	16	19	23
2500.	0.10	Input Power HP (mechanical)	0.010	0.01	0.02	0.03	0.04
		Input Power HP (thermal)	0.21	0.22	0.44	0.39	0.56
		Output Power HP (mechanical)	0.001	0.002	0.003	0.006	0.009
		Output Torque lb.in (mech.)	671	1230	2040	3550	5570
		Efficiency %	11	14	15	20	21
2800.	0.09	Input Power HP (mechanical)	0.01	0.02	0.03	0.03	0.05
		Input Power HP (thermal)	0.17	0.18	0.35	0.29	0.41
		Output Power HP (mechanical)	0.001	0.002	0.004	0.006	0.01
		Output Torque lb.in (mech.)	881	1740	2870	4210	7210
		Efficiency %	10	13	16	19	22
3000.	0.08	Input Power HP (mechanical)	0.010	0.01	0.02	0.03	0.04
		Input Power HP (thermal)	0.19	0.20	0.37	0.33	0.49
		Output Power HP (mechanical)	0.001	0.002	0.003	0.005	0.007
		Output Torque lb.in (mech.)	677	1240	2050	3590	5620
		Efficiency %	9	12	13	17	20
3500.	0.07	Input Power HP (mechanical)	0.010	0.01	0.02	0.03	0.03
		Input Power HP (thermal)	0.17	0.18	0.35	0.29	0.41
		Output Power HP (mechanical)	0.001	0.001	0.002	0.004	0.006
		Output Torque lb.in (mech.)	682	1250	2070	3610	5660
		Efficiency %	8	11	12	16	18
3600.	0.07	Input Power HP (mechanical)	0.009	0.01	0.02	0.02	0.03
		Input Power HP (thermal)	0.19	0.20	0.37	0.33	0.49
		Output Power HP (mechanical)	0.001	0.001	0.002	0.003	0.005
		Output Torque lb.in (mech.)	516	948	1570	2710	4230
		Efficiency %	7	9	10	14	16
4200.	0.06	Input Power HP (mechanical)	0.008	0.01	0.02	0.02	0.03
		Input Power HP (thermal)	0.17	0.18	0.35	0.29	0.41
		Output Power HP (mechanical)	0.000	0.001	0.002	0.003	0.004
		Output Torque lb.in (mech.)	520	954	1580	2730	4260
		Efficiency %	6	9	10	13	15

A	0			0				W	R

STANDARD UNIT



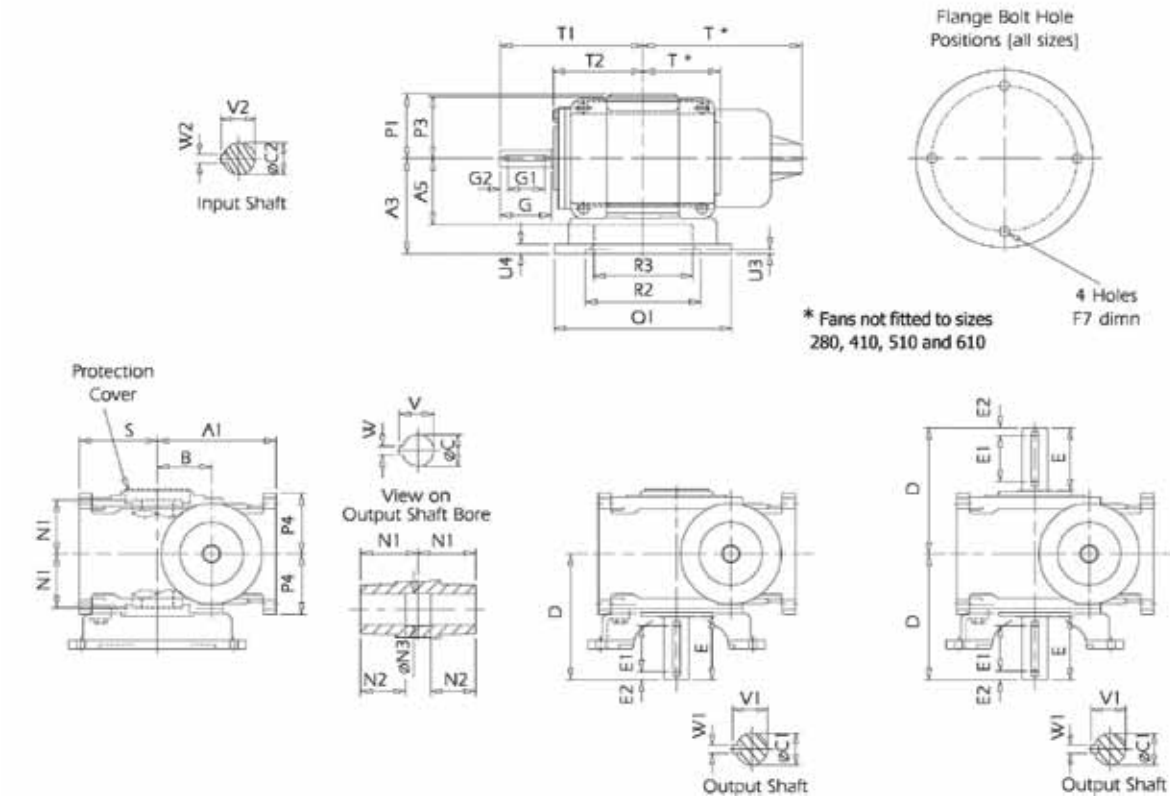
SIZE	A	B	B1	ø C	ø C1	C2	D	E	E1	E2	F1	G	G1	G2
A0280	2.283	1.125	2.063	0.625	0.625	0.4375	3.125	1.250	0.9375	0.16	0.35	1.125	0.906	0.13
A0410	2.598	1.625	2.350	0.750	0.750	0.625	3.875	1.625	1.3125	0.16	0.45	1.625	1.188	0.22
A0510	2.913	2.000	2.409	1.000	1.000	0.625	4.625	2.125	1.75	0.19	0.45	1.875	1.438	0.22
A0610	3.425	2.375	2.823	1.375	1.125	0.750	5.500	2.625	2.0	0.25	0.45	2.250	1.813	0.22
A0730	4.134	2.875	3.150	1.625	1.250	0.750	6.625	3.250	2.5	0.25	0.53	2.750	2.313	0.22
A0860	4.606	3.375	3.634	1.875	1.500	1.000	7.875	3.875	3.25	0.31	0.69	3.250	2.750	0.25

SIZE	H	J	L	N1	N2	øN3	P1	P2	P3	Q	R	S	T	T1
A0280	2.067	1.635	1.18	1.575	1.26	0.635 0.630	1.89	1.77	1.73	2.42	1.99	3.189	2.09	3.563
A0410	2.303	1.930	1.26	1.969	1.57	0.760 0.755	2.28	2.16	2.16	2.72	2.36	3.976	2.44	4.313
A0510	2.244	2.045	1.38	2.205	1.77	1.010 1.005	2.48	2.40	2.40	2.64	2.44	4.409	2.96	5.250
A0610	2.599	2.205	1.58	2.520	1.97	1.385 1.380	2.84	2.64	2.72	3.15	2.64	5.197	3.39	6.250
A0730	3.189	2.755	1.77	3.031	2.36	1.635 1.630	3.42	3.19	3.31	3.74	3.31	6.024	4.06	7.500
A0860	3.544	3.110	2.16	3.661	2.87	1.885 1.880	4.09	3.82	3.90	4.25	3.82	7.008	4.57	8.625

SIZE	T2	U	V	V1	V2	W	W1	W2
A0280	2.40	0.35	0.715 0.709	0.707 0.699	0.480 0.472	0.1895 0.1875	0.190 0.188	0.096 0.094
A0410	2.68	0.39	0.843 0.837	0.834 0.826	0.708 0.700	0.1895 0.1875	0.190 0.188	0.190 0.188
A0510	3.39	0.47	1.120 1.114	1.110 1.102	0.708 0.700	0.2520 0.2500	0.252 0.250	0.190 0.188
A0610	3.94	0.55	1.524 1.518	1.238 1.230	0.833 0.825	0.3145 0.3125	0.252 0.250	0.190 0.188
A0730	4.80	0.63	1.802 1.796	1.364 1.356	0.833 0.825	0.3770 0.3750	0.252 0.250	0.190 0.188
A0860	5.20	0.71	2.102 2.096	1.666 1.658	1.110 1.102	0.5020 0.5000	0.377 0.375	0.252 0.250

A	0			0				F	R

STANDARD UNIT FLANGE MOUNTED



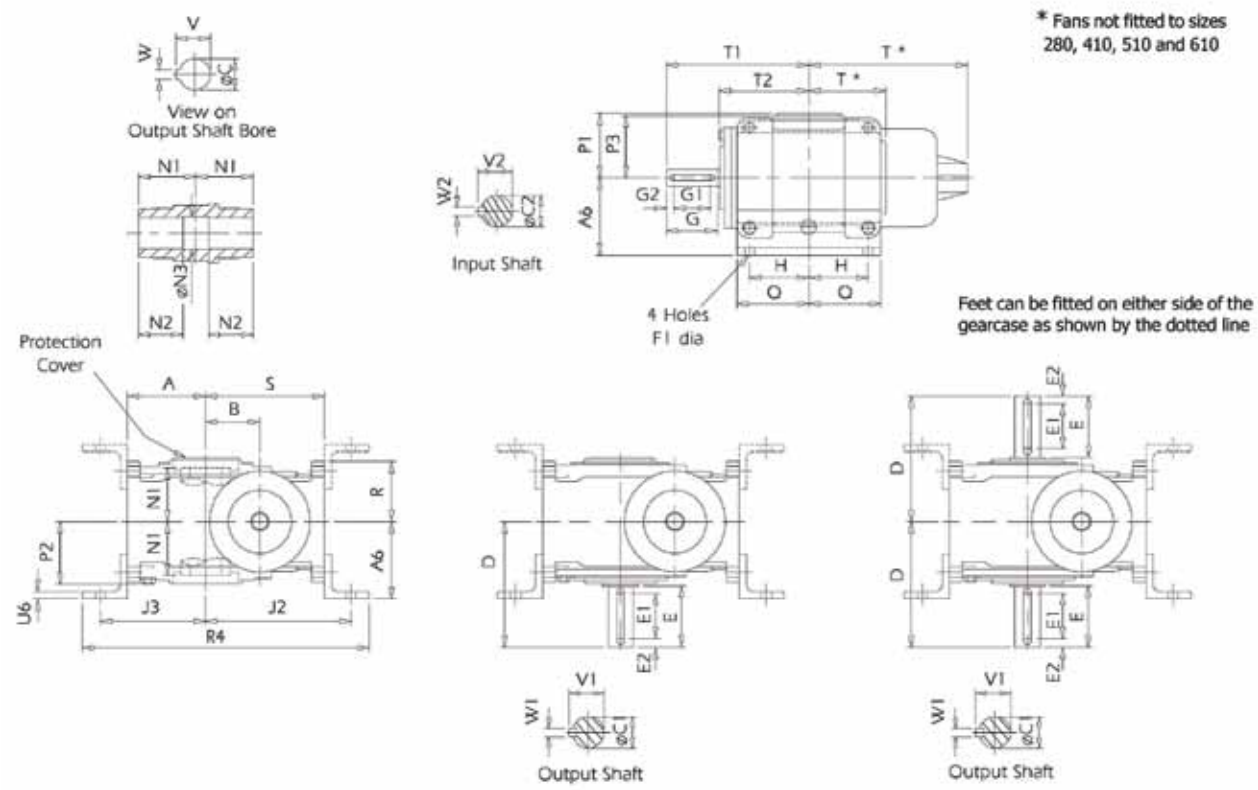
SIZE	A	B	B1	ø C	ø C1	C2	D	E	E1	E2	F1	G
A0280	3.189	2.480	1.93	1.125	0.625	0.625	0.4375	3.125	1.250	0.16	ø0.26 on 3.937 pcd	1.125
A0410	3.976	3.150	2.36	1.625	0.750	0.750	0.625	3.875	1.625	0.16	ø0.35 on 4.528 pcd	1.625
A0510	4.409	3.543	3.56	2.000	1.000	1.000	0.625	4.625	2.125	0.19	ø0.35 on 5.118 pcd	1.875
A0610	5.197	4.134	2.80	2.375	1.375	1.125	0.750	5.500	2.625	0.25	ø0.43 on 6.496 pcd	2.250
A0730	6.024	4.724	3.58	2.875	1.625	1.250	0.750	6.625	3.250	0.25	ø0.53 on 8.465 pcd	2.750
A0860	7.008	5.197	3.94	3.375	1.875	1.500	1.000	7.875	3.875	0.31	ø0.53 on 8.465 pcd	3.250

SIZE	G1	G2	N1	N2	øN3	P1	P3	P4	Q1	R2	R3	S	T	T1
A0280	0.906	0.13	1.575	1.26	0.635 0.630	1.89	1.73	1.99	4.72	3.1508 3.1496	2.36	2.283	2.09	3.563
A0410	1.188	0.22	1.969	1.57	0.760 0.755	2.28	2.16	2.36	5.51	3.7415 3.7402	2.84	2.598	2.44	4.313
A0510	1.438	0.22	2.205	1.77	1.010 1.005	2.48	2.40	2.44	6.30	4.3321 4.3307	3.46	2.913	2.96	5.250
A0610	1.813	0.22	2.520	1.97	1.385 1.380	2.84	2.72	2.64	7.87	5.1197 5.1181	4.33	3.425	3.39	6.250
A0730	2.313	0.22	3.031	2.36	1.635 1.630	3.42	3.31	3.31	9.84	7.0882 7.0866	5.36	4.134	4.06	7.500
A0860	2.750	0.25	3.661	2.87	1.885 1.880	4.09	3.90	3.82	9.84	7.0882 7.0866	5.91	4.606	4.57	8.625

SIZE	T2	U3	U4	V	V1	V2	W	W1	W2
A0280	2.40	0.12	0.28	0.715 0.709	0.707 0.699	0.480 0.472	0.1895 0.1875	0.190 0.188	0.096 0.094
A0410	2.68	0.14	0.31	0.843 0.837	0.834 0.826	0.708 0.700	0.1895 0.1875	0.190 0.188	0.190 0.188
A0510	3.39	0.16	0.35	1.120 1.114	1.110 1.102	0.708 0.700	0.2520 0.2500	0.252 0.250	0.190 0.188
A0610	3.94	0.18	0.39	1.524 1.518	1.238 1.230	0.833 0.825	0.3145 0.3125	0.252 0.250	0.190 0.188
A0730	4.80	0.20	0.47	1.802 1.796	1.364 1.356	0.833 0.825	0.3770 0.3750	0.252 0.250	0.190 0.188
A0860	5.20	0.20	0.47	2.102 2.096	1.666 1.658	1.110 1.102	0.5020 0.5000	0.377 0.375	0.252 0.250

A	0			0				G	R

STANDARD UNIT WITH SIDE MOUNTED FEET



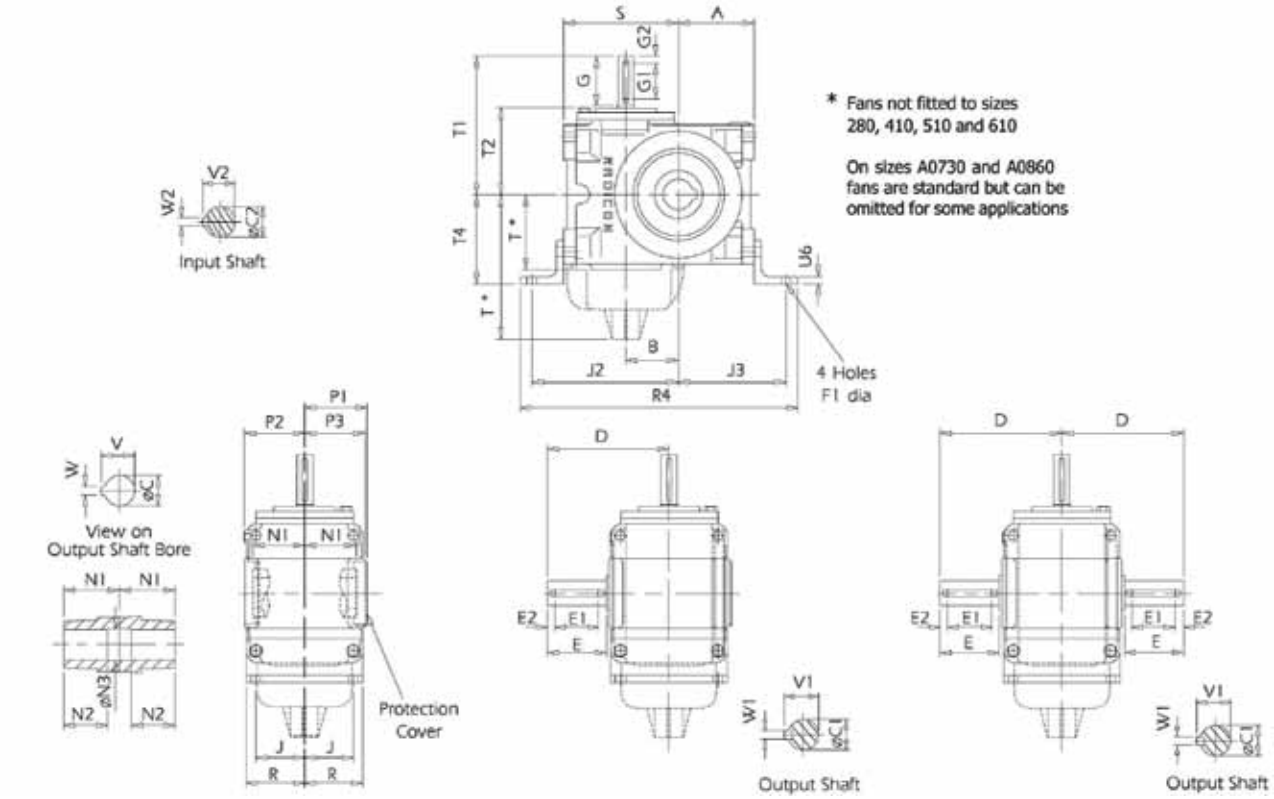
SIZE	A	A6	B	ø C	ø C1	C2	D	E	E1	E2	F1	G	G1	G2
A0280	2.283	2.441	1.125	0.625	0.625	0.4375	3.125	1.250	0.9375	0.16	0.35	1.125	0.906	0.13
A0410	2.598	2.953	1.625	0.750	0.750	0.625	3.875	1.625	1.3125	0.16	0.45	1.625	1.188	0.22
A0510	2.913	3.071	2.000	1.000	1.000	0.625	4.625	2.125	1.75	0.19	0.45	1.875	1.438	0.22
A0610	3.425	3.386	2.375	1.375	1.125	0.750	5.500	2.625	2.0	0.25	0.45	2.250	1.813	0.22
A0730	4.134	4.055	2.875	1.625	1.250	0.750	6.625	3.250	2.5	0.25	0.53	2.750	2.313	0.22
A0860	4.606	4.646	3.375	1.875	1.500	1.000	7.875	3.875	3.25	0.31	0.69	3.250	2.750	0.25

SIZE	H	J2	J3	N1	N2	øN3	P1	P2	P3	R	R4	S	T	T1
A0280	2.067	4.00	3.09	1.575	1.26	0.635 0.630	1.89	1.77	1.73	1.99	7.84	3.189	2.09	3.563
A0410	2.303	5.00	3.62	1.969	1.57	0.760 0.755	2.28	2.16	2.16	2.36	9.72	3.976	2.44	4.313
A0510	2.244	5.43	3.94	2.205	1.77	1.010 1.005	2.48	2.40	2.40	2.44	10.47	4.409	2.96	5.250
A0610	2.599	6.38	4.61	2.520	1.97	1.385 1.380	2.84	2.64	2.72	2.64	12.56	5.197	3.39	6.250
A0730	3.189	7.32	5.43	3.031	2.36	1.635 1.630	3.42	3.19	3.31	3.31	14.09	6.024	4.06	7.500
A0860	3.544	8.54	6.14	3.661	2.87	1.885 1.880	4.09	3.82	3.90	3.82	16.34	7.008	4.57	8.625

SIZE	T2	U6	V	V1	V2	W	W1	W2
A0280	2.40	0.20	0.715 0.709	0.707 0.699	0.480 0.472	0.1895 0.1875	0.190 0.188	0.096 0.094
A0410	2.68	0.24	0.843 0.837	0.834 0.826	0.708 0.700	0.1895 0.1875	0.190 0.188	0.190 0.188
A0510	3.39	0.24	1.120 1.114	1.110 1.102	0.708 0.700	0.2520 0.2500	0.252 0.250	0.190 0.188
A0610	3.94	0.31	1.524 1.518	1.238 1.230	0.833 0.825	0.3145 0.3125	0.252 0.250	0.190 0.188
A0730	4.80	0.31	1.802 1.796	1.364 1.356	0.833 0.825	0.3770 0.3750	0.252 0.250	0.190 0.188
A0860	5.20	0.39	2.102 2.096	1.666 1.658	1.110 1.102	0.5020 0.5000	0.377 0.375	0.252 0.250

A	0			0				H	R

STANDARD UNIT WITH END MOUNTED FEET



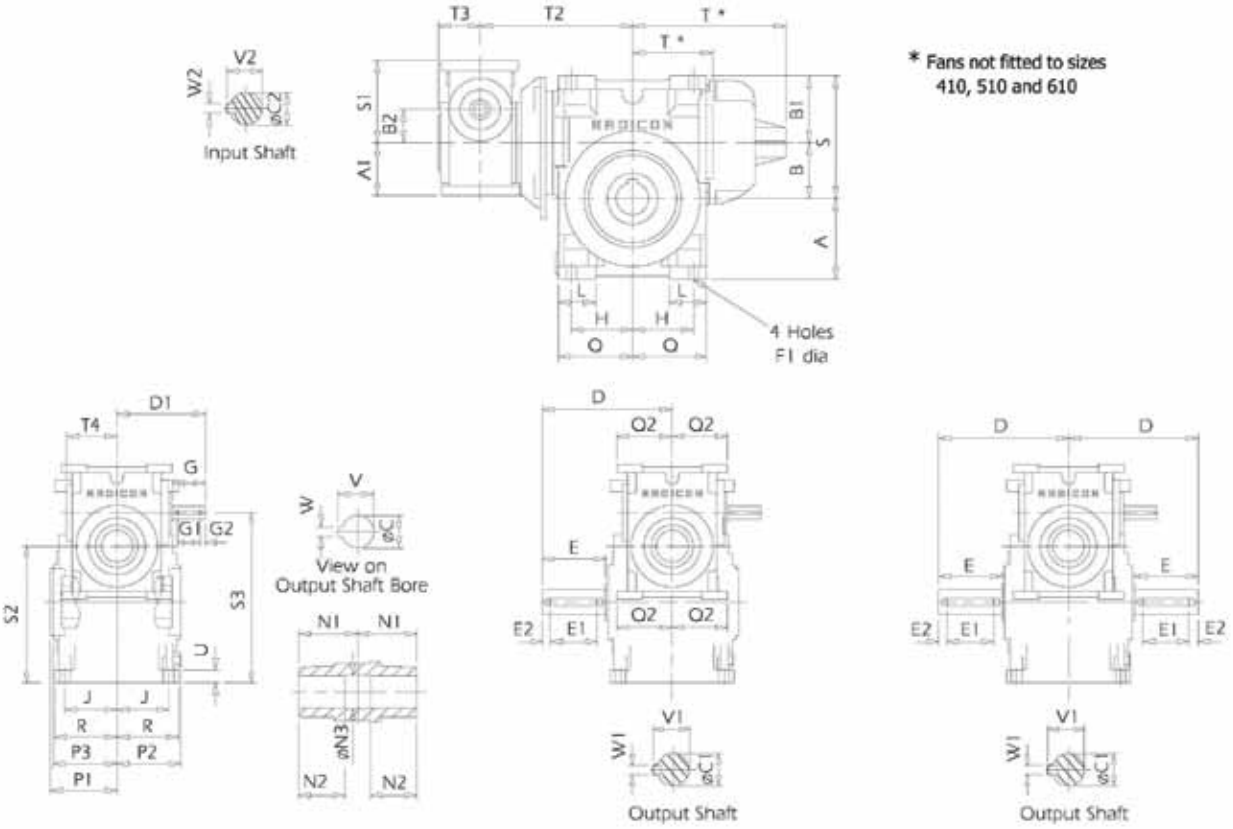
SIZE	A	B	ø C	ø C1	C2	D	E	E1	E2	F1	G	G1	G2	J
A0280	2.283	1.125	0.625	0.625	0.4375	3.125	1.250	0.9375	0.16	0.35	1.125	0.906	0.13	1.635
A0410	2.598	1.625	0.750	0.750	0.625	3.875	1.625	1.3125	0.16	0.45	1.625	1.188	0.22	1.930
A0510	2.913	2.000	1.000	1.000	0.625	4.625	2.125	1.75	0.19	0.45	1.875	1.438	0.22	2.045
A0610	3.425	2.375	1.375	1.125	0.750	5.500	2.625	2.0	0.25	0.45	2.250	1.813	0.22	2.205
A0730	4.134	2.875	1.625	1.250	0.750	6.625	3.250	2.5	0.25	0.53	2.750	2.313	0.22	2.755
A0860	4.606	3.375	1.875	1.500	1.000	7.875	3.875	3.25	0.31	0.69	3.250	2.750	0.25	3.110

SIZE	J2	J3	N1	N2	øN3	P1	P2	P3	R	R4	S	T	T1	T2
A0280	4.00	3.09	1.575	1.26	0.635 0.630	1.89	1.77	1.73	1.99	7.84	3.189	2.09	3.563	2.40
A0410	5.00	3.62	1.969	1.57	0.760 0.755	2.28	2.16	2.16	2.36	9.72	3.976	2.44	4.313	2.68
A0510	5.43	3.94	2.205	1.77	1.010 1.005	2.48	2.40	2.40	2.44	10.47	4.409	2.96	5.250	3.39
A0610	6.38	4.61	2.520	1.97	1.385 1.380	2.84	2.64	2.72	2.64	12.56	5.197	3.39	6.250	3.94
A0730	7.32	5.43	3.031	2.36	1.635 1.630	3.42	3.19	3.31	3.31	14.09	6.024	4.06	7.500	4.80
A0860	8.54	6.14	3.661	2.87	1.885 1.880	4.09	3.82	3.90	3.82	16.34	7.008	4.57	8.625	5.20

SIZE	T4	U6	V	V1	V2	W	W1	W2
A0280	2.874	0.20	0.715 0.709	0.707 0.699	0.480 0.472	0.1895 0.1875	0.190 0.188	0.096 0.094
A0410	3.327	0.24	0.843 0.837	0.834 0.826	0.708 0.700	0.1895 0.1875	0.190 0.188	0.190 0.188
A0510	3.268	0.24	1.120 1.114	1.110 1.102	0.708 0.700	0.2520 0.2500	0.252 0.250	0.190 0.188
A0610	3.780	0.31	1.524 1.518	1.238 1.230	0.833 0.825	0.3145 0.3125	0.252 0.250	0.190 0.188
A0730	4.488	0.31	1.802 1.796	1.364 1.356	0.833 0.825	0.3770 0.3750	0.252 0.250	0.190 0.188
A0860	5.079	0.39	2.102 2.096	1.666 1.658	1.110 1.102	0.5020 0.5000	0.377 0.375	0.252 0.250

A	0			0				W	D

STANDARD UNIT



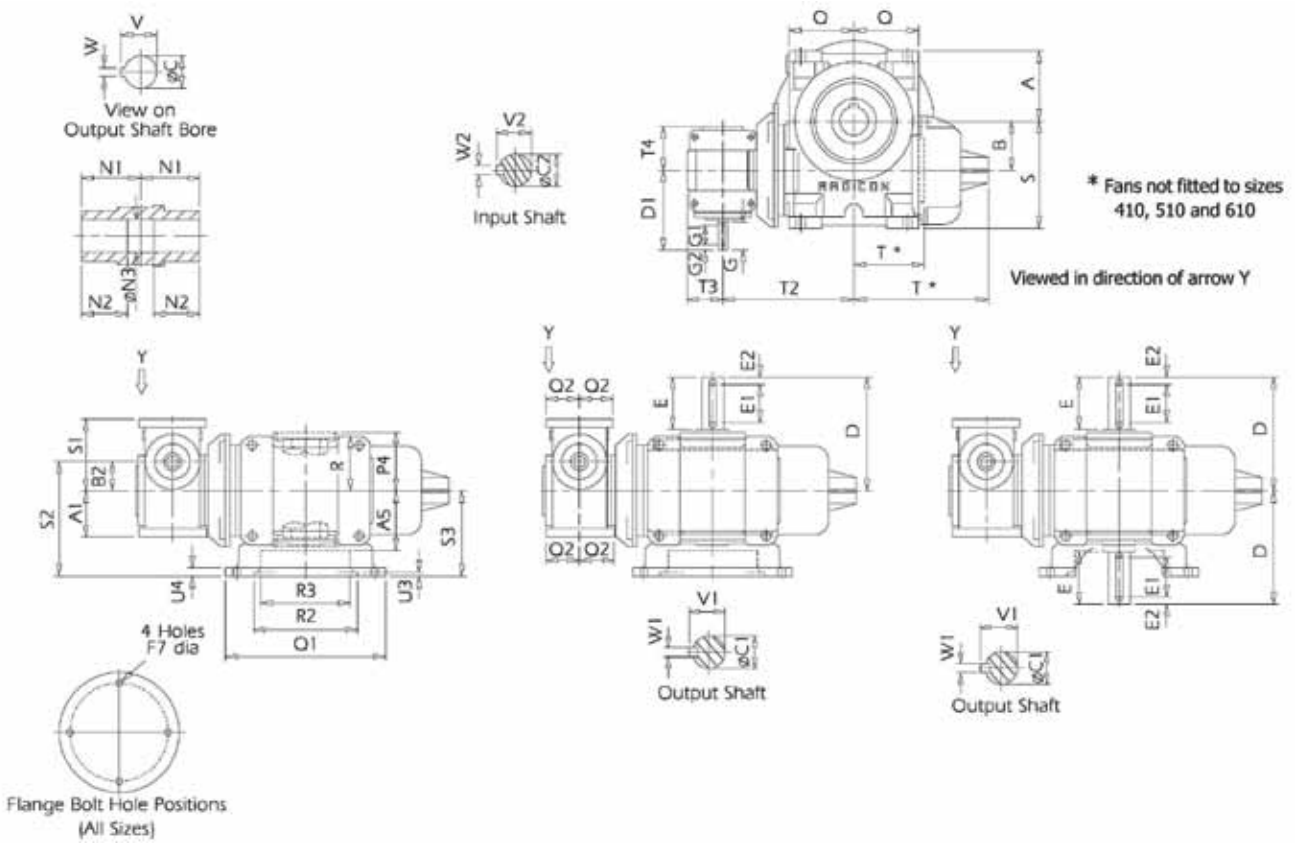
SIZE	A	A1	B	B1	B2	ø C	ø C1	C2	D	D1	E	E1	E2	F1	F1
A0410	2.598	2.283	1.625	2.350	1.125	0.750	0.750	0.4375	3.875	3.563	1.625	1.3125	0.16	0.45	1.125
A0510	2.913	2.283	2.000	2.409	1.125	1.000	1.000	0.4375	4.625	3.563	2.125	1.75	0.19	0.45	1.125
A0610	3.425	2.598	2.375	2.823	1.625	1.375	1.125	0.625	5.500	4.313	2.625	2.0	0.25	0.45	1.625
A0730	4.134	2.598	2.875	3.150	1.625	1.625	1.250	0.625	6.625	4.313	3.250	2.5	0.25	0.53	1.625
A0860	4.606	2.913	3.375	3.634	2.000	1.875	1.500	0.625	7.875	5.250	3.875	3.25	0.31	0.69	1.875

SIZE	G1	G2	H	J	L	N1	N2	øN3	P1	P2	P3	Q	Q2	R	S
A0410	0.906	0.13	2.303	1.930	1.26	1.969	1.57	0.760 0.755	2.28	2.16	2.16	2.72	2.42	2.36	3.976
A0510	0.906	0.13	2.244	2.045	1.38	2.205	1.77	1.010 1.005	2.48	2.40	2.40	2.64	2.42	2.44	4.409
A0610	1.188	0.22	2.599	2.205	1.58	2.520	1.97	1.385 1.380	2.84	2.64	2.72	3.15	2.72	2.64	5.197
A0730	1.188	0.22	3.189	2.755	1.77	3.031	2.36	1.635 1.630	3.42	3.19	3.31	3.74	2.72	3.31	6.024
A0860	1.438	0.22	3.544	3.110	2.16	3.661	2.87	1.885 1.880	4.09	3.82	3.90	4.25	2.64	3.82	7.008

SIZE	S1	S2	S3	T	T2	T3	T4	U	V	V1	V2	W	W1	W2
A0410	3.189	4.223	4.225	2.44	4.961	1.89	2.09	0.39	0.843 0.837	0.834 0.826	0.480 0.472	0.1895 0.1875	0.190 0.188	0.096 0.094
A0510	3.189	4.913	4.914	2.96	5.630	1.89	2.09	0.47	1.120 1.114	1.110 1.102	0.480 0.472	0.2520 0.2500	0.252 0.250	0.096 0.094
A0610	3.976	5.800	5.800	3.39	6.732	2.28	2.44	0.55	1.524 1.518	1.238 1.230	0.708 0.700	0.3145 0.3125	0.252 0.250	0.190 0.188
A0730	3.976	7.009	7.009	7.76	7.559	2.28	2.44	0.63	1.802 1.796	1.364 1.356	0.708 0.700	0.3770 0.3750	0.252 0.250	0.190 0.188
A0860	4.409	7.981	7.980	8.94	8.189	2.48	2.96	0.71	2.102 2.096	1.666 1.658	0.708 0.700	0.5020 0.5000	0.377 0.375	0.190 0.188

A	0			0				F	D

STANDARD UNIT FLANGE MOUNTED



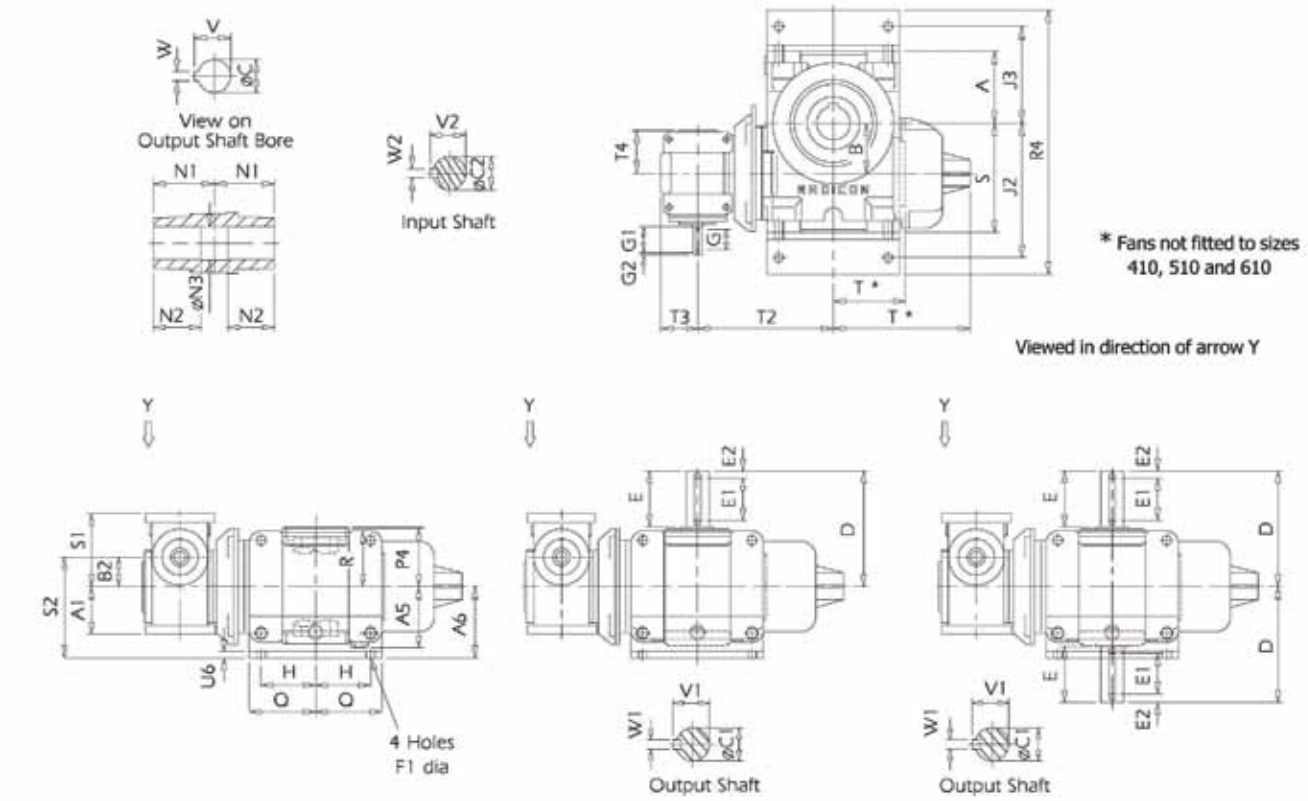
SIZE	A	A1	A5	B	B2	ø C	ø C1	C2	D	D1	E	E1	E2	F7
A0410	2.598	2.283	2.36	1.625	1.125	0.750	0.750	0.4375	3.875	3.563	1.625	1.3125	0.16	ø0.35 on 4.528 pcd
A0510	2.913	2.283	2.56	2.000	1.125	1.000	1.000	0.4375	4.625	3.563	2.125	1.75	0.19	ø0.35 on 5.118 pcd
A0610	3.425	2.598	2.80	2.375	1.625	1.375	1.125	0.625	5.500	4.313	2.625	2.0	0.25	ø0.43 on 6.496 pcd
A0730	4.134	2.598	3.58	2.875	1.625	1.625	1.250	0.625	6.625	4.313	3.250	2.5	0.25	ø0.53 on 8.465 pcd
A0860	4.606	2.913	3.94	3.375	2.000	1.875	1.500	0.625	7.875	5.250	3.875	3.25	0.31	ø0.53 on 8.465 pcd

SIZE	G	G1	G2	N1	N2	øN3	P4	Q	Q1	Q2	R2	R3	S	S1	S2
A0410	1.125	0.906	0.13	1.969	1.57	0.760 0.755	2.16	2.72	5.51	2.72	3.7415 3.7402	2.84	3.976	3.189	4.276
A0510	1.125	0.906	0.13	2.205	1.77	1.010 1.005	2.40	2.64	6.30	2.64	4.3321 4.3307	3.46	4.409	3.189	4.669
A0610	1.625	1.188	0.22	2.520	1.97	1.385 1.380	2.64	3.15	7.87	3.15	5.1197 5.1181	4.33	5.197	3.976	5.760
A0730	1.625	1.188	0.22	3.031	2.36	1.635 1.630	3.19	3.74	9.84	3.74	7.0882 7.0866	5.35	6.024	3.976	6.350
A0860	1.875	1.438	0.22	3.661	2.87	1.885 1.880	3.82	4.25	9.84	4.25	7.0882 7.0866	5.91	7.008	4.409	7.197

SIZE	S3	T	T2	T3	T4	U3	U4	V	V1	V2	W	W1	W2
A0410	3.150	2.44	4.961	1.89	2.09	0.14	0.31	0.843 0.837	0.834 0.826	0.480 0.472	0.1895 0.1875	0.190 0.188	0.096 0.094
A0510	3.543	2.96	5.630	1.89	2.09	0.16	0.35	1.120 1.114	1.110 1.102	0.480 0.472	0.2520 0.2500	0.252 0.250	0.096 0.094
A0610	4.134	3.39	6.732	2.28	2.44	0.18	0.39	1.524 1.518	1.238 1.230	0.708 0.700	0.3145 0.3125	0.252 0.250	0.190 0.188
A0730	4.724	7.76	7.559	2.28	2.44	0.20	0.47	1.802 1.796	1.364 1.356	0.708 0.700	0.3770 0.3750	0.252 0.250	0.190 0.188
A0860	5.197	8.94	8.189	2.48	2.96	0.20	0.47	2.102 2.096	1.666 1.658	0.708 0.700	0.5020 0.5000	0.377 0.375	0.190 0.188

A	0			0				G	D

STANDARD UNIT WITH SIDE MOUNTED FEET

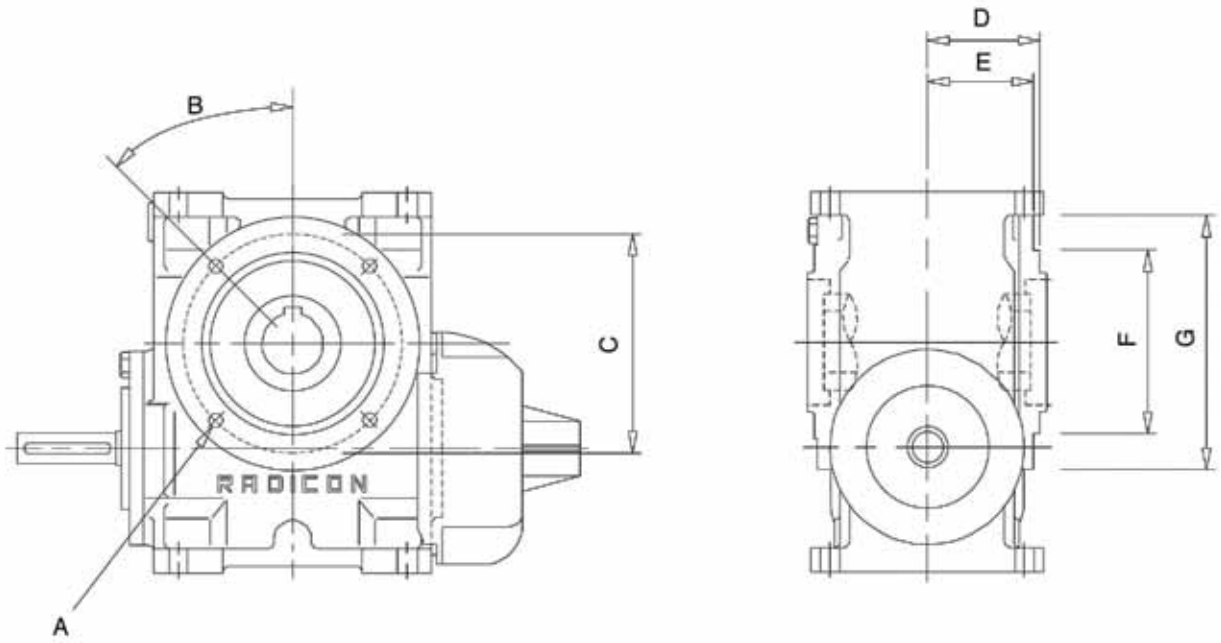


SIZE	A	A1	A5	A6	B	B2	ø C	ø C1	C2	D	D1	E	E1	E2	F1
A0410	2.598	2.283	2.16	2.953	1.625	1.125	0.750	0.750	0.4375	3.875	3.563	1.625	1.3125	0.16	0.45
A0510	2.913	2.283	2.40	3.071	2.000	1.125	1.000	1.000	0.4375	4.625	3.563	2.125	1.75	0.19	0.45
A0610	3.425	2.598	2.64	3.386	2.375	1.625	1.375	1.125	0.625	5.500	4.313	2.625	2.0	0.25	0.45
A0730	4.134	2.598	3.19	4.055	2.875	1.625	1.625	1.250	0.625	6.625	4.313	3.250	2.5	0.25	0.53
A0860	4.606	2.913	3.82	4.646	3.375	2.000	1.875	1.500	0.625	7.875	5.250	3.875	3.25	0.31	0.69

SIZE	G	G1	G2	H	J2	J3	N1	N2	øN3	P4	Q	R	S	S1	S2
A0410	1.125	0.906	0.13	2.303	5.00	3.62	1.969	1.57	0.760 0.755	2.16	2.72	2.36	3.976	3.189	4.079
A0510	1.125	0.906	0.13	2.244	5.43	3.94	2.205	1.77	1.010 1.005	2.40	2.64	2.44	4.409	3.189	4.197
A0610	1.625	1.188	0.22	2.599	6.38	4.61	2.520	1.97	1.385 1.380	2.72	3.15	2.64	5.197	3.976	5.012
A0730	1.625	1.188	0.22	3.189	7.32	5.43	3.031	2.36	1.635 1.630	3.31	3.74	3.31	6.024	3.976	5.681
A0860	1.875	1.438	0.22	3.544	8.54	6.14	3.661	2.87	1.885 1.880	3.90	4.25	3.82	7.008	4.409	6.646

SIZE	T	T2	T3	T4	U6	V	V1	V2	W	W1	W2
A0410	2.44	4.961	1.89	2.09	0.24	0.843 0.837	0.834 0.826	0.480 0.472	0.1895 0.1875	0.190 0.188	0.096 0.094
A0510	2.96	5.630	1.89	2.09	0.24	1.120 1.114	1.110 1.102	0.480 0.472	0.2520 0.2500	0.252 0.250	0.096 0.094
A0610	3.39	6.732	2.28	2.44	0.31	1.524 1.518	1.238 1.230	0.708 0.700	0.3145 0.3125	0.252 0.250	0.190 0.188
A0730	7.76	7.559	2.28	2.44	0.31	1.802 1.796	1.364 1.356	0.708 0.700	0.3770 0.3750	0.252 0.250	0.190 0.188
A0860	8.94	8.189	2.48	2.96	0.39	2.102 2.096	1.666 1.658	0.708 0.700	0.5020 0.5000	0.377 0.375	0.190 0.188

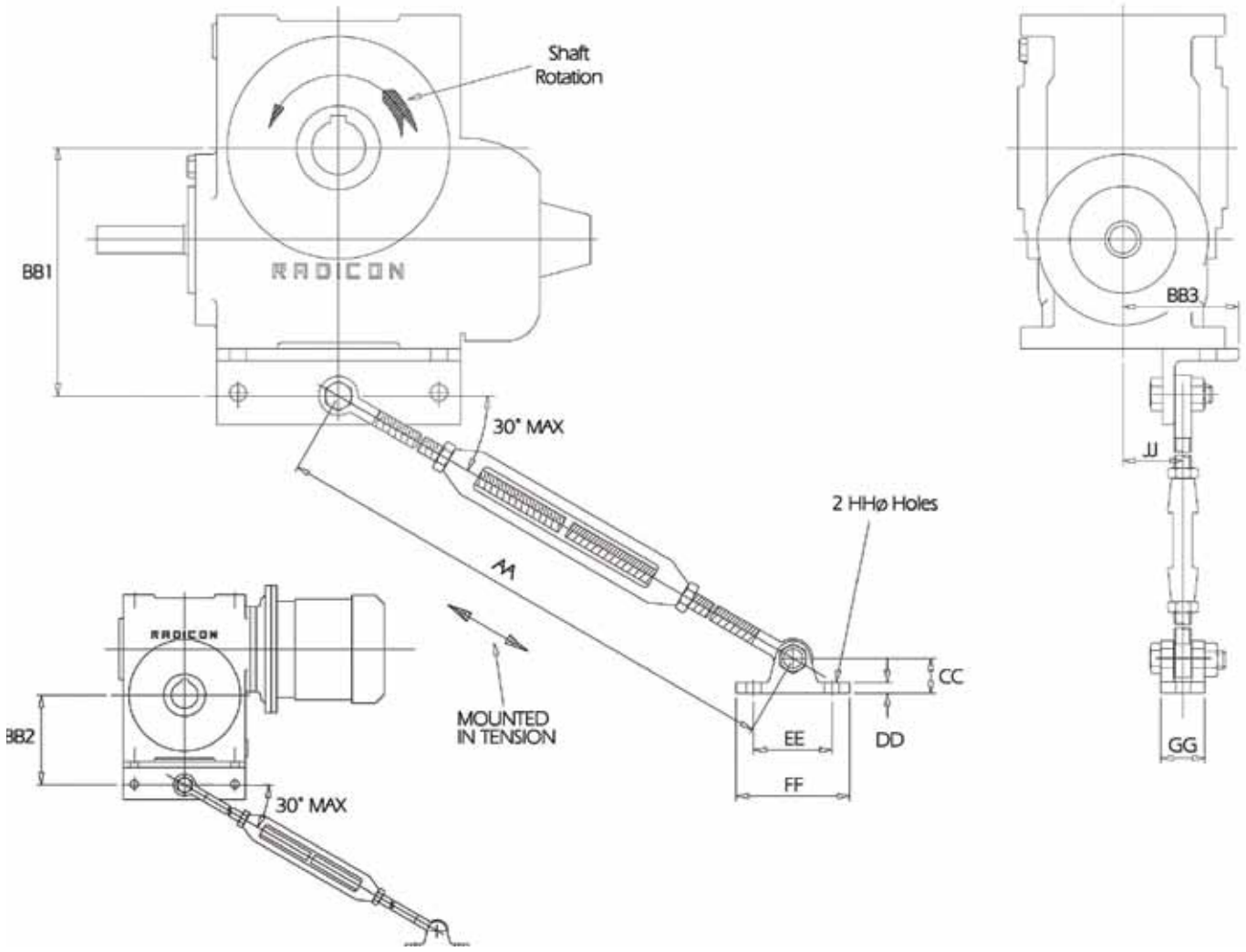
CASE WITH ADDITIONAL MACHINED SPIGOT



UNIT SIZE	A	B	C	D	E	F	G
A0280	4 Holes equally spaced M6 x 0.35 Deep	45°	2.87 PCD	1.73	1.61	2.0862 2.0854	3.35
A0410	4 Holes equally spaced M6 x 0.47 Deep	45°	3.50 PCD	2.17	2.01	2.7555 2.7547	3.98
A0510	4 Holes equally spaced M8 x 0.55 Deep	45°	4.21 PCD	2.32	2.17	3.3461 3.3453	4.80
A0610	8 Holes equally spaced M8 x 0.55 Deep	22.5°	5.12 PCD	2.56	2.40	4.1335 4.1327	5.75
A0730	8 Holes equally spaced M10 x 0.71 Deep	22.5°	6.10 PCD	3.11	2.91	4.9209 4.9201	6.89
A0860	8 Holes equally spaced M10 x 0.71 Deep	22.5°	6.93 PCD	3.74	3.54	5.7083 5.7075	7.72

This option is available in Additional Features - Column 20

TORQUE ARM DETAILS



	UNIT SIZE					
	A0280	A0410	A0510	A0610	A0730	A0860
B B 1	3.94	4.96	5.39	6.42	7.24	8.46
B B 2	3.03	3.58	3.90	4.65	5.35	6.06
B B 3	2.00	2.48	2.60	2.99	3.43	3.94
A A	14.0 - 20.0	14.0 - 20.0	19.0 - 25.0	19.0 - 25.0	19.0 - 25.0	24.0 - 29.5
C C	0.8125	0.8125	1.00	1.00	1.00	1.1875
D D	0.25	0.25	0.3125	0.3125	0.3125	0.375
E E	2.00	2.00	2.25	2.25	2.25	2.75
F F	2.75	2.75	3.25	3.25	3.25	4.00
G G	1.00	1.00	1.25	1.25	1.25	1.50
H H	0.35	0.35	0.43	0.43	0.43	0.56
J J	1.22	1.34	1.50	1.57	2.01	2.28

The torque arm should be fitted on that side of the gear unit which is adjacent to the driven machine.

The angle between the torque arm and the high speed shaft MUST NOT EXCEED 30°. The torque arm must be posi- tioned so that it is loaded IN TENSION. ie in the direction of TORQUE REACTION, which is opposite to the direction of shaft rotation, as shown above.

For reversing applications two torque arms must be fitted in opposite mounting positions.

Gear units must be locked axially when mounted in position, and supported by the low speed sleeve for a minimum of 90% of the bore length.

SINGLE REDUCTION

COLUMN 10 ENTRY		UNIT SIZE					
		A0280	A0410	A0510	A0610	A0730	A0860
R	Unit Weight	9.9	16.3	24.7	35.3	63.9	99.2
	Weight Packed	13.2	19.8	29.1	41.9	75.0	116.8
	Volume Packed (ft^3)	0.5	0.5	1.0	1.0	2.3	3.0
G	Unit Weight	15.4	24.9	33.7	48.5	77.2	119.0
	Weight Packed	19.8	28.7	39.7	57.3	92.6	141.1
	Volume Packed (ft^3)	0.6	0.6	1.1	1.1	2.4	3.6

DOUBLE REDUCTION

COLUMN 10 ENTRY		UNIT SIZE				
		A0410	A0510	A0610	A0730	A0860
D	Unit Weight	27.6	36.4	55.1	83.8	130.1
	Weight Packed	34.2	40.8	61.7	94.8	143.3
	Volume Packed (ft^3)	1.0	1.5	1.5	2.8	3.8
H	Unit Weight	34.2	41.9	63.9	92.6	138.9
	Weight Packed	41.9	48.5	81.6	108.0	154.3
	Volume Packed (ft^3)	1.2	1.6	1.6	2.9	4.2

ALL WEIGHTS IN lb ALL WEIGHTS INCLUDE LUBRICANT

COLUMN 10 ENTRY
- R - REDUCER UNIT - SINGLE REDUCTION
- G - UNIT TO ALLOW FITTING OF A NON DB RADICON MOTOR - SINGLE REDUCTION
- D - REDUCER UNIT - DOUBLE REDUCTION
- H - UNIT TO ALLOW FITTING OF A NON DB RADICON MOTOR - DOUBLE REDUCTION

G AND H TYPE UNIT WEIGHTS AND VOLUMES DO NOT INCLUDE MOTORS

MAXIMUM STANDARD MOTOR FLANGES HAVE BEEN INCLUDED IN WEIGHTS AND VOLUMES

MOMENTS OF INERTIA (lb.in^2) Referred to Input Shaft

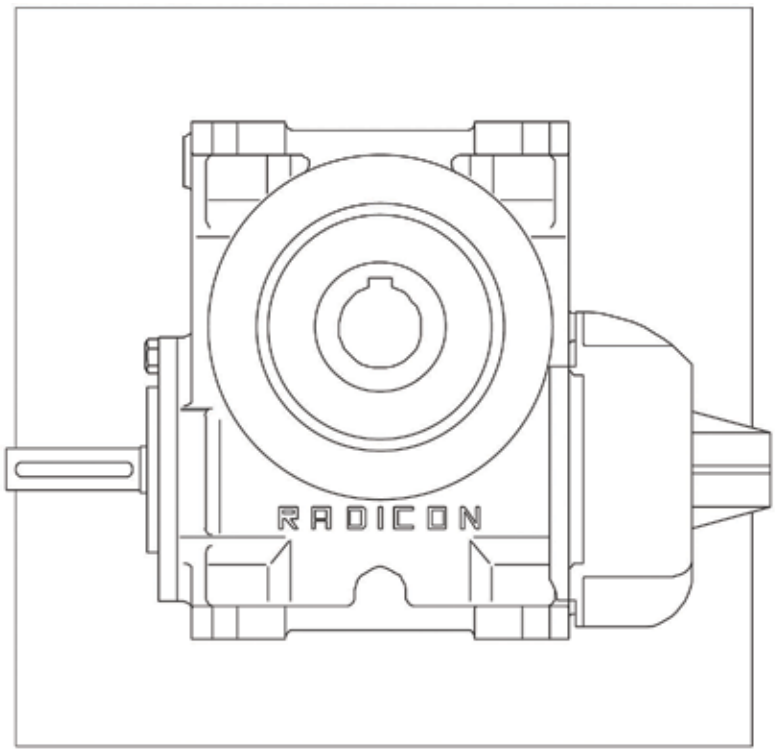
SINGLE REDUCTION

RATIO	A0280	A0410	A0510	A0610	A0730	A0860
5.00	0.02	0.14	0.40	0.85	1.96	4.66
7.50	0.02	0.10	0.23	0.48	1.21	2.67
10.00	0.01	0.08	0.17	0.33	0.78	1.97
12.50	0.01	0.07	0.14	0.27	0.74	1.44
15.00	0.01	0.07	0.11	0.22	0.63	1.47
20.00	0.02	0.05	0.14	0.26	0.48	1.11
25.00	0.01	0.06	0.12	0.22	0.64	1.45
30.00	0.01	0.06	0.09	0.18	0.49	1.18
40.00	0.01	0.05	0.07	0.14	0.40	1.01
50.00	0.01	0.04	0.07	0.12	0.36	0.88
60.00	0.01	0.05	0.06	0.10	0.35	0.82
70.00	0.01	0.04	0.05	0.10	0.35	0.83

DOUBLE REDUCTION

RATIO	A0410	A0510	A0610	A0730	A0860
75.00	0.01	0.01	0.07	0.08	0.14
100.00	0.01	0.01	0.07	0.07	0.12
125.00	0.01	0.01	0.07	0.08	0.14
150.00	0.01	0.01	0.06	0.06	0.12
200.00	0.01	0.01	0.06	0.06	0.11
225.00	0.01	0.01	0.06	0.06	0.08
250.00	0.01	0.01	0.06	0.06	0.12
300.00	0.01	0.01	0.05	0.05	0.13
350.00	0.01	0.01	0.06	0.06	0.11
375.00	0.01	0.01	0.06	0.07	0.08
400.00	0.01	0.01	0.05	0.05	0.13
450.00	0.01	0.01	0.06	0.06	0.08
500.00	0.01	0.01	0.05	0.05	0.13
600.00	0.01	0.01	0.05	0.05	0.13
625.0	0.01	0.01	0.06	0.06	0.11
700.00	0.01	0.01	0.04	0.04	0.05
750.00	0.01	0.01	0.06	0.06	0.11
800.00	0.01	0.01	0.05	0.05	0.07
900.00	0.01	0.01	0.05	0.05	0.09
1000.00	0.01	0.01	0.05	0.05	0.07
1200.00	0.01	0.01	0.05	0.05	0.07
1250.00	0.01	0.01	0.04	0.04	0.06
1400.00	0.01	0.01	0.04	0.04	0.05
1500.00	0.01	0.01	0.04	0.04	0.06
1600.00	0.01	0.01	0.05	0.05	0.07
1750.00	0.01	0.01	0.04	0.04	0.05
1800.00	0.01	0.01	0.04	0.04	0.06
2000.00	0.01	0.01	0.04	0.04	0.06
2100.00	0.01	0.01	0.04	0.04	0.05
2400.00	0.01	0.01	0.04	0.04	0.06
2500.00	0.01	0.01	0.04	0.04	0.06
2800.00	0.01	0.01	0.04	0.04	0.05
3000.00	0.01	0.01	0.04	0.04	0.06
3500.00	0.01	0.01	0.04	0.04	0.05
3600.00	0.01	0.01	0.04	0.04	0.06
4200.00	0.01	0.01	0.04	0.04	0.05

GD^2 (lb.in^2) = 4 x Moment of Inertia (lb.in^2)



INSTALLATION & MAINTENANCE

1 GENERAL INFORMATION

The following instructions will help you achieve a satisfactory installation of your worm gearbox Series A unit, ensuring the best possible conditions for a long and trouble free operation.

All units are tested and checked prior to despatch, a great deal of care is taken in packing and shipping arrangements to ensure that the unit arrives at the customer in the approved condition.

Series A gear units will perform satisfactorily if subjected to full load immediately after installation. However, optimum performance is best achieved by a process of gradual load increments, up to the full value, over the first 50 hours or so of their working life. During these early stages of running, sensible precautions should be taken to avoid overloads.

The gear unit operating temperature may be higher during this period of run-in. A progressive reduction in temperature may occur over many hours until the unit has reached its highest efficiency.

2 FITTING OF COMPONENTS TO EITHER THE UNIT INPUT OR OUTPUT SHAFT

Shaft dimensions are held to limits of +0.0000" -0.0005".

- Items (such as gears, sprockets, couplings etc) should not be hammered onto these shafts since this would damage the shaft support bearings.
- The item should be pushed onto the shaft using a screw jack device fitted into the threaded hole provided in the end of the shaft.
- Items being fitted may be heated to 80/100oC (176/212oF) to aid assembly further.

3 WEATHER PROTECTION OF UNIT

All Series A units are provided with protection against normal weather conditions. Where units are to operate in extreme conditions, or where they are to stand for long periods without running, eg during plant construction, we should be notified when ordering so that arrangements for adequate protection can be made.

4 INSTALLATION

4.1 MOTORIZED AND REDUCERS

All sizes are factory filled with a Polyglycol based synthetic lubricant. They are 'Lubricated for Life' and require no routine maintenance in service

4.2 FIXING TO CUSTOMER EQUIPMENT

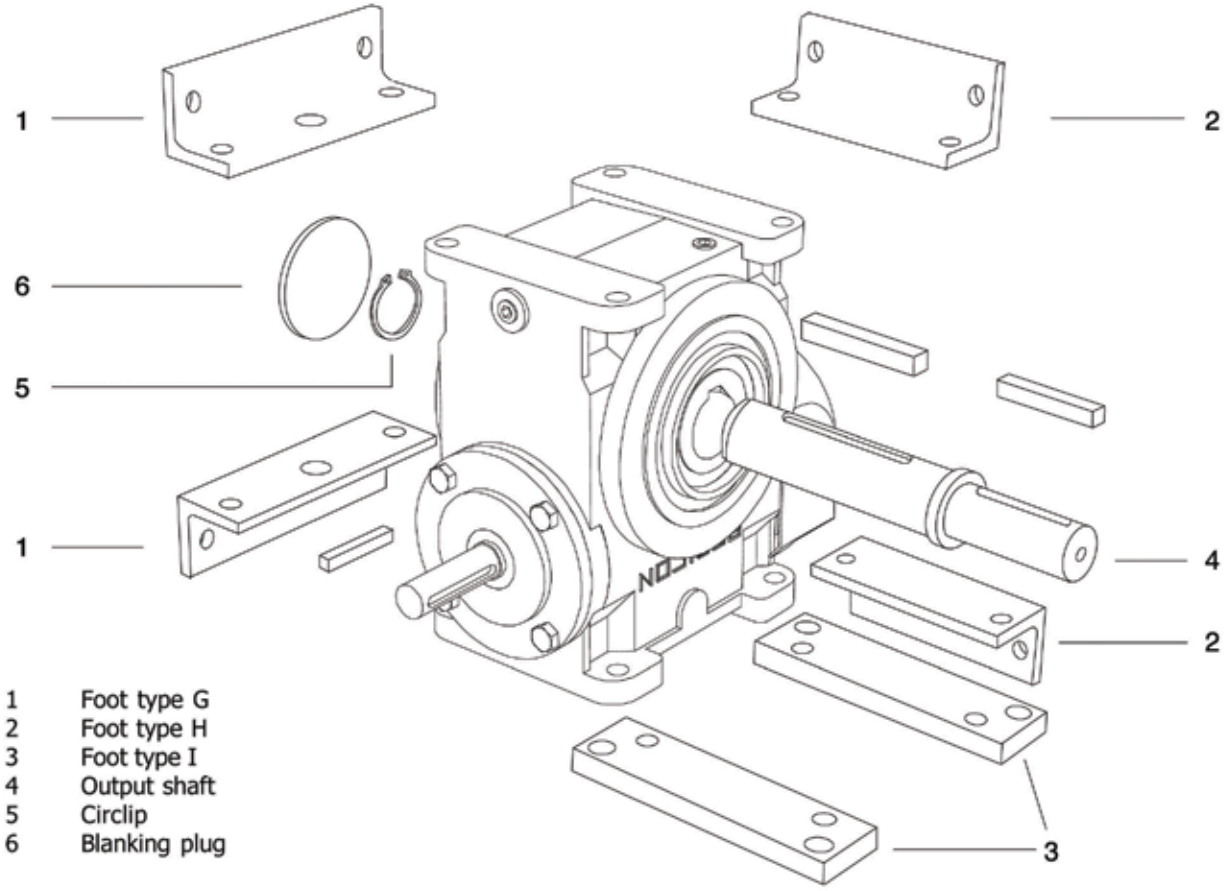
Fixing the Gear Head flange facing or feet to the customer equipment use set screws to ISO grade 8.8 minimum.

Torque tighten to:-

Set Screw Size	Tightening Torque	Tightening Torque
M6	88 lb-ins	7.3 lb-ft
M8	220 lb-ins	18.3 lb-ft
M10	450 lb-ins	37.5 lb-ft
M12	750 lb-ins	62.5 lb-ft
M16	1770 lb-ins	147.5 lb-ft
M20	3100 lb-ins	258.3 lb-ft
M24	5400 lb-ins	450.0 lb-ft

4.3 MOTOR CONNECTIONS TO MAINS

Connection of the electric motor to the mains supply should be made by a qualified person. The current rating of the motor will be identified on the motor plate, and correct sizing of the cables to electrical regulations is essential.



1 Foot type G
2 Foot type H
3 Foot type I
4 Output shaft
5 Circlip
6 Blanking plug

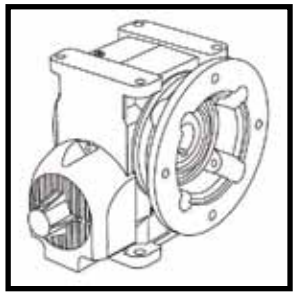
FEET ASSEMBLY (TYPES G, H, I)

1 Clean shaft extension with petroleum spirit
2 Remove paint from locating faces on gearcase with scraper and petroleum spirit
3 Secure feet (item 1, 2 or 3) to gear case with nuts and bolts provided to thumb tightness, in required operating position
4 Ensure foot pads are correctly seated
5 Secure to foundations with bolts to thumb tightness and line up unit
6 Tighten feet bolts to unit
7 Check shaft alignment (see page 77) and tighten down bolts. Series A units are provided with intergral feet for mounting in the overdriven and underdriven positions. Feet type I are available to provide exact interchangeability with previous well established Radicon adaptable Series 9 range.

OUTPUT SHAFT ASSEMBLY

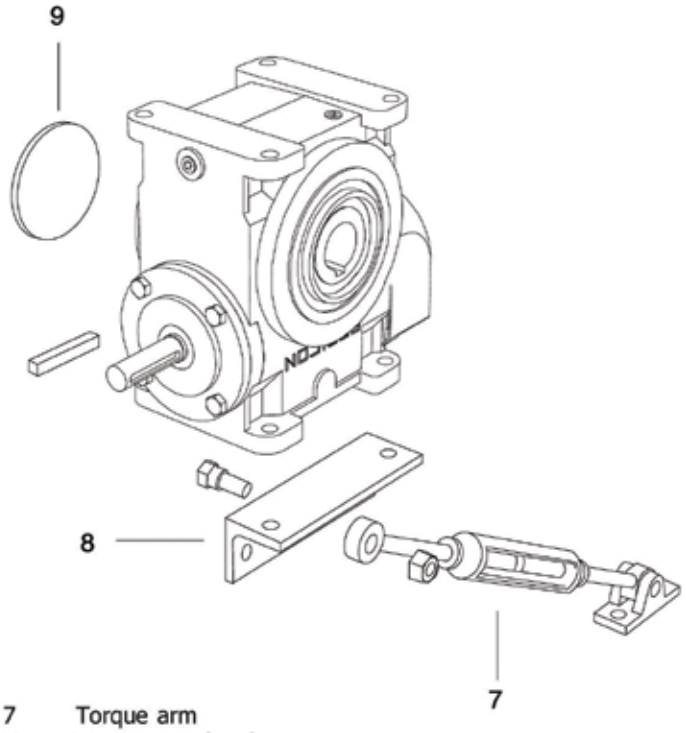
1 Clean outputshaft (item 4) and bore in gear unit with petroleum spirit
2 Fit keys into output shaft, ensuring they are firmly seated
3 Press shaft into gear unit bore to give desired shaft handling (Left or Right), until firmly up against shaft shoulder
4 Fit circlip (item 5) into groove in shaft on opposite side to extension
5 Tap blanking plug (item 6) into recess in gear case/end cover

NOTE: For reversing drives where end float is critical, it may be necessary to fit shims behind the circlip fixing. These are available on request from application engineering.

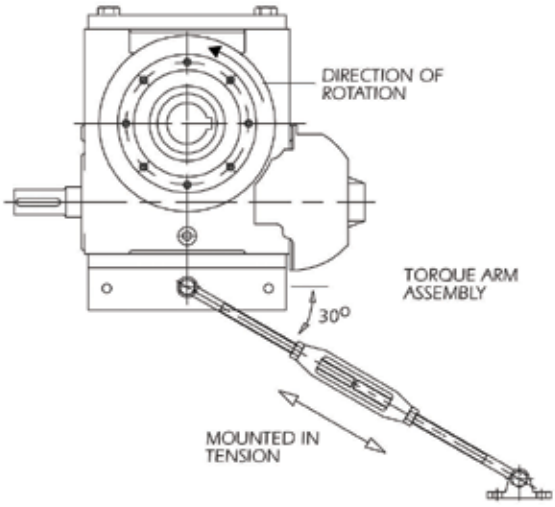


FLANGE MOUNT UNIT (VERSION F)

1 Series A units are also available with circular output flanges located to the output shaft cover with extended bolts. These are normally factory fitted
2 The output flange is provided with a female spigot recess facilitating accurate location and concentricity with clients driven shaft
3 Flange to foundation fixing is by means of stud and nut, alternatively bolt and nut, entered from the side of the driven machinery
4 Ensure facing of flange is thoroughly cleaned prior to mounting

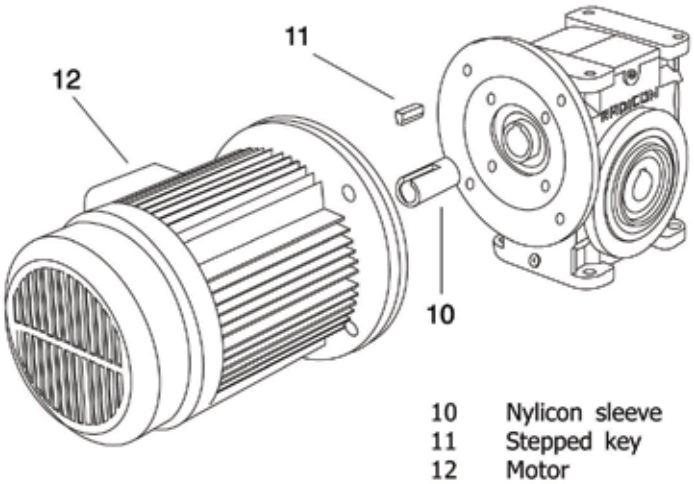


7 Torque arm
8 Torque arm bracket
9 Blanking plug



SHAFT MOUNT UNITS

1 Clean input shaft extension and output bore with petroleum spirit
2 Fit torque arm assembly (item 7) on side of unit nearest to driven machine. Torque arm must be secured to the central hole in the torque arm bracket (item 8) fitted to the gear unit. Angle of torque arm to input shaft centre line must not exceed 30°, and should be mounted in tension (see diagram above).



10 Nylicon sleeve
11 Stepped key
12 Motor

MOTOR FRAME / BUSH COMBINATIONS

Motor Frame	UNIT SIZE					
	280	410	510	610	730	860
D63	11mm					
D71	*	14mm				
D80		*	19mm	19mm	19mm	
D90			*	24mm	24mm	24mm
D100/112				*	*	28mm
D132						*
* No bush required - motor fits direct into gearbox						

MOTORIZED UNITS

1 Motorized units are available with a variety of flange adaptors and bushing to accommodate different motor sizes. The table below details the frame size/bush combinations.
2 The motor flange is normally factory fitted, and is spigot located to the input shaft cover with extended bolts.
3 Clean locating faces of motor, gear unit, and motor shaft with petroleum spirit, discard standard motor shaft key
4 Where applicable, slide nylon sleeve (item 10) over motor shaft and line up keyway slot
5 Fit stepped key provided (item 11) into motor shaft and bush, ensuring it is firmly seated
6 The surface of the wormshaft bore is pre-treated with an anti-fretting agent, which must not be removed
7 Slide motor shaft into wormshaft bore, locating motor (item 12) and unit flanges
8 Rotate motor until terminal box is in desired position. Secure motor to unit using four flange bolts provided. Ensure bolts are tightened uniformly to prevent flange distortion
9 Check motor wiring for correct direction of rotation

Radicon Series A Junior units are factory filled with a Polyglycol based synthetic lubricant. They are "Lubricated for Life" and require no routine maintenance in service.

In the event of a major overhaul involving strip-down and re-assembly of the gear unit refer to Table 1 for a list of approved lubricants. Lubricant quantities are given in Tables 2 and 3.

Table 1 Approved Lubricants

Type G Polyglycol based synthetic lubricants with Anti-Wear or EP additives

These lubricants are suitable for ambient temperatures of 32°F to 104°F (0°C to 40°C); outside of this, please consult application engineering.

SUPPLIER	LUBRICANT RANGE	GRADE 6G
		OIL SUPPLIERS' CORRESPONDING DESIGNATIONS
Boxer Services Limited	Boxergear W	Boxergear W
Carl Bechem GmbH	Berusynth EP	Berusynth EP
Castrol International	Alphasyn PG	Alphasyn PG
Esso/Exxon	Glycolube	Glycolube
Fuchs Mineraloelwerke GmbH	Renolin PG	Renolin PG
International Speciality Chemicals	Breox Industrial Lubricant Sw	Breox Industrial Lubricant Sw
Klüber Lubrication	Klübersynth GH6	Klübersynth GH6
Kuwait Petroleum International	Q8 Gade	Q8 Gade
Mobil Oil Company Limited	Glygoyle	Glygoyle
Shell Oils	Tivela	Tivela
Texaco Limited	Synlube CLP	Synlube CLP
Tribol, Molub-Alloy	Tribol 800	Tribol 800

DANGER
Numbers in brackets indicate recommended minimum operating temperature in °F.

The unit must not run below this temperature

CONVERSION TABLE
Litres to US gallons = litres x 0.26
Litres to Imperial gallons = litres x 0.22

Table 1 Lubricant Quantities (Litres)

Applicable for all mounting positions:-

MOTORIZED or REDUCER	UNIT SIZE					
	A0280	A0410	A0510	A0610	A0730	A0860
Oil Capacity (Litres)	0.24	0.38	0.56	1.00	2.02	3.10

Table 3 Lubricant Quantities (Litres)

For units running at input speeds below 500 rev/min with either the input or output shaft vertical, also for the secondary stage of all double reduction units irrespective of shaft disposition, the oil quantities in Table 3 below are applicable:-

MOTORIZED or REDUCER	UNIT SIZE					
	A0280	A0410	A0510	A0610	A0730	A0860
Oil Capacity (Litres)	0.31	0.48	0.74	1.28	2.62	3.94

Double Reduction Units - obtain secondary stage lubricant quantity from table 3 and primary stage quantity from table 2

MOTORIZED or REDUCER	DOUBLE REDUCTION UNIT SIZE					
	A0280	A0410	A0510	A0610	A0730	A0860
Secondary stage	-	A0410	A0510	A0610	A0730	A0860
Primary stage	-	A0280	A0280	A0410	A0410	A0510

GENERAL INSTRUCTIONS
SHAFT ALIGNMENT Coupling Connections

Angular Errors
1 Take up end float pushing in shaft ends.
2 Using thickness and feeler gauges, take readings in positions 1, 2, 3 and 4 (Fig2).
3 Adjust unit by shimming under feet.

Fig 1

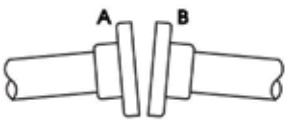
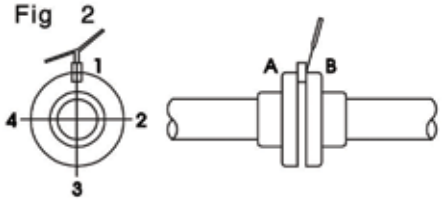


Fig 2



Eccentric Errors
1 Place straight edge across coupling halves at points 1, 2, 3 and 4 (Fig 4). If coupling diameters are nor equal, use feeler gauge equal to half the difference in diameters.
2 if error is in vertical plane, adjust height of unit. If error is in horizontal plane, move unit transversally.

Fig 3

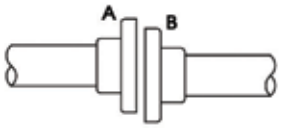
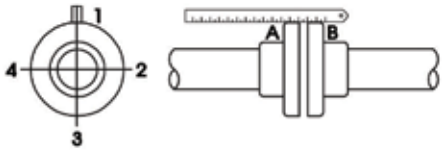


Fig 4



CHAIN AND BELT DRIVES
Mount sprockets or pulleys as close to the gear unit as possible to avoid undue bearing loads and shaft deflection see Fig 5. Chains and belts should be sufficiently light as to prevent slip OVER TIGHTENING CAN CAUSE DAMAGE TO THE UNIT. Consult manufactures' recommendations.
Check that driving and driven shafts are square and parallel using straight edge as in Fig 6.
Check horizontal shaft alignment using combined square and level as in Fig 7.

Fig 5

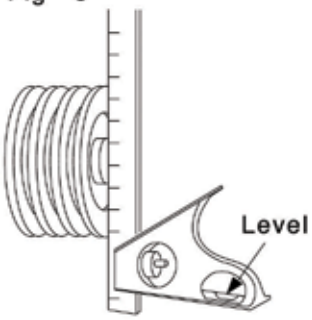


Fig 6

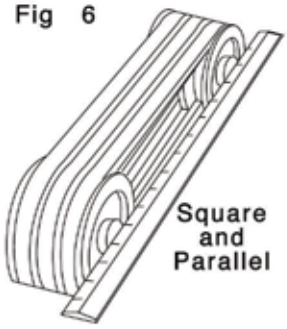
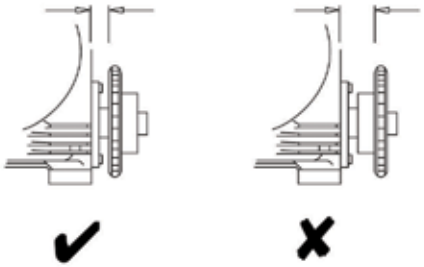


Fig 7



FIT GUARDS IN ACCORDANCE WITH FACTORY ACTS

If a unit is to be subject to long term storage refer to application engineering.

WARNING
The customer shall be responsible for the proper use of articles we supply, particularly the rotating shafts between their driving and driven members, and their guarding for safety. We shall not be responsible for any injury or damage substained as a result of the improper use of the articles supplied.

Attention is hereby drawn to the danger of using naked lights in proximity of opening in gearboxes and gear units supplied we supply, and the company shall not be liable for any claim for injury or damage arising from any action in contradiction of this warning.

GENERAL SAFETY

Potential hazards which can be encountered during installation, maintenance and operation of drives is covered in greater detail in the product safety page at the front of this booklet.

Advice is also given on sensible precautions which need to be taken to avoid injury or damage. **PLEASE READ!**

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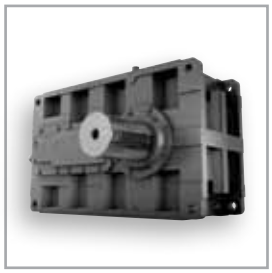

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