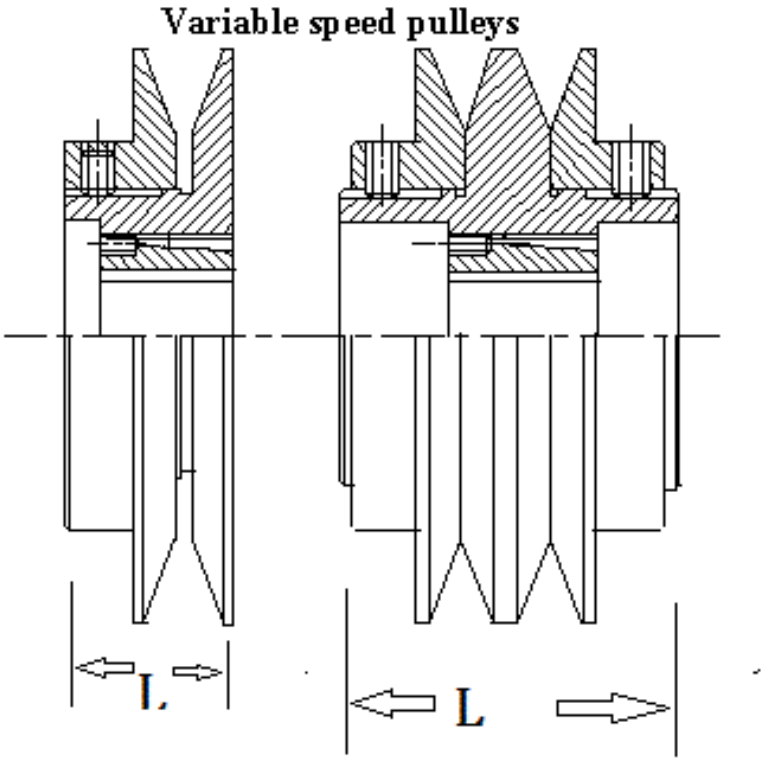
GOLDEN WAY TECHNOLOGY SDN BHD

VARIABLE PITCH PULLEY

SIZE	BUSH NO	MAX BORE	PITCH DIAMETER		L	OD	Adjusting Factor
			MEDIUM	MIN - MAX			
RST 100Z1	1108	25	87	78-96	30	100	1.64
RST 120A1	1210	30	101	88-114	35	120	1.64
RST 120A2	1215	30	101	88-114	65	120	1.64
RST 139A1	1610	40	121	109-133	35	139	1.54
RST 139A2	1615	40	121	109-133	70	139	1.54
RST 156A1	1610	40	138	126-150	35	156	1.54
RST 156A2	1615	40	138	126-150	70	156	1.54
RST 177A1	2012	50	160	149-171	35	177	1.45
RST 177A2	2012	50	160	149-171	90	177	1.45
RST 200A1	2012	50	180	167-193	35	200	1.45
RST 256B1	2517	60	236	223-249	50	256	1.45
RST 300B1	2517	60	280	267-293	50	300	1.45
RST 246B2	2517	60	226	213-239	95	246	1.45
RST 355B2	3020	75	315	302-328	120	355	1.45



MODEL RST (TAPER LOCK TYPE)

EXAMPLE OF CALCULATION

Example :

To adjust type RST 156A2 to pitch diameter 140 mm.
At totally closed pulley pitch diameter is 150 mm.

so you have to calculate using the below formula :

$$\frac{\text{Max pcd - target pcd}}{4 \times \text{adjusting factor}} = \frac{150 - 140}{4 \times 1.54}$$

$$= \frac{10}{6.16}$$

$$= 1.6$$

$$= 1.1/2 \text{ turns}$$

Selection of Variable pitch pulley

SIZE	BUSH NO	MAX BORE	NOMINAL KW		L	OD
			MEDIUM	MIN - MAX		
RST 100Z1	1108	25	**1.30**	**1.0-1.6**	30	100
RST 120A1	1210	30	**1.85**	**1.2-2.5**	35	120
RST 120A2	1215	30	**3.85**	**2.5-5.2**	65	120
RST 139A1	1610	40	**2.75**	**2.0-3.5**	35	139
RST 139A2	1615	40	**5.85**	**4.7-7.0**	70	139
RST 156A1	1610	40	**3.65**	**3.0-4.3**	35	156
RST 156A2	1615	40	**7.45**	**6.3-8.6**	70	156
RST 177A1	2012	50	**5.50**	**4.0-7.0**	35	177
RST 177A2	2012	50	**9.50**	**8.5-10.5**	90	177
RST 200A1	2012	50	**8.00**	**6.0-10.0**	35	200
RST 256B1	2517	60	**15.90**	**14.6-17.2**	50	256
RST 300B1	2517	60	**18.80**	**17.6-20.0**	50	300
RST 246B2	2517	60	**20.65**	**18.9-22.4**	95	246
RST 355B2	3020	75	**35.05**	**30.1-40.0**	120	355

1) We take model RST 156a2 as an example.

2) Refer to the above table, for model RST 156a2,
min dia = 126 (can carry 6.3 kw of power)
med dia = 138 (can carry 7.45 kw of power because (6.3+8.6)/2 = 7.45
max dia = 150 (can carry 8.6 kw)

3) For safety purpose, normally we need a safety factor of 1.50, thus
when min dia = 126 (can carry 6.3/1.5 = 4.2 kw)
when med dia = 138 (can carry 7.45/1.5 = 5 kw)
when max dia = 150 (can carry 8.6/1.5 = 5.7 kw)

4) Our experience is to take the medium dia to do the selection, thus this pulley is suitable for motor 5 kw