

Shaft Mounted Speed Reducer Selection



GEARBOX SELECTION PROCEDURE

(a) Service Factor

From Table 1 select the service factor applicable to the drive.

(b) Design Power

Multiply the absorbed power (or motor power if absorbed power not known) by the service factor chosen in step (a).

NOTE:

Gear units are momentarily capable of transmitting twice (2x) the rated capacity on start or during operation.

(c) Unit Selection

Using the value from step (b) refer to the power rating tables on page 256 and select the correct size of unit.

The choice of single or double reduction gearbox will be determined by the output speed required. The normal operating speeds for each of the gearboxes may be observed in the power rating and belt drive tables.

For other speeds consult your local Authorised Distributor.

BELT DRIVE SELECTION

Selection of associated belt drive for 1440 rev/min. electric motors**(d1) Output Speed**

Refer to the Drive Selection Tables (pages 263 to 266 and under the appropriate gearbox size and ratio read down the column headed 'Output Speed' until an Output Speed equal or

near to that required is found.

The suggested ratio is given in the first column.

(e1) Pulley Diameters

Read across from the chosen output speed to obtain both driving and driven pulley pitch diameters, groove section and the appropriate number of belts.

NOTE:

In many instances one belt is recommended, being adequate for power transmission purposes; where customer preference is for multi-belt drives consult your local Authorised Distributor.

(f1) Centre Distance

Belt length and centre distance can be found by referring to pages 40-51.

(g1) Hub Bore Size

Refer to the output hub dimensions table on page 257 for the range of bore sizes available.

Selection of associated belt drive for driving speeds other than 1440 rev/min.**(d2) Gearbox Input Shaft Speed**

Multiply the gearbox output speed by the exact gear ratio (found in the table on page 259) to obtain the gearbox input shaft speed.

(e2) Selection of 'V'-Drive

The correct belt drive can now be selected by referring to page 38.

NOTE:

Wedge belt drives shown on pages 263 to 266 have been selected to give the most economical total drive package for the

speed required. If it is necessary to design a special drive it is advisable to consult your local Authorised Distributor.

Torque arm should preferably be in tension when unit is in operation. See page 267

If in any doubt consult your local Authorised Distributor.

EXAMPLE

A Shaft Mounted Speed Reducer is required for a uniformly loaded elevator which absorbs 3.6 kW at 50 rev/min. The prime mover is a 4 kW 1440 rev/min. direct on line start electric motor. A belt drive is required between the motor and gearbox at approximately 700 mm centres running for up to 24 hours/day.

SOLUTION**Selection Procedure****(a) Service factor**

From Table 1 the service factor is 1.25.

(b) Design Power

Using the elevator absorbed power of 3.6 kW.

Design Power = 1.25 x 3.6 = 4.5 kW.

(c) Unit Selection

Using 4.5 kW as the basis for selection reference to the power rating tables (page 256) indicates that an E13 or E20 gear unit will transmit 6.48 kW at 50 rev/min.

Selection of associated belt drive**(d) Output Speed**

A more economic belt drive will be obtained if the 20:1 ratio gearbox is selected, and by reference to page 264 in the gearbox drive tables 50 rev/min. is obtainable.

(e) Pulley Diameters

On the line giving the output speed of 50 rev/min read across and note the driving and driven pulley pitch diameters together with the numbers of belts required, which for this case is 106 mm and 150 mm, using 2 XPA Wedge Belts.

(f) Belt Selection

By reference to page 44 it can be seen that XPA 1800 belts give 699 mm centres.

(e) Available Bores

By referring to the output hub bore dimensions table on page 257, it can be seen that the size E is available with a range of bore sizes in both parallel bore and Taper Grip bush.

Parallel bore sizes are 55, 50 and 65mm whilst Taper Grip is available in 42mm and 55mm.

TABLE 1—SERVICE FACTORS

Types of Driven Machine	Operational Hours Per Day		
	Under 10	10 to 16	Over 16
Uniform Agitators and Mixers - liquid or semi-liquid Blowers – centrifugal Bottling Machines Conveyors and Elevators – uniformly loaded Cookers Laundry Washing Machines – non-reversing Line Shafts Pumps – centrifugal and gear Wire Drawing Machines	1.00	1.12	1.25
Moderate Shock Agitators and Mixers – variable density Conveyors – not uniformly loaded Cranes. travel motion and hoisting Drawbench Feeders – pulsating load Hoists Kilns Laundry Tumblers Lifts Piston Pumps – with 3 or more cylinders Pulp and Paper making machines Rubber Mixers and Calenders Rotary Screens Textile Machinery	1.25	1.40	1.60
Heavy Shock Brick presses Briquetting Machines Conveyors – reciprocating and shaker Crushers Feeders – reciprocating Hammer Mills Piston Pumps – 1 or 2 cylinders Rubber Masticators Vibrating Machines	1.60	1.80	2.00



Shaft Mounted Speed Reducer Power Ratings

POWER RATINGS (KW) 5:1 UNITS (SINGLE REDUCTION)

Output rev/min	B	C	D	E	F	G	H	J	S	T
100	2.68	4.62	7.24	11.36	16.64	28.80	41.3	63.5	86.4	113.7
110	2.87	4.84	7.58	11.89	17.42	30.14	43.3	66.5	90.4	119.0
120	3.13	5.05	7.91	12.42	18.20	31.48	45.2	69.5	94.5	124.3
130	3.36	5.27	8.25	12.95	18.97	32.83	47.1	72.4	98.5	129.7
140	3.56	5.49	8.59	13.48	19.75	34.17	49.1	75.4	102.5	135.0
150	3.62	5.70	8.93	14.01	20.53	35.52	51.0	78.4	106.5	140.3
160	3.73	5.92	9.27	14.54	21.30	36.86	52.9	81.3	110.6	145.6
170	3.83	6.13	9.60	15.07	22.08	38.20	54.9	84.3	114.6	150.9
180	3.94	6.35	9.94	15.60	22.86	39.55	56.8	87.3	118.6	156.2
190	4.04	6.57	10.28	16.13	23.63	40.89	58.7	90.2	122.7	161.5
200	4.20	6.78	10.62	16.66	24.41	42.24	60.6	93.2	126.7	166.8
210	4.31	7.00	10.95	17.19	25.19	43.58	62.6	96.2	130.7	172.1
220	4.41	7.21	11.29	17.72	25.96	44.92	64.5	99.1	134.8	177.4
230	4.53	7.43	11.63	18.25	26.74	46.27	66.4	102.1	138.8	182.7
240	4.66	7.64	11.97	18.78	27.52	47.61	68.4	105.0	142.8	188.0
250	4.78	7.86	12.31	19.31	28.29	48.95	70.3	108.0	146.9	193.3
260	4.89	8.08	12.64	19.84	29.07	50.30	72.2	111.0	150.9	195.5
270	5.04	8.29	12.98	20.37	29.85	51.64	74.1	113.9	154.9	—
280	5.20	8.51	13.32	20.90	30.62	52.99	76.1	115.9	159.0	—
290	5.36	8.72	13.66	21.43	31.40	54.33	78.0	—	160.2	—
300	5.46	8.94	13.99	21.96	32.18	55.67	79.9	—	—	—
310	5.62	9.15	14.33	22.49	32.95	57.02	81.9	—	—	—
320	5.78	9.37	14.67	23.02	33.73	58.36	83.8	—	—	—
330	5.88	9.59	15.01	23.55	34.51	59.70	—	—	—	—
340	6.09	9.80	15.35	24.08	35.29	61.05	—	—	—	—
350	6.30	10.02	15.68	24.61	36.06	62.39	—	—	—	—
360	6.41	10.23	16.02	25.14	36.84	63.74	—	—	—	—
370	6.62	10.45	16.36	25.67	37.62	65.08	—	—	—	—
380	6.72	10.66	16.70	26.20	38.39	—	—	—	—	—
390	6.93	10.88	17.04	26.73	39.17	—	—	—	—	—
400	7.14	11.10	17.37	27.26	39.95	—	—	—	—	—
Torque at 100 rev/min Nm	256	442	691	1085	1589	2750	3949	6068	8250	10862

CONSULT YOUR LOCAL AUTHORISED DISTRIBUTOR

POWER RATINGS (KW) 13:1, 20:1 AND 25:1 UNITS (DOUBLE REDUCTION)

Output rev/min	B	C	D	E	F	G	H	J	S	T	K	L	M
10	0.29	0.54	0.85	1.34	1.96	3.39	4.86	7.5	10.2	13.4	19.0	26.4	46.1
12	0.36	0.67	1.04	1.64	2.40	4.16	5.97	9.2	12.5	16.4	22.5	31.4	54.9
14	0.42	0.79	1.24	1.94	2.84	4.92	7.07	10.9	14.8	19.4	25.9	36.3	63.5
16	0.47	0.91	1.43	2.24	3.29	5.69	8.17	12.6	17.1	22.5	29.3	41.3	72.1
18	0.53	1.04	1.62	2.55	3.73	6.46	9.27	14.2	19.4	25.5	32.6	46.1	80.5
20	0.59	1.16	1.82	2.85	4.18	7.22	10.37	15.9	21.7	28.5	35.9	51.0	88.9
22	0.63	1.28	2.01	3.15	4.62	7.99	11.47	17.6	24.0	31.6	39.2	55.7	97.1
24	0.69	1.41	2.20	3.46	5.06	8.76	12.57	19.3	26.3	34.6	42.3	60.4	105.3
26	0.75	1.53	2.39	3.76	5.51	9.53	13.68	21.0	28.6	37.6	45.6	65.1	113.0
28	0.81	1.65	2.59	4.06	5.95	10.29	14.78	22.7	30.9	40.7	48.7	69.7	120.6
30	0.86	1.78	2.78	4.36	6.39	11.06	15.88	24.4	33.2	43.7	51.7	74.4	128.0
32	0.92	1.90	2.97	4.67	6.84	11.83	16.98	26.1	35.5	46.7	54.9	78.8	135.2
34	0.98	2.02	3.17	4.97	7.28	12.59	18.08	27.8	37.8	49.7	57.9	83.4	142.5
38	1.10	2.15	3.36	5.27	7.72	13.36	19.18	29.5	40.1	52.8	63.7	92.5	157.0
40	1.16	2.27	3.55	5.57	8.17	14.13	20.29	31.2	42.4	55.8	66.6	96.8	164.2
42	1.20	2.39	3.74	5.88	8.61	14.90	21.39	32.9	44.7	58.8	69.2	101.1	171.5
46	1.30	2.51	3.94	6.18	9.05	15.66	22.49	34.6	47.0	61.9	74.3	109.4	186.0
50	1.42	2.64	4.13	6.48	9.50	16.43	23.59	36.3	49.3	64.9	79.0	117.5	199.2
52	1.47	2.76	4.32	6.78	9.94	17.20	24.69	37.9	51.6	67.9	81.5	120.8	206.5
54	1.52	2.88	4.52	7.09	10.38	17.96	25.79	39.6	53.9	71.0	83.8	125.6	213.7
58	1.64	3.01	4.71	7.39	10.83	18.73	26.89	41.3	56.2	74.0	88.5	132.8	225.8
62	1.76	3.13	4.90	7.69	11.27	19.50	28.00	43.0	58.5	77.0	93.0	140.1	237.9
66	1.86	3.25	5.09	7.99	11.71	20.27	29.10	44.7	60.8	80.0	97.5	147.3	248.7
70	1.96	3.38	5.29	8.30	12.16	21.03	30.20	46.4	63.1	83.1	102.0	154.6	259.6
74	2.06	3.50	5.48	8.60	12.60	21.80	31.30	48.1	65.4	86.1	104.1	157.0	270.5
78	2.15	3.72	5.83	9.15	13.41	23.20	33.31	51.2	69.6	91.6	110.4	167.8	280.1
80	2.23	3.95	6.18	9.70	14.22	24.60	35.32	54.3	73.8	97.2	112.6	—	—
85	2.34	4.17	6.54	10.26	15.03	26.00	37.33	57.4	78.0	102.7	—	—	—
90	2.48	4.40	6.89	10.81	15.84	27.40	39.34	60.5	82.2	108.2	—	—	—
95	2.61	4.62	7.24	11.36	16.64	28.80	41.35	63.5	86.4	113.6	—	—	—
100	2.73	4.62	7.24	11.36	16.64	28.80	41.35	—	86.4	—	—	—	—
Torque at 10 rpm (Nm)	277	519	812	1276	1870	3235	4645	7139	9706	12778	18120	25254	44051

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The dotted line shows the limit of recommended output speed for reducers with 20:1 and 25:1 ratios. For higher speeds use a 13:1 or 5:1 reducer.

Shaft Mounted Speed Reducer Output Hubs



OUTPUT HUB DIMENSIONS ('B' SEE PAGE 258)

Reducer Size	Standard Hub Bore (1)	Standard Hub Bush bores	Upper Alternative Hub Bore †	Upper Alternative Hub Bush Bores	Lower Alternative Hub Bore (2)	Taper-Grip Standard Hub Bore	Taper-Grip Alternative Hub Bore
B	30	25 1" 20 3/4"	40	35 1/4" 32	-	30	25
C	40	35 1/4" 32 30	50	45 1 3/2" 38	30	40	30
D	50	45 1 3/4" 42 1 1/2" 40 1 1/4" 38	55	2"	40	50	38
E	55	50 2" 45 1 3/4" 42 1 1/2"	65	60 2 1/4"	50	55	42
F	65	60 2 1/4" 55 2" 50	75	70 2 3/4" 2 1/2"	55	65	50
G	75	70 2 3/4" 65 2 1/2" 60 2 1/4"	85	80 3"	65	75	60
H	85	80 3" 75 2 3/4" 70 2 1/2"	100	95 3 1/2" 90	75	85	65
J	100	95 3 1/2" 90	120	110 4 1/2" 4"	85	100	80
S	120	110 4 1/2" 100 4" 90 3 1/2"	125		100	120	90
T	125	110 4 1/2" 100 4" 90 3 1/2"	135		120	125	100
K	125	110 4 1/2" 100 4" 90 3 1/2"	-		-	125	100
L	150	130 5 1/2" 125 5" 100 4 1/2"	-		-	150	130
M	190*		-		-	190	130

All dimensions in millimetres unless otherwise stated.

(1) STANDARD HUB BORES

Metric hubs are bored to F7 limits, Inch hubs are bored to H7 limits.

A shaft tolerance grade h7 is recommended.

Shaft keyways must be appropriate standard dimensions, i.e. to BS 4235 for "metric" shafts and BS 46 for "inch" shafts.

* Max Hub bore size M reducer is 190mm, smaller bores are available to customer requirements — consult your local Authorised Distributor

† The upper alternative hub bore is the maximum bore available in each unit size.

(2) TAPER-GRIP™ HUB BORES

Shaft with tolerances up to h11 can be accommodated.

AGMA output hubs conforming to North American standards are available. Consult your local Authorised Distributor.

STANDARD HUB KEYWAYS

Keyways for the standard Output Hubs and Bushes are machined in accordance with BS 4235 for metric shafts and BS 46 for "inch" shafts.

Keys are supplied with reduction bushes, but not where the output hub directly fits the shaft.

Reduction bushes may be supplied with two separate keys for hub and shaft or a single stepped key, depending on the bush wall thickness.

The shaft keyway should be machined to suit the standard key size shown below, regardless of the hub bore diameter.

Shaft Diameter (mm)	Key size
20	6 x 6
25	8 x 7
30	8 x 7
32	10 x 8
35	10 x 8
38	10 x 8
40	12 x 8
42	12 x 8
45	14 x 9
50	14 x 9
55	16 x 10
60	18 x 11
65	18 x 11
70	20 x 12
75	20 x 12
80	22 x 14
85	22 x 14
90	25 x 14
95	25 x 14
100	28 x 16
110	28 x 16
120	32 x 18
125	32 x 18
130	32 x 18
140	36 x 20
150	36 x 20
190	45 x 25

Shaft Diameter (inches)	Key size
3/4"	3/16" x 3/16"
1"	1/4" x 1/4"
1 1/4"	5/16" x 1/4"
1 1/2"	3/8" x 1/4"
1 3/4"	7/16" x 5/16"
2"	1/2" x 5/16"
2 1/4"	5/8" x 7/16"
2 1/2"	5/8" x 7/16"
2 3/4"	3/4" x 1/2"
3"	3/4" x 1/2"
3 1/2"	7/8" x 5/8"
4"	1 x 3/4"
4 1/2"	1 1/4" x 7/8"
5"	1 1/4" x 7/8"
5 1/2"	1 1/2" x 1"

GEARBOX CODING

The required unit is identified by an eight digit code as under:

First Three Digits:	Product Prefix	Constant 116
Fourth Digit:	Unit Size	B C D E F G H J S T K L M
Fifth and Sixth Digits:	Ratio Code	05. 13. 20 & 25
Seventh Digit:	Indicates Assembly	0 Shaft Mounted Speed Reducer 4 Standard Hydraulic Motor
Eighth Digit:	Indicates Output Hub bore required	1 Standard Metric bore † 2 Upper Alternative Metric bore † 3 Lower Alternative Metric bore † 5 Taper-Grip Hub

† The hub bushes in the table opposite can be used in all three parallel hub bore options.

Example

Size G Unit 20:1 nominal Gear Ratio. shaft mounted with standard Metric Hub Bore (75mm) 116G2001. If Backstop or Output Bushes are required, these should be ordered separately. e.g. 116G2001 complete with Backstop and 60 mm Output Hub Bushes.

TAPER-GRIP CODING

Taper-Grip units are supplied without the Taper-Grip Bush. These should be ordered separately, see table below.

First Three Digits:	Product Prefix	012 Metric bores	013 Inch bores
Fourth Digit:	Unit Size	B C D E F G H J S T K L M	
Fifth Digits:	Constant	1	
Sixth, Seventh and Eighth Digit:	Indicates Taper-Grip bore size in millimetres or inches	Metric Bore	Bore Code
		Inch Bore	Bore Code
		25	025
		30	030
		35	035
		40	040
		45	045
		50	050
		55	055
		60	060
		65	065
		75	075
		85	085
		90	090
		100	100
		120	120
		125	125
		130	130
		150	150
		190	190
Example			
	Size G Unit 20:1 nominal Gear Ratio. shaft mounted with Metric Taper-Grip Bore (75 mm). SMSR code is 116G2005.		
	Taper-Grip bush code is 012G1075.		

OPTIONAL EXTRAS**Backstops**

Incorporated to prevent reversal of rotation. Quickly installed within the reducer, by simply removing a cover plate.

Flange Mounting

All gear cases now have drilled and tapped holes in the input drive face for bolting direct to a supporting framework. This flange mounting use of the reducer eliminates a bearing or pillow block. However the belt adjustment feature of shaft mounting is also lost, see page 267.

Reversing Duty

Shaft Mounted Speed Reducers suitable for reversing duty can be supplied to order.

Vertical Shafts

Units suitable for mounting on vertical shafts can be supplied at extra charge. When ordering, please specify whether input shaft is above or below.

AGMA Output Hubs

Bores conforming to North American standards are available.

Screw Conveyors

Screw conveyor adaptors conforming to CEMA mounting specifications are available.

SMSR PARALLEL HUB BUSHES

HUB. mm	SMSR		SHAFT		BUSH CODE
	DIA Alt.	SIZE Std.	DIA. inch	DIA. mm	
30	-	B	0.75	-	016A9106
30	-	B	-	20	016A9220
30	-	B	-	25	016A9225
30	-	B	1.00	-	016A9110
40	-	C	-	30	016C9230
40	B	C	1.25	-	016B9112
50	-	D	1.25	-	016D9112
40	B	C	-	32	016B9232
40	B	C	-	35	016B9235
50	C	D	-	38	016C9238
50	C	D	1.50	-	016C9114
55	-	E	1.50	-	016E9114
50	-	D	-	40	016D9240
50	C	D	-	42	016C9242
55	-	E	-	42	016E9242
50	C	D	1.75	-	016C9116
55	-	E	1.75	-	016E9116
50	C	D	-	45	016C9245
55	-	E	-	45	016E9245
55	-	E	-	50	016E9250
65	-	F	-	50	016F9250
55	D	E	2.00	-	016D9120
65	-	F	2.00	-	016F9120
65	-	F	-	55	016F9255
65	E	F	2.25	-	016E9122
75	-	G	2.25	-	016G9122
65	E	F	-	60	016E9260
75	-	G	-	60	016G9260
75	F	G	2.50	-	016F9124
85	-	H	2.50	-	016H9124
75	-	G	-	65	016G9265
75	F	G	2.75	-	016F9126
85	-	H	2.75	-	016H9126
75	F	G	-	70	016F9270
85	-	H	-	70	016H9270
85	-	H	-	75	016H9275
85	G	H	3.00	-	016G9130
85	G	H	-	80	016G9280
100	H	J	3.50	-	016H9134
120	-	S	3.50	-	016S9134
125	-	T/K	3.50	-	016K9134
100	H	J	-	90	016H9290
120	-	S	-	90	016S9290
125	-	T/K	-	90	016K9290
100	H	J	-	95	016H9295
120	-	S	-	100	016S9200
125	-	T/K	-	100	016K9200
150	-	L	-	100	016L9200
120	J	S	4.00	-	016J9140
125	-	T/K	4.00	-	016K9140
120	J	S	-	110	016J9210
125	-	T/K	-	110	016K9210
120	J	S	4.50	-	016J9144
125	-	T/K	4.50	-	016K9144
150	-	L	4.50	-	016L9144
150	-	L	-	125	016L9225
150	-	L	5.00	-	016L9150
150	-	L	-	130	016L9230
150	-	L	5.50	-	016L9154

Hydraulic Drive

A wide range of hydraulic motors can be fitted to each size of gear unit, either by the conventional 'plug-in' assembly or using a bell housing.

Due to the wide variety of hydraulic motors available, assemblies are produced to suit specific applications. Enquiries for a hydraulic drive assembly should include the following information.

1. Motor operating speed range and output torque capacity.
2. The required gearbox output speed and driven machine demand torque or power.

Consult your local Distributor for any of these options.

Shaft Mounted Speed Reducer Belt Drives



BELT DRIVES – 1440 REV/MIN MOTORS

UNIT SIZE B					
	Nominal Output Speed	Pulley Ratio	Pulley Pitch diameters		Number of belts
			Motor	Gearbox	
20:1	10	7.14	56	400	1XPZ
	12	5.97	67	400	1SPZ
	14	5.00	63	315	1SPZ
	16	4.44	71	315	1SPZ
	18	3.94	80	315	1SPZ
	20	3.57	56	200	1XPZ
	22	3.21	56	180	1XPZ
	24	2.86	63	180	1XPZ
	26	2.78	90	250	1SPZ
	28	2.54	63	160	1SPZ
	30	2.36	56	132	1XPZ
	32	2.22	63	140	1SPZ
	34	2.10	63	132	1SPZ
	38	1.87	67	125	1SPZ
	40	1.78	63	112	1XPZ
	42	1.70	56	95	2XPZ
	46	1.56	90	140	1SPZ
	50	1.43	112	160	1SPZ
52	1.39	90	125	1SPZ	
54	1.33	75	100	1SPZ	
58	1.24	95	118	1SPZ	
62	1.16	140	160	1SPZ	
66	1.64	63	67	2SPZ	
13:1	66	1.64	85	140	1SPZ
	70	1.55	85	132	1SPZ
	74	1.46	90	132	1SPZ
	78	1.39	90	125	1SPZ
	80	1.35	63	85	2XPZ
	85	1.28	125	160	1SPZ
	90	1.20	75	90	2SPZ
	100	1.08	90	100	1QXPA
5:1	100	2.83	112	315	1SPZ
	110	2.57	95	250	1XPA
	120	2.36	106	250	1XPZ
	130	2.18	112	250	1XPZ
	140	2.02	125	250	1SPZ
	150	1.88	85	160	2SPZ
	160	1.76	85	150	2XPA
	170	1.67	75	125	3SPZ
	180	1.57	75	118	3SPZ
	190	1.49	95	140	2SPZ
	200	1.42	106	150	1QXPA
	210	1.35	112	150	1QXPA
	220	1.29	140	180	1SPA
	230	1.23	132	160	1SPA
	240	1.18	95	112	2SPZ
	250	1.13	160	180	1XPZ
	260	1.09	140	150	1SPA
	270	1.05	95	100	2SPA
	280	1.01	112	112	2SPZ
	300	1.06	140	132	1XPA
	310	1.11	200	180	1XPZ
	320	1.14	150	132	1XPA
	330	1.18	100	85	3SPZ
	340	1.20	150	125	1QXPA
350	1.24	118	95	2XPA	
360	1.27	400	315	1XPZ	
370	1.31	236*	180*	1SPB	
380	1.36	160	118	1QXPA	
390	1.39	250	180	1SPZ	
400	1.41	315	224	1SPA	

UNIT SIZE C					
	Nominal Output Speed	Pulley Ratio	Pulley Pitch diameters		Number of belts
			Motor	Gearbox	
20:1	10	7.04	71	500*	1SPZ
	12	5.63	71	400	1SPZ
	14	5.00	80	400	1SPZ
	15	4.44	71	315	1SPZ
	17	3.94	80	315	1SPZ
	20	3.50	90	315	1SPZ
	22	3.13	80	250	1SPZ
	24	2.94	85	250	1SPZ
	26	2.69	67	180	1SPZ
	28	2.40	75	180	1XPZ
	30	2.25	71	160	1XPZ
	32	2.13	75	160	1XPZ
	34	2.00	80	160	1XPZ
	38	1.80	100	180	1SPA
	40	1.70	106	180	1SPZ
	42	1.65	85	140	1XPZ
	46	1.50	100	150	1SPA
	50	1.36	118	160	1XPZ
52	1.32	106	140	1XPZ	
54	1.29	140	180	1XPZ	
58	1.18	100	118	1XPA	
62	1.11	90	100	2SPZ	
13:1	66	1.56	90	140	2SPZ
	70	1.47	85	125	2SPZ
	74	1.39	95	132	2SPZ
	78	1.32	106	140	1XPA
	80	1.28	125	160	1SPZ
	85	1.21	140	170	1XPZ
	90	1.14	140	160	2SPZ
	95	1.07	75	80	3XPZ
100	1.00	100	100	2SPZ	
5:1	101	2.86	140	400	1SPA
	114	2.52	125	315	1XPA
	121	2.39	132	315	1XPA
	129	2.23	112	250	2SPZ
	144	2.00	140	280	1XPA
	152	1.90	118	224	2SPA
	161	1.79	140	250	1XPA
	171	1.68	95	160	3SPZ
	183	1.58	200	315	1XPZ
	193	1.49	150	224	2SPA
	202	1.43	112	160	2SPZ
	211	1.36	132	180	2SPZ
	224	1.29	140	180	2SPZ
	230	1.25	160	200	2XPZ
	244	1.18	100	118	3XPZ
	252	1.14	140	160	2SPZ
	259	1.11	180	200	1SPA
	273	1.06	125	132	2SPZ
	288	1.00	140	140	2SPA
	303	1.05	100	95	2SPA
	310	1.08	140	130	3SPZ
	324	1.13	180	160	2SPZ
	329	1.14	140	160	3SPA
	339	1.18	200	170	2SPA
349	1.21	160	132	2SPA	
360	1.25	140	112	3SPZ	
369	1.28	180	140	2XPZ	
380	1.32	150	112	2XPA	
391	1.36	180	132	2XPA	
400	1.39	140	100	3XPA	

UNIT SIZE D					
	Nominal Output Speed	Pulley Ratio	Pulley Pitch diameters		Number of belts
			Motor	Gearbox	
20:1	10	1.04	71	500	1XPZ
	12	5.63	71	400	1SPZ
	14	4.70	67	315	1SPZ
	16	4.20	75	315	1SPZ
	18	3.71	85	315	1SPZ
	20	3.29	85	280	1SPZ
	22	3.11	90	280	1SPA
	24	2.78	90	250	1SPZ
	26	2.54	63	160	2XPZ
	28	2.39	67	160	2SPZ
	30	2.24	100	224	1XPA
	32	2.11	95	200	1XPA
	34	1.97	160	315	1SPZ
	38	1.76	75	132	2XPZ
	40	1.68	95	160	2SPZ
	42	1.60	125	200	1XPZ
	46	1.47	90	132	2SPZ
	50	1.34	112	150	2SPA
52	1.29	140	180	1XPZ	
54	1.24	95	118	2SPZ	
58	1.14	140	160	1SPA	
62	1.07	140	150	1XPA	
13:1	66	1.52	132	200	1SPA
	71	1.43	112	160	2XPZ
	74	1.36	118	160	2SPZ
	78	1.29	140	180	1XPA
	80	1.25	112	140	2XPZ
	85	1.19	118	140	2SPZ
	90	1.12	125	140	2SPZ
	95	1.06	132	140	2SPZ
100	1.00	125	125	2XPZ	
5:1	108	2.52	125	315	2XPZ
	114	2.39	132	315	2SPZ
	120	2.25	140	315	2SPZ
	130	2.11	112	236	2XPB
	140	1.90	118	224	2XPA
	150	1.80	118	212	2XPB
	160	1.69	118	200	3XPZ
	170	1.60	125	200	3SPZ
	180	1.52	132	200	3SPZ
	190	1.43	140	200	3SPZ
	200	1.36	132	180	2XPA
	210	1.29	140	180	2SPA
	220	1.21	132	160	3SPZ
	230	1.18	112	132	4XPZ
	240	1.12	112	125	4XPZ
	250	1.07	140	150	3SPA
	260	1.05	112	118	4XPZ
	270	1.00	140	140	3XPZ
	285	1.05	100	95	4QXPA
	290	1.07	160	150	2XPA
	300	1.11	200	180	2QXPZ
	310	1.14	160	140	3SPZ
	320	1.18	132	112	4XPZ
	330	1.21	160	132	3SPA
340	1.25	250	200	2XPZ	
350	1.29	180	140	3XPZ	
360	1.32	140	106	5SPZ	
370	1.36	190	140	2XPB	
380	1.40	140	100	4XPA	
390	1.44	180	125	3XPA	
400	1.47	250	170	2XPB	

* Pulley only available in 2 groove.

For 25:1 reduction SMSR belt drives consult your local Authorised Distributor

BELT DRIVES—1440 REV/MIN MOTORS

UNIT SIZE E					
	Nominal Output Speed	Pulley Ratio	Pulley Pitch diameters		Number of belts
			Motor	Gearbox	
20:1	10	7.04	71	500	2SPZ
	12	5.97	67	400	2SPZ
	14	5.00	80	400	2SPZ
	16	4.44	90	400	1XPZ
	18	4.00	100	400	2SPZ
	20	3.50	90	315	2SPZ
	22	3.15	100	315	2SPZ
	24	2.94	85	250	2XPZ
	26	2.67	75	200	2XPZ
	28	2.50	80	200	3SPZ
	30	2.35	85	200	2SPZ
	32	2.22	90	200	2XPZ
	34	2.09	67	140	4XPZ
	38	1.87	150	280	1SPA
	40	1.75	80	140	3XPZ
	42	1.68	95	160	3SPZ
46	1.52	132	200	2SPZ	
50	1.42	106	150	2XPA	
52	1.36	118	160	3SPZ	
54	1.29	140	180	2XPZ	
58	1.21	132	160	2XPZ	
62	1.14	132	150	2SPA	
13:1	66	1.61	112	180	3SPZ
	70	1.52	132	200	3XPZ
	74	1.43	112	160	3XPZ
	78	1.36	118	160	3SPZ
	80	1.32	100	132	3XPA
	85	1.25	100	125	4XPZ
	90	1.18	106	125	4XPZ
	95	1.11	106	118	4XPZ
	100	1.06	132	140	3XPZ
	101	2.86	140	400	3SPZ
114	2.52	125	315	4SPZ	
121	2.39	132	315	3XPZ	
129	2.23	112	250	5XPA	
144	2.00	125	250	3SPA	
152	1.90	118	224	4SPA	
161	1.79	140	250	3SPA	
171	1.69	140	236	2QXPB	
183	1.58	200	315	3XPZ	
193	1.49	150	224	3SPA	
202	1.43	112	160	4XPA	
211	1.36	132	180	4SPA	
224	1.29	140	180	3XPA	
230	1.25	200	250	2XPA	
244	1.18	190	224	2XPB	
252	1.14	140	160	4SPA	
259	1.11	180	200	2XPB	
273	1.06	125	132	5SPA	
288	1.00	160	160	3XPA	
303	1.05	200	190	2XPB	
310	1.08	140	132	4XPA	
324	1.13	180	160	3XPA	
329	1.14	160	140	4XPA	
342	1.19	140	118	5XPA	
349	1.21	160	132	4XPA	
360	1.25	140	112	6XPA	
370	1.29	180	140	4XPA	
386	1.34	150	112	6XPA	
393	1.36	180	132	5XPA	
403	1.40	224	160	3XPA	

UNIT SIZE F					
	Nominal Output Speed	Pulley Ratio	Pulley Pitch diameters		Number of belts
			Motor	Gearbox	
20:1	10	7.00	90	630*	1SPA
	12	5.97	67	400	2SPZ
	14	5.00	100	500*	1SPA
	16	4.44	90	400	2SPZ
	18	3.94	80	315	2SPZ
	20	3.57	112	400	1XPA
	22	3.20	125	400	1SPA
	24	2.94	85	250	3SPZ
	26	2.67	150	400	1SPA
	28	2.50	160	400	1SPA
	30	2.35	85	200	3XPZ
	32	2.22	90	200	3SPZ
	33	2.11	95	200	3SPZ
	37	1.88	85	160	4SPZ
	40	1.75	180	315	1XPA
	42	1.67	150	250	2SPA
46	1.53	118	180	3SPZ	
48	1.47	95	140	4XPZ	
50	1.40	100	140	4SPZ	
52	1.36	118	160	3XPZ	
55	1.29	140	180	3SPZ	
63	1.12	112	125	4SPZ	
66	1.07	150	160	2XPA	
70	1.52	132	200	4SPZ	
74	1.43	140	200	2XPB	
78	1.36	118	160	4SPA	
80	1.32	170	224	2SPB	
85	1.24	180	224	2SPA	
90	1.18	170	200	2SPB	
95	1.11	180	200	3SPZ	
100	1.06	132	140	5SPZ	
102	2.81	160	450	2SPB	
109	2.63	190	500	2SPB	
121	2.39	132	315	5SPZ	
128	2.25	140	315	4SPA	
144	2.00	125	250	4SPA	
152	1.89	132	250	5XPZ	
161	1.79	140	250	5SPZ	
172	1.67	212	355	2SPB	
183	1.58	200	315	4SPZ	
193	1.49	150	224	4SPA	
202	1.43	140	200	4XPA	
212	1.36	140	190	4SPB	
224	1.29	140	180	4SPB	
231	1.24	180	224	3XPA	
243	1.19	236	280	2XPB	
252	1.14	140	160	5XPA	
259	1.11	180	200	3SPB	
272	1.06	236	250	2XPB	
288	1.00	315	315	2XPA	
303	1.05	200	190	3XPB	
309	1.07	150	140	5XPA	
323	1.12	224	200	3XPA	
329	1.14	160	140	5XPA	
342	1.19	280	236	2XPB	
358	1.24	236	190	3SPB	
365	1.27	355	280	2XPB	
384	1.33	315	236	2XPB	
405	1.41	315	224	3XPA	

UNIT SIZE G					
	Nominal Output Speed	Pulley Ratio	Pulley Pitch diameters		Number of belts
			Motor	Gearbox	
20:1	10	7.00	90	630	2SPA
	12	5.94	106	630	2SPA
	14	5.00	100	500	2SPA
	16	4.44	90	400	3SPZ
	18	4.00	100	400	2XPA
	20	3.57	112	400	2SPA
	22	3.20	125	400	2SPA
	24	2.94	85	250	4XPZ
	26	2.67	118	315	3SPZ
	28	2.50	160	400	2XPZ
	30	2.36	106	250	3XPA
	32	2.23	112	250	3SPA
	34	2.10	150	315	2SPA
	38	1.87	150	280	2XPA
	40	1.75	160	280	2XPA
	42	1.67	150	250	3SPA
46	1.52	132	200	4XPZ	
48	1.48	160	236	2XPB	
50	1.40	200	280	4XPA	
52	1.36	118	160	2XPA	
55	1.29	140	180	4SPA	
63	1.11	180	200	4XPZ	
66	1.07	150	160	4XPA	
70	1.52	132	200	5SPA	
74	1.43	140	200	4SPA	
78	1.36	140	190	4SPB	
80	1.32	212	280	2SPB	
85	1.24	180	224	3SPB	
90	1.18	180	212	3XPB	
95	1.11	180	200	3XPB	
100	1.06	200	212	3XPB	
102	2.81	160	450	4SPB	
109	2.63	190	500	3SPB	
122	2.37	190	450	3SPB	
130	2.22	160	355	4SPB	
144	2.00	200	400	5XPZ	
153	1.89	212	400	3SPB	
162	1.78	200	355	3XPB	
172	1.67	212	355	3SPB	
183	1.58	200	315	4SPA	
191	1.50	236	355	3XPB	
202	1.43	280	400	3XPA	
212	1.36	140	190	6XPB	
220	1.31	180	236	5SPB	
230	1.25	224	280	4XPA	
243	1.19	236	280	3XPB	
256	1.13	280	315	3XPB	
259	1.11	450	500	2XPB	
273	1.06	212	224	4XPB	
288	1.00	315	315	3XPA	
303	1.05	236	224	4XPB	
309	1.07	300	280	2QXPC	
323	1.12	224	200	4XPB	
326	1.13	300	265	3QXPC	
340	1.18	236	200	4XPB	
358	1.24	236	190	5SPB	

* Pulley only available in 2 groove.

For 25:1 reduction SMSR belt drives consult your local Authorised Distributor

Shaft Mounted Speed Reducer Belt Drives



BELT DRIVES—1440 REV/MIN MOTORS

UNIT SIZE H					
	Nominal Output Speed	Pulley Ratio	Pulley Pitch diameters		Number of belts
			Motor	Gearbox	
20:1	10	7.00	90	630	3SPA
	12	5.94	106	630	3SPA
	14	5.04	125	630	2SPA
	16	4.44	90	400	4SPZ
	18	4.00	100	400	3SPA
	20	3.57	140	500	2XPA
	22	3.20	125	400	2XPB
	24	2.97	106	315	4SPA
	26	2.67	150	400	2XPA
	28	2.50	160	400	2XPA
	30	2.35	170	400	2SPB
	32	2.23	112	250	4XPA
	34	2.10	150	315	3SPA
	38	1.85	170	315	2XPB
	40	1.75	160	280	3SPA
	42	1.67	150	250	4SPA
	46	1.52	132	200	5SPA
	48	1.48	160	236	3SPB
50	1.40	200	280	3XPA	
52	1.36	118	160	6XPA	
55	1.29	140	180	5SPA	
60	1.18	180	212	3XPB	
63	1.12	200	224	3XPA	
66	1.06	200	212	3XPB	
13:1	70	1.50	236	355	2XPB
	74	1.43	280	400	3XPA
	78	1.36	140	190	6SPB
	80	1.32	212	280	3SPB
	85	1.24	180	224	5SPA
	90	1.18	190	224	4SPB
	95	1.11	212	236	3XPB
	100	1.06	200	212	4XPB
5:1	101	2.81	224	630	3SPB
	108	2.63	190	500	4SPB
	120	2.37	190	450	4XPB
	128	2.23	224	500	4XPA
	143	2.00	200	400	5SPA
	151	1.89	212	400	4SPB
	160	1.79	224	400	5SPA
	172	1.66	190	315	5SPB
	180	1.58	224	355	4SPB
	190	1.50	236	355	4XPB
	200	1.43	280	400	3XPB
	213	1.34	224	300	4SPC
	218	1.31	180	236	6SPB
	228	1.25	224	280	6SPA
240	1.19	236	280	5XPB	
253	1.13	315	355	3XPB	
257	1.11	450	500	3XPB	
269	1.06	236	250	5XPB	
285	1.00	280	280	4XPB	
301	1.05	236	224	6XPB	
306	1.07	300	280	3QXPC	
321	1.13	315	280	4XPB	
323	1.13	425	375	3QXPC	
339	1.19	280	236	5XPB	

For 25:1 reduction SMSR belt drives consult your local Authorised Distributor

UNIT SIZE J					
	Nominal Output Speed	Pulley Ratio	Pulley Pitch diameters		Number of belts
			Motor	Gearbox	
20:1	10	7.00	90	630	4SPA
	12	5.94	106	630	3SPA
	14	5.00	100	500	4SPA
	16	4.50	140	630	2SPB
	18	3.94	160	630	2SPA
	20	3.57	140	500	3SPA
	22	3.20	125	400	4SPA
	24	2.95	190	560	2SPB
	26	2.67	150	400	3XPA
	28	2.50	160	400	3XPA
	30	2.36	212	500	2SPB
	32	2.22	180	400	3SPA
	34	2.10	150	315	4XPA
	38	1.87	190	355	3SPB
	40	1.75	180	315	4SPA
	42	1.66	190	315	3SPB
	46	1.50	200	300	3SPC
	50	1.41	224	315	3XPA
52	1.33	236	315	3SPB	
54	1.31	180	236	4SPB	
58	1.21	140	170	6XPB	
62	1.13	315	355	2SPB	
67	1.06	212	224	4SPB	
13:1	67	1.58	200	315	5SPA
	70	1.50	236	355	3SPB
	74	1.43	280	400	3XPA
	78	1.35	315	425	3SPC
	80	1.32	212	280	4SPB
	85	1.24	190	236	6SPB
	90	1.18	212	250	4XPB
	95	1.12	224	250	5XPA
100	1.06	236	250	4SPB	
5:1	100	2.86	280	800	3QXPB
	110	2.63	190	500	6SPB
	120	2.38	265	630	3SPC
	130	2.22	450	1000	2QXPB
	140	2.01	236	475	4SPC
	150	1.91	236	450	5SPB
	160	1.79	280	500	5SPA
	170	1.68	315	530	3SPC
	180	1.59	315	500	5SPA
	190	1.50	250	375	5SPC
	200	1.43	280	400	6SPA
	210	1.35	315	425	3SPC
	220	1.32	190	250	8XPB
	230	1.24	190	236	8XPB
240	1.19	315	375	4SPC	
250	1.13	375	425	3SPC	
260	1.11	180	200	8QXPB	
270	1.06	212	224	8XPB	
290	1.00	400	400	5SPA	
300	1.05	236	224	8XPB	
310	1.07	300	280	5SPC	
320	1.12	265	236	6SPC	
330	1.18	212	180	8XPB	
340	1.19	315	265	4SPC	
350	1.24	236	190	8SPB	
360	1.26	315	250	6SPA	
370	1.31	236	180	8SPB	
380	1.33	315	236	5SPB	
390	1.39	250	180	6XPB	
400	1.41	315	224	6XPA	

UNIT SIZE S					
	Nominal Output Speed	Pulley Ratio	Pulley Pitch diameters		Number of belts
			Motor	Gearbox	
20:1	10	7.14	112	800	3XPB
	12	5.94	106	630	4SPA
	14	5.00	160	800	3SPB
	16	4.50	140	630	3SPA
	18	3.94	160	630	3SPA
	20	3.57	140	500	3XPB
	22	3.20	125	400	5SPA
	24	2.97	212	630	2SPB
	26	2.67	150	400	4XPA
	28	2.50	160	400	4SPB
	30	2.36	212	500	3SPB
	32	2.22	180	400	4SPA
	34	2.09	170	355	5SPB
	38	1.87	190	355	4SPB
	40	1.75	180	315	5SPA
	42	1.67	212	355	4SPB
	46	1.50	236	355	3SPC
	50	1.41	224	315	4XPA
52	1.32	212	280	4XPB	
54	1.31	180	236	5XPB	
58	1.20	250	300	3SPC	
63	1.13	265	300	3SPC	
67	1.06	212	224	5SPB	
13:1	67	1.58	200	315	5SPB
	70	1.50	236	355	4XPB
	74	1.43	280	400	5XPA
	78	1.35	315	425	3SPC
	80	1.32	212	280	5XPB
	85	1.24	190	236	8SPB
	90	1.19	236	280	5SPB
	95	1.12	250	280	6XPA
100	1.06	236	250	5XPB	
5:1	100	2.86	280	800	5SPB
	110	2.63	190	500	8SPB
	120	2.38	265	630	4SPC
	130	2.22	450	1000	3SPB
	140	2.01	236	475	4QXPC
	150	1.91	236	450	6XPB
	160	1.79	280	500	6SPB
	170	1.68	375	630	3SPC
	180	1.59	315	500	5SPB
	190	1.50	300	450	5SPC
	200	1.43	280	400	6XPB
	210	1.35	315	425	5SPC
	220	1.32	425	560	3SPC
	230	1.25	425	530	3SPC
240	1.19	315	375	5SPC	
250	1.13	375	425	4SPC	
260	1.11	450	500	4QXPB	
270	1.06	265	280	8SPC	
290	1.00	355	355	6XPB	
300	1.06	375	355	4QXPC	
310	1.07	400	375	4SPC	
320	1.12	375	335	5SPC	
330	1.18	500	425	3QXPC	
340	1.19	375	315	5SPC	
350	1.24	236	190	8QXPB	
360	1.26	315	250	6SPC	
370	1.31	236	180	8QXPB	
380	1.33	315	236	6XPB	
390	1.35	425	315	3QXPC	
400	1.40	280	200	8SPB	

BELT DRIVES—1440 REV/MIN MOTORS

UNIT SIZE T					
	Nominal Output Speed	Pulley Ratio	Pulley Pitch diameters		Number of belts
			Motor	Gearbox	
20:1	10	7.14	140	1000	3SPB
	12	5.71	140	800	3SPB
	14	5.04	125	630	4SPA
	16	4.50	140	630	4SPA
	18	3.94	160	630	3SPB
	20	3.50	180	630	3SPB
	22	3.15	200	630	4SPA
	24	2.97	212	630	3SPB
	26	2.67	236	630	3SPB
	28	2.50	200	500	3XPB
	30	2.36	212	500	3XPB
	32	2.22	180	400	5SPA
	34	2.09	170	355	6SPB
	38	1.87	190	355	5SPB
	40	1.79	224	400	5SPA
	42	1.67	212	355	4XPB
	46	1.52	280	425	3SPC
	50	1.41	224	315	6SPA
52	1.33	236	315	5XPB	
54	1.31	180	236	6QXPB	
58	1.24	190	236	6XPB	
63	1.13	265	300	4SPC	
67	1.06	236	250	5XPB	
13:1	67	1.58	200	315	6XPB
	70	1.50	236	355	5XPB
	74	1.43	280	400	6XPA
	78	1.35	315	425	3QXPC
	80	1.32	425	560	3SPC
	84	1.25	400	500	5SPA
	90	1.18	425	500	3SPC
	95	1.11	212	236	8XPB
100	1.06	355	375	3SPC	
5:1	100	3.11	180	560	8QXPB
	110	2.81	224	630	8SPB
	120	2.54	315	800	5QXPB
	130	2.37	236	560	8SPB
	140	2.22	450	1000	4QXPB
	150	2.01	236	475	5QXPC
	160	1.91	236	450	8QXPB
	170	1.78	450	800	5SPB
	180	1.68	375	630	4SPC
	190	1.61	280	450	8SPB
	200	1.51	315	475	4QXPC
	210	1.48	425	630	4SPC
	220	1.42	335	475	5SPC
	230	1.33	375	500	5SPC
	240	1.27	315	400	8SPB
	250	1.24	450	560	5QXPB
	260	1.18	475	560	3QXPC
	270	1.13	375	425	5SPC
	280	1.11	450	500	3QXPC
	290	1.06	335	355	6SPC
310	1.00	355	355	6XPB	
320	1.05	315	300	6SPC	
330	1.07	400	375	4SPC	
340	1.11	500	450	4QXPB	
350	1.13	425	375	3QXPC	
360	1.18	250	212	8QXPB	
370	1.20	450	375	3QXPC	
380	1.24	236	190	8QXPB	
390	1.27	355	280	6XPB	
400	1.32	250	190	8QXPB	

For 25:1 reduction SMSR belt drives consult your local Authorised Distributor

UNIT SIZE K					
	Nominal Output Speed	Pulley Ratio	Pulley Pitch diameters		Number of belts
			Motor	Gearbox	
20:1	10	7.14	140	1000	4SPB
	12	6.06	132	800	4XPB
	14	5.00	160	800	3SPB
	16	4.44	180	800	3SPB
	18	3.94	160	630	4SPB
	20	3.57	224	800	3SPB
	22	3.29	170	560	4SPB
	24	2.94	170	500	4XPB
	26	2.81	224	630	3SPB
	28	2.52	250	630	3SPB
	30	2.36	212	500	4SPB
	32	2.23	224	500	5SPA
	34	2.12	236	500	4SPB
	38	1.89	212	400	5SPB
	40	1.79	224	400	6SPA
	42	1.69	236	400	4XPB
	46	1.58	300	475	3SPC
	50	1.50	250	375	4SPC
52	1.40	400	560	3SPB	
54	1.33	236	315	5XPB	
58	1.25	400	500	3SPB	
13:1	62	1.75	180	315	8SPB
	65	1.67	300	500	4SPC
	70	1.56	180	280	8QXPB
	74	1.47	190	280	8SPB
	78	1.40	400	560	4SPB
	80	1.35	315	425	4SPC
	85	1.27	236	300	6SPC
	90	1.20	250	300	5SPC
	95	1.13	265	300	4SPC
	100	1.07	280	300	4SPC

UNIT SIZE L					
	Nominal Output Speed	Pulley Ratio	Pulley Pitch diameters		Number of belts
			Motor	Gearbox	
20:1	10	7.14	140	1000	5SPB
	12	6.25	160	1000	4SPB
	14	5.26	190	1000	4SPB
	16	4.46	224	1000	3SPB
	18	4.00	200	800	4SPB
	20	3.77	212	800	4SPB
	22	3.32	190	630	5SPB
	24	3.02	265	800	3SPC
	26	2.81	224	630	6SPA
	28	2.64	212	560	5SPB
	30	2.50	224	560	5SPB
	32	2.25	355	800	3SPB
	34	2.13	375	800	3SPC
	38	1.91	236	450	5SPC
	40	1.87	300	560	4SPC
	42	1.77	300	530	4SPC
	46	1.60	250	400	6SPB
	50	1.48	425	630	3SPC
52	1.42	265	375	4QXPC	
54	1.35	315	425	4SPC	
13:1	58	1.87	300	560	5SPC
	62	1.77	300	530	5SPC
	65	1.67	300	500	5SPC
	70	1.58	400	630	5SPB
	74	1.48	425	630	3QXPC
	78	1.40	450	630	5SPB
	80	1.35	315	425	5SPC
	85	1.27	315	400	6SPB
	90	1.20	250	300	6SPC
	95	1.13	375	425	3SPC
100	1.07	280	300	5SPC	

UNIT SIZE M					
	Nominal Output Speed	Pulley Ratio	Pulley Pitch diameters		Number of belts
			Motor	Gearbox	
20:1	10	7.14	140	1000	6QXPB
	12	6.25	200	1250	5SPC
	14	5.30	236	1250	4SPC
	16	4.72	212	1000	6SPB
	18	4.24	236	1000	6SPB
	20	3.77	265	1000	4SPC
	22	3.39	236	800	6SPC
	24	3.17	315	1000	5SPB
	26	2.86	280	800	6SPB
	28	2.54	315	800	6SPB
	30	2.52	250	630	6SPC
	32	2.35	425	1000	3SPC
	34	2.25	280	630	4QXPC
	38	2.00	315	630	5SPC
	40	1.88	335	630	5SPC
	42	1.78	450	800	5SPB
	46	1.60	500	800	5SPB
	50	1.49	335	500	6SPC
52	1.42	335	475	6SPC	
13:1	54	2.11	475	1000	4SPC
	58	1.91	250	475	8QXPC
	62	1.79	265	475	8QXPC
	65	1.68	475	800	5SPC
	70	1.60	500	800	5SPC
	74	1.51	530	800	4QXPC
	78	1.42	335	475	8SPC
	80	1.40	400	560	8SPB
	85	1.27	355	450	8SPB
	90	1.24	450	560	4SPC
95	1.18	475	560	4SPC	
100	1.12	500	560	5SPB	

FOR INSTALLATION AND OPERATION OF BELT DRIVES SEE PAGE 74 OF THIS CATALOGUE