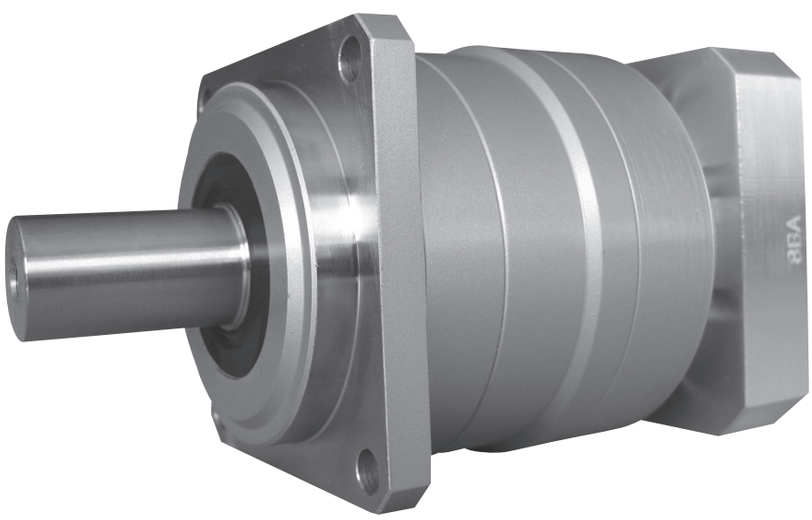
SHIMPO

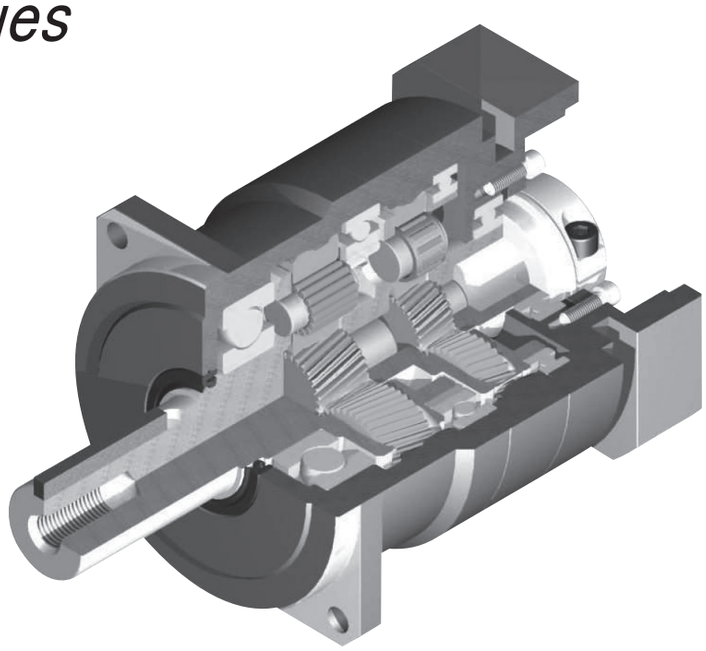
For servo motor

ABLE REDUCER

VRB Series



VRB series



Quiet operation

Helical gears contribute to reduce vibration and noise.

High precision

Standard backlash is 3 arc-min, ideal for precision control.

High rigidity & torque

High rigidity & high torque were achived by uncaged needle roller bearings.

Adapter-bushing connection

Can be attached to any motor all over the world.

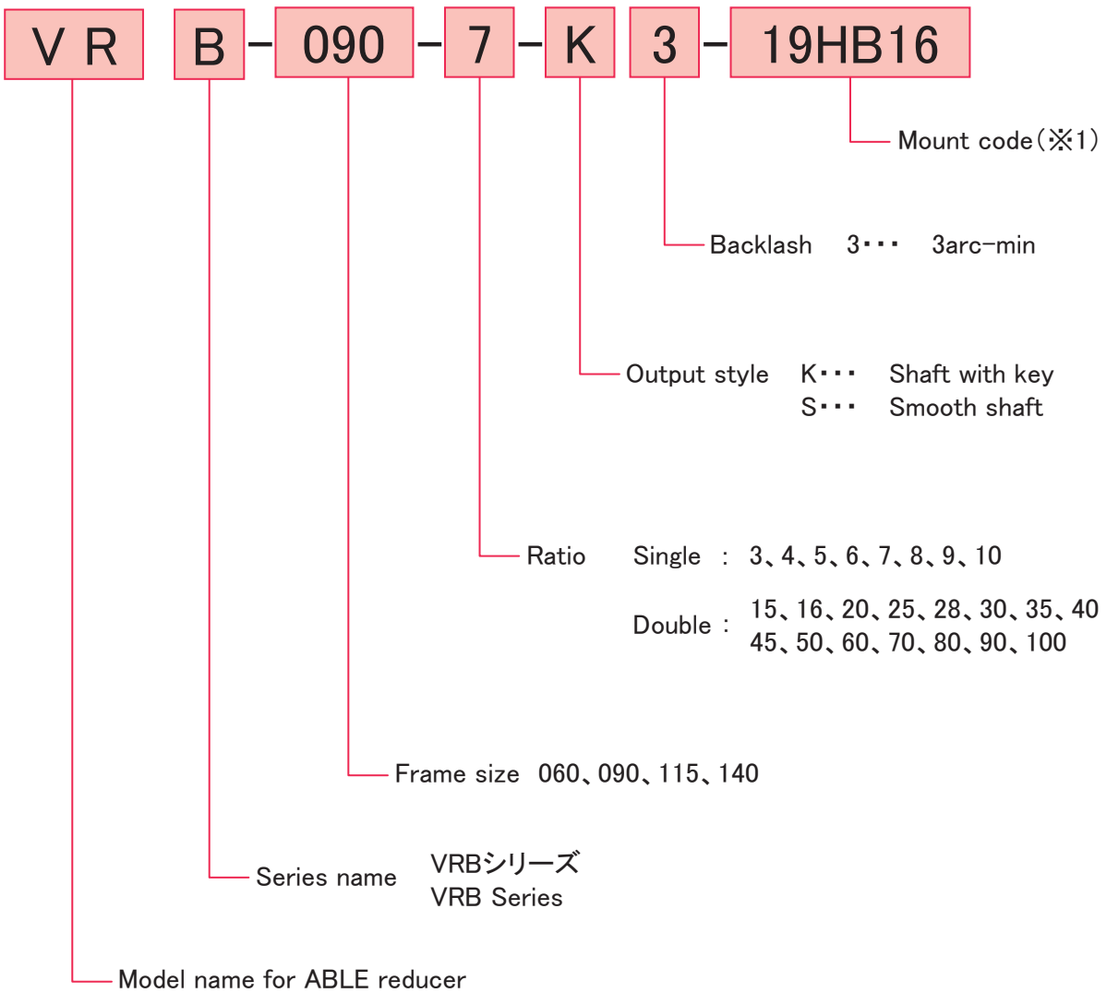
No grease leakage

Perfect solution using high viscosity anti-separation grease.

Maintenance-free

No need to replace the grease for the life of the unit.
Can be attached in any position.

VRB series



※1 Mount code

Mount code varies depending on the motor.
Please refer to reducer selection tool or contact us for more information.

Selection tool (English)
(http://www.nidec-shimpo.co.jp/selection/eng/)

Performance table

VRB-060

Frame size	Stage	Ratio	※1 Nominal output torque [Nm]	※2 Maximum output torque [Nm]	※3 Emergency stop torque [Nm]	※4 Nominal input speed [rpm]	※5 Maximum input speed [rpm]	※6 Permitted radial load [N]	※7 Permitted axial load [N]
060	Single	3	18	35	80	3000	6000	430	310
		4	27	50	100	3000	6000	470	360
		5	27	50	100	3000	6000	510	390
		6	27	50	100	3000	6000	540	430
		7	27	50	100	3000	6000	570	460
		8	27	50	100	3000	6000	600	480
		9	18	35	80	3000	6000	620	510
		10	18	35	80	3000	6000	640	530
	Double	15	18	35	80	3000	6000	740	630
		16	27	50	100	3000	6000	750	650
		20	27	50	100	3000	6000	810	720
		25	27	50	100	3000	6000	870	790
		28	27	50	100	3000	6000	910	830
		30	18	35	80	3000	6000	930	860
		35	27	50	100	3000	6000	980	920
		40	27	50	100	3000	6000	1000	970
		45	18	35	80	3000	6000	1100	1000
		50	27	50	100	3000	6000	1100	1100
		60	27	50	100	3000	6000	1200	1100
		70	27	50	100	3000	6000	1200	1100
		80	27	50	100	3000	6000	1200	1100
		90	18	35	80	3000	6000	1200	1100
		100	18	35	80	3000	6000	1200	1100

Frame size	Stage	Ratio	※8 Maximum radial load [N]	※9 Maximum axial load [N]	※10 Weight [kg]	Moment of inertia (≦φ8) [kgcm^2]	Moment of inertia (≦φ14) [kgcm^2]	Moment of inertia (≦φ19) [kgcm^2]
060	Single	3	1200	1100	1.4	0.14	0.22	0.43
		4	1200	1100		0.095	0.17	0.38
		5	1200	1100		0.077	0.16	0.36
		6	1200	1100		0.068	0.15	0.36
		7	1200	1100		0.062	0.14	0.35
		8	1200	1100		0.059	0.14	0.35
		9	1200	1100		0.057	0.14	0.34
		10	1200	1100		0.056	0.14	0.34
	Double	15	1200	1100	1.6	0.055	0.14	–
		16	1200	1100		0.057	0.14	–
		20	1200	1100		0.054	0.13	–
		25	1200	1100		0.053	0.13	–
		28	1200	1100		0.055	0.14	–
		30	1200	1100		0.049	0.13	–
		35	1200	1100		0.053	0.13	–
		40	1200	1100		0.049	0.13	–
		45	1200	1100		0.053	0.13	–
		50	1200	1100		0.049	0.13	–
		60	1200	1100		0.049	0.13	–
		70	1200	1100		0.049	0.13	–
		80	1200	1100		0.049	0.13	–
		90	1200	1100		0.049	0.13	–
		100	1200	1100		0.049	0.13	–

※ 1 With nominal input speed, service life is 20,000 hours.
※ 2 The maximum torque when starting and stopping.
※ 3 The maximum torque when it receives shock (up to 1,000 times)
※ 4 The maximum average input speed.
※ 5 The maximum momentary input speed.
※ 6 With this load and nominal input speed, service life will be 20,000 hours.
(Applied to the output shaft center, at axial load 0)
※ 7 With this load and nominal input speed, service life will be 20,000 hours.
(Applied to the output side bearing, at radial load 0)
※ 8 The maximum radial load the reducer can accept.
※ 9 The maximum axial load the reducer can accept.
※10 The weight may vary slightly model to model.

VRB-090

Frame size	Stage	Ratio	※1 Nominal output torque [Nm]	※2 Maximum output torque [Nm]	※3 Emergency stop torque [Nm]	※4 Nominal input speed [rpm]	※5 Maximum input speed [rpm]	※6 Permitted radial load [N]	※7 Permitted axial load [N]
090	Single	3	50	80	200	3000	6000	810	930
		4	75	125	250	3000	6000	890	1100
		5	75	125	250	3000	6000	960	1200
		6	75	125	250	3000	6000	1000	1300
		7	75	125	250	3000	6000	1100	1300
		8	75	125	250	3000	6000	1100	1400
		9	50	80	200	3000	6000	1200	1500
		10	50	80	200	3000	6000	1200	1600
	Double	15	50	80	200	3000	6000	1400	1900
		16	75	125	250	3000	6000	1400	1900
		20	75	125	250	3000	6000	1500	2100
		25	75	125	250	3000	6000	1600	2200
		28	75	125	250	3000	6000	1700	2200
		30	50	80	200	3000	6000	1700	2200
		35	75	125	250	3000	6000	1800	2200
		40	75	125	250	3000	6000	1900	2200
		45	50	80	200	3000	6000	2000	2200
		50	75	125	250	3000	6000	2100	2200
		60	75	125	250	3000	6000	2200	2200
		70	75	125	250	3000	6000	2300	2200
		80	75	125	250	3000	6000	2400	2200
		90	50	80	200	3000	6000	2400	2200
		100	50	80	200	3000	6000	2400	2200

Frame size	Stage	Ratio	※8 Maximum radial load [N]	※9 Maximum axial load [N]	※10 Weight [kg]	Moment of inertia (≦φ8) [kgcm^2]	Moment of inertia (≦φ14) [kgcm^2]	Moment of inertia (≦φ19) [kgcm^2]	Moment of inertia (≦φ28) [kgcm^2]
090	Single	3	2400	2200	3.7	–	0.72	1.2	3.2
		4	2400	2200		–	0.49	0.95	3.0
		5	2400	2200		–	0.40	0.86	2.9
		6	2400	2200		–	0.36	0.82	2.8
		7	2400	2200		–	0.32	0.79	2.8
		8	2400	2200		–	0.31	0.77	2.8
		9	2400	2200		–	0.29	0.76	2.8
		10	2400	2200		–	0.29	0.75	2.8
	Double	15	2400	2200	4.2	0.13	0.28	0.72	–
		16	2400	2200		0.15	0.30	0.74	–
		20	2400	2200		0.13	0.28	0.72	–
		25	2400	2200		0.12	0.28	0.71	–
		28	2400	2200		0.14	0.29	0.73	–
		30	2400	2200		0.10	0.25	0.70	–
		35	2400	2200		0.12	0.27	0.71	–
		40	2400	2200		0.099	0.25	0.70	–
		45	2400	2200		0.12	0.27	0.71	–
		50	2400	2200		0.098	0.25	0.69	–
		60	2400	2200		0.098	0.25	0.69	–
		70	2400	2200		0.097	0.25	0.69	–
		80	2400	2200		0.097	0.25	0.69	–
		90	2400	2200		0.097	0.25	0.69	–
		100	2400	2200		0.097	0.25	0.69	–

※ 1 With nominal input speed, service life is 20,000 hours.
※ 2 The maximum torque when starting and stopping.
※ 3 The maximum torque when it receives shock (up to 1,000 times)
※ 4 The maximum average input speed.
※ 5 The maximum momentary input speed.
※ 6 With this load and nominal input speed, service life will be 20,000 hours.
(Applied to the output shaft center, at axial load 0)
※ 7 With this load and nominal input speed, service life will be 20,000 hours.
(Applied to the output side bearing, at radial load 0)
※ 8 The maximum radial load the reducer can accept.
※ 9 The maximum axial load the reducer can accept.
※10 The weight may vary slightly model to model.

Performance table

VRB-115

Frame size	Stage	Ratio	※1 Nominal output torque [Nm]	※2 Maximum output torque [Nm]	※3 Emergency stop torque [Nm]	※4 Nominal input speed [rpm]	※5 Maximum input speed [rpm]	※6 Permitted radial load [N]	※7 Permitted axial load [N]
115	Single	3	120	225	500	3000	6000	1300	1500
		4	120	330	625	3000	6000	1500	1700
		5	180	330	625	3000	6000	1600	1900
		6	180	330	625	3000	6000	1700	2000
		7	180	330	625	3000	6000	1800	2100
		8	180	330	625	3000	6000	1900	2300
		9	120	225	500	3000	6000	1900	2400
		10	120	225	500	3000	6000	2000	2500
	Double	15	120	225	500	3000	6000	2300	3000
		16	180	330	625	3000	6000	2300	3100
		20	180	330	625	3000	6000	2500	3400
		25	180	330	625	3000	6000	2700	3700
		28	180	330	625	3000	6000	2800	3900
		30	120	225	500	3000	6000	2900	3900
		35	180	330	625	3000	6000	3000	3900
		40	180	330	625	3000	6000	3200	3900
		45	120	225	500	3000	6000	3300	3900
		50	180	330	625	3000	6000	3400	3900
		60	180	330	625	3000	6000	3600	3900
		70	180	330	625	3000	6000	3800	3900
		80	180	330	625	3000	6000	4000	3900
		90	120	225	500	3000	6000	4200	3900
		100	120	225	500	3000	6000	4300	3900

Frame size	Stage	Ratio	※8 Maximum radial load [N]	※9 Maximum axial load [N]	※10 Weight [kg]	Moment of inertia (≦φ14) [kgcm^2]	Moment of inertia (≦φ19) [kgcm^2]	Moment of inertia (≦φ28) [kgcm^2]	Moment of inertia (≦φ38) [kgcm^2]
115	Single	3	4300	3900	8	–	3.3	5.3	13
		4	4300	3900		–	2.0	4.1	12
		5	4300	3900		–	1.6	3.6	11
		6	4300	3900		–	1.3	3.3	11
		7	4300	3900		–	1.1	3.2	11
		8	4300	3900		–	1.0	3.1	11
		9	4300	3900		–	0.98	3.0	11
		10	4300	3900		–	0.95	3.0	11
	Double	15	4300	3900	8.9	0.43	0.86	2.8	–
		16	4300	3900		0.48	0.92	2.9	–
		20	4300	3900		0.40	0.83	2.8	–
		25	4300	3900		0.38	0.82	2.8	–
		28	4300	3900		0.44	0.88	2.8	–
		30	4300	3900		0.29	0.74	2.7	–
		35	4300	3900		0.37	0.81	2.7	–
		40	4300	3900		0.28	0.73	2.7	–
		45	4300	3900		0.37	0.80	2.7	–
		50	4300	3900		0.28	0.73	2.7	–
		60	4300	3900		0.28	0.73	2.7	–
		70	4300	3900		0.28	0.73	2.7	–
		80	4300	3900		0.28	0.73	2.7	–
		90	4300	3900		0.27	0.73	2.7	–
		100	4300	3900		0.27	0.73	2.7	–

※ 1 With nominal input speed, service life is 20,000 hours.
※ 2 The maximum torque when starting and stopping.
※ 3 The maximum torque when it receives shock (up to 1,000 times)
※ 4 The maximum average input speed.
※ 5 The maximum momentary input speed.
※ 6 With this load and nominal input speed, service life will be 20,000 hours.
(Applied to the output shaft center, at axial load 0)
※ 7 With this load and nominal input speed, service life will be 20,000 hours.
(Applied to the output side bearing, at radial load 0)
※ 8 The maximum radial load the reducer can accept.
※ 9 The maximum axial load the reducer can accept.
※10 The weight may vary slightly model to model.

VRB-140

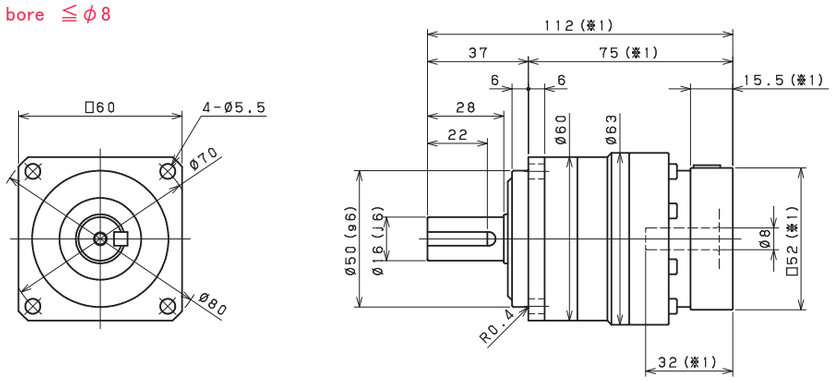
Frame size	Stage	Ratio	※1 Nominal output torque [Nm]	※2 Maximum output torque [Nm]	※3 Emergency stop torque [Nm]	※4 Nominal input speed [rpm]	※5 Maximum input speed [rpm]	※6 Permitted radial load [N]	※7 Permitted axial load [N]
140	Single	3	240	470	1000	2000	4000	3200	2400
		4	240	700	1250	2000	4000	3500	2700
		5	360	700	1250	2000	4000	3800	3000
		6	360	700	1250	2000	4000	4000	3300
		7	360	700	1250	2000	4000	4200	3500
		8	360	700	1250	2000	4000	4400	3700
		9	240	470	1000	2000	4000	4600	3900
		10	240	470	1000	2000	4000	4700	4100
	Double	15	240	470	1000	2000	4000	5400	4900
		16	360	700	1250	2000	4000	5500	5000
		20	360	700	1250	2000	4000	6000	5500
		25	360	700	1250	2000	4000	6400	6100
		28	360	700	1250	2000	4000	6700	6400
		30	240	470	1000	2000	4000	6800	6600
		35	360	700	1250	2000	4000	7200	7000
		40	360	700	1250	2000	4000	7500	7500
		45	240	470	1000	2000	4000	7800	7900
		50	360	700	1250	2000	4000	8100	8200
		60	360	700	1250	2000	4000	8600	8200
		70	360	700	1250	2000	4000	9100	8200
		80	360	700	1250	2000	4000	9100	8200
		90	240	470	1000	2000	4000	9100	8200
		100	240	470	1000	2000	4000	9100	8200

Frame size	Stage	Ratio	※8 Maximum radial load [N]	※9 Maximum axial load [N]	※10 Weight [kg]	Moment of inertia (≦φ19) [kgcm^2]	Moment of inertia (≦φ28) [kgcm^2]	Moment of inertia (≦φ38) [kgcm^2]	Moment of inertia (≦φ48) [kgcm^2]
140	Single	3	9100	8200	16	–	12	20	42
		4	9100	8200		–	7.5	15	37
		5	9100	8200		–	5.8	14	36
		6	9100	8200		–	4.9	13	35
		7	9100	8200		–	4.1	12	34
		8	9100	8200		–	3.8	12	34
		9	9100	8200		–	3.6	11	34
		10	9100	8200		–	3.5	11	34
	Double	15	9100	8200	17	1.3	3.2	11	–
		16	9100	8200		1.5	3.5	11	–
		20	9100	8200		1.2	3.1	11	–
		25	9100	8200		1.1	3.1	11	–
		28	9100	8200		1.4	3.3	11	–
		30	9100	8200		0.85	2.8	10	–
		35	9100	8200		1.1	3.1	11	–
		40	9100	8200		0.83	2.8	10	–
		45	9100	8200		1.1	3.0	11	–
		50	9100	8200		0.81	2.8	10	–
		60	9100	8200		0.81	2.8	10	–
		70	9100	8200		0.80	2.8	10	–
		80	9100	8200		0.80	2.8	10	–
		90	9100	8200		0.80	2.8	10	–
		100	9100	8200		0.80	2.8	10	–

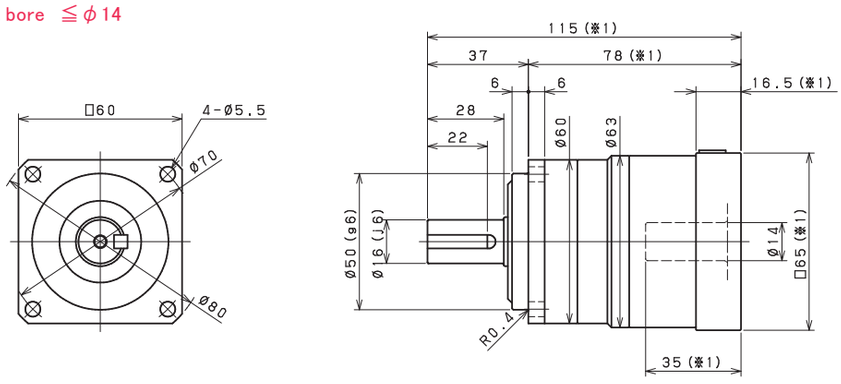
※ 1 With nominal input speed, service life is 20,000 hours.
※ 2 The maximum torque when starting and stopping.
※ 3 The maximum torque when it receives shock (up to 1,000 times)
※ 4 The maximum average input speed.
※ 5 The maximum momentary input speed.
※ 6 With this load and nominal input speed, service life will be 20,000 hours.
(Applied to the output shaft center, at axial load 0)
※ 7 With this load and nominal input speed, service life will be 20,000 hours.
(Applied to the output side bearing, at radial load 0)
※ 8 The maximum radial load the reducer can accept.
※ 9 The maximum axial load the reducer can accept.
※10 The weight may vary slightly model to model.

VRB-060 1stage

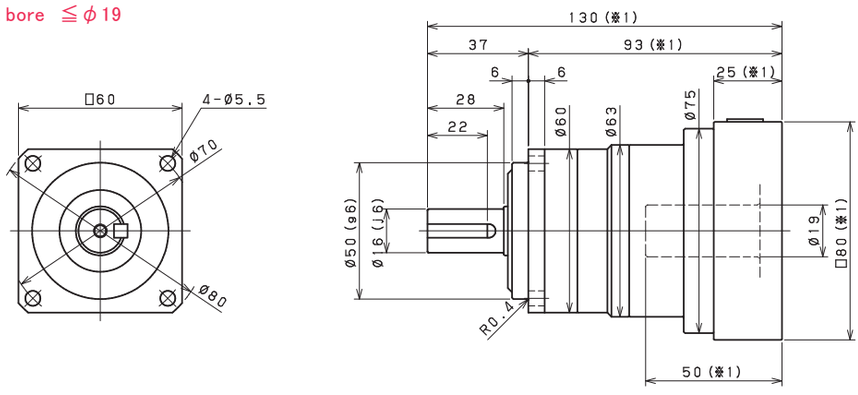
Input shaft bore ≦ϕ8

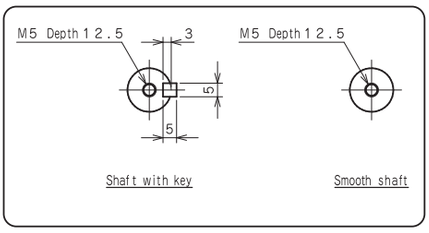


Input shaft bore ≦ϕ14



Input shaft bore ≦ϕ19

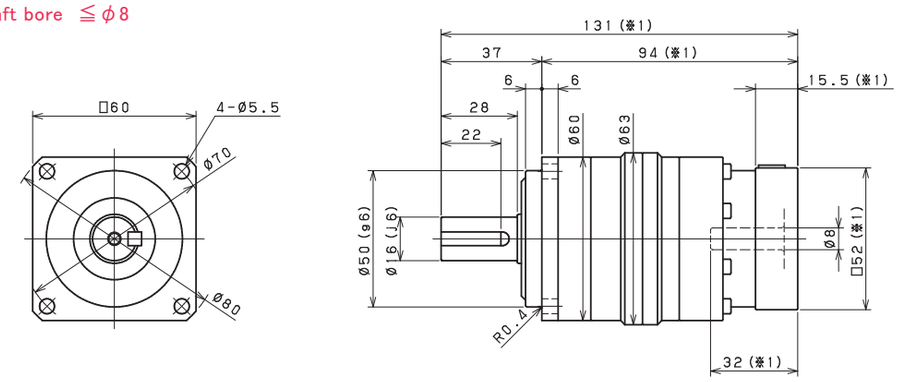




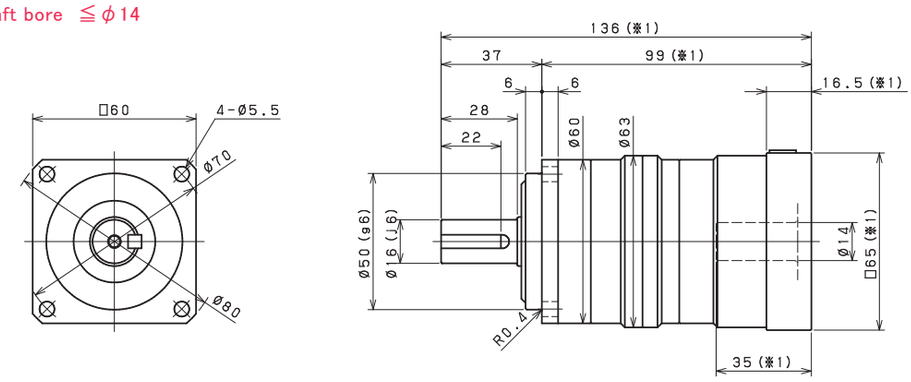
※1 Length will vary depending on motor.
※2 Bushing will be inserted to adapt to motor shaft.

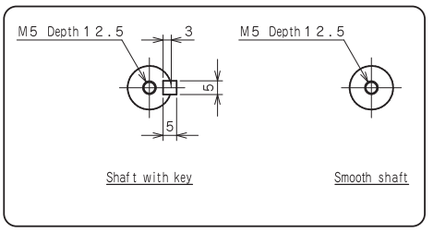
VRB-060 2stage

Input shaft bore ≦φ8



Input shaft bore ≦φ14

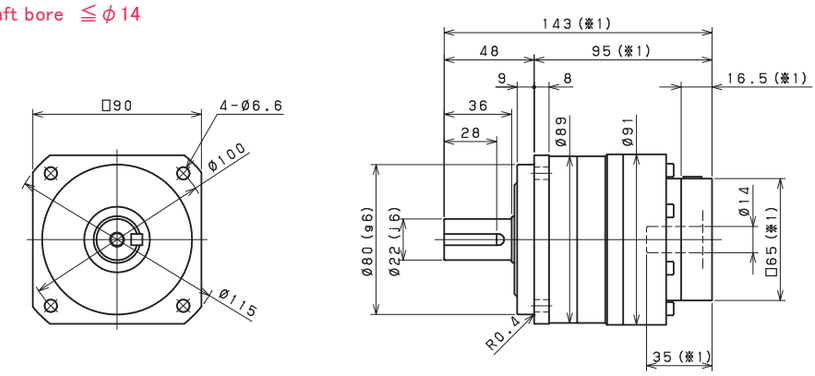




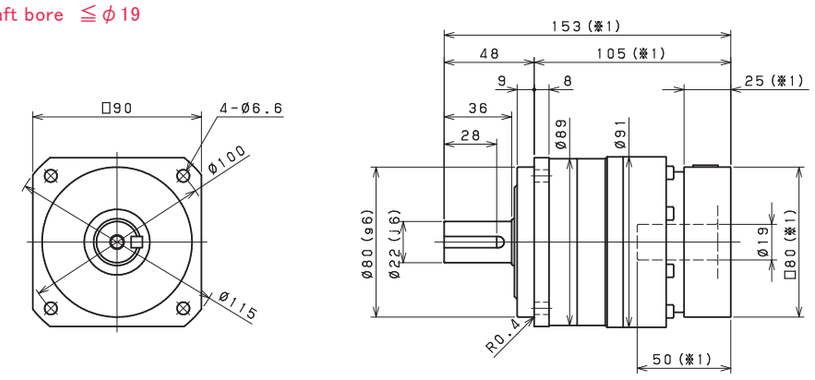
※1 Length will vary depending on motor.
※2 Bushing will be inserted to adapt to motor shaft.

VRB-090 1stage

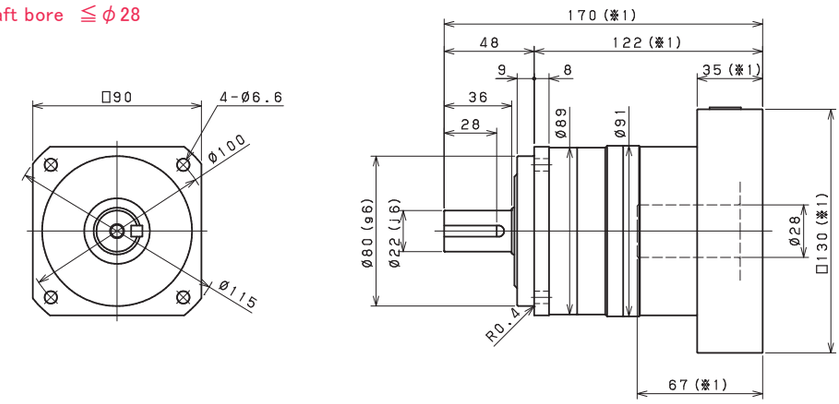
Input shaft bore ≦ϕ14

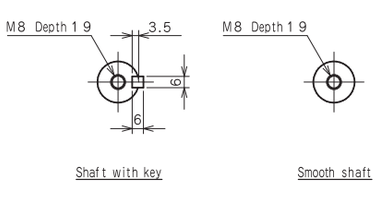


Input shaft bore ≦ϕ19



Input shaft bore ≦ϕ28

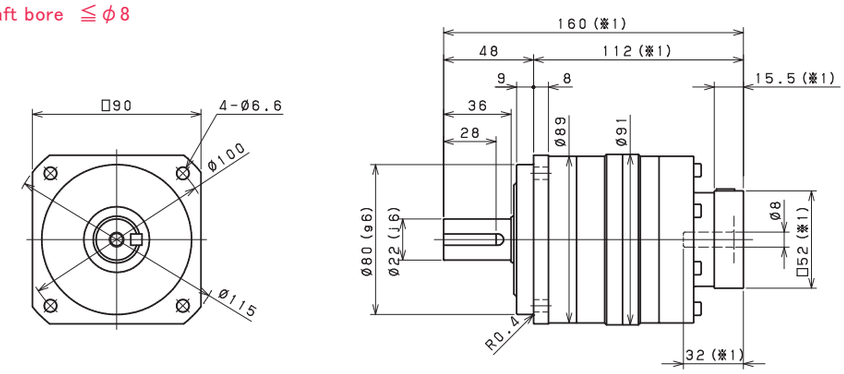




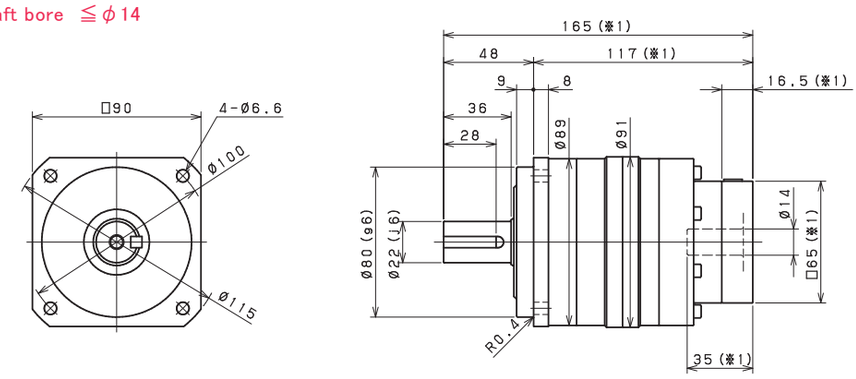
※1 Length will vary depending on motor.
※2 Bushing will be inserted to adapt to motor shaft.

VRB-090 2stage

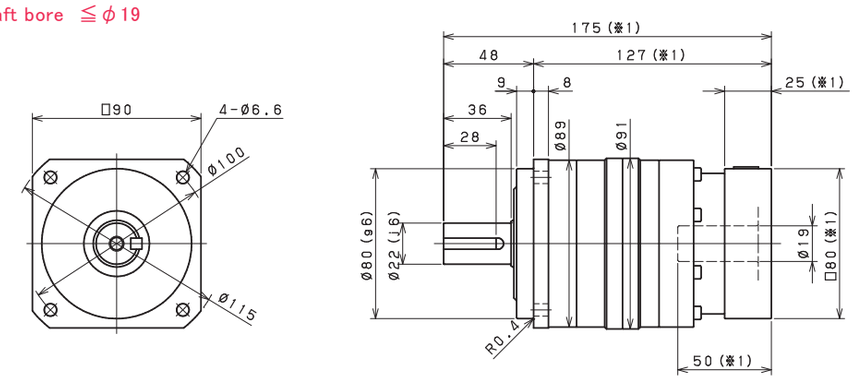
Input shaft bore ≦φ8

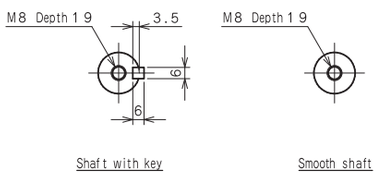


Input shaft bore ≦φ14



Input shaft bore ≦φ19

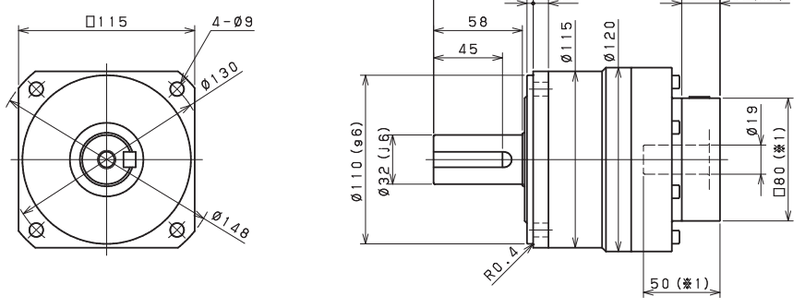




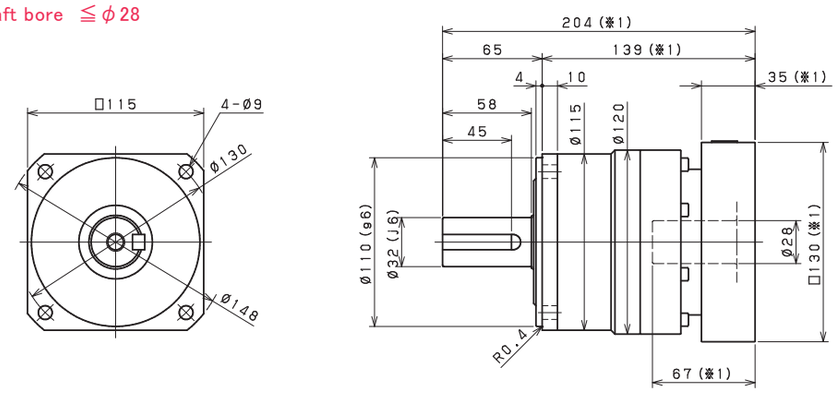
※1 Length will vary depending on motor.
※2 Bushing will be inserted to adapt to motor shaft.

VRB-115 1stage

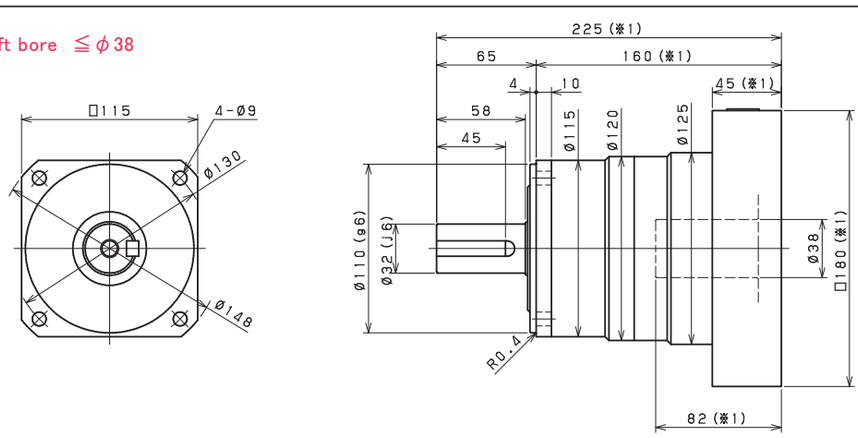
Input shaft bore ≦ϕ19

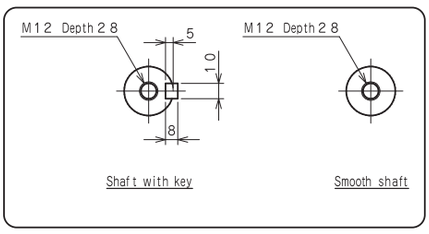


Input shaft bore ≦ϕ28



Input shaft bore ≦ϕ38

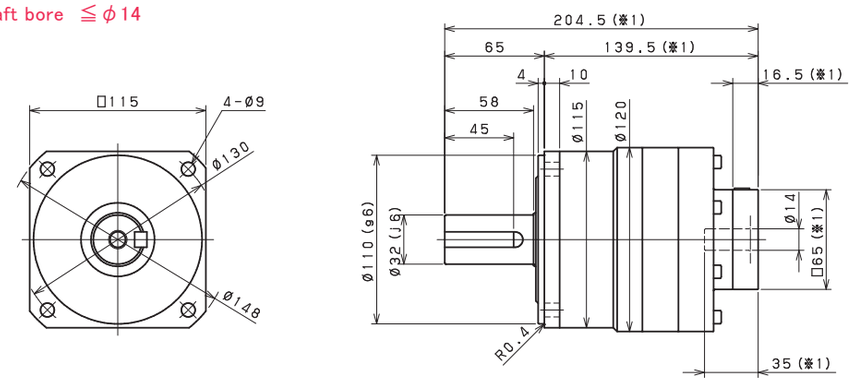




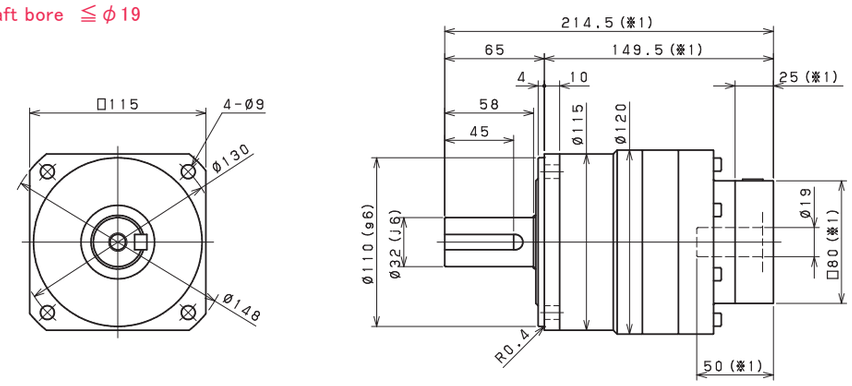
※1 Length will vary depending on motor.
※2 Bushing will be inserted to adapt to motor shaft.

VRB-115 2stage

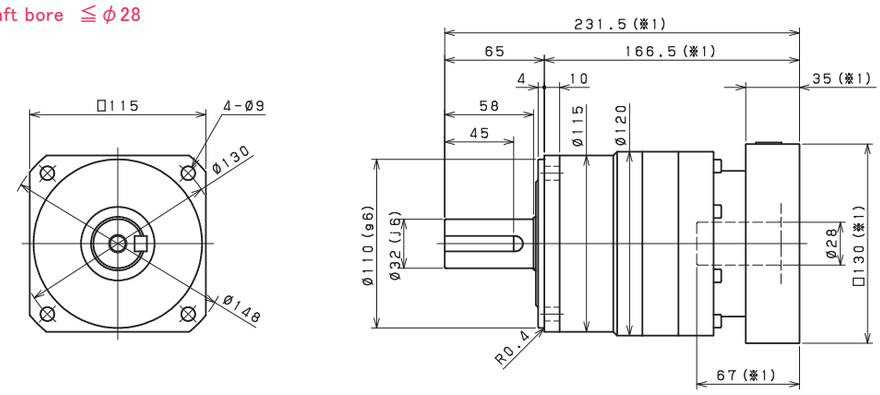
Input shaft bore ≦φ14

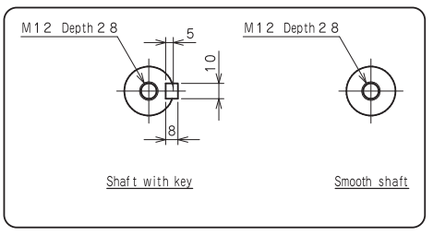


Input shaft bore ≦φ19



Input shaft bore ≦φ28

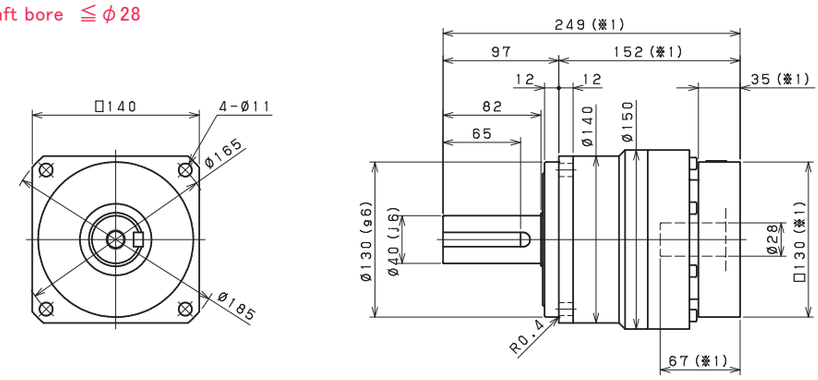




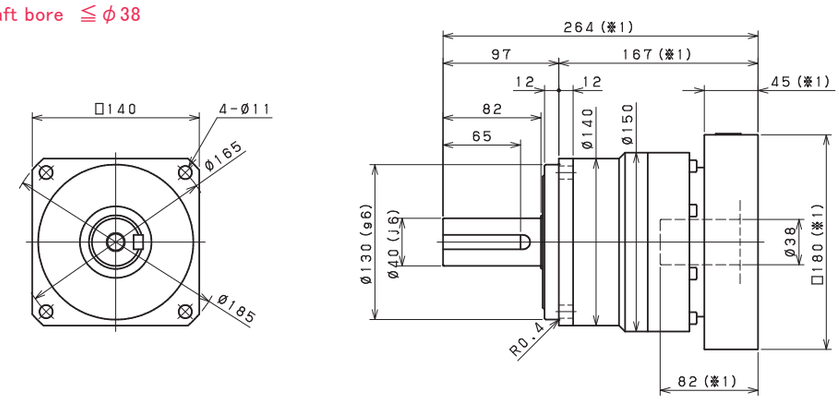
※1 Length will vary depending on motor.
※2 Bushing will be inserted to adapt to motor shaft.

VRB-140 1stage

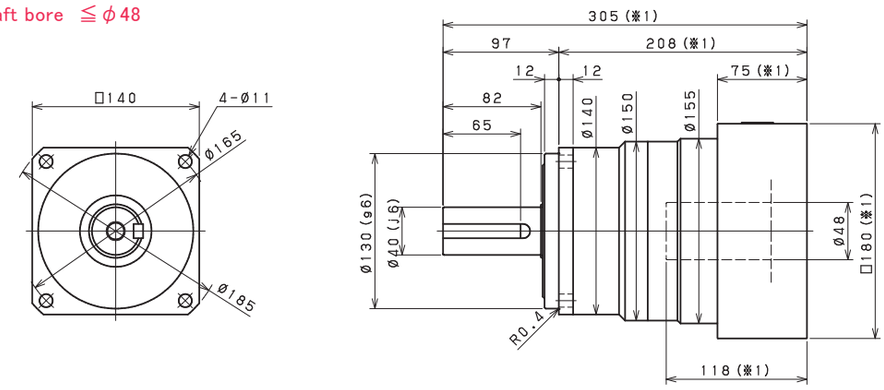
Input shaft bore ≦ϕ28

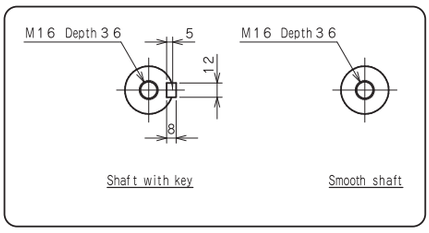


Input shaft bore ≦ϕ38



Input shaft bore ≦ϕ48

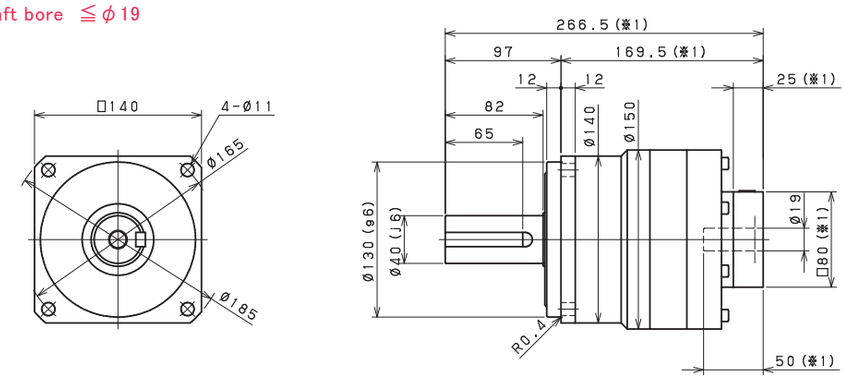




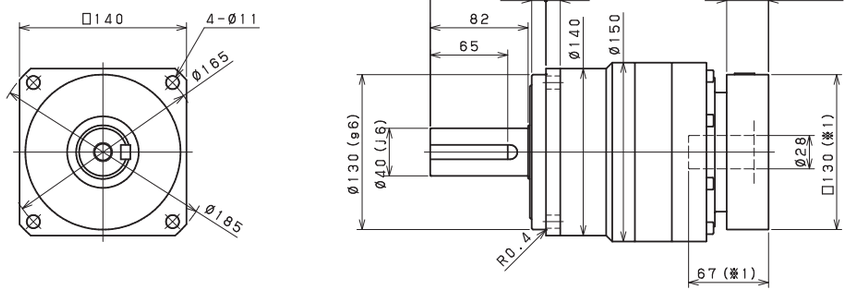
※1 Length will vary depending on motor.
※2 Bushing will be inserted to adapt to motor shaft.

VRB-140 2stage

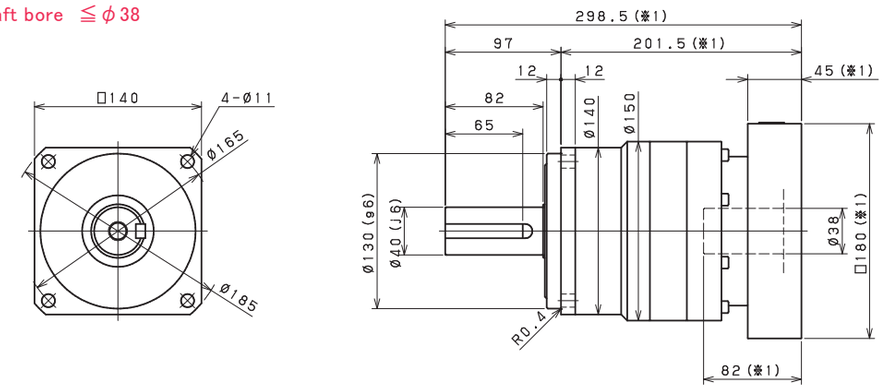
Input shaft bore ≦ϕ19

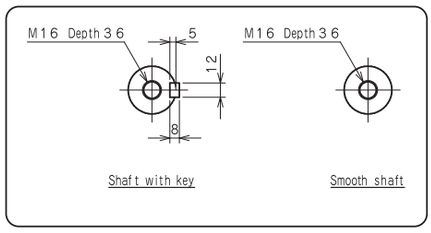


Input shaft bore ≦ϕ28



Input shaft bore ≦ϕ38

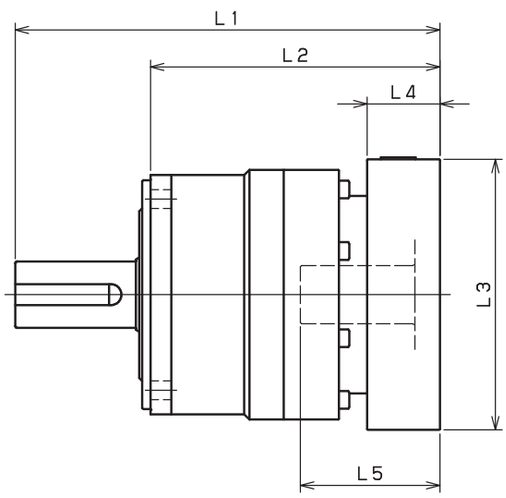




※1 Length will vary depending on motor.
※2 Bushing will be inserted to adapt to motor shaft.

Dimensions（Adapter）

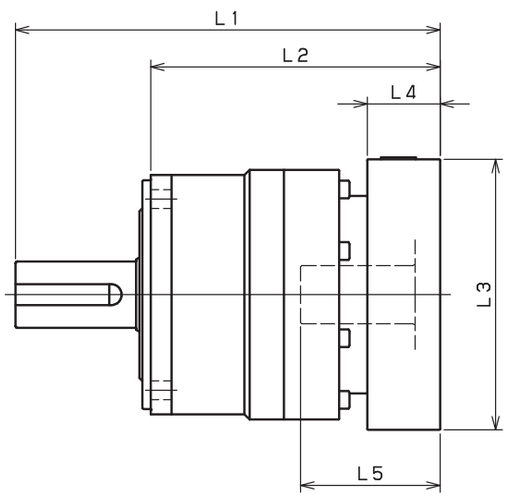
VRB-060



Model number	**:Adapter code	Single					Double				
		L1	L2	L3	L4	L5	L1	L2	L3	L4	L5
VRB-060-□-□-8** (Input shaft bore ≦ φ8)	AA・AC・AD・AF・AG	112	75	□52	15.5	32	131	94	□52	15.5	32
	AB・AE・AH・AJ・AK	117	80	□52	20.5	37	136	99	□52	20.5	37
	BA・BB・BD・BE	112	75	□60	15.5	32	131	94	□60	15.5	32
	BC・BF	117	80	□60	20.5	37	136	99	□60	20.5	37
	CA	117	80	□70	20.5	37	136	99	□70	20.5	37
VRB-060-□-□-14** (Input shaft bore≦ φ14)	BA・BB・BD・BE・BF・BG・BJ・BK	115	78	□65	16.5	35	136	99	□65	16.5	35
	BC・BH	120	83	□65	21.5	40	141	104	□65	21.5	40
	BL	125	88	□65	26.5	45	146	109	□65	26.5	45
	CA	115	78	□70	16.5	35	136	99	□70	16.5	35
	CB	120	83	□70	21.5	40	141	104	□70	21.5	40
	DA・DB・DC・DD・DF・DH	115	78	□80	16.5	35	136	99	□80	16.5	35
	DE	120	83	□80	21.5	40	141	104	□80	21.5	40
	DG	125	88	□80	26.5	45	146	109	□80	26.5	45
	EA・EB・EC	115	78	□90	16.5	35	136	99	□90	16.5	35
	ED	125	88	□90	26.5	45	146	109	□90	26.5	45
	FA	115	78	□100	16.5	35	136	99	□100	16.5	35
	GA	115	78	□115	16.5	35	136	99	□115	16.5	35
VRB-060-□-□-19** (Input shaft bore≦ φ19)	DA・DB・DC	130	93	□80	25	50					
	DD	140	103	□80	35	60					
	DE	135	98	□80	30	55					
	EA	135	98	□90	30	55					
	EB	130	93	□90	25	50					
	EC	140	103	□90	35	60					
	FA	130	93	□100	25	50					
	FB	140	103	□100	35	60					
	GA・GC	135	98	□115	30	55					
	GB・GD	130	93	□115	25	50					
	HA	130	93	□130	25	50					
	HB	145	108	□130	40	65					
	HC・HD・HE	135	98	□130	30	55					

※1 Single reduction : 1/3～1/10, Double reduction : 1/15～1/100
※2 Bushing will be inserted to adapt to motor shaft.

VRB-090

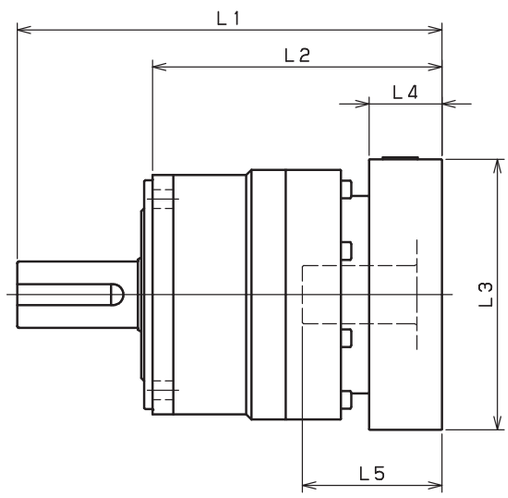


Model number	**: Adapter code	Single					Double				
		L1	L2	L3	L4	L5	L1	L2	L3	L4	L5
VRB-090-□-□-8** (Input shaft bore ≦ φ8)	AA・AC・AD・AF・AG						160	112	□52	15.5	32
	AB・AE・AH・AJ・AK						165	117	□52	20.5	37
	BA・BB・BD・BE						160	112	□60	15.5	32
	BC・BF						165	117	□60	20.5	37
	CA						165	117	□70	20.5	37
VRB-090-□-□-14** (Input shaft bore≦ φ14)	BA・BB・BD・BE・BF・BG・BJ・BK	143	95	□65	16.5	35	165	117	□65	16.5	35
	BC・BH	148	100	□65	21.5	40	170	122	□65	21.5	40
	BL	153	105	□65	26.5	45	175	127	□65	26.5	45
	CA	143	95	□70	16.5	35	165	117	□70	16.5	35
	CB	148	100	□70	21.5	40	170	122	□70	21.5	40
	DA・DB・DC・DD・DF・DH	143	95	□80	16.5	35	165	117	□80	16.5	35
	DE	148	100	□80	21.5	40	170	122	□80	21.5	40
	DG	153	105	□80	26.5	45	175	127	□80	26.5	45
	EA・EB・EC	143	95	□90	16.5	35	165	117	□90	16.5	35
	ED	153	105	□90	26.5	45	175	127	□90	26.5	45
	FA	143	95	□100	16.5	35	165	117	□100	16.5	35
	GA	143	95	□115	16.5	35	165	117	□115	16.5	35
VRB-090-□-□-19** (Input shaft bore≦ φ19)	DA・DB・DC	153	105	□80	25	50	175	127	□80	25	50
	DD	163	115	□80	35	60	185	137	□80	35	60
	DE	158	110	□80	30	55	180	132	□80	30	55
	EA	158	110	□90	30	55	180	132	□90	30	55
	EB	153	105	□90	25	50	175	127	□90	25	50
	EC	163	115	□90	35	60	185	137	□90	35	60
	FA	153	105	□100	25	50	175	127	□100	25	50
	FB	163	115	□100	35	60	185	137	□100	35	60
	GA・GC	158	110	□115	30	55	180	132	□115	30	55
	GB・GD	153	105	□115	25	50	175	127	□115	25	50
	HA	153	105	□130	25	50	175	127	□130	25	50
	HB	168	120	□130	40	65	190	142	□130	40	65
	HC・HD・HE	158	110	□130	30	55	180	132	□130	30	55
VRB-090-□-□-28** (Input shaft bore≦ φ28)	FA・FB・FC	170	122	□100	35	67					
	GA・GB・GC・GD・GE・GF・GG	170	122	□115	35	67					
	HA・HC・HD	170	122	□130	35	67					
	HB	180	132	□130	45	77					
	JA・JB・JC	170	122	□150	35	67					
	KA・KB	170	122	□180	35	67					
	LA	170	122	□200	35	67					
	MA	170	122	□220	35	67					

※1 Single reduction : 1/3～1/10, Double reduction : 1/15～1/100
※2 Bushing will be inserted to adapt to motor shaft.

Dimensions（Adapter）

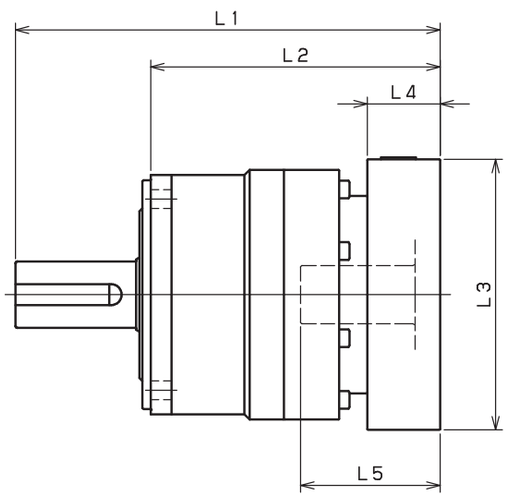
VRB-115



Model number	**:Adapter code	Single					Double				
		L1	L2	L3	L4	L5	L1	L2	L3	L4	L5
VRB-115-□-□-14** (Input shaft bore≦φ14)	BA・BB・BD・BE・BF・BG・BJ・BK						204.5	139.5	□65	16.5	35
	BC・BH						209.5	144.5	□65	21.5	40
	BL						214.5	149.5	□65	26.5	45
	CA						204.5	139.5	□70	16.5	35
	CB						209.5	144.5	□70	21.5	40
	DA・DB・DC・DD・DF・DH						204.5	139.5	□80	16.5	35
	DE						209.5	144.5	□80	21.5	40
	DG						214.5	149.5	□80	26.5	45
	EA・EB・EC						204.5	139.5	□90	16.5	35
	ED						214.5	149.5	□90	26.5	45
	FA						204.5	139.5	□100	16.5	35
	GA						204.5	139.5	□115	16.5	35
VRB-115-□-□-19** (Input shaft bore≦φ19)	DA・DB・DC	187	122	□80	25	50	214.5	149.5	□80	25	50
	DD	197	132	□80	35	60	224.5	159.5	□80	35	60
	DE	192	127	□80	30	55	219.5	154.5	□80	30	55
	EA	192	127	□90	30	55	219.5	154.5	□90	30	55
	EB	187	122	□90	25	50	214.5	149.5	□90	25	50
	EC	197	132	□90	35	60	224.5	159.5	□90	35	60
	FA	187	122	□100	25	50	214.5	149.5	□100	25	50
	FB	197	132	□100	35	60	224.5	159.5	□100	35	60
	GA・GC	192	127	□115	30	55	219.5	154.5	□115	30	55
	GB・GD	187	122	□115	25	50	214.5	149.5	□115	25	50
	HA	187	122	□130	25	50	214.5	149.5	□130	25	50
	HB	202	137	□130	40	65	229.5	164.5	□130	40	65
	HC・HD・HE	192	127	□130	30	55	219.5	154.5	□130	30	55
VRB-115-□-□-28** (Input shaft bore≦φ28)	FA・FB・FC	204	139	□100	35	67	231.5	166.5	□100	35	67
	GA・GB・GC・GD・GE・GF・GG	204	139	□115	35	67	231.5	166.5	□115	35	67
	HA・HC・HD	204	139	□130	35	67	231.5	166.5	□130	35	67
	HB	214	149	□130	45	77	241.5	176.5	□130	45	77
	JA・JB・JC	204	139	□150	35	67	231.5	166.5	□150	35	67
	KA・KB	204	139	□180	35	67	231.5	166.5	□180	35	67
	LA	204	139	□200	35	67	231.5	166.5	□200	35	67
	MA	204	139	□220	35	67	231.5	166.5	□220	35	67
VRB-115-□-□-38** (Input shaft bore≦φ38)	HA	225	160	□130	45	82					
	HB	220	155	□130	40	77					
	JA	225	160	□150	45	82					
	KA・KB・KC	225	160	□180	45	82					
	LA	225	160	□200	45	82					
	LB	235	170	□200	55	92					
	MA・MB	225	160	□220	45	82					
	NA	225	160	□250	45	82					

※1 Single reduction : 1/3～1/10, Double reduction : 1/15～1/100
※2 Bushing will be inserted to adapt to motor shaft.

VRB-140



Model number	**: Adapter code	Single					Double				
		L1	L2	L3	L4	L5	L1	L2	L3	L4	L5
VRB-140-□-□-19** (Input shaft bore≦φ19)	DA・DB・DC						266.5	169.5	□80	25	50
	DD						276.5	179.5	□80	35	60
	DE						271.5	174.5	□80	30	55
	EA						271.5	174.5	□90	30	55
	EB						266.5	169.5	□90	25	50
	EC						276.5	179.5	□90	35	60
	FA						266.5	169.5	□100	25	50
	FB						276.5	179.5	□100	35	60
	GA・GC						271.5	174.5	□115	30	55
	GB・GD						266.5	169.5	□115	25	50
	HA						266.5	169.5	□130	25	50
	HB						281.5	184.5	□130	40	65
	HC・HD・HE						271.5	174.5	□130	30	55
VRB-140-□-□-28** (Input shaft bore≦φ28)	FA・FB・FC	249	152	□100	35	67	283.5	186.5	□100	35	67
	GA・GB・GC・GD・GE・GF・GG	249	152	□115	35	67	283.5	186.5	□115	35	67
	HA・HC・HD	249	152	□130	35	67	283.5	186.5	□130	35	67
	HB	259	162	□130	45	77	293.5	196.5	□130	45	77
	JA・JB・JC	249	152	□150	35	67	283.5	186.5	□150	35	67
	KA・KB	249	152	□180	35	67	283.5	186.5	□180	35	67
	LA	249	152	□200	35	67	283.5	186.5	□200	35	67
	MA	249	152	□220	35	67	283.5	186.5	□220	35	67
VRB-140-□-□-38** (Input shaft bore≦φ38)	HA	264	167	□130	45	82	298.5	201.5	□130	45	82
	HB	259	162	□130	40	77	293.5	196.5	□130	40	77
	JA	264	167	□150	45	82	298.5	201.5	□150	45	82
	KA・KB・KC	264	167	□180	45	82	298.5	201.5	□180	45	82
	LA	264	167	□200	45	82	298.5	201.5	□200	45	82
	LB	274	177	□200	55	92	308.5	211.5	□200	55	92
	MA・MB	264	167	□220	45	82	298.5	201.5	□220	45	82
	NA	264	167	□250	45	82	298.5	201.5	□250	45	82
VRB-140-□-□-48** (Input shaft bore≦φ48)	KB・KC	285	188	□180	55	98					
	KA	305	208	□180	75	118					
	LA	285	188	□200	55	98					
	MA	285	188	□220	55	98					
	MB	305	208	□220	75	118					
	NA	305	208	□250	75	118					
	PA	305	208	□280	75	118					

※1 Single reduction : 1/3～1/10, Double reduction : 1/15～1/100
※2 Bushing will be inserted to adapt to motor shaft.