

## **Model PDS**

Wide-belt type, stepless, variable speed drive

Used together with Models AK and PE. Employs a wide variable speed belt. Non-lubrication type stepless variable speed drive capable of changing drive speed without varying the distance between shafts. (Can be used for various models of motor ranging 0.2 kW to 37 kW. A large speed change ratio of 1:4 can be obtained.)

Variable speed pulley Model AK is a manually adjustable provided with a handwheel. Model PE, the driven pulley is spring loaded. Speed change can be made easily. Drive speed can be increased by turning the handwheel counterclockwise and decreased by reversing it.

Mount Model AK on motor shaft and Model PE on driven side as illustrated in arrangement diagram. Align the belt both parallel and angularly. When a 4P motor is used on input side, the RPM and torque at the output shaft are the same as those of the PDC type. The input RPM should be within the range of 900 to 1,800 rpm.

Lubrication is not required. The pulley will not seizure and is maintenance free since it employs self-lubricating oilless material for the sliding surfaces.

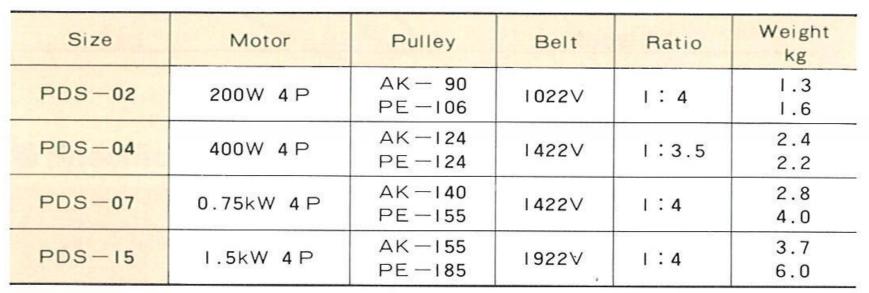
Its handwheel has a scale with a pointer and a rotary sub-scale, both easy to read.

It mounts on shafts by tightening a setscrew recurely. When fitting it on a machine, attach a cover on its rotary part.

## Caution:

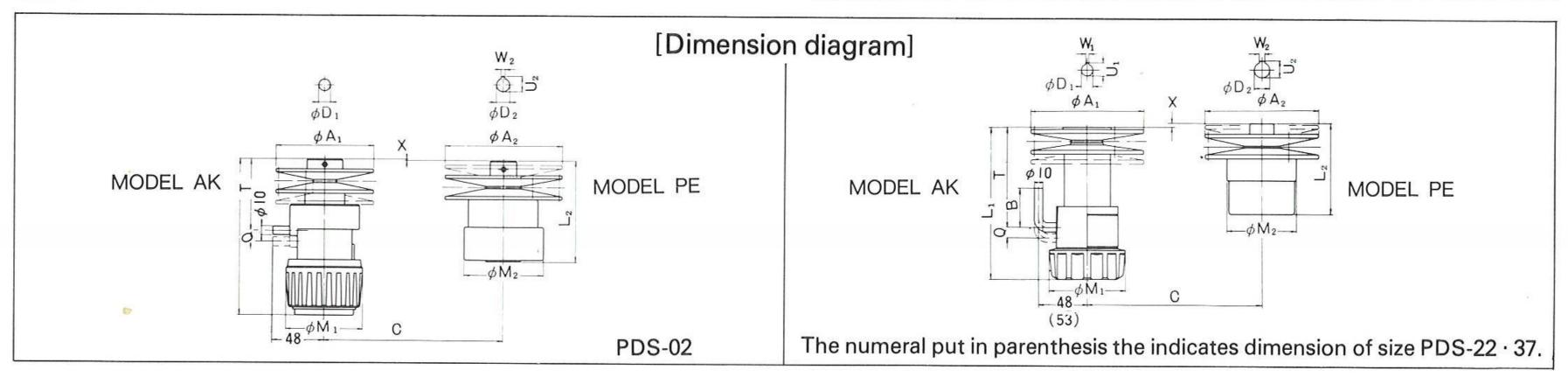
Avoid the disassembling (particularly Model PE) if possible since it has a built-in powerful spring.

## Specifications



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Size	Motor	Pulley	Belt	Ratio	Weight kg
PDS-22	2.2kW 4P	AK-185 PE-216	2322V	1:4.5	5.4 10.0
PDS-37	3.7kW 4P	AK-216 PE-216	2322V	1:3	6.9 10.0
PDS-55 PDS-370	5.5·7.5kW \ 30 · 37kW	Wi	II be made	upon order	



## Dimensions

(mm)

							M	odel	AK										Mode	I PE	Ξ				
Size	A <sub>1</sub>	M <sub>1</sub>	Lı	В	Q	Т	D <sub>1</sub>	U <sub>1</sub>	W <sub>1</sub>	Max. bore	Bore depth	max P. D	min P. D	Handle revolutions	A <sub>2</sub>	M <sub>2</sub>	L <sub>2</sub>	D <sub>2</sub>	U <sub>2</sub>	W <sub>2</sub>	Max. bore	Bore depth	max P. D	min P. D	×
PDS-02	90	70	144		10	65	11	_		<b>*14</b>	25	85	34.5	5	106	73	91	12	13.5	4	15	30	101	54.5	- 1
PDS-04	124	86	164	53	11	107	14	16	5	19	30	114	58	5.5	124	79	122	15	17	5	19	40	118	63	12
PDS-07	140	86	172	53	15	112	19	21	5	24	40	135	58	7.5	155	94	151	18	20	5	22	45	150	77	14
PDS-15	155	86	205	53	17	142	24	27	7	24	50	148	60	8.5	185	104	172	22	25	7	25⁵	55	178	100	16.5
PDS-22	185	86	231	62	21	165	24	27	7	28	60	178	70	10.5	216	126	205	25	28	7	35	50	208	112	17.5
PDS-37	216	86	240	74	17.5	175	28	31	7	32	60	200	110	8.5	216	126	205	30	33	7	35	65	208	120	17.5

The numerals to which \*\* is attached indicate the maximum bores of the models having no key ways.

	Belt No.	Belt No.	Belt No.		Belt No.	Belt No.	Belt No.	
Size	(C) Center distance	(C) Center distance	(C) Center distance	Size	(C) Center distance	(C) Center distance	(C) Center distance	
PDS-02	1022V 220	1022∨ 247			1922V 298	1922V 321	1922V 338	
PD3-02	163	200		PDS-15	182	211	235	
DDC 04	1422V 270	1422V 300	1422V 330		2322V 364	2322V 396	2322V 421	
PDS-04	200	242	278	PDS-22	230	275	306	
PDS-07	1422V 270	1422V 300	1422V 330		2322V 396	2322V 421	2322V 441	
	172	214	252	PDS-37	247	279	304	