

RollerDrive specifications

Grease lubrication type

Model		MR20	MR25	MR32
Gear ratio		10	12	12
Upper limit torque at start/stop	N·m	2.7	5.2	10.0
Max. input speed*	min ⁻¹	2,000		
Rated input speed*	min ⁻¹	1,500		
Angular repeatability accuracy	arc·sec or less	±15		
Surface runout	μm or less	50		
Weight (Motor not included)	kg	1.0	1.3	2.1

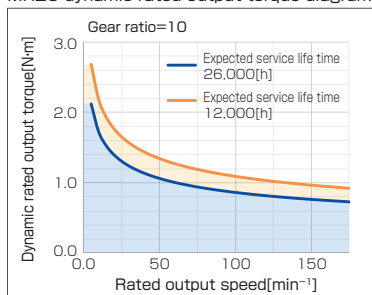
* If you want to rotate the output continuously for 360 ° or more, please contact us in advance.

How to determine the allowable load mass and allowable moment

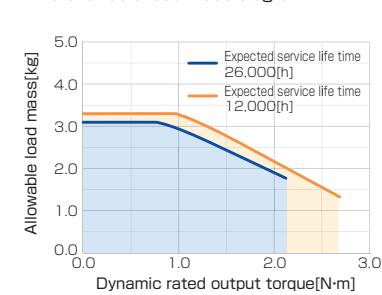
Check the allowable load mass and allowable moment as follows.

1. Find the average load torque based on the rated output speed (rpm) and load conditions.
(The maximum load torque should never exceed the starting/stopping upper limit torque)
2. Find the allowable values for the average load torque and rated output speed by looking at the dynamic rated output torque diagram below.
3. Find each maximum allowable value by referring to the allowable load mass diagram, the allowable moment diagram and the average load torque.

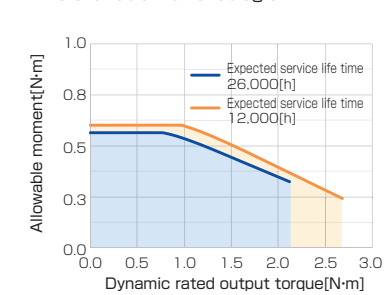
MR20 dynamic rated output torque diagram



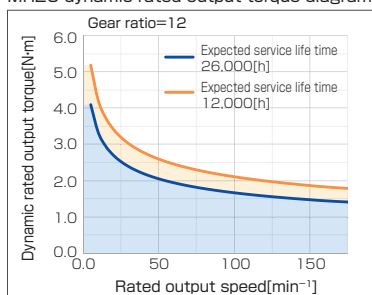
MR20 allowable load mass diagram



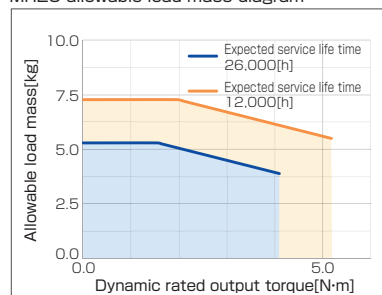
MR20 allowable moment diagram



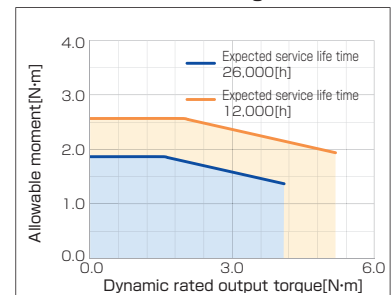
MR25 dynamic rated output torque diagram



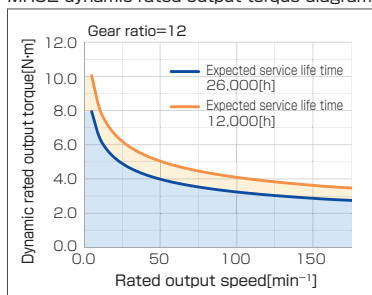
MR25 allowable load mass diagram



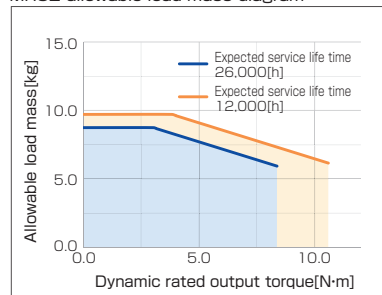
MR25 allowable moment diagram



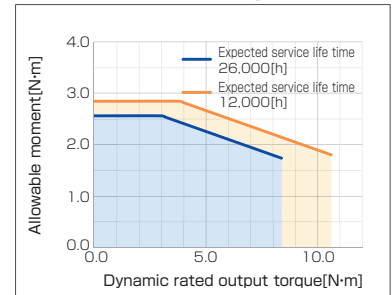
MR32 dynamic rated output torque diagram



MR32 allowable load mass diagram

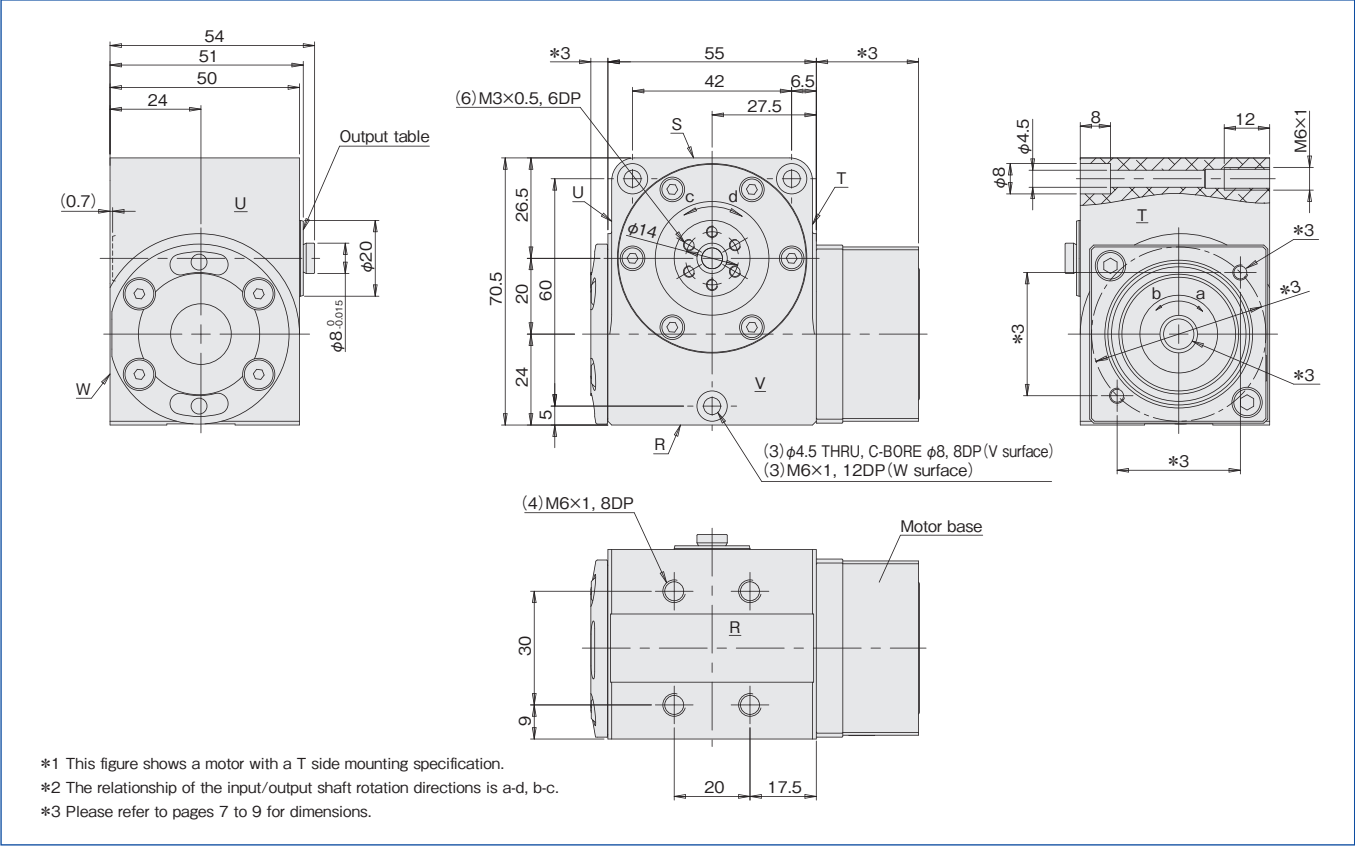


MR32 allowable moment diagram



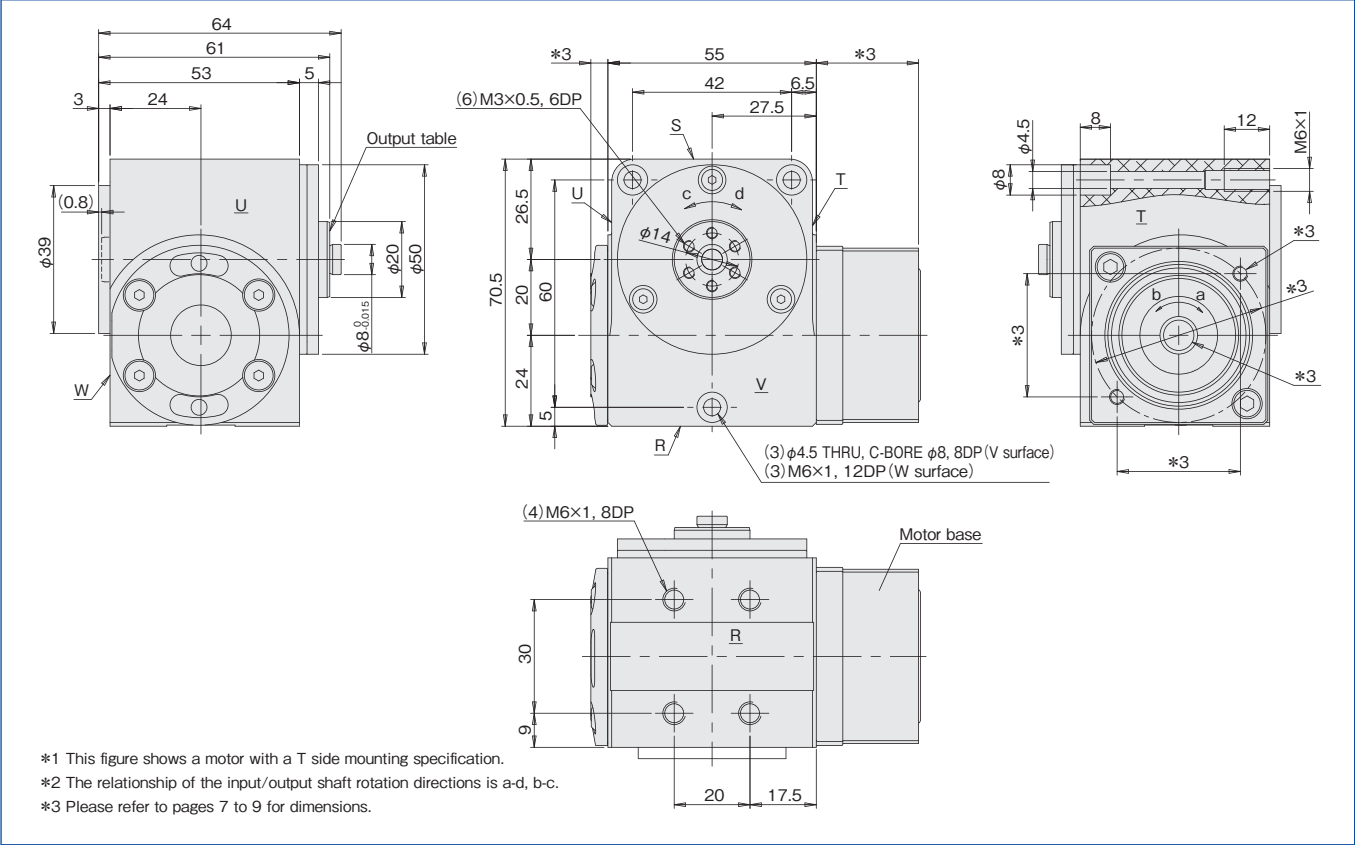
MR20's option A specification dimension drawings

Unit:mm



MR20's option B specification dimension drawings

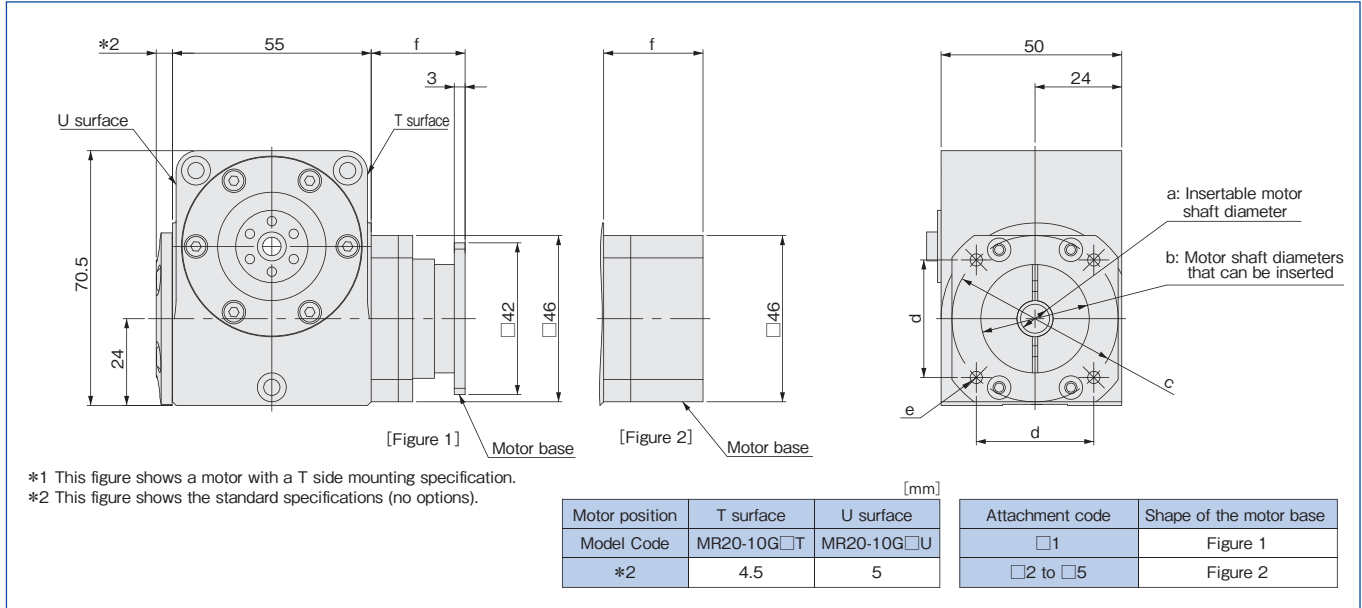
Unit:mm



MR20 Dimensions

MR20 Attachment Code Selection Chart With Attachment

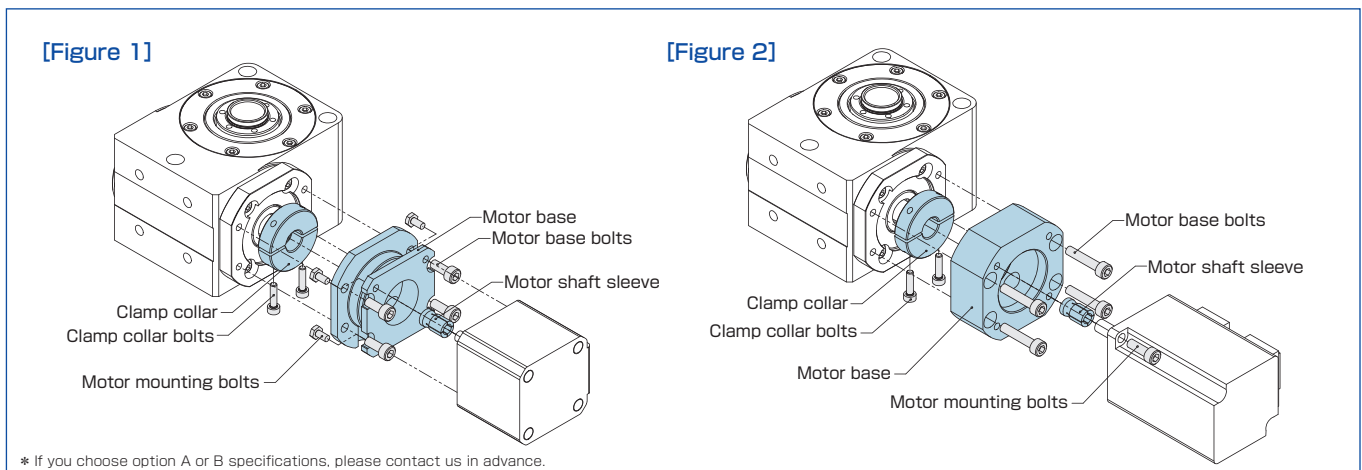
Unit:mm



Attachment code	a	b	c	d	e	f
A1	φ5	φ22	—	31	(4)φ3.4 THRU	26
N1	φ8		φ48			
N2		φ30		φ45	—	(4)M4×0.7, 8DP
N3			φ46	27.5		
N4						
N5						

Accessories	Attachment code			
	A1	N1	N2, N3, N4	N5
Motor base	○	○	○	○
Clamp collar	○	○	○	○
Motor shaft sleeve	○	—	—	—
Motor base bolt	M3×10 (4)		M3×20 (4)	M3×18 (4)
Clamp collar bolts	M3×12 (2)			

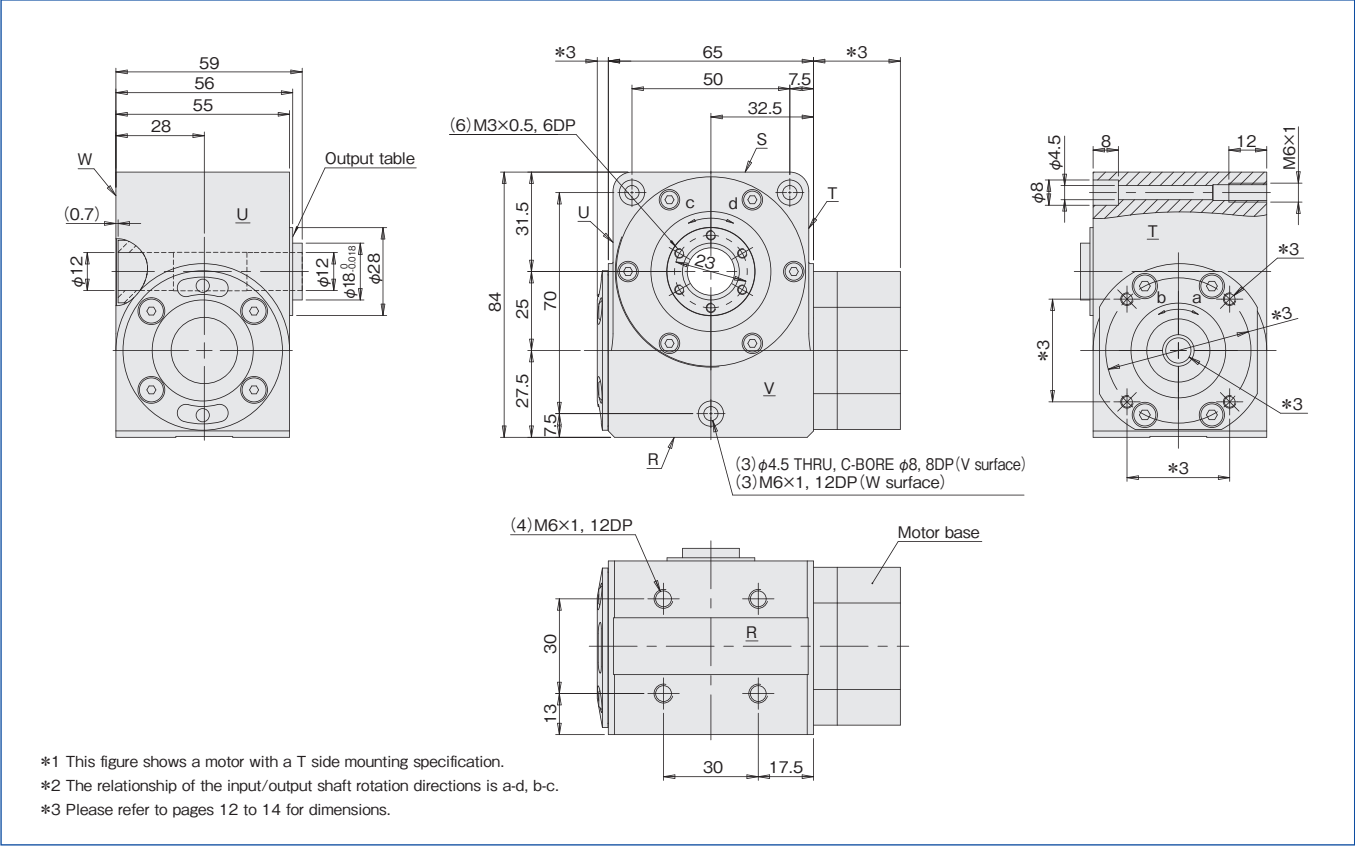
Motor installation schematic



MR25 Dimensions

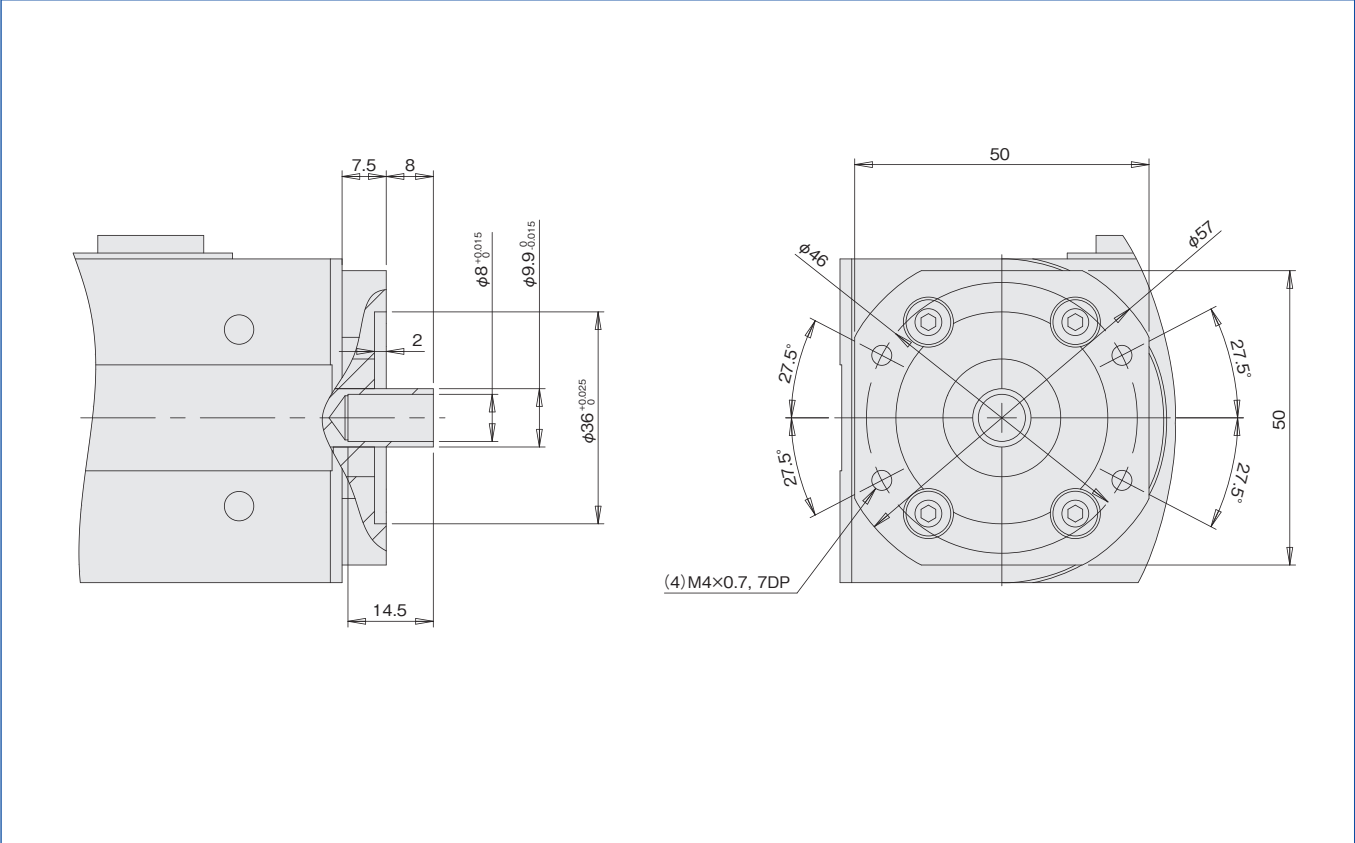
MR25 standard specifications dimensional drawings (no options)

Unit:mm



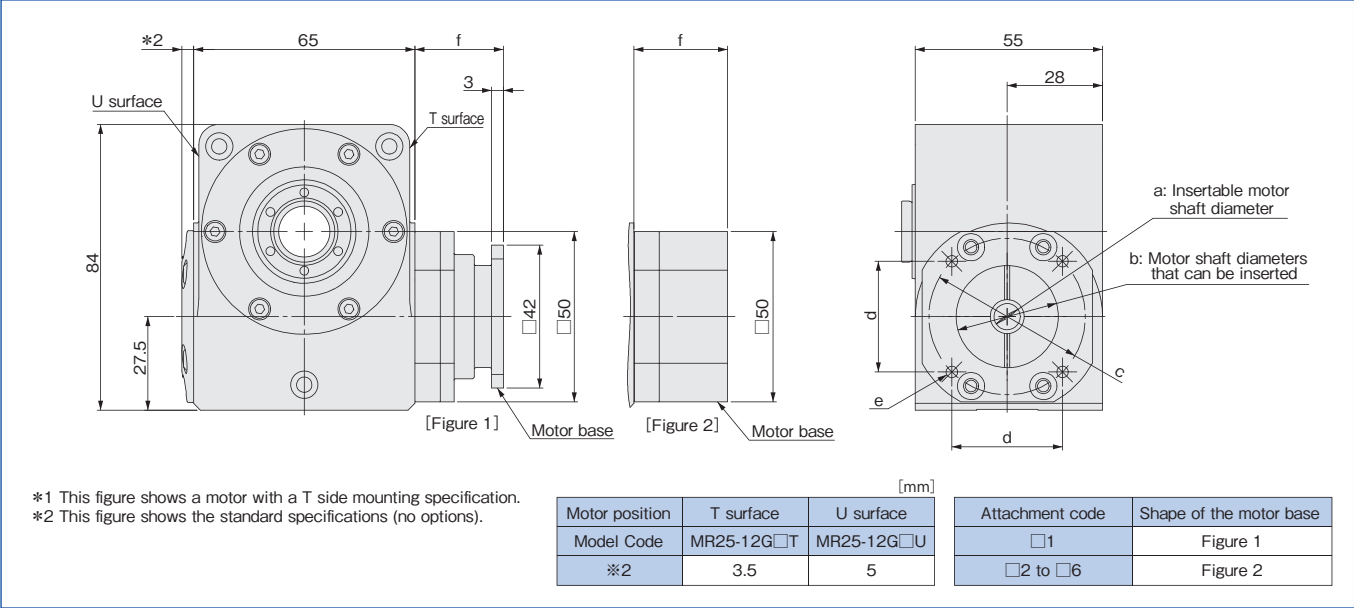
MR25 standard specifications detailed view of the input axis, specifications without attachments

Unit:mm



MR25 Attachment Code Selection Chart With Attachment

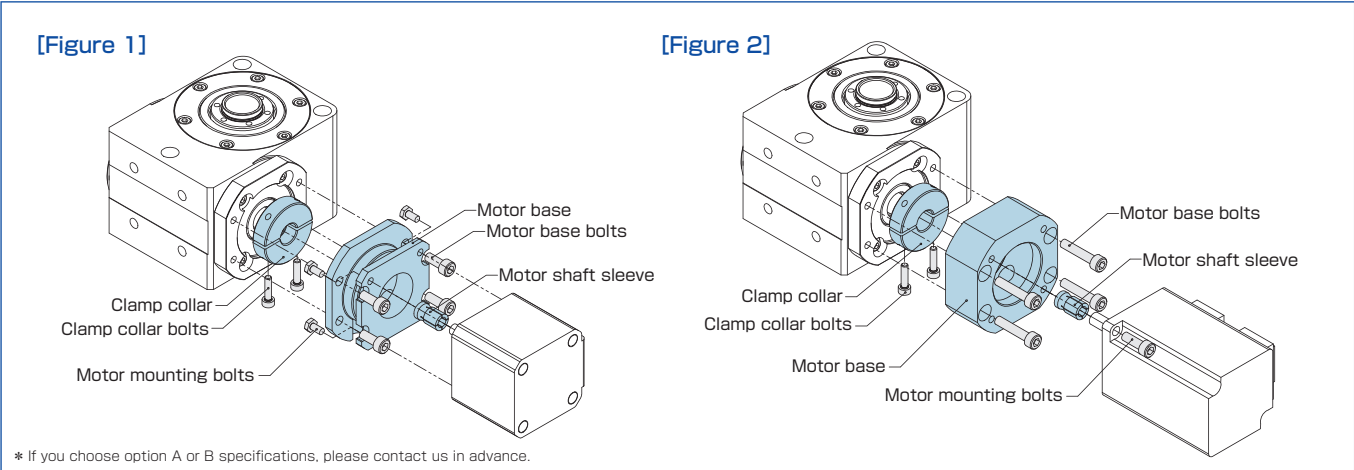
Unit:mm



Attachment code	a	b	c	d	e	f	
A1	φ5	φ22	-	31	(4)φ3.4 THRU	26	
C6	φ6.35	φ36		41	(4)M4×0.7, 8DP		
N1	φ8	φ22	φ48	-	(4)M3×0.5, 6DP	27.5	
N2							φ30
N3		φ46	-				
N4				(4)M4×0.7, 8DP			
N5		23.5					

Accessories	Attachment code				
	A1	N1	N2, N3, N4	N5	C6
Motor base	○	○	○	○	○
Clamp collar	○	○	○	○	○
Motor shaft sleeve	○	-	-	-	○
Motor base bolt	M4×10 (4)		M4×20 (4)	M4×18 (4)	M4×20 (4)
Clamp collar bolts	M3×12 (2)				

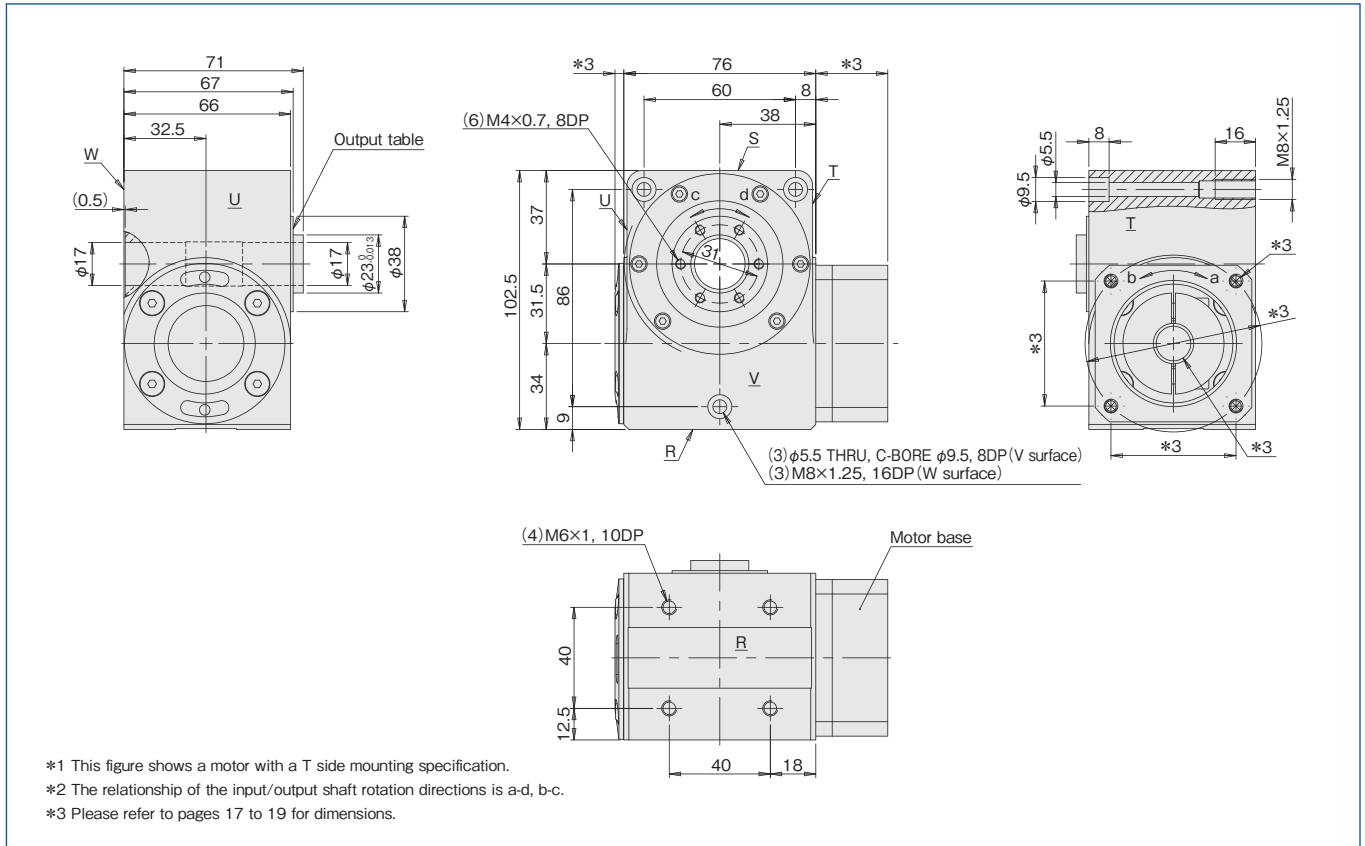
Motor installation schematic



MR32 Dimensions

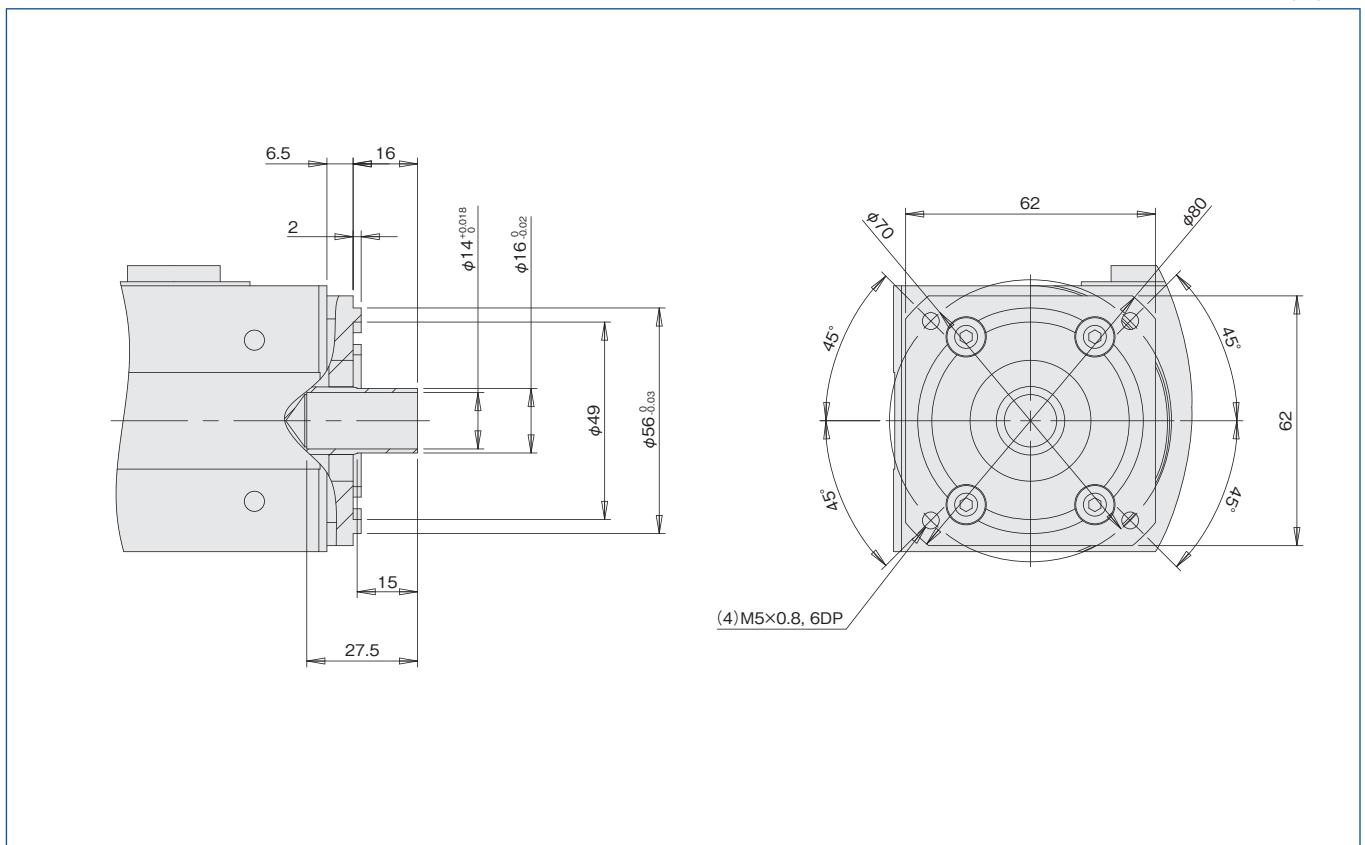
MR32 standard specifications dimensional drawings (no options)

Unit:mm



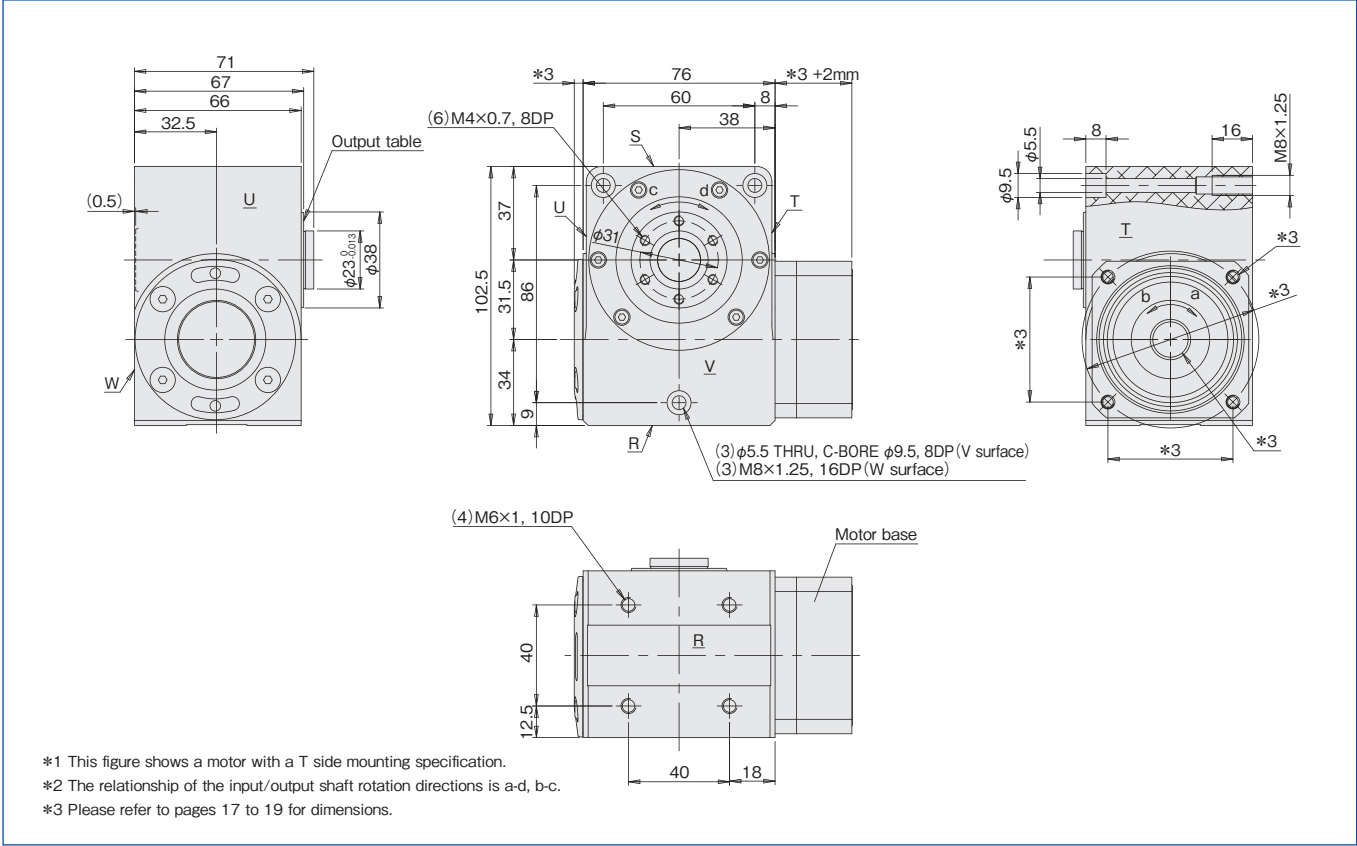
MR32 standard specifications detailed view of the input axis, specifications without attachments

Unit:mm



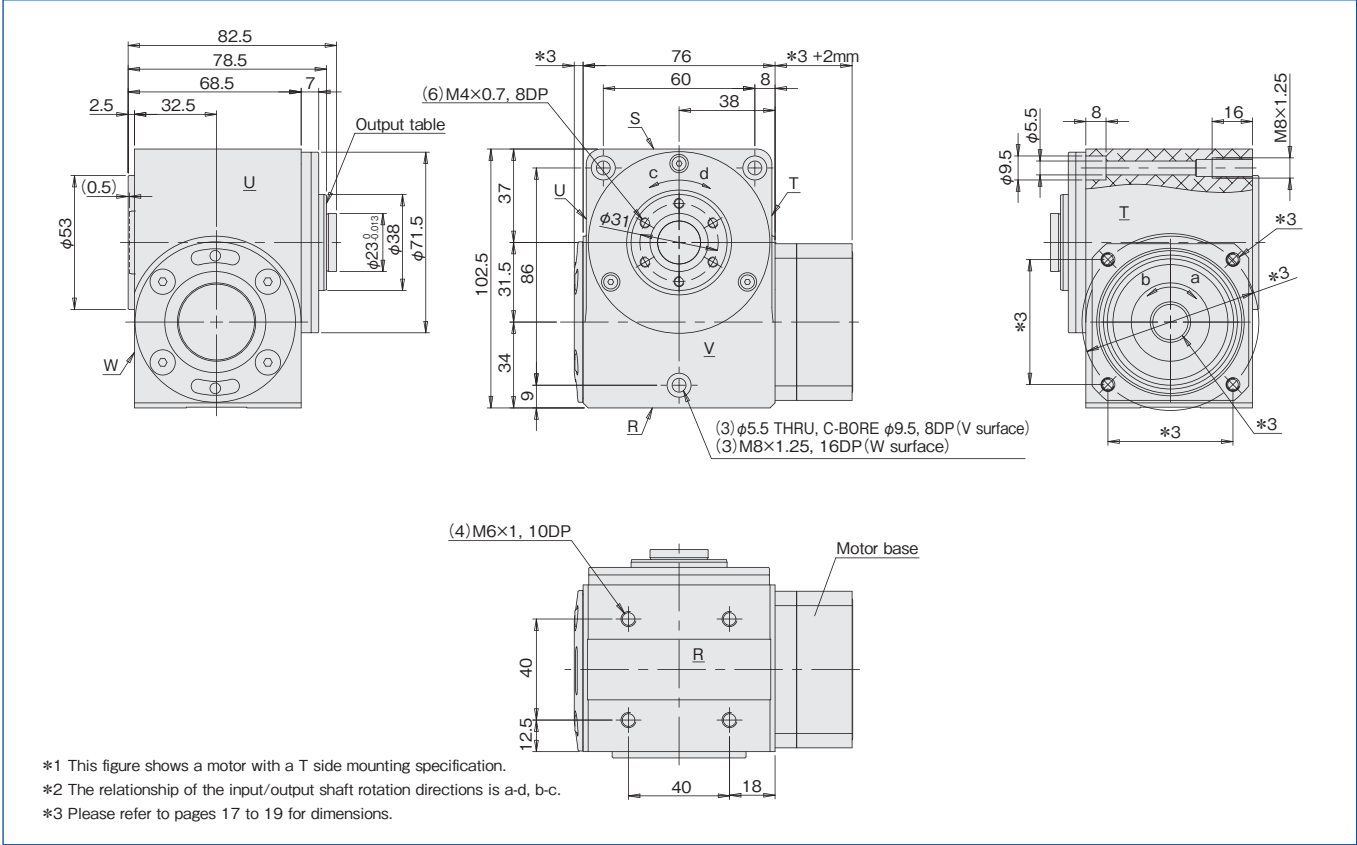
MR32's option A specification dimension drawings

Unit:mm



MR32's option B specification dimension drawings

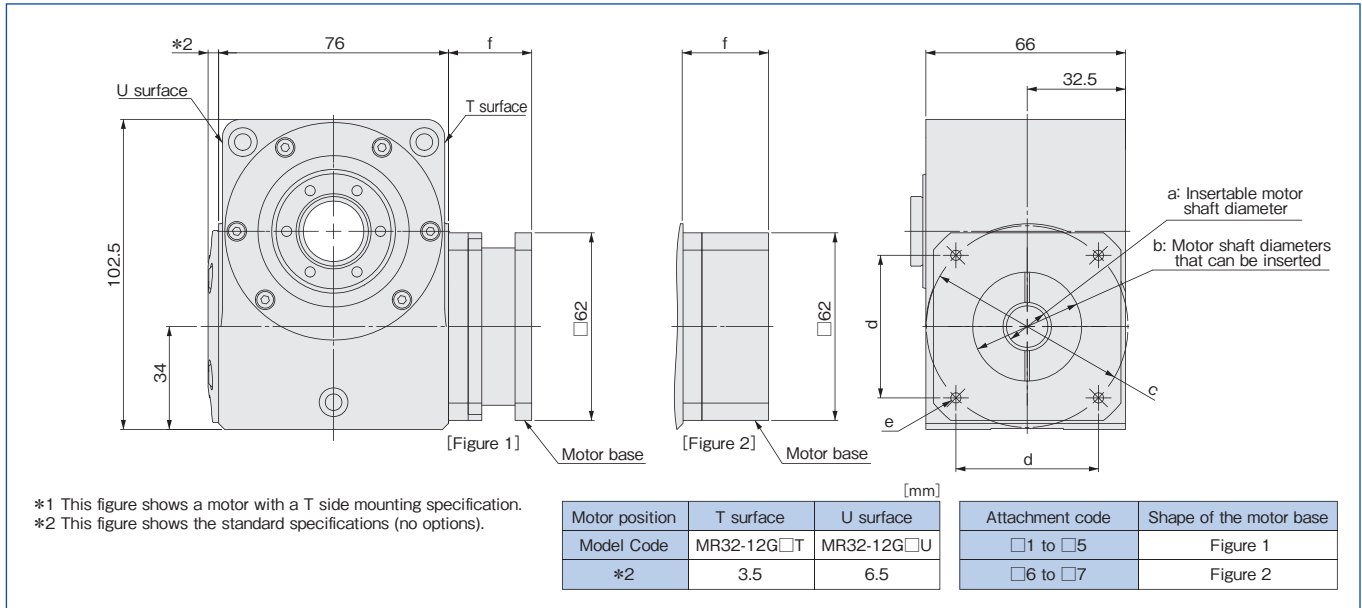
Unit:mm



MR32 Dimensions

MR32 Attachment Code Selection Chart With Attachment

Unit:mm



Attachment code	a	b	c	d	e	f	
B1	φ6.35	φ36	-	41	(4)M4×0.7, 5.5DP	27.5	
B3		φ38.1		47.14			
C2	φ8	φ36	-	50			
C3		φ38.1		47.14			
D4	φ9	φ40	φ63	-	(4)M5×0.8, 5.5DP	28.5	
D6		φ50	φ70	-	(4)φ5.5 THRU*		
E2	φ10	φ36	-	50	(4)M4×0.7, 5.5DP	27.5	
F5	φ11	φ50	φ70	-	(4)M4×0.7, 5.5DP	31.5	
N2	φ14	φ36	-	50	(4)M4×0.7, 5.5DP	27.5	
N5						31.5	
N6		φ50	φ70	-	-	(4)φ5.5 THRU*	28.5
N7							

Accessories	Attachment code				
	N6	N7	D6	N2, N5	Other All
Motor base	○	○	○	○	○
Clamp collar	○	○	○	○	○
Washer	-	○	○	-	-
Motor shaft sleeve	-	-	○	-	○
Motor base bolt	M5×35 (4)*			M5×10 (4)	
Clamp collar bolts	M6×16 (2)				

* The motor base mounting bolt, M5×35, is a bolt for fastening the motor to the base. (See motor mounting diagram 2)

* Refer to motor mounting hole dimensions in the motor mounting diagram [Figure 2].

Motor installation schematic

