

Stand-alone Belt-type Stepless Speed Changer

PK

Standard applied motor output	0.4 kW to 11 kW (4-pole) , 11 kW to 18.5 kW (6-pole)
Speed change ratio	Approx. 1:3
External pulley diameter	150 mm to 400 mm

A VARI-DIA Pulley Using a Wide Speed Changer Belt



- Using a Wide Speed Changer Belt
- Large Speed Change Ratio
- Large Transmission Capacity

Specifications

Model	Applied motor [kW]	Speed change ratio	Belt	Transmission capacity [kW]			Mass [kg]
				High speed rotation	Intermediate speed rotation	Low speed rotation	
PK-150-14N-044	0.4 (4P)	1 : 3	1422V	1.5	1.0	0.4	3.2
PK-200-19N-074	0.75 (4P)	1 : 3	1922V	3.7	2.3	0.5	6.2
PK-200-24N-154	1.5 (4P)						
PK-250-28N-224	2.2 (4P)	1 : 3	2926V	8.0	5.2	1.1	13
PK-250-28N-374	3.7 (4P)						
PK-300-38N-554	5.5 (4P)						
PK-300-38N-754	7.5 (4P)	1 : 3	4430V	13	12	2.5	24
PK-300-42N-1104	11 (4P)						
PK-355-42N-1106	11 (6P)	1 : 2.5	4430V	16	11	5.5	58
PK-355-48N-1506	15 (6P)						
PK-400-55N-1806	18.5 (6P)	1 : 2	4430V	18	15	9.8	66

* If you want to use a slide base for the PK-355/400, please consult with us.

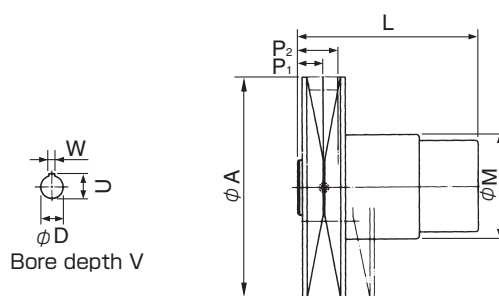
Driven Side Rotation Speed (when 1430 min⁻¹ (50 Hz) or 1720 min⁻¹ (60 Hz) are input with 4-pole motor)

Driven side pulley diameter		Unit [min ⁻¹]							
Model		6 in.	8 in.	10 in.	12 in.	14 in.	16 in.	20 in.	24 in.
PK-150	50Hz	470 ~ 1410	350 ~ 1050	280 ~ 840	230 ~ 690				
	60Hz	565 ~ 1700	420 ~ 1260	335 ~ 1010	275 ~ 830				
PK-200	50Hz	640 ~ 1920	470 ~ 1410	380 ~ 1140	310 ~ 930				
	60Hz	765 ~ 2300	565 ~ 1700	460 ~ 1380	375 ~ 1130				
PK-250	50Hz			470 ~ 1410	390 ~ 1170	330 ~ 990	290 ~ 870		
	60Hz			565 ~ 1700	470 ~ 1410	395 ~ 1190	345 ~ 1040		
PK-300	50Hz			580 ~ 1740	470 ~ 1410	400 ~ 1200	350 ~ 1050		
	60Hz			695 ~ 2090	565 ~ 1700	480 ~ 1440	420 ~ 1260		
PK-355 *	50Hz				440 ~ 1100	380 ~ 950	330 ~ 825	260 ~ 655	
	60Hz				530 ~ 1325	450 ~ 1130	395 ~ 985	310 ~ 780	
PK-400 *	50Hz					530 ~ 1060	470 ~ 940	370 ~ 740	310 ~ 620
	60Hz					635 ~ 1270	565 ~ 1130	445 ~ 890	370 ~ 740

* The values for the model with * mark: When 950 min⁻¹ (50 Hz) or 1130 min⁻¹ (60 Hz) are input with 6-pole motor.

* For details on the driven side pulley, refer to P477. For the driven side pulley, be sure to use one with the same diameter or larger.

Dimensions



Model	A	P ₁	P ₂	L	M	D	W	U	V	Max. P.D.	Min. P.D.	Unit [mm] Movement distance
PK-150-14N-044	150	19	28.5	120	81	14	5	16	30	144	48	75
PK-200-19N-074	200	23	35.5	160	95	19	6	21.5	40	192	64	101
PK-200-24N-154												
PK-250-28N-224	250	31	49.5	210	126	28	8	31	60	240	80	126
PK-250-28N-374												
PK-300-38N-554	305	50	76	300	143	38	10	41	80	290	96	152
PK-300-38N-754												
PK-300-42N-1104	355	54	81.5	355	214	42	12	45	110	343	137	162
PK-355-42N-1106												
PK-355-48N-1506						48	14	51.5	110			
PK-400-55N-1806	400	51	77	355	214	55	16	59	110	388	194	152

* Movement distance refers to a distance to move the motor for changing speed.

How to Place an Order

PK-150-14N-044

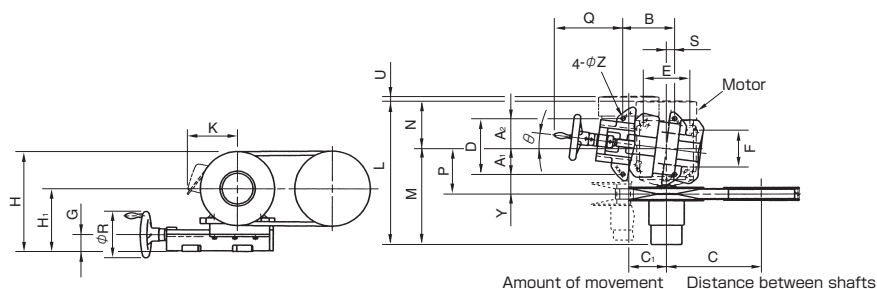
Size ——— Nominally correct motor
————— Nominal hole diameter

Maintaining a Constant Belt Travel Line

The PK pulley is open at one side. So every time the distance between shafts is increased or decreased to change speed, the belt travel line is moved between P₁ and P₂. However, since this type uses a wide speed changer belt, the travel line must be maintained constant relatively strictly. Therefore, the pulley itself must be moved backward or

forward when the distance between shafts is increased or reduced. A motor slide base (RK) is required to do this.

This base can simultaneously increase/decrease the distance between shafts and move the pulley forward/backward. Thus, the belt travel line can always be maintained constant using this base.



Model	Applied speed changer	Applied motor	A ₁	A ₂	B	C ₁	D	E	F	G	H	H ₁	K	L	M	N	P	Q	R	S	U	Y	Z	θ [°]
RK-05	PK-150-14N-044	0.4kW (4P)	75	85	140	75	160	112	90	20	195	121	127	330	210	116	109	150	125	33	9	34	11	7
RK-20	PK-200-19N-074	0.75kW (4P)	69	81	140	101	150	125	100	45	270	170	135	390	260	130	123	195	125	22	12	54	11	7
	PK-200-24N-154	1.5kW (4P)																						
RK-50	PK-250-28N-224	2.2kW (4P)	90	110	200	126	200	160	140	50	310	200	162	510	343	167	164	186	140	40	19	74	11	9
	PK-250-28N-374	3.7kW (4P)																						
RK-100	PK-300-38N-554	5.5kW (4P)	146	174	250	152	320	216	140	60	390	252	206	663	459	204	209	249	200	52	26	63	15	10
	PK-300-38N-754	7.5kW (4P)																						
RK-200	PK-300-42N-1104	11kW (4P)	146	174	250	152	320	254	210	60	440	280	263	785	513	272	263	249	200	48	27	116	15	10
	PK-355-42N-1106	11kW (6P)																						

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