RV系列蜗轮减速器
RV series worm gear speed reducer

蜗轮减速器简介
Brief introduction to RV series worm gear speed reducer



NMRV系列蜗轮减速机是我公司在不断完善系列产品的基础上研制的新一代实用性产品。国内外先进技术的融合，赋予它以下主要特点：

1、优质铝合金铸造，重量轻，不生锈。
2、输出扭矩大。
3、传动平稳，噪音小。
4、散热效率高。
5、美观耐用，体积小。
6、可适应全方位安装。

NMRV series worm-gear speed reducer is a new-generation of products developed by our company with combination of advanced technology both at home and abroad.It features in:

1、Aluminium alloy die-cast casing for RV025,030, 040,050,063,075,090,light weight and non-rusting; cast iron casing for RV110, 130,150.
2、Large output torque.
3、Stable transmission with lower noise.
4、High heat-radiating efficiency.
5、Elegant shape,small volume and durable serving life.
6、Suitable for omnibearing installation.

型号标记
Model & mark

NMRV 063-40 E F1 AZ B3

- B3 安装方位代号 Installation position code
- AZ 带双向输出轴，标注 "GZ"为带单向输出轴，不标准注时为孔输出
  "AZ" means bidirectional output shaft, "GZ" means unilateral output shaft and no mark means hole output.
- F1 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, no mark means output without flange
- E 带蜗杆同向输出轴，不标准时不带蜗杆同向输出轴
  "E" means double extension worm shaft, no mark means single extension worm shaft
- 40 蜗轮减速器速比 Speed ratio of worm-gear speed reducer
- 063 蜗轮减速器中心距 Distance between the centers of worm and worm gear
- NMRV 蜗轮减速器代号 Mark of worm gear speed reducer
  NMRV 为带输入法兰孔输入，NRV为不带输入法兰轴输入
  NMRV means hole input with flange; NRV means shaft input without flange

蜗轮减速器性能参数
Performance parameter for worm gear speed reducer

	型号 Model	I	n2r/min	M2 N.M
0.06kw 4p n1=1400r/min	NMRV025	7.5	186	2.6
	NMRV030	7.5	186	2.6
	NMRV025	10	140	3.4
	NMRV030	10	140	3.4
	NMRV025	15	94	4.9
	NMRV030	15	94	4.7
	NMRV025	20	70	6.1
	NMRV030	20	70	6
	NMRV030	25	56	7
	NMRV025	30	47	8.2
	NMRV030	30	47	8
	NMRV025	40	35	10.2
	NMRV030	40	35	9.7
	NMRV025	50	28	11
	NMRV030	50	28	11.3
	NMRV040	50	28	12.7
	NMRV025	60	24	11
	NMRV030	60	24	12.5
	NMRV040	60	24	14.2
	NMRV030	80	18	12.5
	NMRV040	80	18	17
	NMRV040	100	14	19.2
0.09kw 4p n1=1400r/min	NMRV025	7.5	186	3.9
	NMRV030	7.5	186	3.9
	NMRV025	10	140	5.1
	NMRV030	10	140	5
	NMRV025	15	94	7.3
	NMRV030	15	94	7.1
	NMRV025	20	70	9.2
	NMRV030	20	70	9
	NMRV030	25	56	10.4
	NMRV025	30	47	12.3
	NMRV025	30	47	12
	NMRV025	40	35	13
	NMRV030	40	35	14.5
	NMRV030	50	28	16.9
	NMRV040	50	28	19
	NMRV030	60	24	16.9
	NMRV040	60	24	21.4
	NMRV040	80	18	25.5
	NMRV040	100	14	28.9
0.12kw 4p n1=1400r/min	NMRV030	7.5	186	5.21
	NMRV040	7.5	186	5.3
	NMRV030	10	140	6.7
	NMRV040	10	140	7
	NMRV030	15	94	9.5
	NMRV040	15	94	10.1
	NMRV030	20	70	12
	NMRV040	20	70	12.8
	NMRV030	25	56	13.9
	NMRV040	25	56	15.3
	NMRV030	30	47	16
	NMRV040	30	47	17.2
	NMRV030	40	35	17
	NMRV040	40	35	21.3
	NMRV050	40	35	21.9
	NMRV040	50	28	25.4
	NMRV050	50	28	25.8
	NMRV040	60	24	28.5

	型号 Model	I	n2r/min	M2N.M
0.12kw 4p n1=1400r/min	NMRV050	60	24	29
	NMRV040	80	18	34.1
	NMRV050	80	18	34.7
	NMRV050	100	14	40.1
0.18kw 4p n1=1400r/min	NMRV030	7.5	186	8
	NMRV040	7.5	186	8
	NMRV030	10	140	10
	NMRV040	10	140	10
	NMRV030	15	94	14
	NMRV040	15	94	15
	NMRV030	20	70	18
	NMRV040	20	70	19
	NMRV030	25	56	20
	NMRV040	25	56	23
	NMRV040	30	47	26
	NMRV040	40	35	32
	NMRV050	40	35	32
	NMRV040	50	28	38
	NMRV050	50	28	38
	NMRV050	60	24	34
	NMRV050	80	18	53
	NMRV050	100	14	55
0.25kw 4p n1=1400r/min	NMRV040	7.5	186	11
	NMRV050	7.5	186	11
	NMRV040	10	140	14
	NMRV050	10	140	14
	NMRV040	15	94	20
	NMRV050	15	94	21
	NMRV040	20	70	26
	NMRV050	20	70	26
	NMRV040	25	56	31
	NMRV050	25	56	32
	NMRV040	30	47	36
	NMRV050	30	47	36
	NMRV040	40	35	44
	NMRV050	40	35	45
	NMRV050	50	28	53
	NMRV050	60	24	60
	NMRV050	80	18	65
	NMRV063	80	18	77
	NMRV050	100	14	55
	NMRV063	100	14	85
0.37kw 4p n1=1400r/min	NMRV040	7.5	186	16
	NMRV050	7.5	186	16
	NMRV040	10	140	21
	NMRV050	10	140	21
	NMRV040	15	94	30
	NMRV050	15	94	31
	NMRV040	20	70	39
	NMRV050	20	70	39
	NMRV050	25	56	47
	NMRV050	30	47	54
	NMRV050	40	35	66
	NMRV063	40	35	70
	NMRV050	50	28	73
	NMRV063	50	28	83
	NMRV063	60	24	95
	NMRV063	80	18	114
	NMRV063	100	14	118

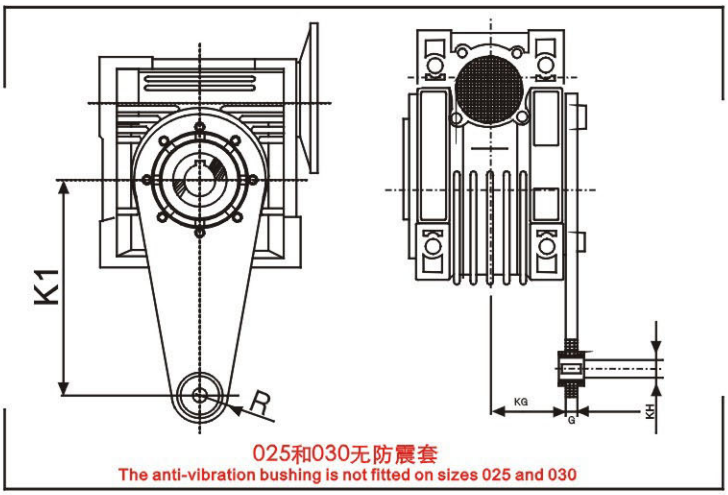
蜗轮减速器性能参数
Performance parameter for RV series worm gear speed reducer

	型号Model	I	n2r/min	M2 N.M
0.55kw 4p n1=1400r/min	NMRV050	7.5	186	25
	NMRV050	10	140	32
	NMRV050	15	94	46
	NMRV063	15	94	46
	NMRV050	20	70	59
	NMRV063	20	70	60
	NMRV063	25	56	72
	NMRV063	30	47	80
	NMRV063	40	35	104
	NMRV075	40	35	108
	NMRV063	50	28	123
	NMRV075	50	28	129
	NMRV075	60	24	146
	NMRV075	80	18	180
	NMRV075	100	14	180
0.75kw 4p n1=1400r/min	NMRV050	7.5	186	34
	NMRV063	7.5	186	33
	NMRV050	10	140	44
	NMRV063	10	140	44
	NMRV050	15	94	63
	NMRV063	15	94	63
	NMRV063	20	70	82
	NMRV063	25	56	99
	NMRV063	30	47	109
	NMRV075	30	47	116
	NMRV063	40	35	143
	NMRV075	40	35	147
	NMRV075	50	28	176
	NMRV090	50	28	184
	NMRV075	60	24	200
	NMRV090	60	24	212
	NMRV090	80	18	257
	NMRV090	100	14	270
1.1kw 4p n1=1400r/min	NMRV063	7.5	186	49
	NMRV075	7.5	186	49
	NMRV063	10	140	65
	NMRV075	10	140	66
	NMRV063	15	94	93
	NMRV075	15	94	95
	NMRV063	20	70	121
	NMRV075	20	70	122
	NMRV075	25	56	149
	NMRV075	30	47	170
	NMRV075	40	35	216
	NMRV090	40	35	225
	NMRV090	50	28	271
	NMRV090	60	24	311
	NMRV110	60	24	324
	NMRV110	80	18	410
	NMRV110	100	14	460
1.5kw 4p n1=1400r/min	NMRV075	7.5	186	67
	NMRV075	10	140	90
	NMRV075	15	94	130
	NMRV075	20	70	167
	NMRV075	25	56	200
	NMRV090	25	56	209
	NMRV075	30	47	230
	NMRV090	30	47	236
	NMRV090	40	35	306
	NMRV090	50	28	369
	NMRV110	50	28	375
	NMRV110	60	24	442
	NMRV110	80	18	490
	NMRV130	80	18	547
	NMRV130	100	14	652
2.2kw 4p n1=1400r/min	NMRV090	7.5	186	101
	NMRV110	7.5	186	101
	NMRV090	10	140	133
	NMRV110	10	140	133

	型号Model	I	n2r/min	M2 N.M
2.2kw 4p n1=1400r/min	NMRV090	15	94	193
	NMRV110	15	94	193
	NMRV090	20	70	251
	NMRV110	20	70	256
	NMRV090	25	56	307
	NMRV110	25	56	316
	NMRV090	30	47	346
	NMRV110	30	47	355
	NMRV110	40	35	462
	NMRV110	50	28	550
	NMRV130	50	28	567
	NMRV130	60	24	660
	NMRV130	80	18	803
	NMRV150	50	28	570
	NMRV150	60	23.3	657
	NMRV150	80	17.5	816
	NMRV150	100	14	960
3.0kw 4p n1=1400r/min	NMRV110	7.5	186	138
	NMRV110	10	140	182
	NMRV110	15	94	263
	NMRV110	20	70	350
	NMRV110	25	56	431
	NMRV110	30	47	484
	NMRV110	40	35	631
	NMRV130	40	35	642
	NMRV130	50	28	773
	NMRV130	60	24	900
	NMRV150	50	28	570
	NMRV150	60	23.3	896
	NMRV150	80	17.5	1110
4.0kw 4p n1=1400r/min	NMRV110	7.5	186	184
	NMRV130	7.5	186	186
	NMRV110	10	140	243
	NMRV130	10	140	242
	NMRV110	15	94	352
	NMRV130	15	94	357
	NMRV110	20	70	464
	NMRV130	20	70	466
	NMRV110	25	56	573
	NMRV130	25	56	572
	NMRV110	30	47	646
	NMRV130	30	47	655
	NMRV130	40	35	857
	NMRV130	50	28	980
	NMRV150	50	28	1023
	NMRV150	60	23.3	1195
5.5kw 4p n1=1400r/min	NMRV110	7.5	186	253
	NMRV130	7.5	186	256
	NMRV110	10	140	334
	NMRV130	10	140	334
	NMRV110	15	94	484
	NMRV130	15	94	490
	NMRV130	20	70	645
	NMRV130	25	56	788
	NMRV130	30	47	900
	NMRV150	20	70	645
	NMRV150	25	56	788
	NMRV150	30	46.7	934
	NMRV150	40	35	1171
7.5kw 4p n1=1400r/min	NMRV110	7.5	186	345
	NMRV130	7.5	186	349
	NMRV110	10	140	455
	NMRV130	10	140	455
	NMRV130	15	94	667
	NMRV130	20	70	880
	NMRV130	25	56	1074
	NMRV150	20	70	880
	NMRV150	25	56	1074
11kw 4p n1=1400r/min	NMRV150	7.5	186.7	512
	NMRV150	10	140	675
	NMRV150	15	93.3	990
15kw 4p n1=1400r/min	NMRV150	7.5	186.7	698
	NMRV150	10	140	921

附件尺寸图表 Accessories outline dimension sheet

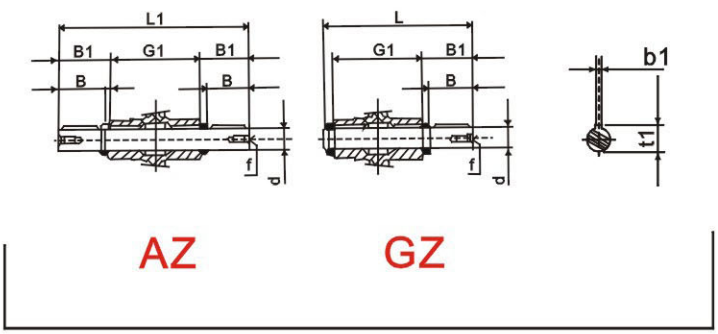
1、扭力臂 Torque Arm



025和030无防震套
The anti-vibration bushing is not fitted on sizes 025 and 030

	K1	G	KG	KH	R
025	70	14	17.5	8	15
030	85	14	24	8	15
040	100	14	31.5	10	18
050	100	14	38.5	10	18
063	150	14	49	10	18
075	200	25	47.5	20	30
090	200	25	57.5	20	30
110	250	30	62	25	35
130	250	30	69	25	35
150	250	30	84	25	35

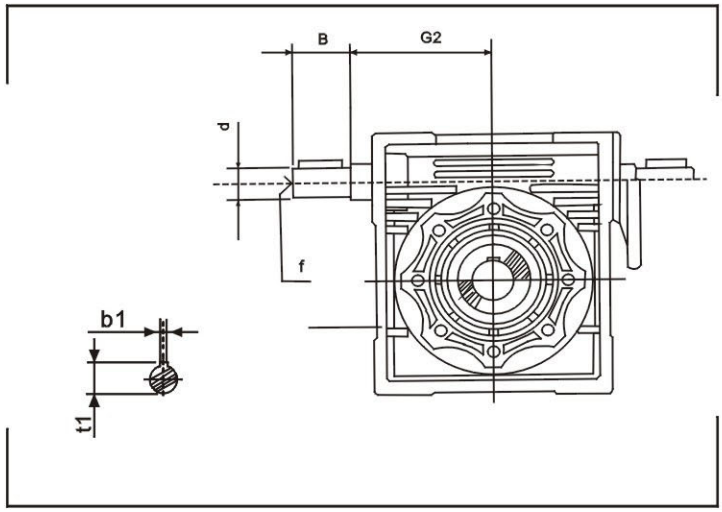
2、单向、双向输出轴尺寸 Sizes of single extension & Double extension



AZ GZ

	d(h6)	B	B1	G1	L	L1	f	b1	t1
025	11	23	25.5	50	81	101	-	4	12.5
030	14	30	32.5	63	102	128	M6	5	16
040	18	40	43	78	128	164	M6	6	20.5
050	25	50	53.5	92	153	199	M10	8	28
063	25	50	53.5	112	173	219	M10	8	28
075	28	60	63.5	120	192	247	M10	8	31
090	35	80	84.5	140	234	309	M12	10	38
110	42	80	84.5	155	249	324	M16	12	45
130	45	80	85	170	265	340	M16	14	48.5
150	50	82	87	200	297	374	M16	14	53.5

蜗杆同向输出轴尺寸（E） Double extension worm shaft



	G2	d(j6)	B	f	b1	t1
025	37	9	20	-	3	10.2
030	45	9	20	-	3	10.2
040	53	11	23	-	4	12.5
050	64	14	30	M6	5	16
063	75	19	40	M6	6	21.5
075	90	24	50	M8	8	27
090	108	24	50	M8	8	27
110	135	28	60	M10	8	31
130	155	30	80	M10	8	33
150	175	35	80	M12	10	38

使用与保障 Operation & maintenance

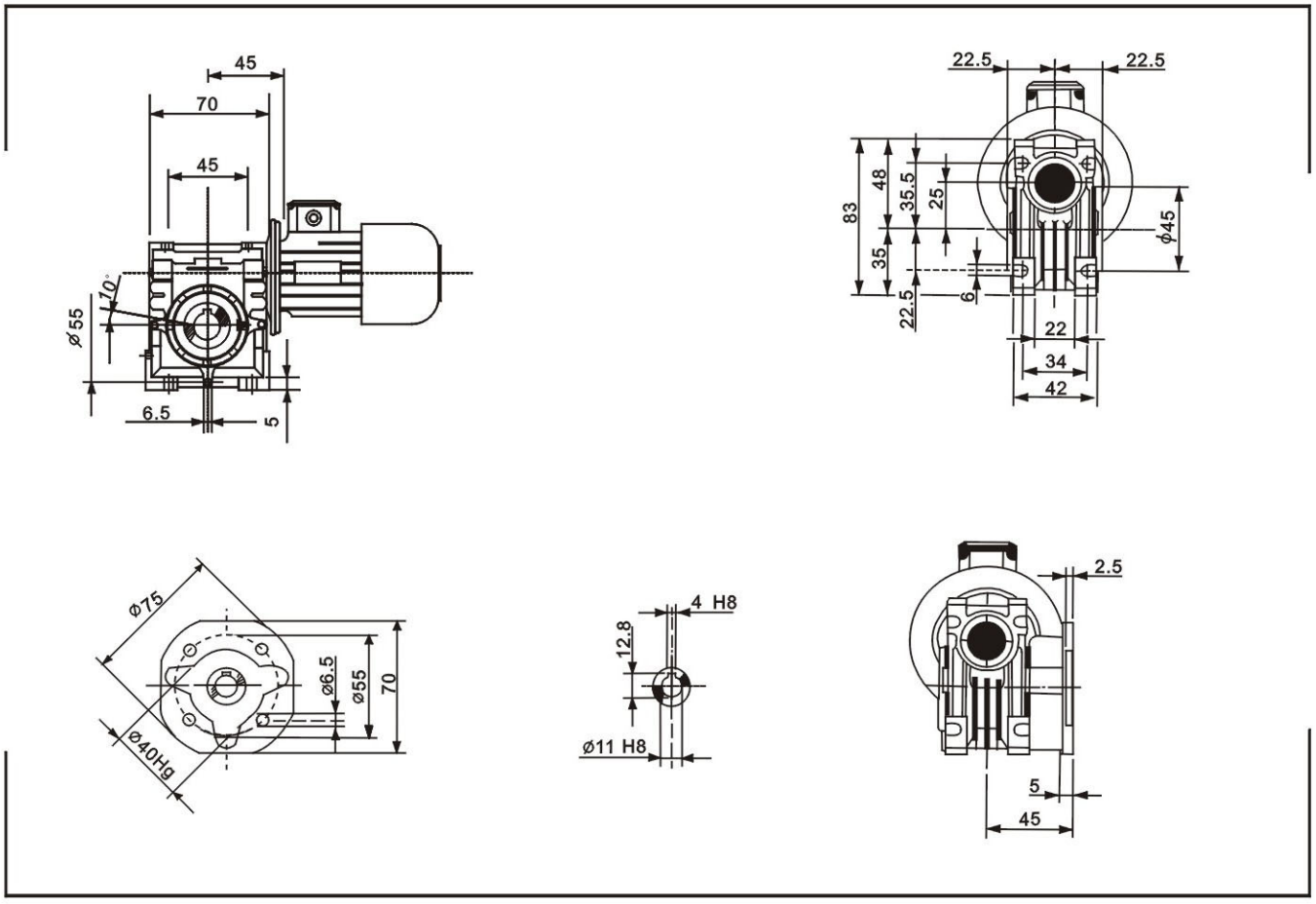
1、蜗轮减速器开始运行400小时，应重新更换润滑油。以后的换油周期约为4000小时。出厂时已加WA460润滑油。
2、箱体内应保留足够的润滑油，并定时检查。

1、When worm gear speed reducer starts to work up to 200—400 hours,its lubricant should be replaced, and in the future,the cycle of the oil replacement should be fixed about 4,000 hours.The gearbox is fully filled with lubricant oil:WA460,When finished infactory.
2、Lubricating oil should be kept enough in the casing and checked at a fixed time.

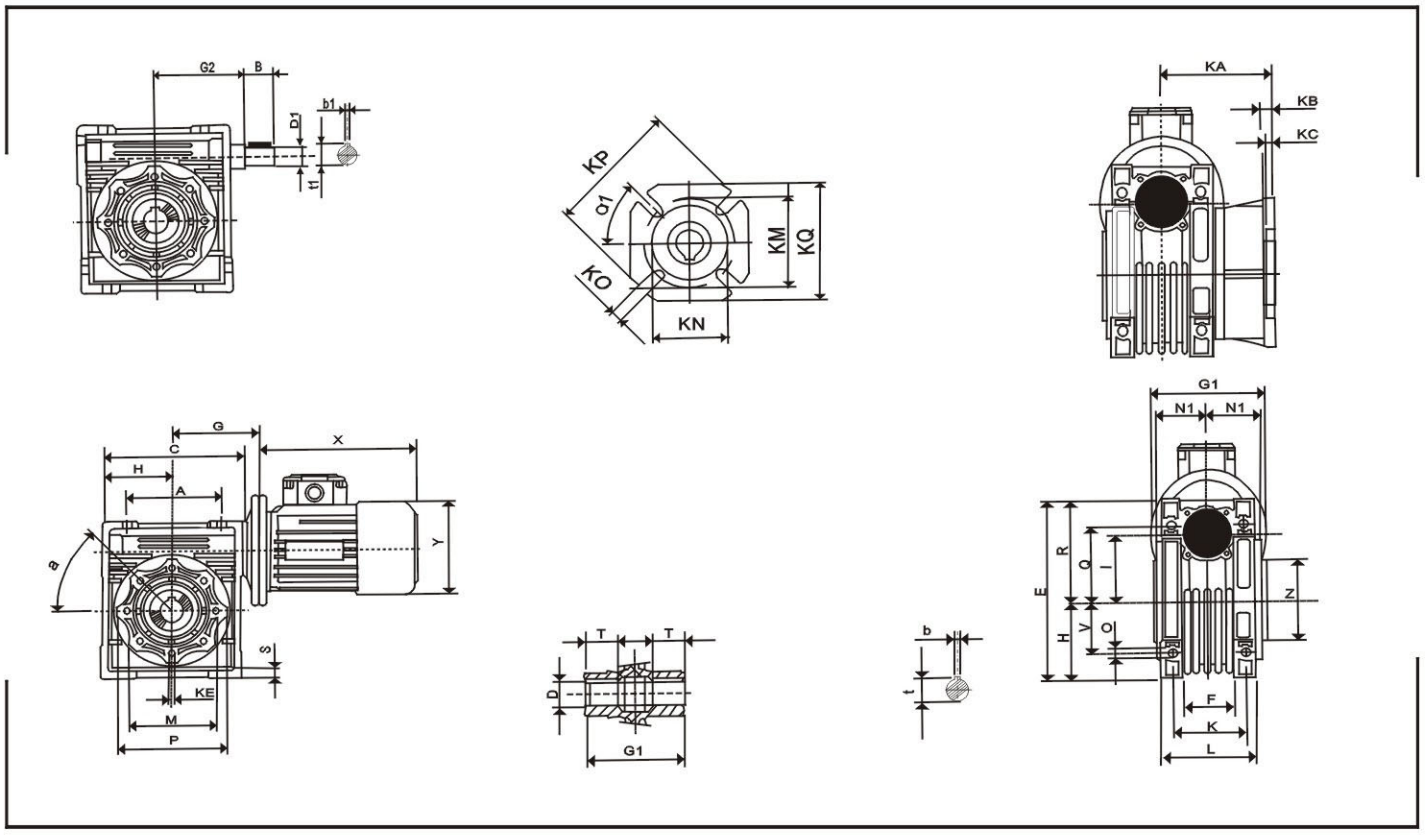
润滑用油（升）Q.ty of oil in litres

NMRV	025	030	040	050	063	075	090	110	130	150
B3	0.02	0.04	0.1	0.15	0.3	0.55	1	3	4.5	7.9
B8								2.2	3.3	6.5
B6 B7								2.5	3.5	6.5
V5 V6								3	4.5	7.9

NMRV025蜗轮减速器外形及安装
Outiline & installation dimensions for NMRV025 worm-gear speed reducer



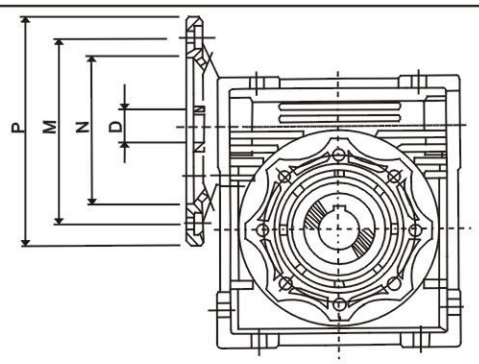
NMRV系列蜗轮减速器外形及安装尺寸
Outline & installation dimensions size for NMRV series worm-gear speed reducer



	A	B	C	D (H7)	D1 (J6)	E	F	G	G1	G2	H	I	L	M	M (h8)	N1	O	P	Q	R	S	T	V	K
030	54	20	80	14	9	97	32	55	63	51	40	30	56	65	55	29	6.5	75	44	57	5.5	21	27	44
040	70	23	100	18 (19)	11	121.5	43	70	78	65	50	40	71	75	60	36.5	6.5	87	55	71.5	6.5	26	35	60
050	80	30	120	25 (24)	14	144	49	80	92	74	60	50	85	85	70	43.5	8.5	100	64	84	7	30	40	70
063	100	40	144	25 (28)	19	174	67	95	112	90	72	63	103	95	80	53	8.5	110	80	102	8	36	50	85
075	120	50	172	28 (35)	24	205	72	112.5	120	105	86	75	112	115	95	57	11	140	93	119	10	40	60	90
090	140	50	208	35 (38)	24	238	74	129.5	140	125	103	90	130	130	110	67	13	160	102	135	11	45	70	100
110	170	60	252.5	42	28	295	-	160	155	142	127.5	110	144	165	130	74	14	200	125	167.5	14	50	85	115
130	200	80	292.5	45	30	335	-	180	170	162	147.5	130	155	215	180	81	16	250	140	187.5	15	60	100	120
150	240	80	340	50	35	400	-	210	200	192	170	150	185	215	180	96	18	250	180	230	18	72.5	120	145

	KA			KB			KC			KE	a	a1	KM			KN(H8)			KO			KP			KQ			b	b1	f	t	t1	kg
	F	FB	FL	F	FB	FL	F	FB	FL				F	FB	FL	F	FB	FL	F	FB	FL	F	FB	FL	F	FB	FL						
030	54.5	-	-	6	-	-	4	-	-	M6×11(n.4)	0°	45°	68	-	-	50	-	-	6.5(n.4)	-	-	80	-	-	70	-	-	5	3	-	16.3	10.2	1.2
040	67	76.5	97	7	9	7	4	5	4	M6×6(n.4)	45°	45°	87	115	87	60	95	60	9(n.4)	9.5(n.4)	9(n.4)	110	140	110	95	-	95	6(6)	4	-	20.8(21.8)	12.5	2.3
050	90	87.5	120	9	10	9	5	5	5	M8×10(n.4)	45°	45°	90	130	90	70	110	70	11(n.4)	9.5(n.4)	11(n.4)	125	160	125	110	-	110	8(8)	5	M6	28.3(27.3)	16.0	3.5
063	82	99	112	10	11	10	6	5	6	M8x14 (n,8)	45°	45°	150	165	150	115	130	115	11(n,4)	11(n,4)	11(n,4)	180	200	180	142	-	142	8(8)	6	M6	28.3(31.3)	21.5	6.2
075	111	-	-	13	-	-	6	-	-	M8×14(n.8)	45°	45°	165	-	-	130	-	-	14(n.4)	-	-	200	-	-	170	-	-	8(10)	8	M8	31.3(38.3)	27.0	9
090	111	-	-	13	-	-	6	-	-	M10×18(n.8)	45°	45°	175	-	-	152	-	-	14(n.4)	-	-	210	-	-	200	-	-	10(10)	8	M8	38.3(41.3)	27.0	13
110	131	-	-	15	-	-	6	-	-	M10×18(n.8)	45°	45°	230	-	-	170	-	-	14(n.4)	-	-	280	-	-	260	-	-	12	8	M10	45.3	31.0	35
130	140	-	-	15	-	-	6	-	-	M12×21(n.8)	45°	22.5°	255	-	-	180	-	-	16(n.4)	-	-	320	-	-	290	-	-	14	8	M10	48.8	33.0	48
150	155	-	-	15	-	-	6	-	-	M12×21(n.8)	45°	22.5°	255	-	-	180	-	-	16(n.8)	-	-	320	-	-	290	-	-	14	10	M12	53.8	38.0	84

电机直联尺寸（V）
Motor mounting specifications



IEC接口 IEC motor adapters					i 传动比 Transmission ratio											
	PAM IEC	N	M	P	5	7.5	10	15	20	25	30	40	50	60	80	100
					D											
NMRV025	56B14	50	65	80	-	9	9	9	9	-	9	9	9	9	-	-
NMRV030	63B5	95	115	140	11	11	11	11	11	11	11	11	11	-	-	-
	63B14	60	75	90												
	56B5	80	100	120	9	9	9	9	9	9	9	9	9	9	9	-
	56B14	50	65	80												
NMRV040	71B5	110	130	160	14	14	14	14	14	14	14	14	-	-	-	-
	71B14	70	85	105												
	63B5	95	115	140	11	11	11	11	11	11	11	11	11	11	11	11
	63B14	60	75	90												
	56B5	80	100	120	-	-	-	-	-	-	-	-	9	9	9	9
NMRV050	80B5	130	165	200	19	19	19	19	19	19	19	-	-	-	-	-
	80B14	80	100	120												
	71B5	110	130	160	14	14	14	14	14	14	14	14	14	14	14	14
	71B14	70	85	105												
	63B5	95	115	140	-	-	-	-	-	-	-	11	11	11	11	11
NMRV063	90B5	130	165	200	24	24	24	24	24	24	24	-	-	-	-	-
	90B14	95	115	140												
	80B5	130	165	200	19	19	19	19	19	19	19	19	19	19	-	-
	80B14	80	100	120												
	71B5	110	130	160	-	-	-	-	-	-	-	14	14	14	14	14
	71B14	70	85	105												
NMRV075	100/112B5	180	215	250	-	28	28	28	-	-	-	-	-	-	-	-
	100/112B14	110	130	160												
	90B5	130	165	200	-	24	24	24	24	24	24	24	-	-	-	-
	90B14	95	115	140												
	80B5	130	165	200	-	-	-	19	19	19	19	19	19	19	19	19
	80B14	80	100	120												
	71B5	110	130	160	-	-	-	-	-	-	-	-	14	14	14	14
NMRV090	100/112B5	180	215	250	-	28	28	28	28	28	28	-	-	-	-	-
	100/112B14	110	130	160												
	90B5	130	165	200	-	24	24	24	24	24	24	24	24	24	-	-
	90B14	95	115	140												
	80B5	130	165	200	-	-	-	-	-	-	-	19	19	19	19	19
	80B14	80	100	120												
NMRV110	132B5	230	265	300	-	38	38	38	38	-	-	-	-	-	-	-
	132B14	130	165	200												
	100/112B5	180	215	250	-	28	28	28	28	28	28	28	28	28	-	-
	100/112B14	110	130	160												
	90B5	130	165	200	-	-	-	-	-	24	24	24	24	24	24	24
	80B5	130	165	200	-	-	-	-	-	-	-	-	-	-	19	19
NMRV130	132B5	230	265	300	-	38	38	38	38	38	38	38	-	-	-	-
	132B14	230	265	300												
	100/112B5	180	215	250	-	-	-	-	-	28	28	28	28	28	28	28
	100/112B14	110	130	160												
	90B5	130	165	200	-	-	-	-	-	-	-	-	-	-	24	24
NMRV150	160B5	250	300	350	-	42	42	42	42	-	-	-	-	-	-	-
	132B5	230	265	300	-	-	-	-	38	38	38	38	38	-	-	-
	100/112B5	180	215	250	-	-	-	-	-	-	-	-	28	28	28	28