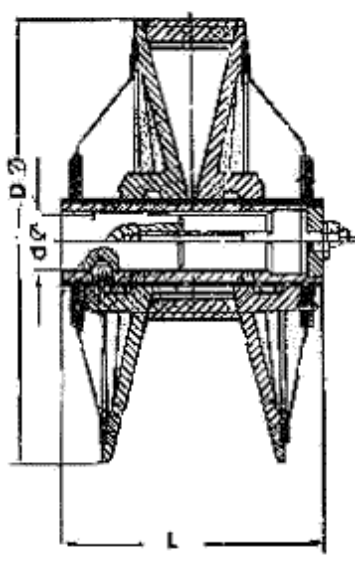


## VARIABLE SPEED PULLEY



The variable speed Drives have been in production for over 30 years. They hold a leading position in the field of steplessly, variable, belt drives. Variable speed pulley drives convert any standard constant speed motor to a variable speed that delivers infinite speed control for any desired speed within the speed range, instantly, accurately, smoothly and while the machine is in operation. The speed variation achieved is 1:3 and in combination with various fixed pulleys practically full middle speed range is covered. This has provided versatility to a machine by enabling it to be adjusted to the right speed in changing condition perator size, shapes materials, productions, schedules. The benefits are maximum productions reduced manufacturing costs, better and uniform quality of product.

The variable speed drive consists of:

- The spring loaded variable speed pulley.
- Variable speed belts.
- Fixed pulley.
- Motor slide base.
- Motor to ISI standards.
- Variable speed pulley design

The favourable construction of Wiperdrive is illustrated below:

Both the pulley disks (a) move axially along the serrated hub (b) and are forced to working flanks of the wide sections V belt (c) by specially designed basket shape spring (d) the forces resulting from the torque transmission are carried by safely dimensioned serrations very small surface pressure are maintained, which are well within the permissible limit. therefore a long life achieved.

Speed adjustment.

The motor drive, fitted with in the variable speed pulley, is firmly fixed to the side base and is moved either toward or away from the fixed pulley when running. Through this changed is center distance between driving and driven and driven shaft, the wide sections 'V' belt is pulled in or out of the spring loaded variable speed pulley and in turn the revolutions of the fixed pulley. The other variable speed control apart from motor slide bases are motor pivoting arm or jockey pulley. In all cases with the aid of lead screw and accurate machine speed is achieved.

Variable Speed Pulley and fixed pulley fitting instructions

The spring loaded variable speed pulley is fitted to the drive end which is the most cases the electric motor. The fixed pulley is fitted to the driven end. Variable speed and fixed pulleys can be mounted to the vertical or horizontal shafts and are assembled in the same manner as normal 'V' belt pulleys. Please note that the variable speed pulleys can be radially secured with grub screw [provided with pulley] or axial tightening screw [optional]. We recommend the use of axial tightening screw, if the variable speed pulleys are used with brake motors or for shock loaded drives. The bore of the variable speed pulley are to ISO limits and fits. The keyways are to IS:2710.

Typical Applications

Presses, Packaging Machines, Textile Machine, Machine tools, Auto claves, Pumps for Viscous liquids, Conveyor belts, etc.

KW	HP	APM	BORE WITH KEYSEAT	MODEL	DØ	L	BETWIDTH & THICKNESS	APPOOX WEIGHT N KGS
.15	25	750	14	14	120	72	22X6	1
.25	0.33	1000	1.5X 2.1	19.14	155	95	28X4	2.4
.37	0.5	1500						
.65	0.75	3000						
.37	0.5	750	19	19	155	95	28X4	2.4
.65	0.75	1000	(6X 2.5)	24.14	185	110	37X10	3.5
.75	1.0	1500						
1.1	1.5	3000						
.75	1.0	750	24	24	185	110	37X10	3.5
1.1	1.5	1000	(5X3.3)	28.24	225	130	47X13	6.5
1.5	2.0	1500						
2.2	3.0	3000						
1.1	1.5	750	28	28	225	130	47X10	6.5
1.5	2.0	1000	(5 X3.3)	30.28	270	148	47X13	11.0
2.2	3.0	1500						
3.0	4.0	3000						
2.2	3.0	750	28	30.28	270	148	47X13	11.0
3.0	4.0	1000	(5 X3.3)	30.28	310	150	65X16	19.0
3.7	5.0	1500						
3.0	4.0	750	35	38	310	180	55X16	19.0
4.0	5.0	1000	(10 X3.3)	42.36	360	215	70X1"	26.6
7.5	10.0	1500						
5.5	7.5	750	42	42	360	215	70X1"	26.6
7.5	10.0	1000	(12 X3.3)	48.42	375			33.0
11.0	15.0	1500						
9.3	12.5	750	48	48	375	215	70X1"	33.0
11.0	15.0	1000	(14 X3.6)					
18.5	25.0	1500						

### HOW TO SELECT V.S.P. MODEL

SELECT THIS V.S.P. MODEL CONSIDERING SHAFT DIAMETER OR POWER OF THE MOTOR. REFER ABOVE TABLE FOR SELECTION. [BIGGER DISK Ø IS RECOMMENDED FOR SHOCK LOADS OR ROUGH UNEVEN DRIVES] SELECTION TABLES FOR FIXED PULLEY, BELT, MOTOR SLIDE WILL BE SENT TO YOU ON CONFIRMING V.S.P. MODEL.

**11, VASTA HOUSE, GR. FLOOR, JANMABOOMI MARG,  
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