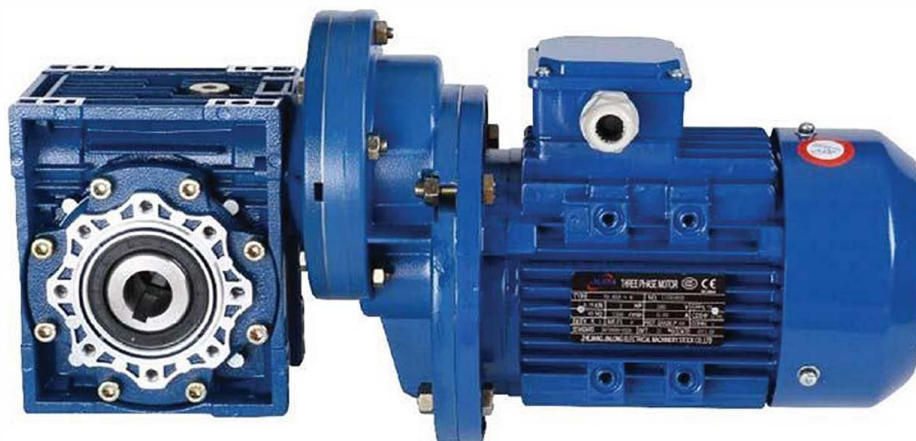




1.4 PC系列前置斜齿轮减速器简介

Prestage helical geared units Introction(PC)

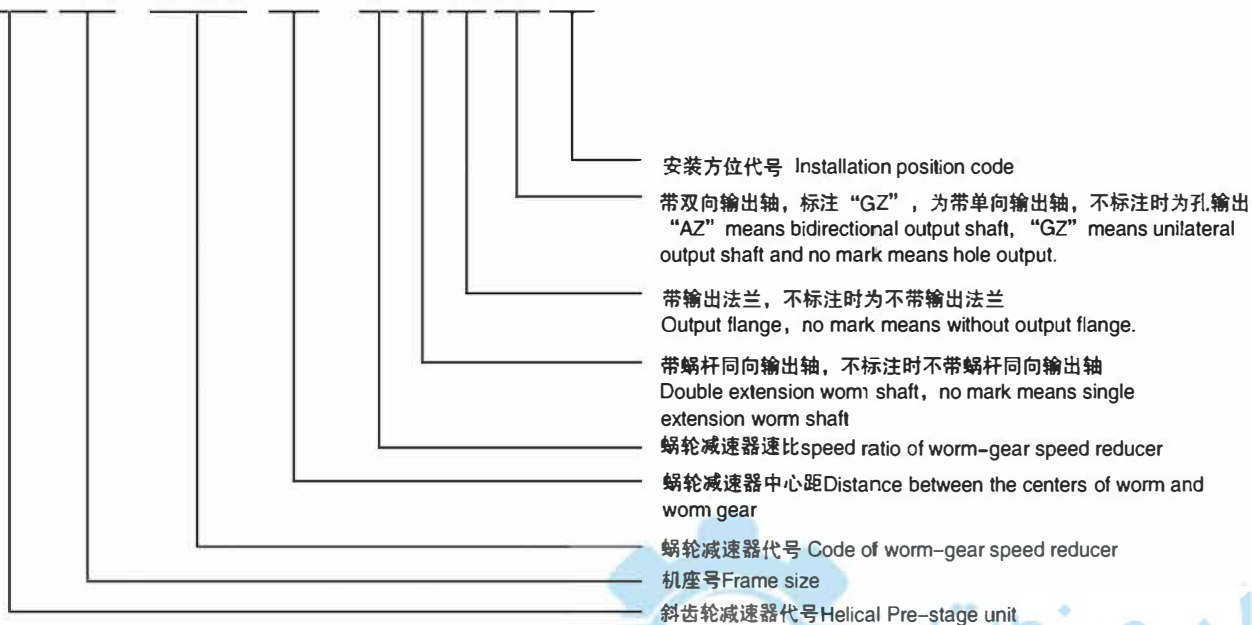
PC前置斜齿轮减速器是一种模块形式结构的产品，它可以与任何一种带有PAM输入法兰孔输入的减速器组合，前置减速装置与马达组合以B14方式输出。该装置不能单独使用，只能与减速器配套使用。

The PC construction is modular and therefore it can be as a separate unit mounted on any type of fitted geared motor (PAM) Fitting the pre-stage helical module on the main reduction unit is easily done as for any motor of typeBI4. The prestage unit cannot be used by itself, but only coupled with another reduction unit.

1.5 型号标记

Model & mark

PC 071 - SMRV 063 - 40 E F1 AZ B3



2.1 无级变速器简介

Brief introduction of UDL series speed variator

UDL系列行星锥盘无级变速器的设计，融合了国内外的先进技术。产品有以下主要特点：

- 1、调速精度高，达0.5~1转。
- 2、变速范围大：输出速比可在1:1.4至1:7之间任意变化。
- 3、强度高，寿命长。
- 4、调速方便。
- 5、可连续工作运转，且可正反方向运转，运转平稳，性能稳定，噪音低。
- 6、全密封，对环境要求低。
- 7、结构紧凑，体积小。
- 8、外形美观，重量轻。
- 9、适应性好。UDL系列行星锥盘无级变速器可与各种减速机结合，实现低速无级变速。

UDL系列行星锥盘无级变速器可广泛应用于食品、陶瓷、包装、化工、制药、塑料、造纸、机床、交通以及各种需调速的自动生产线、输送线、装配流水线、是您机器上理想的伙伴。



The design of UDLseries planet cone-disk stepless speed variator compromises the advanced technology both at home and abroad.

The products include the following main characteristics:

1. High speed-regulating precision, up to 0.5-1 rotation.
2. Large speed-changing range:the speed ratio ranges from 1:1.4 to 1:7 freely.
3. High in strength and long in service life.
4. Convenient to regulate the speed.
5. Continuous in running, front-to-back in running direction, smooth in driving, stable in performance and low in noise.
6. Full in sealing and suitable for any environment.
7. Compact in structure and small in volume.
8. Good-looking in appearance,light in weight .
9. Good in adaptation: UDL series planet cone-disk stepless speed variators can be combined with all kinds of speed reducers, as to achieve low stepless speed-changing.

UDL series planet cone-disk stepless speed variators are widely used for foodstuffs,ceramics,packing, chemicals, pharmacy,plastics, paper-making,mchine-tools.transportation.and all kinds of automatic production lines, pipelines and assembly lines which need speed-regulation.It is a good companion for your production.

2.2 型号标记

Model & mark





2.3 型号标记 Model & mark

UD L 0.75 - SMRV 063 - 40 E F1 AZ B3

安装方位号 Installation position code

带双向输出轴，标注，“GZ”为带单向输出轴，不标注时为孔输出
“AZ” means bidirectional output shaft; “GZ” means unilateral output shaft, no mark means hole output.

带输出法兰，不标注时为不带输出法兰

“F” means output flange, “FL” means high output flange, and no mark means output without flange

带蜗杆同向输出轴，不标注时不带蜗杆同向输出轴

“E” means Double extension worm shaft, no mark means single extension worm shaft

蜗轮减速器速比 Speed ratio of worm gear speed reducer

蜗轮减速器中心距 Distance between the centers of worm and worm gear

蜗轮减速器代号 Mark of worm gear speed reducer

配用电机功率 Relevant motor power

铝合金机壳，不标注时为铸铁机壳

UDL means aluminium alloy casing, and UD refers to the cast iron casing for speed variator

行星锥盘无级变速器代号

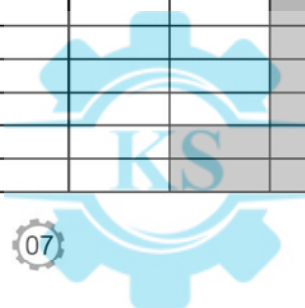
Mark of planetary cone-disk stepless speed variator



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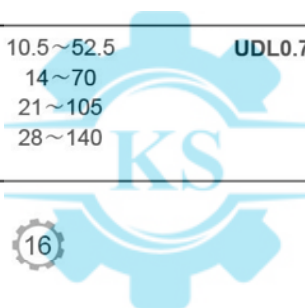
3.2 PC-SMRV基本配置/PC-SMRV Per-disposition

	i	PC063		PC071		PC080			PC090		
		105/11	105/14	120/14	120/19	160/19	160/24	160/28	160/19	160/24	160/28
		i=2.73		i=2.73		i=2.8			i=2.45		
SMRV040	25										
	30										
	40										
	50										
	60										
	80										
	100										
SMRV050	25										
	30										
	40										
	50										
	60										
	80										
	100										
SMRV063	25										
	30										
	40										
	50										
	60										
	80										
	100										
SMRV075	25										
	30										
	40										
	50										
	60										
	80										
	100										
SMRV090	25										
	30										
	40										
	50										
	60										
	80										
	100										
SMRV110	25										
	30										
	40										
	50										
	60										
	80										
	100										
SMRV130	25										
	30										
	40										
	50										
	60										
	80										
	100										



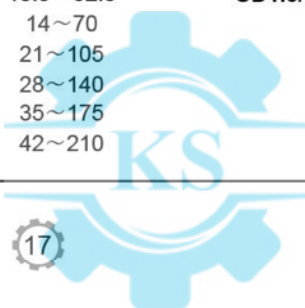
4.2 UDL..SMRV..($n_1=1400r/min$)性能参数 / Performance parameter

P_{1n} [KW]	n_2 [r/min]	M_{2n} [Nm]	i		
0.18	117~22.5	9~18	12~61.5	UDL0.18/SMRV040	6324
	88~17	12~23	16~82		
	58.7~11.3	17~32	24~123		
	44~8.5	22~40	32~164		
	35.2~6.8	27~47	40~205		
	29.3~5.7	30~51	48~246		
	22~4.3	37~62	64~328		
	17.6~3.4	43~60	80~410		
	22~4.3	38~63	64~328	UDL0.18/SMRV050	6324
	17.6~3.4	44~73	80~410		
	14.7~2.8	50~80	96~492		
	11~2.1	59~82	128~656		
	8.8~1.7	66~79	160~820		
0.37	133~26.7	19~36	10.5~52.5	UDL0.37/SMRV050	7124
	100~20	25~47	14~70		
	66.7~13.3	36~65	21~105		
	50~10	46~82	28~140		
	40~8	55~97	35~175		
	33.3~6.7	61~107	42~210		
	25~5	76~124	56~280		
	20~4	89~120	70~350		
	25~5	79~134	56~280	UDL0.37/SMRV063	7124
	20~4	92~155	70~350		
	16.7~3.3	104~173	84~420		
	12.5~2.5	125~173	112~560		
	10~2	139~150	140~700		
0.55	133~26.7	26~49	10.5~52.5	UDL0.55/SMRV063	8014
	100~20	34~63	14~70		
	66.7~13.3	48~88	21~105		
	50~10	62~112	28~140		
	40~8	75~133	35~175		
	33.3~6.7	81~146	42~210		
	25~5	105~179	56~280		
	20~4	123~207	70~350		
	20~4	129~216	70~350	UDL0.55/SMRV075	8014
	16.7~3.3	146~242	84~420		
	12.5~2.5	176~250	112~560		
	12.5~2.5	189~309	112~560	UDL0.55/SMRV090	8014
	10~2	218~350	140~700		
0.75	133~26.7	39~73	10.5~52.5	UDL0.75/SMRV063	8024
	100~20	51~94	14~70		
	66.7~13.3	72~132	21~105		
	50~10	92~168	28~140		

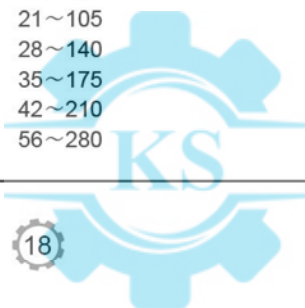


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P _{1n} [KW]	n ₂ [r/min]	M _{2n} [Nm]	i		
0.75	40~8 33.3~6.7 25~5 20~4	112~199 126~219 156~232 185~310	35~175 42~210 56~280 70~350	UDL0.75/SMRV063	8024
	20~4 16.7~3.3	192~320 219~300	70~350 84~420	UDL0.75/SMRV075	8024
	16.7~3.3 12.5~2.5 10~2	230~389 265~428 303~410	84~420 112~560 140~700	UDL0.75/SMRV090	8024
	12.5~2.5 10~2	302~503 348~575	112~560 140~700	UDL0.75/SMRV110	8024
1.1	133~26.7 100~20 66.7~13.3 50~10 40~8 33.3~6.7 25~5	59~111 77~144 110~203 124~258 172~308 195~340 245~360	10.5~52.5 14~70 21~105 28~140 35~175 42~210 56~280	UD1.1/SMRV075	90S4
	100~20 66.7~13.3 50~10 40~8 33.3~6.7 25~5 20~4	78~146 113~208 146~266 177~320 202~356 256~442 304~517	14~70 21~105 28~140 35~175 42~210 56~280 70~350	UD1.1/SMRV090	90S4
	20~4 16.7~3.3 12.5~2.5 10~2	320~550 368~625 455~754 522~710	70~350 84~420 112~560 140~700	UD1.1/SMRV110	90S4
	16.7~3.3 12.5~2.5 10~2	373~623 460~749 531~868	84~420 112~560 140~700	UD1.1/SMRV130	90S4
1.5	133~26.7 100~20 66.7~13.3 50~10 40~8 33.3~6.7 25~5	78~146 102~192 147~270 190~344 229~330 260~390 327~360	10.5~52.5 14~70 21~105 28~140 35~175 42~210 56~280	UD1.5/SMRV075	90L4
	133~26.7 100~20 66.7~13.3 50~10 40~8 33.3~6.7	77~150 104~195 150~277 194~355 263~427 270~474	10.5~52.5 14~70 21~105 28~140 35~175 42~210	UD1.5/SMRV090	90L4



P _{1n} [KW]	n ₂ [r/min]	M _{2n} [Nm]	i		
1.5	25~5 20~4	341~589 406~560	56~280 70~350	UD1.5/SMRV090	90L4
	20~4 16.7~3.3	426~733 490~833	70~350 84~420	UD1.5/SMRV110	90L4
	16.7~3.3 12.5~2.5 10~2	498~831 614~999 696~1100	84~420 112~560 140~700	UD1.5/SMRV130	90L4
2.2	133~26.7 100~20 66.7~13.3 50~10 40~8 33.3~6.7 25~5	120~226 157~294 228~418 298~549 364~664 413~717 533~931	10.5~52.5 14~70 21~105 28~140 35~175 42~210 56~280	UD2.2/SMRV110	100L1-4
	25~5 20~4 16.7~3.3 12.5~2.5 10~2	542~932 648~1097 746~1246 921~1499 1040~1690	56~280 70~350 84~420 112~560 140~700	UD2.2/SMRV130	100L1-4
	133~26.7 100~20 66.7~13.3 50~10 40~8 33.3~6.7 25~5	160~302 210~392 304~558 398~732 458~885 547~956 711~1030	10.5~52.5 14~70 21~105 28~140 35~175 42~210 56~280	UD3.0/SMRV110	100L2-4
3.0	133~26.7 100~20 66.7~13.3 50~10 40~8 33.3~6.7 25~5 20~4	160~301 211~395 307~563 402~733 490~885 562~973 720~1242 864~1463	10.5~52.5 14~70 21~105 28~140 35~175 42~210 56~280 70~350	UD3.0/SMRV130	100L2-4
	133~26.7 100~20 66.7~13.3 50~10 40~8	213~402 279~523 405~744 530~975 647~1020	10.5~52.5 14~70 21~105 28~140 35~175	UD4.0/SMRV110	112M4
	133~26.7 100~20 66.7~13.3 50~10 40~8 33.3~6.7 25~5	214~401 281~527 410~751 653~978 653~1180 749~1298 960~1650	10.5~52.5 14~70 21~105 28~140 35~175 42~210 56~280	UD4.0/SMRV130	112M4

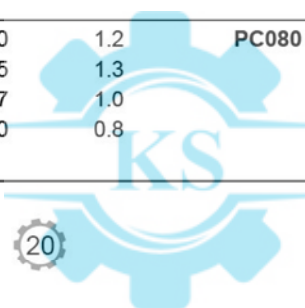


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4.3 PC.. – SMRV..性能参数 / Performance parameter

P _{1n} [KW]	n ₂ [r/min]	M _{2n} [Nm]	i	F _{r2} [N]	f _s		
0.12	20.5	42	68.25	2833	1.2	PC063 - SMRV040	6314
	17.1	46	81.9	3011	1.2		
	12.8	57	109.2	3314	0.9		
	10.3	66	136.5	3490	0.7		
	8.55	74	163.8	3490	0.6		
	10.3	68	136.5	4840	1.3	PC063 - SMRV050	6314
	8.55	75	163.8	4840	1.1		
	6.41	88	218.4	4840	0.8		
	5.13	98	273	4840	0.7		
	6.41	92	218.4	6270	1.5	PC063 - SMRV063	6314
	5.13	103	273	6270	1.2		
0.18	20.5	64	68.25	2833	0.8	PC063 - SMRV040	6324
	17.1	70	81.9	3011	0.8		
	12.8	85	109.2	3314	0.6		
	20.5	64	68.25	3889	1.4	PC063 - SMRV050	6324
	17.1	71	81.9	4132	1.5		
	12.8	87	109.2	4548	1.1		
	10.3	101	136.5	4840	0.9		
	8.55	113	163.8	4840	0.7		
	6.41	133	218.4	4840	0.6		
	10.3	103	136.5	6270	1.7	PC063 - SMRV063	6324
	8.55	117	163.8	6270	1.4		
	6.41	139	218.4	6270	1.0		
	5.13	155	273	6270	0.8		
	13.2	95	68.25	4506	1.2	PC071 - SMRV050	7116
	11	105	81.9	4788	1.4		
	8.24	126	109.2	4840	1.0		
	13.2	97	68.25	5889	2.2	PC071 - SMRV063	7116
	11	107	81.9	6259	2.4		
	8.24	131	109.2	6270	1.8		
	6.59	152	136.5	6270	1.4		
	5.49	168	163.8	6270	1.2		
	4.12	197	218.4	6270	0.9		
	3.3	218	273	6270	0.7		
	5.49	179	163.8	7380	1.7	PC071 - SMRV075	7116
	4.12	211	218.4	7380	1.2		
	3.3	235	273	7380	1.0		
0.25	20.5	88	68.25	3889	1.0	PC071 - SMRV050	7114
	17.1	98	81.9	4132	1.1		
	12.8	121	109.2	4548	0.8		
	20.5	91	68.25	5083	1.8	PC071 - SMRV063	7114
	17.1	100	81.9	5401	2.0		
	12.8	125	109.2	5945	1.5		
	10.3	143	136.5	6270	1.2		

P _{1n} [KW]	n ₂ [r/min]	M _{2n} [Nm]	i	F _{r2} [N]	f _s		
0.25	8.55	163	163.8	6270	1.0	PC071 - SMRV063	7114
	6.41	192	218.4	6270	0.7		
	5.13	215	273	6270	0.6		
	13.2	135	68.25	5889	1.6	PC071 - SMRV063	7126
	11	148	81.9	6259	1.8		
	8.24	181	109.2	6270	1.3		
	6.59	211	136.5	6270	1.0		
	10.3	151	136.5	7380	1.7	PC071 - SMRV075	7114
	8.55	172	163.8	7380	1.4		
	6.41	201	218.4	7380	1.1		
	5.13	230	273	7380	0.9		
	13.2	139	68.25	6952	2.4	PC071 - SMRV075	7126
	11	155	81.9	7380	2.5		
	8.24	191	109.2	7380	1.9		
	6.59	219	136.5	7380	1.5		
	5.49	248	163.8	7380	1.2		
	5.49	263	163.8	8180	1.9	PC071 - SMRV090	7126
	4.12	318	218.4	8180	1.4		
	3.3	358	273	8180	1.1		
	20.5	134	68.25	5083	1.2	PC071 - SMRV063	7124
	17.1	148	81.9	5401	1.4		
	12.8	185	109.2	5945	1.0		
	10.3	212	136.5	6270	0.8		
0.37	20.5	138	68.25	6000	1.8	PC071 - SMRV075	7124
	17.1	154	81.9	6375	1.9		
	12.8	191	109.2	7017	1.5		
	10.3	223	136.5	7380	1.1		
	8.55	254	163.8	7380	0.9		
	12.9	206	70	6952	1.6	PC080 - SMRV075	8016
	10.7	230	84	7380	1.7		
	8.0	283	112	7380	1.3		
	6.4	324	140	7380	1.0		
	8.55	268	163.8	8180	1.5	PC071 - SMRV090	7124
	6.41	321	218.4	8180	1.1		
	5.13	371	273	8180	0.9		
	6.4	347	148	8180	1.6	PC080 - SMRV090	8016
	5.4	389	168	8180	1.3		
	4.0	471	224	8180	1.0		
	4.0	509	224	10320	1.6	PC080 - SMRV110	8016
	3.2	577	280	10320	1.3		
0.55	20	205	70	6000	1.2	PC080 - SMRV075	8014
	16.7	230	84	6375	1.3		
	12.5	284	112	7017	1.0		
	10	332	140	7380	0.8		



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P _{1n} [KW]	n ₂ [r/min]	M _{2n} [Nm]	i	F _{r2} [N]	f _s		
0.55	12.9	306	70	6952	1.1	PC080 - SMRV075	8026
	10.7	341	84	7380	1.1		
	16.7	240	84	7054	2.3	PC080 - SMRV090	8014
	12.5	297	112	7764	1.6		
	10	355	140	8180	1.3		
	8.3	398	163.8	8180	1.0		
	10.7	357	84	8174	2.0	PC080 - SMRV090	8026
	8.0	441	112	8180	1.4		
	6.4	516	140	8180	1.1		
	5.4	578	163.8	8180	0.9		
	8.3	425	163.8	10320	1.8	PC080 - SMRV110	8014
	6.25	513	224	10320	1.3		
	5.0	597	280	10320	1.0		
	8.0	462	112	10320	2.6	PC080 - SMRV110	8026
	6.4	552	140	10320	2.0		
	5.4	620	163.8	10320	1.6		
	4.0	756	224	10320	1.1		
	4.0	756	224	13500	1.6	PC080 - SMRV130	8026
	3.2	858	280	13500	1.3		
0.75	2.0	280	70	6000	0.9	PC080 - SMRV075	8024
	16.7	313	84	6375	1.0		
	16.7	327	84	7054	1.7	PC080 - SMRV090	8024
	12.5	405	112	7764	1.2		
	10	483	140	8180	0.9		
	8.3	543	163.8	8180	0.7		
	12.5	430	112	9811	2.2	PC080 - SMRV110	8024
	10	506	140	10320	1.7		
	8.3	580	163.8	10320	1.3		
	6.25	700	224	10320	0.9		
	12.0	393	73.5	9614	3.2	PC090 - SMRV110	90S6
	9.18	508	98	10320	2.3		
	7.35	607	122.5	10320	1.8		
	6.12	682	147	10320	1.5		
	4.59	832	196	10320	1.0		
	6.25	712	224	13500	1.4	PC080 - SMRV130	8024
	5.0	813	280	13500	1.1		
	12.2	399	73.5	12575	4.4	PC090 - SMRV130	90S6
	9.18	508	98	13500	3.2		
	7.35	607	122.5	13500	2.6		
	6.12	682	147	13500	2.1		
	4.59	832	196	13500	1.5		
	3.67	944	245	13500	1.2		

P_{1n} [KW]	n_2 [r/min]	M_{2n} [Nm]	i	F_{r2} [N]	f_s		
1.1	12.2	576	73.5	9614	2.2	PC090 - SMRV110	90L6
	9.18	746	98	10320	1.6		
	7.35	890	122.5	10320	1.2		
	6.12	1000	147	10320	1.0		
	19.05	392	73.5	8298	2.5	PC090 - SMRV110	90S4
	14.3	508	98	9133	1.8		
	11.4	599	122.5	9838	1.5	PC090 - SMRV110	90S4
	9.52	686	147	10320	1.1		
	7.14	828	196	10320	0.8		
	12.2	585	73.5	12575	3.0	PC090 - SMRV130	90L6
	9.18	746	98	13500	2.2		
	7.35	890	122.5	13500	1.7		
	6.12	1000	147	13500	1.4		
	4.59	1220	196	13500	1.0		
	19.05	398	73.5	10853	3.5	PC090 - SMRV130	90S4
	14.3	508	98	11945	2.6		
	11.4	608	122.5	12868	2.0		
	9.52	686	147	13500	1.6		
	7.14	843	196	13500	1.2		
	5.71	962	245	13500	0.9		
1.5	19.05	535	73.5	8298	1.9	PC090 - SMRV110	90L6
	14.3	693	98	9133	1.3		
	11.4	817	122.5	9838	1.1		
	9.52	936	147	10320	0.8		
	19.05	542	73.5	10853	2.6	PC090 - SMRV130	90L4
	14.3	693	98	11945	1.9		
	11.4	830	122.5	12868	1.5		
	9.52	936	147	13500	1.1		
	7.14	1149	196	13500	0.8		
2.2	38.1	398	73.5	6586	2.1	PC090 - SMRV110	90L2
	28.6	516	98	7249	1.5		
	22.9	617	122.5	7809	1.2		
	38.1	4.9	73.5	8614	2.9	PC090 - SMRV130	90L2
	28.6	545	98	9481	2.0		
	22.9	654	122.5	10213	1.6		
	19.05	752	147	10853	1.3		

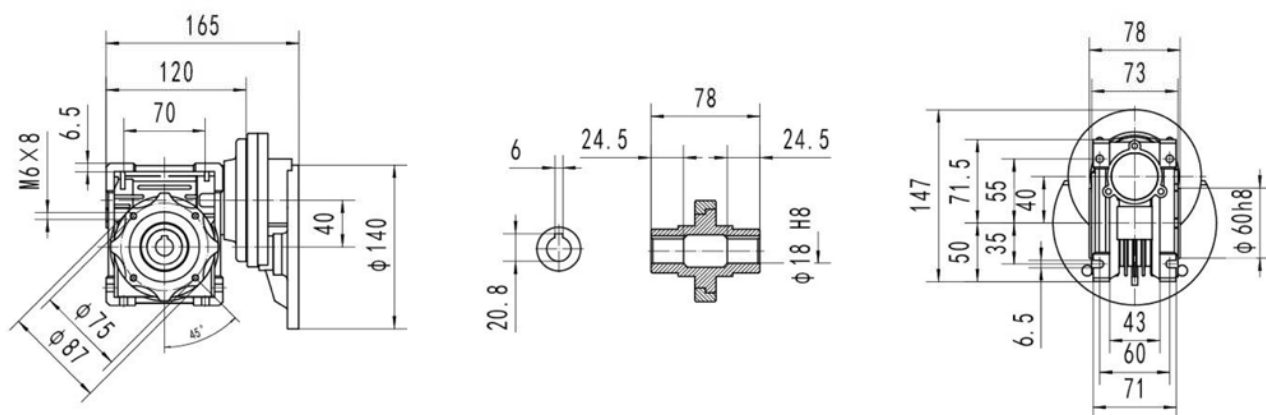


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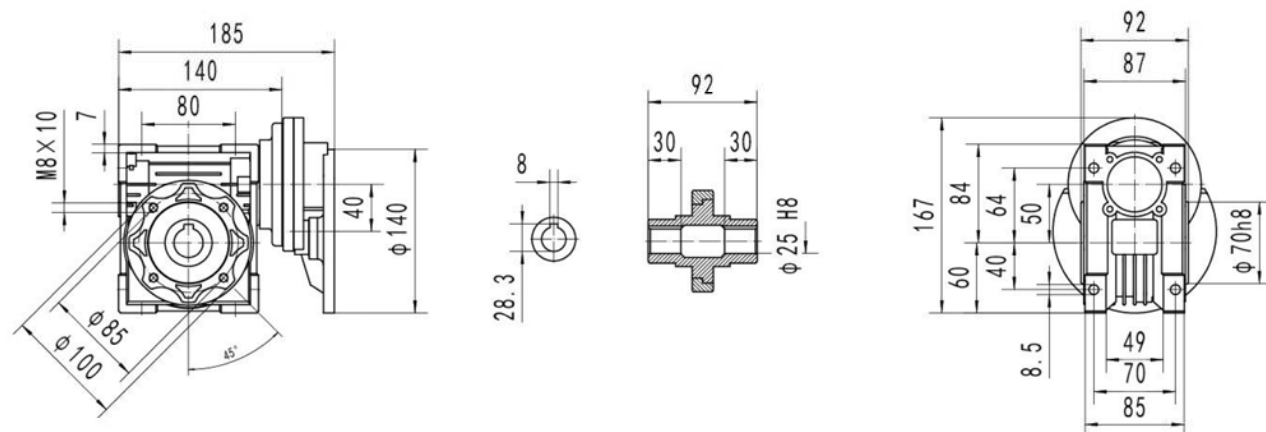
7. PC-SMRV...外形尺寸 / Outline dimension

- 有关输出法兰尺寸，请查阅SMRV有关图纸。
- 有关输出空心轴尺寸，请查阅SMRV的相关图纸。
- 有关单、双向输出轴尺寸，请查阅SMRV的相关图纸。

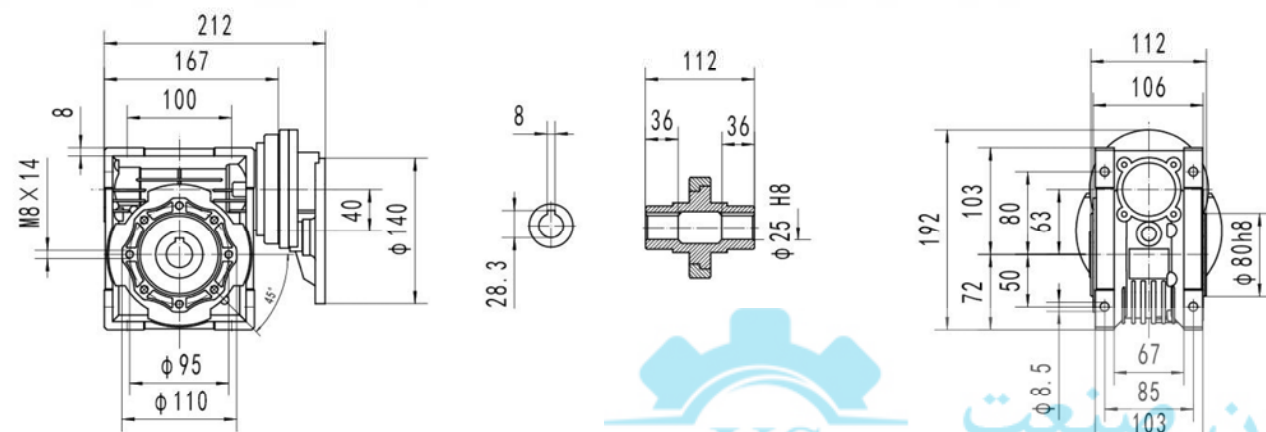
PC063/SMRV040



PC063/SMRV050

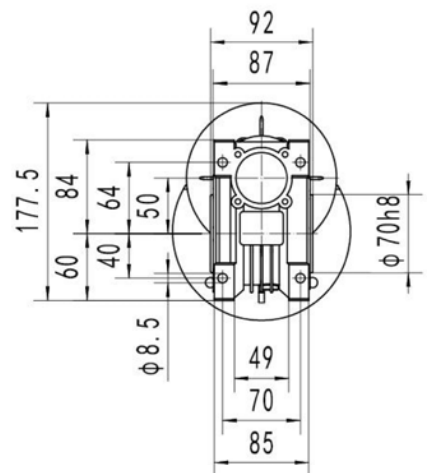
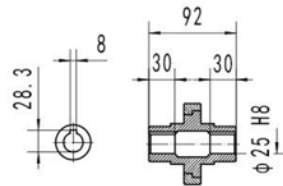
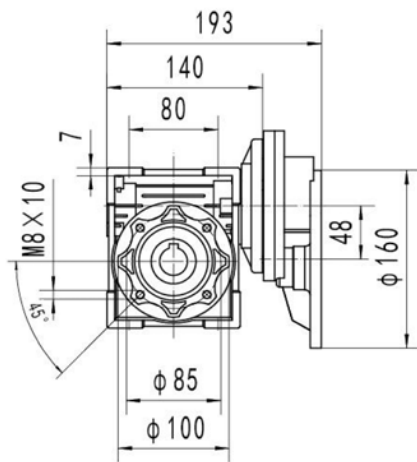


PC063/SMRV063

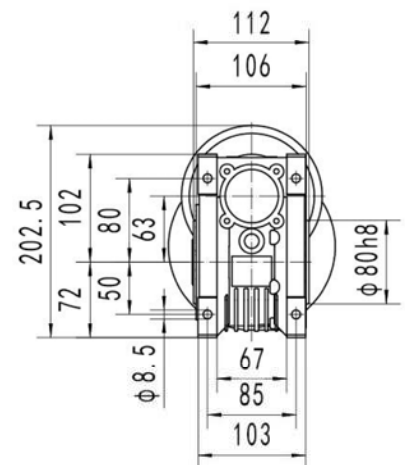
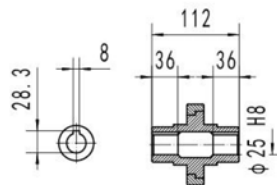
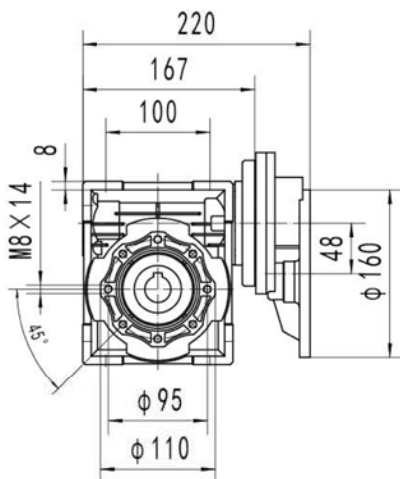


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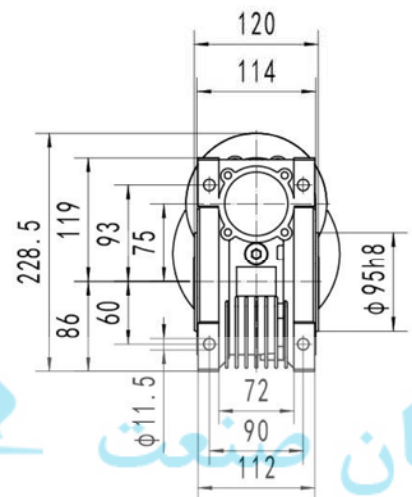
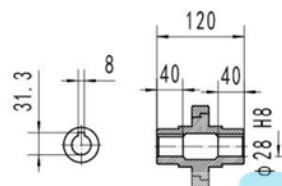
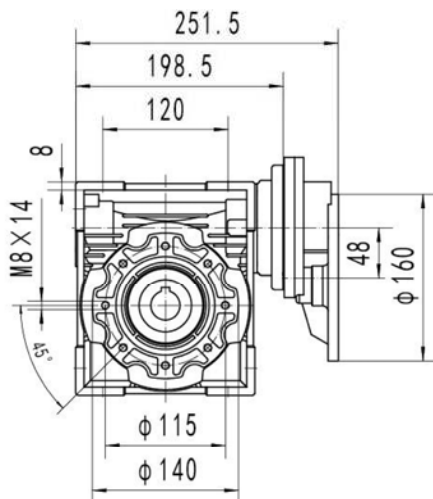
PC071/SMRV050



PC071/SMRV063

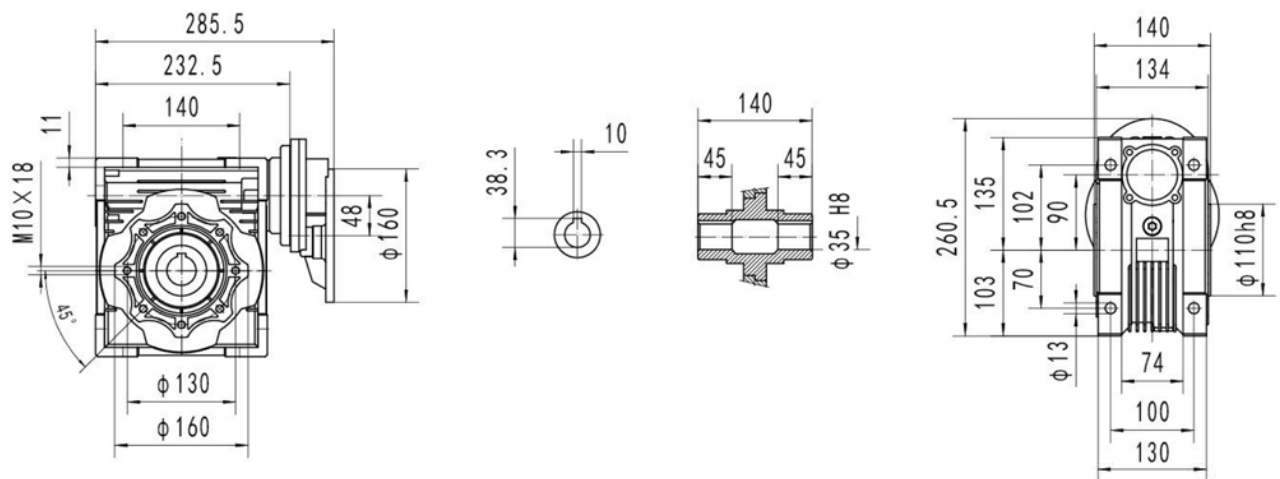


PC071/SMRV075

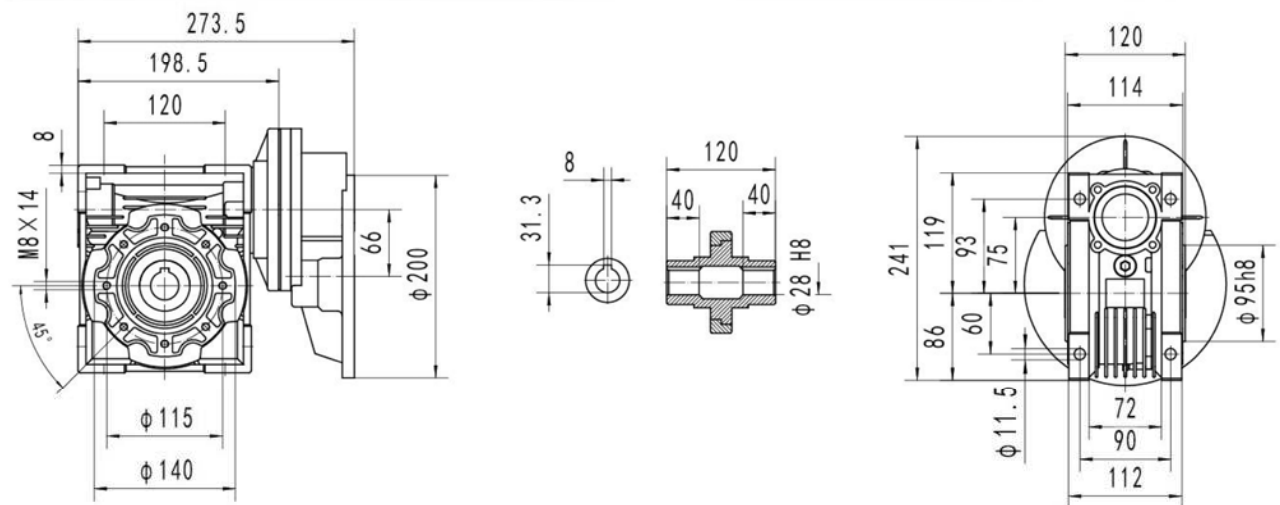


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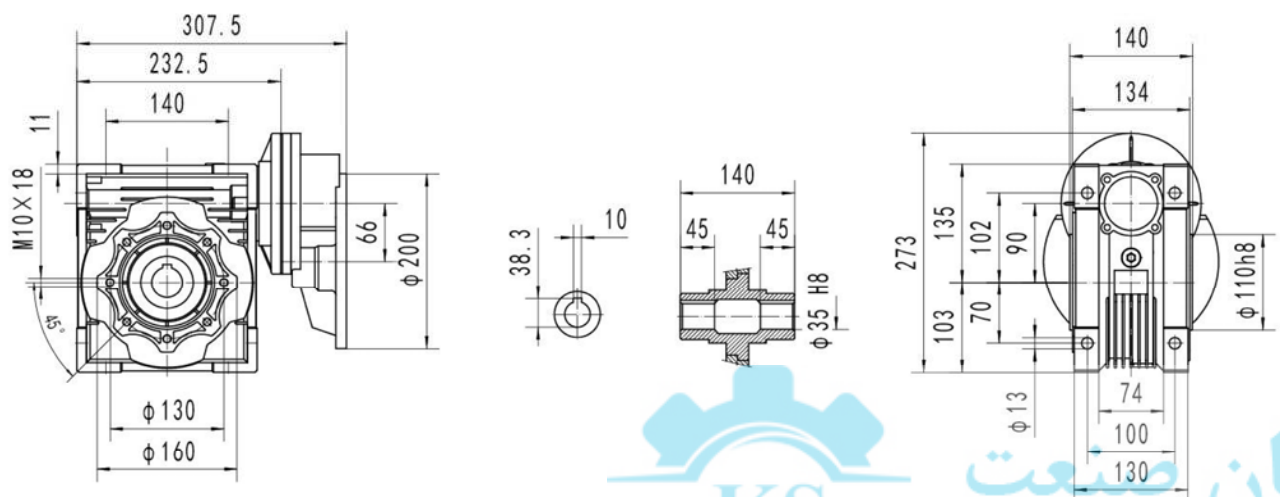
PC071/SMRV090



PC080/SMRV075



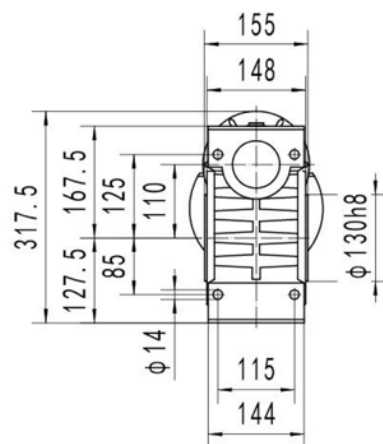
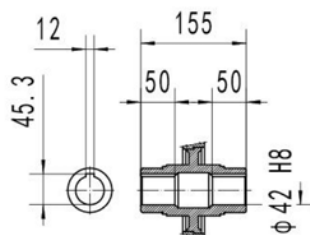
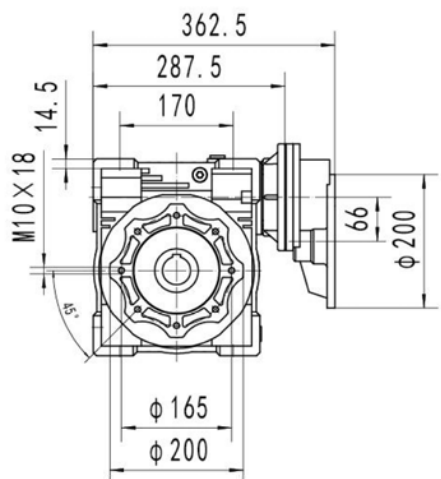
PC080/SMRV090



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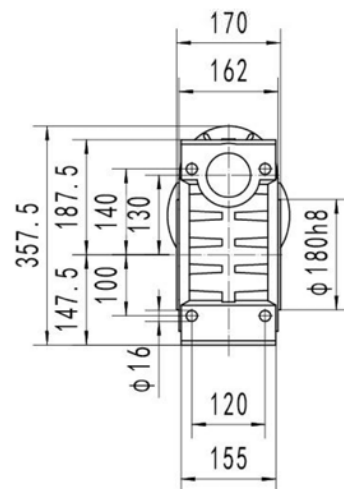
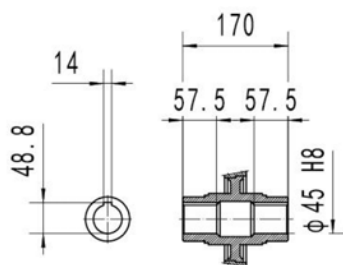
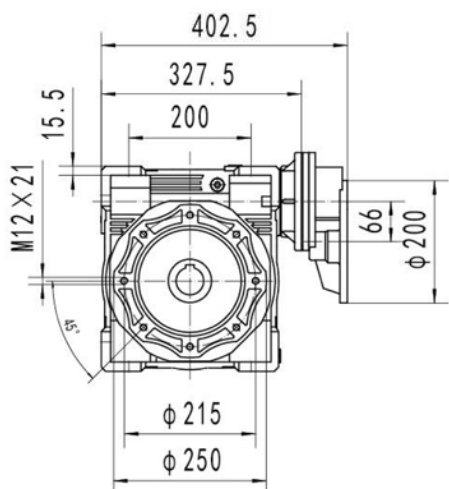
PC080/SMRV110

PC090/SMRV110

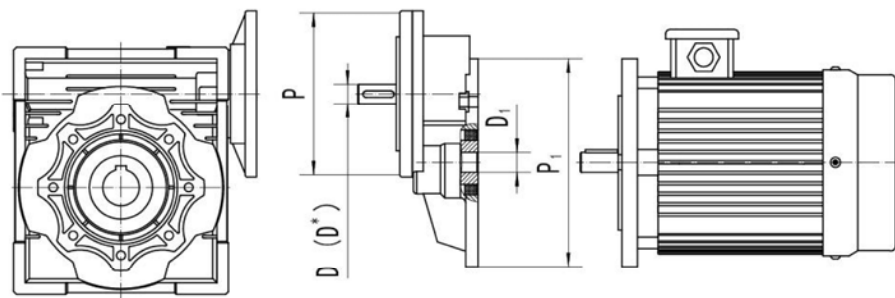


PC080/SMRV130

PC090/SMRV130



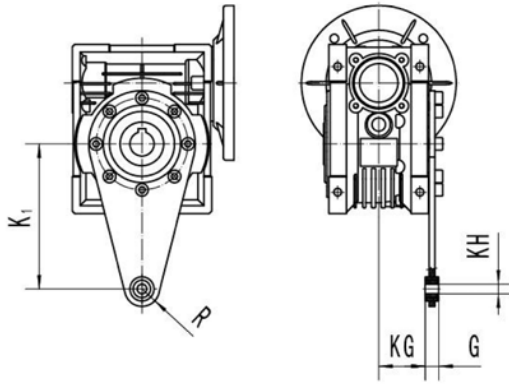
8. PC-SMRV组合尺寸/Outline dimension



	P	D	D*	P ₁
PC063	105	11	14	140(63B5)
PC071	120	14	19	160(71B5)
PC080	160	19	24/28	200(80B5)
PC090	160	24	19/28	200(90B5)

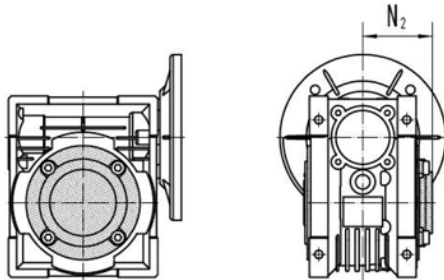
*非标准产品，订单时请说明
*Only on request

11. 扭力臂 / Torque Arm



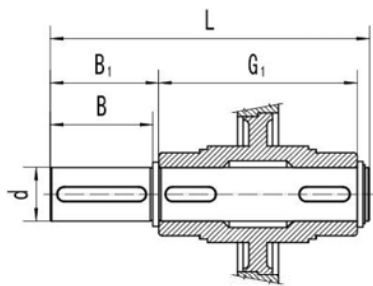
	K ₁	G	KG	KH	R
SMRV025	70	14	17.5	8	15
SMRV030	85	14	24	8	15
SMRV040	100	14	31.5	10	18
SMRV050	100	14	38.5	10	18
SMRV063	150	14	49	10	18
SMRV075	200	25	47.5	20	30
SMRV090	200	25	57.5	20	30
SMRV110	250	30	62	25	35
SMRV130	250	30	69	25	35
SMRV150	250	30	84	25	35

12. 防尘盖 / Cover

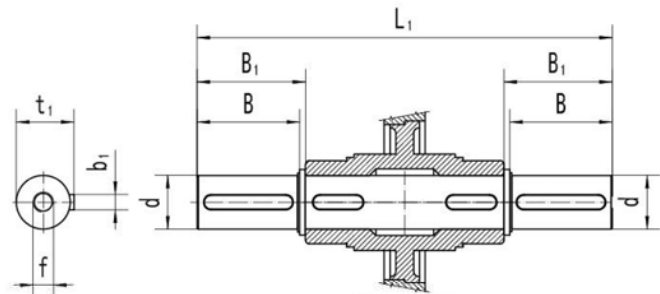


	N ₂		N ₂
SMRV030	42	SMRV090	86
SMRV040	50	SMRV105	94
SMRV050	58	SMRV110	94
SMRV063	68	SMRV130	103
SMRV075	74	SMRV150	113

13. 单向、双向输出轴尺寸 / Unidirectional, bidirectional output shaft



GZ



AZ

	d _{h6}	B	B ₁	G ₁	L	L ₁	f	b ₁	t ₁
SMRV025	11 _{g6}	23	25.5	50	81	101	—	4	12.5
	9 [*]	25 [*]	30 [*]	50	85.5 [*]	101	—	3 [*]	10.2 [*]
SMRV030	14	30	32.5	63	102	128	M6	5	16
SMRV040	18	40	43	78	128	164	M6	6	20.5
SMRV050	25	50	53.5	92	153	199	M10	8	28
SMRV063	25	50	53.5	112	173	219	M10	8	28
SMRV075	28	60	63.5	120	192	247	M10	8	31
SMRV090	35	80	84.5	140	234	309	M12	10	38
SMRV110	42	80	84.5	155	249	324	M16	12	45
SMRV130	45	80	85	170	265	340	M16	14	48.5
SMRV150	50	82	87	200	297	374	M16	14	53.5

* 非标产品，订单时请说明。

* Only on request

14. UDL系列无级变速器 / UDL series speed variator

14.1 UDL系列无级变速器性能参数 / Performance table UDL series speed variator ($n_1=1400$ r/min)

	型号 Model	i	n_2 [r/min]	M_2 [Nm]
0.18KW	UDL0.18	1.6~8.2	880~170	1.5~3
0.37KW	UDL0.37	1.4~7	1000~200	3~6
0.55KW	UDL0.55	1.4~7	1000~200	4~8
0.75KW	UDL0.75	1.4~7	1000~200	6~12
1.10KW	UD1.1	1.4~7	1000~200	9~18
1.50KW	UD1.5	1.4~7	1000~200	12~24
2.20KW	UD2.2	1.4~7	1000~200	18~36
3.00KW	UD3.0	1.4~7	1000~200	24~48
4.00KW	UD4.0	1.4~7	1000~200	32~64
5.5KW	UD5.5	1.4~7	1000~200	45~90
7.5KW	UD7.5	1.4~7	1000~200	59~118

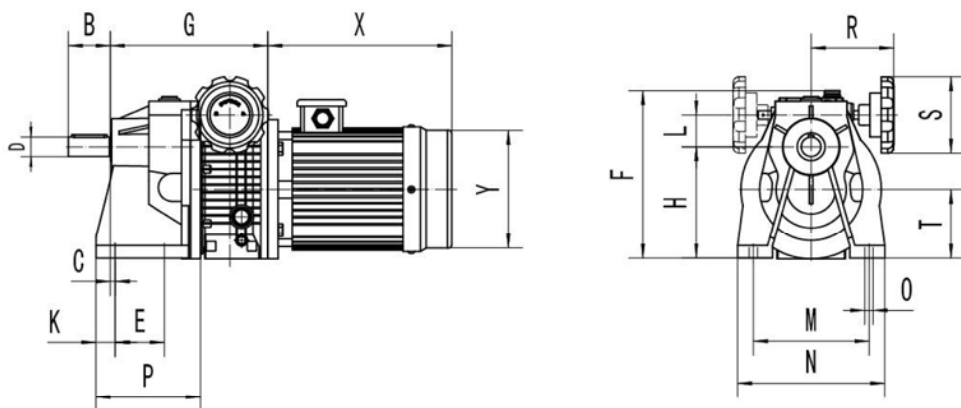
14.2 无级变速器与齿轮减速器组合性能参数

Performance table for stepless speed variator & gear speed reducer ($n_1=1400$ r/min)

型号 Model	i	n_2 [r/min]	M_2 [Nm]
UDL0.37-CB3	5	200~40	15~30
UDL0.75-CB3	5	200~40	30~60
UD1.5-CB3	5	200~40	60~120

15. 无级变速器一级齿轮减速器组合底脚式外形尺寸及安装尺寸B3

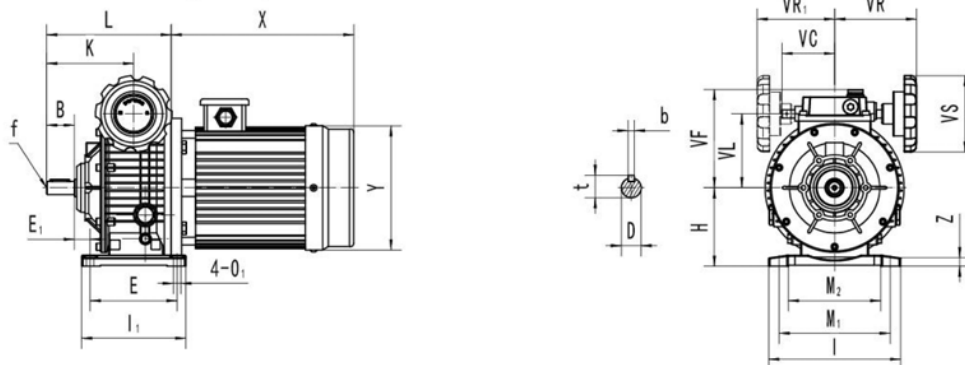
Combined outline & installation sizes for stepless speed variator & gear speed reducer with foot screws



型号Model	B	C	D	E	F	G	H	Y	L	M	N	O	P	R	S	T	X	K
UDL0.37-CB3	50	5.8	24	70	267	190	130	141	39.5	150	190	10	109	110	85	79	227	15
UDL0.75-CB3	60	7.0	28	70	267	225	160	160	45.5	165	210	12	132	120	110	99	268	27.5
UD1.5-CB3	70	0.2	38	85	267	262	195	195	42.5	186	240	14	155	123	110	117	290	32

16. UDL外形尺寸图表 / OUTLINE DIMENSION SHEET

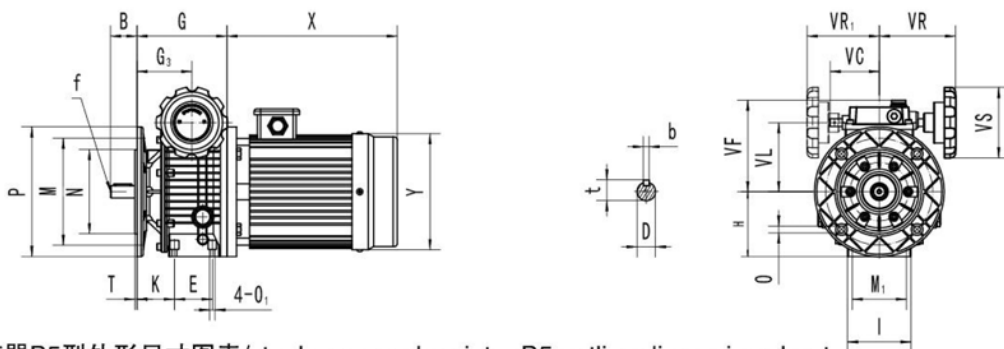
16.1 无级变速器B3型 / Stepless speed variator B3



无级变速器B3型外形尺寸图表/stepless speed variator B3 outline dimension sheet

	B	D ₆	E	E ₁	H	I	I ₁	K	L	M ₁	M ₂	O ₁	VC	VF	VL	VR	VR ₁	VS	b	f	t	X	Y	Z
UDL0.18B3	23	11	105	18	80	145	120	88	136	110	71	9	71	111	78	110	110	85	4	—	12.5	200	120	10
UDL0.37B3	30	14	104	20	93	149	125	104	140	120	96	9	71	123	90	100	100	85	5	M6	16	227	141	10
UDL0.75B3	40	19	125	23	113	190	150	126	179	160	135	11	79	140	107	118	118	110	6	M6	21.5	268	160	15
UD1.1B3	50	24	140	52	124	240	165	163	236	180	130	13	89	150	120	123	123	110	8	M8	27	265	195	21
UD1.5B3	50	24	140	52	124	240	165	163	236	180	130	13	89	150	120	123	123	110	8	M8	27	290	195	21
UD2.2B3	60	28	230	25	152	300	270	190	275	245	190	14	118	190	150	137	137	110	8	M8	33	320	215	25
UD3.0B3	60	28	230	25	152	300	270	190	275	245	190	14	118	190	150	137	137	110	8	M8	33	320	215	25
UD4.0B3	60	28	230	25	152	300	270	190	275	245	190	14	118	190	150	137	137	110	8	M8	33	340	240	25
UD5.5B3	70	38	250	33	200	365	290	201	319	315	245	18	—	—	192	194	—	110	10	M10	38	395	275	30
UD7.5B3	70	38	250	33	200	365	290	201	319	315	245	18	—	—	192	194	—	110	10	M10	38	435	275	30

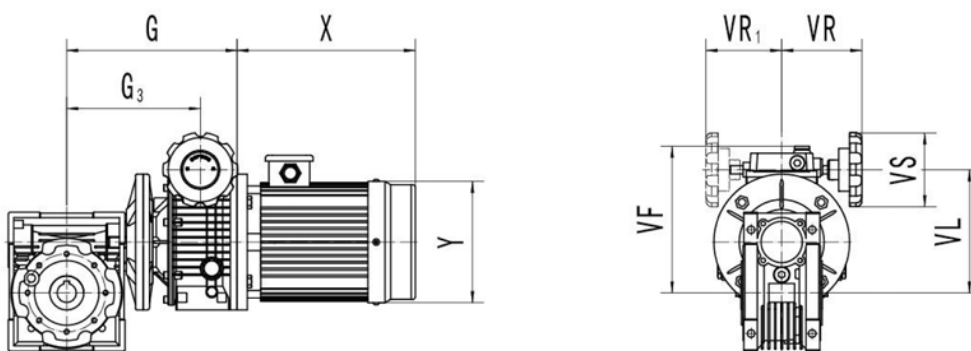
16.2 无级变速器B5型 / Stepless speed variator B5



无级变速器B5型外形尺寸图表/stepless speed variator B5 outline dimension sheet

	B	D ₆	E	G	G ₁	H	I	M	M ₁	N	O	O ₁	P	T	K	VC	VF	VL	VR	VR ₁	VS	b	f	t	X	Y
UDL0.18B5	23	11	50	113	64.5	70	72	115	60	95	9	M6	140	3.5	46	71	111	78	110	110	85	4	—	12.5	200	120
UDL0.37B5	30	14	40	110	74	80	90	130	77	110	9	M8	160	3.5	53	71	123	90	100	100	85	5	M6	16	227	141
UDL0.75B5	40	19	58	139	84.5	100	98	165	84	130	11	M8	200	3.5	60	79	140	107	118	118	110	6	M6	21.5	268	160
UD1.1B5	40	24	—	186	113.5	108	240	165	—	130	11	—	200	3.5	—	89	150	120	123	123	110	8	M8	27	265	195
UD1.5B5	50	24	—	186	113.5	108	240	165	—	130	11	—	200	3.5	—	89	150	120	123	123	110	8	M8	27	290	195
UD2.2B5	60	28	—	208	130	132	260	215	—	180	15	—	250	4.0	—	118	190	150	137	137	110	8	M8	33	320	215
UD3.0B5	60	28	—	208	130	132	260	215	—	180	15	—	250	4.0	—	118	190	150	137	137	110	8	M8	33	320	215
UD4.0B5	60	28	—	208	130	132	260	215	—	180	15	—	250	4.0	—	118	190	150	137	137	110	8	M8	33	340	240
UD5.5B5	70	38	—	244	131	200	—	265	—	230	19	—	300	5.0	—	—	—	192	194	—	110	10	M10	38	395	275
UD7.5B5	70	38	—	244	131	200	—	265	—	230	19	—	300	5.0	—	—	—	192	194	—	110	10	M10	38	435	275

17. UDL+SMRV变速器与蜗轮减速机组合 COMBINATION OF SPEED VARIATOR AND WORM GEAR UNITS

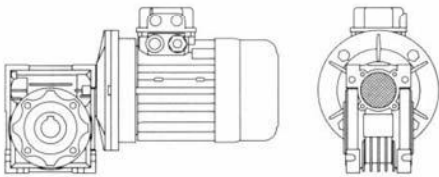
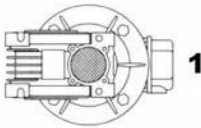
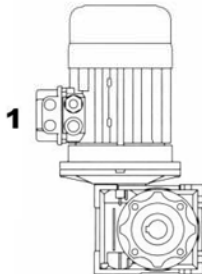
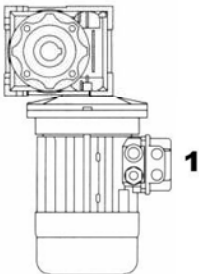
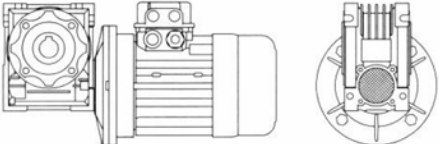
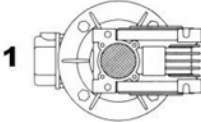


规格型号	G	G ₃	VF	VL	VS	VR	VR ₁	机座号 4P n=1400r/min	X	Y
UDL0.18-SMRV040	183	135	151	118	85	110	110	63	200	120
UDL0.18-SMRV050	193	145	161	128	85	110	110			
UDL0.37-SMRV050	190	154	173	140	85	110	110	71	227	141
UDL0.37-SMRV063	205	169	186	153	85	110	110			
UDL0.55-SMRV063	234	181	203	170	110	120	120	80	268	160
UDL0.75-SMRV063	234	181	203	170	110	120	120			
UDL0.37-SMRV075	222.5	187	198	165	85	110	110	71	227	141
UDL0.55SMRV075	252	198	215	182	110	120	120	80	268	160
UDL0.75-SMRV075	252	198	215	182	110	120	120			
UD1.1-SMRV075	298.5	226.5	225	195	110	123	123	90S	265	195
UD1.5-SMRV075	298.5	226.5	225	195	110	123	123	90L	290	195
UDL0.55-SMRV090	289	215	230	197	110	120	120	80	268	160
UDL0.75-SMRV090	269	215	230	197	110	120	120			
UD1.1-SMRV090	315.5	243	240	210	110	123	123	90S	265	195
UD1.5-SMRV090	315.5	243	240	210	110	123	123	90L	290	195
UD1.1-SMRV110	346	273.5	260	230	110	123	123	90S	265	195
UD1.5-SMRV110	346	273.5	260	230	110	123	123	90L	290	195
UD2.2-SMRV110	368	290	300	260	110	137	137	100L	320	215
UD3.0-SMRV110	368	290	300	260	110	137	137			
UD4.0-SMRV110	368	290	300	260	110	137	137	112M	340	240
UD1.5-SMRV130	366	293.5	280	250	110	123	123	90L	290	195
UD2.2-SMRV130	388	310	320	280	110	137	137	100L	320	215
UD3.0-SMRV130	388	310	320	280	110	137	137			
UDL4.0-SMRV130	388	310	320	280	110	137	137	112M	340	240

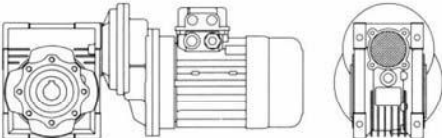
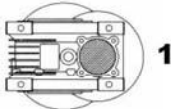
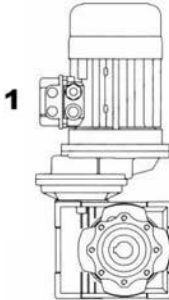
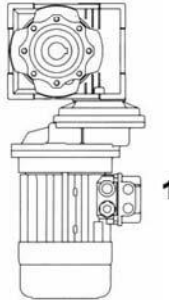
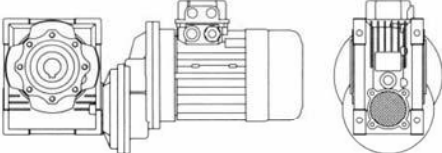
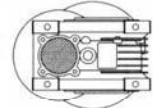
没有列出的外形尺寸，请分别查阅UDL或SMRV页面相关参数。

18. 安装方位图 / INSTALLATION POSITIONS DIAGRAM

18.1 SMRV..安装方位 / Mounting Positions

SMRV... - B3	B6	V5	V6
1 	1 		
B8	B7		
3 	1 		

18.2 PC.. - SMRV.. 安装方位 / Mounting Positions

PC.. - SMRV - B3	B6	V5	V6
1 	1 		
B8	B7		
3 	1 		

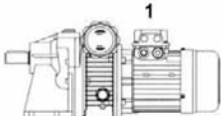
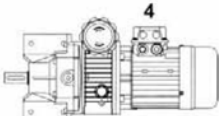
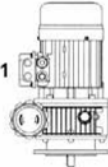
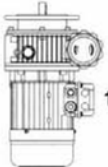
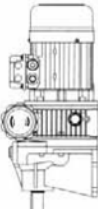
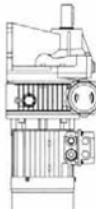
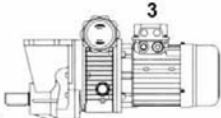
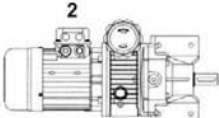
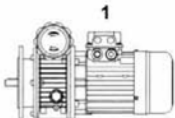
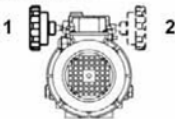
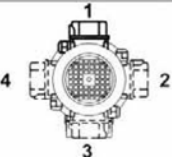
- 如无特殊说明，标准的安装位置为B3。
- 如需要特别的安装位置，请与我们技术服务人员联系。

- Unless specified otherwise, the standard positions are B3
- For positions not envisaged, it is necessary to call our Technical Service.



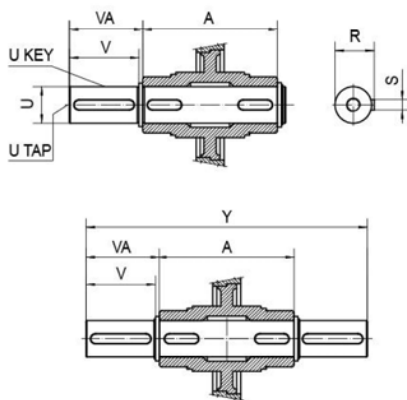
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18.3 UDL安装方位图 / UDL Installation positions diagram

B3	B6S	V1	V3	V5	V6		
							
B8	B6D						
		接线盒位置 Pos. of terminal box					
B5	手轮位置 Pos. of hand wheel		接线盒位置 Pos. of terminal box				
							

- 如对接线盒位置有特殊要求，请在下单时如上图所示来指定接线盒安装方位，否则接线盒的位置按标准位置1形式提供。
- 如没有特殊要求，一般按出厂的标准位置B3或B5形式提供。
- 如需要特殊的安装位置，请与我们技术服务人员联系。

- For special requirements, orders must specify the position of the terminal box with reference to the diagram. Unless otherwise specified the terminal box, the position of that will be mounted as shown in the diagram for the mounting position.
- Unless specified otherwise, the standard positions are B3 or B5.
- For positions not envisaged, it is necessary to call our Technical Service.



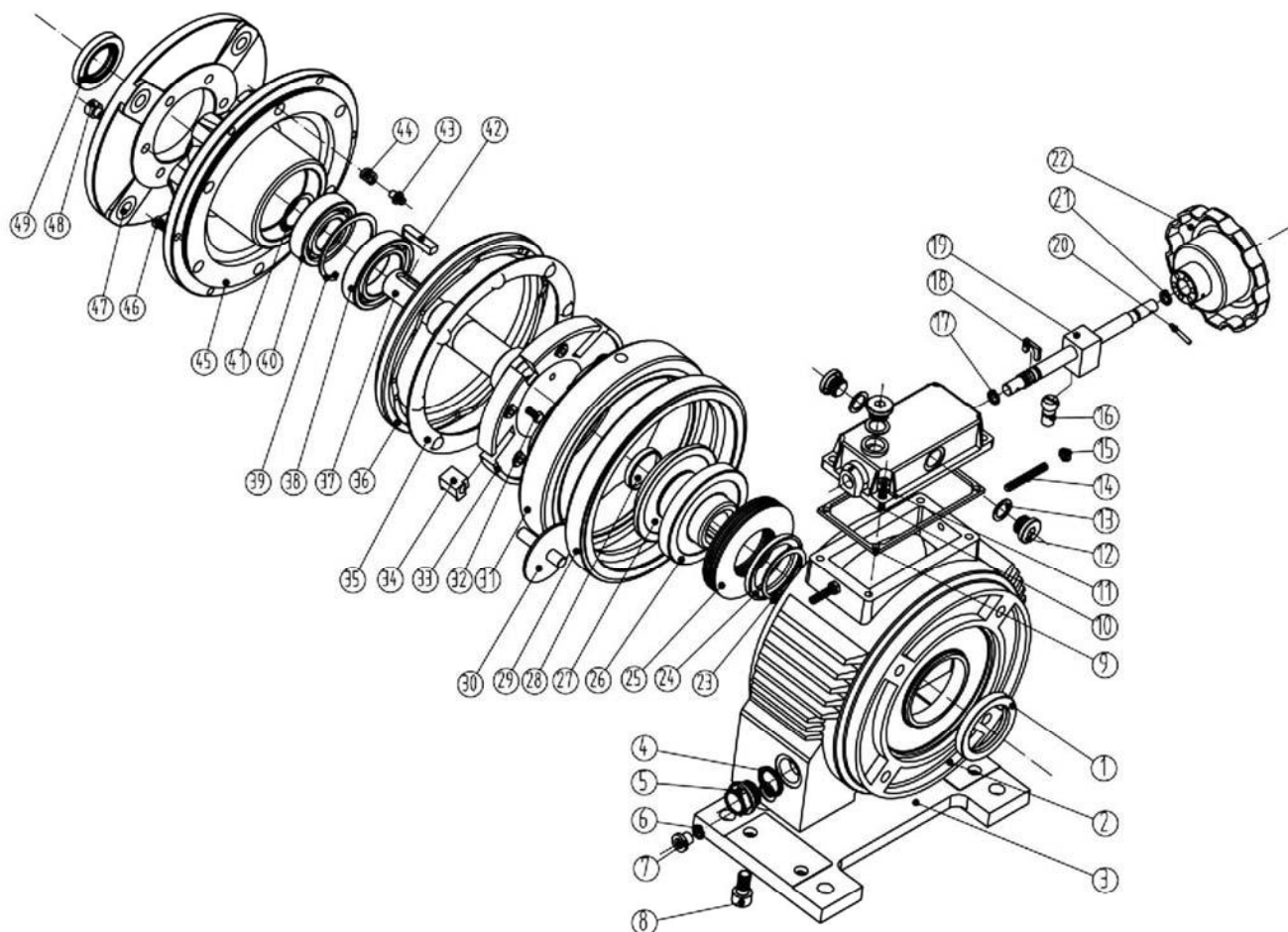
	U(h6)	V	VA	A	Y	U KEY	U TAP	R	S
030	0.625 ⁰ _{-0.0005}	1.57	1.67	2.48	5.82	0.1875x1.125	1/4-20	0.7	0.1875
040	0.75 ⁰ _{-0.0005}	1.97	2.09	3.07	7.25	0.1875x1.5	1/4-20	0.83	0.1875
050	1.0 ⁰ _{-0.0005}	1.97	2.11	3.62	7.84	0.25x1.5	3/8-16	1.11	0.25
063	1.125 ⁰ _{-0.0005}	2.36	2.5	4.41	9.41	0.25x1.875	3/8-16	1.23	0.25
075	1.25 ⁰ _{-0.0005}	2.76	2.89	4.72	10.5	0.25x2.25	1/2-13	1.36	0.25
090	1.375 ⁰ _{-0.0005}	3.15	3.33	5.51	12.17	0.3125x2.5	1/2-13	1.51	0.3125
110	1.625 ⁰ _{-0.0005}	3.54	3.72	6.1	13.54	0.375x2.75	5/8-11	1.79	0.375
130	1.75 ⁰ _{-0.0005}	3.54	3.74	6.69	14.17	0.375x2.75	5/8-11	1.92	0.375
150	2.0 ⁰ _{-0.0005}	3.94	4.13	7.87	16.13	0.50x3.50	3/4-10	2.22	0.500

28. 润滑油加注量 / Lubricant fill quantity

单位: 升 (L)

	B3	B6	B7	B8	V1、V5	V3、V6
SMRV 025	0.02					
SMRV 030	0.05					
SMRV 040	0.10					
SMRV 050	0.15					
SMRV 063	0.30					
SMRV 075	0.50					
SMRV 090	1.00					
SMRV 110	3.00	2.50	2.50	2.20	3.00	2.20
SMRV 130	4.50	3.50	3.50	3.30	4.50	3.30
SMRV 150	7.00	5.40	5.40	5.10	7.00	5.10
PC 063	0.05					
PC 071	0.07					
PC 080	0.15					
PC 090	0.16					
UDL 0.18	0.13				0.20	
UDL 0.37	0.15				0.25	
UDL 0.55	0.33				0.45	
UDL 0.75	0.33				0.45	
UD 1.10	0.80				1.00	
UD 1.50	0.80				1.00	
UD 2.20	1.20				1.20	
UD 3.00	1.20				1.20	
UD 4.00	1.20				1.20	

30. UDL无级变速器爆炸视图及名称/ Endless Transmission View & Name of Part



1. 油封 Oil seal
2. 箱体 Variator casing
3. 底脚 Foot
4. O型圈 O-ring
5. 油镜 Oil level plug
6. O型圈 O-ring
7. 油塞 Oil drain plug
8. 内六角螺钉 Inner hex screw
9. 操作盒垫片 control cover seal
10. 操作盒 control cover
11. 内六角螺钉 Inner hex screw
12. 油塞 Oil drain plug
13. O型圈 O-ring
14. 限位螺丝 Limit screw
15. 螺母 Slotted head nut
16. 球头螺丝 Ball head screw
17. O型圈 O-ring

18. 挡圈 Circlip
19. 操作块 Control block
20. 弹性销 Stitch pin
21. O型圈 O-ring
22. 手轮 Handwheel
23. 挡圈 Circlip
24. 碟簧挡圈 Spring holder ring
25. 碟型弹簧 Belleville spring
26. 太阳轮片 Sun wheel piece
27. 太阳轮 Sun wheel
28. 堵盖 Black cover
29. 固定轨 Fixed orbit
30. 行星轮 Planet disk
31. 滑动轨 Glide orbit
32. 六角头螺丝 Hexagon head screw
33. 行星架 Planet carrier

34. 滑块 Glide block
35. 钢球环 Ball ring holder
36. 调整轨 Adjustable orbit
37. 输出轴 Output shaft
38. 轴承 Bearing
39. 挡圈 Circlip
40. 轴承 Bearing
41. 挡圈 Circlip
42. 平键 Key
43. 圆柱销 Columnar pin
44. 弹簧 Spring
45. 输出端盖 Output cover
46. 内六角螺钉 Inner hex screw
47. 输出法兰 Output flange
48. 内六角螺钉 Inner hex screw
49. 油封 Oil seal



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31. 润滑油的选择 / Choice of lubricant

		UDL系列无级变速器 UDLseries speed variator	SMRV 系列蜗轮减速器 SMRV series worm gear speed reducer			
			SMRV025-090	SMRV110-150		
	润滑油 Lubricant	Synthetic	Synthetic	Synthetic	Mineral	
	环境温度 Ambient Temperature	-25℃~+40℃	-25℃~+50℃	-25℃~+50℃	-5℃~+40℃	-15℃~+25℃
ISO		VG32	VG320	VG320	VG460	VG220
国内使用 Domestic market		Ub-1 Ub-3	CKE320	CKE320		
国外使用 Used in foreign countries		TRANSMISSION V.E.A.T.F.D EXRON FLUID	TELIUN VSF	MELLANA OIL 320	MELLANA OIL 460	MELLANA OIL 220
		A.T.F.D EXRON	TIVELA OIL SC320	OMALA OIL 320	OMALA OIL 460	OMALA OIL 220
		A.T.F.D EXRON	BLASIA S320	BLASIA320	BLASIA460	BLASIA220
		A.T.F.D EXRON	S220	S220	SPARTAN EP460	SPARTAN EP220
		A.T.F.220	GLYGOYLE30	MOBIL GEAR 320	MOBIL GEAR 634	MOBIL GEAR 630
		TQ.DEXRON II	ALPHASYN PG 320	ALPHASYN PG 320	ALPHA MAX460	ALPHA MAX220
		AUTRAN DX	ENERGOL SG-XP320	ENERGOL SG-XP320	ENERGOL SG-XP460	ENERGOL SG-XP220



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