

Lead Screw Support Units Square Type

Fixed Side Radial Bearing Type

When using Fixed Side Support Units combined with Support Side Support Units

Support Unit Sets combined Fixed Side Support Unit with Support Side Support Unit are available for lower prices.
Add -SET to part number of Fixed Side Support Units to select Support Unit Sets.

Lead Screw Support Units Square Type

Support Side



Listed Support Side Support Unit Sets are also available by adding -SET to part number of Fixed Side Support Units on P.792.

Fixed Side Support Unit

RoHS

Stop Plate Set

RoHS

Stop Plate Set for Digital Position Indicators Compact Mount

RoHS

Stop Plate Set for Large Position Indicator Mount

RoHS

Support Side Support Unit (MTUZ)

Available as Set by adding -SET to a part number of Fixed Side Support Unit

RoHS

Q	Fixed Side Support Unit		Accessory Dimensions		
	Bearing Nut	Collar Dimensions	I.D.	O.D.	Thickness
8	M8x1.0	14	8	11.5	3
10	M10x1.0	17	10	14	3
12	M12x1.0	19	12	15	3
15	M15x1.0	22	15	20	3

Part Number	Support Unit Set	A	B	C	F	h	J	H	G	T	L	R	(l)	X	d	E	(l1)	Bearing Nut	Clamp Lever	Bearing	Allowable Axial Load (N)
MTWZ	8 -SET	52	48	25	38	30	35	20	13	60.5	22	22	4.5	6.6	6	24	BNR8	CLDM6-32-M	B608ZZ	1300	
MTWZ-S	10 (Only When Purchasing Support Units In Set)	70	53	36	52	35	34	25	13	65.5	24	23	4.8	4.5	9	8	27	BNR10	B600ZZ	2300	
MTWZ-CP	12	70	58	36	52	40	39	30	13	24	23	24	4.5	10	27	10	27	BNR12	B6001ZZ	2600	
MTWZ-LP	15	80	62	41	60	40	39	30	17	70.5	27	25	5.8	5.5	11	12	31	BNR15	B6002ZZ	2900	

Part Number	Support Unit Set	Q	(-SET)
MTWZ	8	15	
MTWZ	10	12	-SET
MTWZ-S	12	12	-SET
MTWZ-CP	15	15	-SET

Support Unit Set	Support Unit Fixed Side	Stop Plate Set	Stop Plate Set for Digital Position Indicators Compact Mount	Stop Plate Set for Large Position Indicator Mount
Not included	MTWZ	MTWZ-S	MTWZ-CP	MTWZ-LP
Included	MTWZ-SET	MTWZ-S-SET	MTWZ-CP-SET	MTWZ-LP-SET

Parts Details

Number	Part Name	MTWZ	-S/-CP/-LP	-SET	Material	Surface Treatment
①	Fixed Side Support Unit	1	1	1	S45C	
②	Collar	1	1	1	SS400	
③	Bearing Nut (w/ Thread Protector)	1	1	1	SS400	Black Oxide
④	Stop Plate Set	-	1	(1)	SS400	
⑤	Hex Socket Head Cap Screw	-	2	(2)	SCM435	
⑥	Support Side Support Unit	-	-	1	S45C	
⑦	Retaining Ring for Shaft	-	-	1	Spring Steel	* No treatment
⑧	Radial Bearing	-	-	1	SUJ2	No treatment

Lead Screw Support Unit Main Body MTWZ

MTWZ-S

MTWZ-CP

MTWZ-LP

Two preload-adjusted bearings are integrated in a Fixed Side Support Unit.
As one of the specifications for Support Side Support Unit, any bearing is not integrated in the main body when the product is shipped.
Values in () are applicable only when support units are purchased in set.
Only Q8 product are surface-treated with Trivalent Chromate.
Drawing for MTWZ-S Stop Plate Set only

Stop Plate Set for Digital Position Indicators Compact Mount MTWZ-CP

MTWZ-LP

MTWZ-LP Drawing for Stop Plate Set only

Cross Section View a-a

Stop Plate Set for Digital Position Indicators Compact Mount MTWZ-CP

MTWZ-LP

MTWZ-LP Drawing for Stop Plate Set only

Cross Section View a1-a1

Stop Plate Set for Large Position Indicator Mount MTWZ-LP

MTWZ-LP Drawing for Stop Plate Set only

Cross Section View a2-a2

Do not use without inserting the screw shaft (empty tightening). It may deform, causing it to be unusable.
The clamp lever cannot be mounted on the opposite side.
A collar for the clamp lever is not included with Q8. The clamp lever mounting dimensions will be the same as the Large Type.

Do not use without inserting the screw shaft (empty tightening). It may deform, causing it to be unusable.
The clamp lever cannot be mounted on the opposite side.
A collar for the clamp lever is not included with Q8. The clamp lever mounting dimensions will be the same as the Large Type.

Support Side Support Unit Sets are available at 5 percent reduced price compared to Without Support Side Support Units.

Part Number	Support Unit Set	MTWZ	MTWZ-SET	MTWZ-S	MTWZ-S-SET	MTWZ-CP	MTWZ-CP-SET	MTWZ-LP	MTWZ-LP-SET
MTWZ	8 -SET								
MTWZ-S	10 (Only When Purchasing Support Units In Set)								
MTWZ-CP	12								
MTWZ-LP	15								

For Support Side Support Unit (MTUZ) details, P. 792.

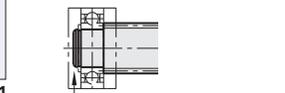


Support Side Support Unit can be purchased as the separate unit. Instead of this, however, purchasing it in combination with Fixed Side Support Unit (P.791) as set is the more economical.

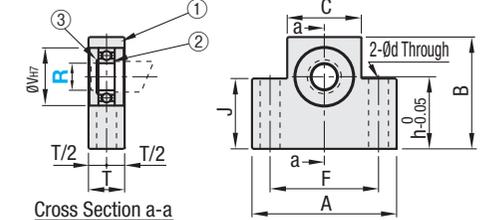
RoHS

Type	Material	Surface Treatment
MTUZ	S45C	Black Oxide

How to use Retaining Ring for Shaft



Retaining Ring for Shaft (Accessory) should be used for fixing the shaft part. Use Lead Screws for Support Units (P.789) in combination with this ring, or select a product with the retaining shaft groove added on the shaft part.



This is the same product as Support Side Set in P.791

Number	Part Name	Quantity
①	Housing	1
②	Radial Bearing	1
③	Retaining Ring for Shaft (Included)	1

Contrary to image on the photo, Radial Bearing on ②, as well as Retaining Ring for Shaft, is already included with the support unit when the support unit is shipped.

Part Number	Type	R	A	B	C	F	h	J	V	T	d	Bearing Type	Retaining Ring for Shaft	MTUZ	
														Unit Price	Volume Discount Rate
MTUZ	8	52	48	25	38	30	35	22	20	6.6	B608ZZ	NETW5	1 ~ 4 pc(s)	5 ~ 10 pcs.	
	10	70	53	36	52	35	34	26		9	B600ZZ	STWN10			
	12	70	58	36	52	40	39	28		9	B6001ZZ	STWN12			
	15	80	62	41	60	40	39	32		11	B6002ZZ	STWN15			

Ordering Example

Part Number: MTUZ15

Example

Stop Plate Set

Stop Plate Set for Digital Position Indicators Compact Mount

Stop Plate Set for Large Position Indicator Mount

Position Indicators are separately sold. P. 811, 812

Easy Assembly Design Dimensions Table

Type	Lead Screw		Lead Screw Support Units				Position Indicator Compact / Large		
	Shaft Dia.	Pitch	Fixed Side		Support Side		Type	Spindle Pitch	Alterations
			Type	Bearing I.D.	Type	Bearing I.D.			
MTW (L) K MTWB (L) K RMTW (L) K MTSW (L) K	12	2	MTWZ MTWZ-S MTWZ-CP MTWZ-LP	8	MTUZ	8	D□□□□-	2	-CSE6
	14	3		10		3		-CSE8	
	16	3		10		3		-CSE10	
	18	4		12		4		-CSE10	
	20	4		12		4		-CSE12	
22	5	15	15	4	-CSE12				
25	5			5	-CSE12				

By adding to (L) to a part number, the Reverse Screw Type is delivered. For position indicators, this Screw Type should be specified.
Precaution for Use: Use the position indicators within maximum rotational speed. P. 811, 812

For Digital Position Indicators Large, Spindle Pitch 2 cannot be selected.

Support Unit Mounting Procedure



- Insert the lead screw shaft into the fixed side support unit.
- After slipping a collar on, thread the included bearing nut on and temporarily tighten at 1/3 of the specified tightening torque. Mount the support side unit on the support end of the shaft and mount.
- While rotating the screw shaft, gradually tighten the bearing nut to obtain smooth motion from end to end.
- When smooth motion is obtained, tighten to full tightening torque to finish.

M	Nut Tightening Torque (N · cm)	Part Number
8	490	BNR8
10	930	BNR10
12	1370	BNR12
15	2350	BNR15

Value is for reference only.

Lead Screw Support Units - Round

Fixed Side Radial Bearing Type

When using Fixed Side Support Units combined with Support Side Support Units
Support Unit Sets combined Fixed Side Support Unit with Support Side Support Unit are available for lower prices.
Add -SET to part number of Fixed Side Support Units to select Support Unit Sets.

Lead Screw Support Units - Round

Support Side



Listed Support Side Support Unit Sets are also available by adding -SET to part number of Fixed Side Support Units on P.794.

Support Unit Main Body



RoHS

Stop Plate Set



RoHS

Stop Plate Set for Digital Position Indicators Compact Mount



RoHS

Stop Plate Set for Large Position Indicator Mount



RoHS

Support Side Support Unit (MRUZ)

Available as Set by adding -SET to a part number of Fixed Side Support Unit



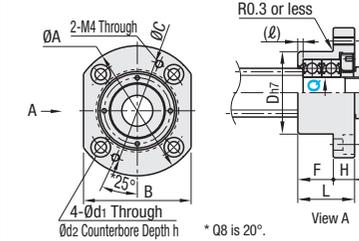
RoHS

Fixed Side Support Unit Accessory Dimensions

Q	Bearing Nut		Collar Dimensions		
	M	Applicable Wrench Size	I.D.	O.D.	Thickness
8	M8x1.0	14	8	11.5	5
10	M10x1.0	17	10	14	5
12	M12x1.0	19	12	15	5
15	M15x1.0	22	15	20	6

Support Unit Support Side Set	Type			
	Support Unit Main Body	Stop Plate Set	Stop Plate Set for Digital Position Indicators Compact Mount	Stop Plate Set for Large Position Indicator Mount
Not included	MRWZ	MRWZ-S	MRWZ-CP	MRWZ-LP
Included	MRWZ-SET	MRWZ-S-SET	MRWZ-CP-SET	MRWZ-LP-SET

Lead Screw Support Unit Main Body MRWZ

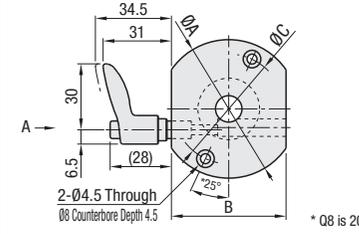


Parts Details

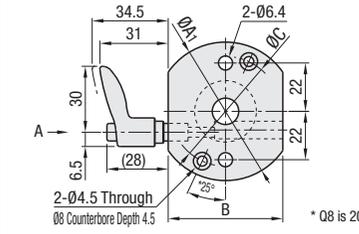
Number	Part Name	MRWZ	-S/-CP/-LP	-SET	Material	Surface Treatment
①	Fixed Side Support Unit	1	1	1	S45C	
②	Collar	1	1	1	SS400	
③	Bearing Nut (w/ Thread Protector)	1	1	1	SS400	Black Oxide
④	Stop Plate Set	1	1	(1)	SS400	
⑤	Hex Socket Head Cap Screw	-	2	(2)	SOM435	
⑥	Support Side Support Unit	-	-	1	S45C	
⑦	Retaining Ring for Shaft	-	-	1	Spring Steel	* No treatment
⑧	Radial Bearing	-	-	1	SUJ2	No treatment

* Two preload-adjusted bearings are integrated in a Fixed Side Support Unit.
* As one of the specifications for Support Side Support Unit, any bearing is not integrated in the main body when the product is shipped.
* Values in () are applicable only when support units are purchased in set.
* Only O8 product are surface-treated with Trivalent Chromate.

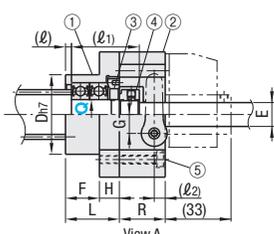
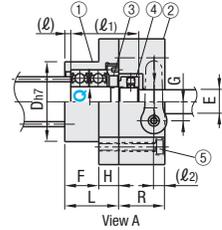
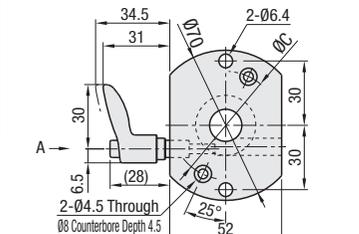
Stop Plate Set MRWZ-S



Stop Plate Set for Digital Position Indicators Compact Mount MRWZ-CP



Stop Plate Set for Large Position Indicator Mount MRWZ-LP



Do not use without inserting the screw shaft (empty tightening). It may deform, causing it to be unusable.
A collar for the clamp lever is not included with O8. The clamp lever mounting dimensions will be the same as the Large Type. The clamp lever cannot be mounted on the opposite side.

Part Number Type	Support Unit Support Side Set	L	H	F	D	A	A1	C	B	d1	d2	h	R	(L)	(L1)	(L2)	G	E	Bearing Nut	Clamp Lever	Bearing Type	Allowable Axial Load (N)
MRWZ	8	22	14	28	45	53	35	35	3.4	7	4	17		26			6.5	6	BNR8	CLDFC4-7-M	B608ZZ	1300
MRWZ-S	10	24	16	34	52	54	42	42	4.5	8	5	18	2.3	29			7.5	8	BNR10		B600ZZ	2300
MRWZ-CP	12	27	17	40	63	63	50	52	5.5	10	16	20		34			8.5	10	BNR12		B601ZZ	2600
MRWZ-LP	15	27	17	40	63	63	50	52	5.5	10	16	20		34			9.5	12	BNR15		B600ZZ	2900

Support Side Support Unit Sets are available at 5 percent reduced price compared to Without Support Side Support Units.

Part Number Type	Support Unit Support Side Set	MRWZ	MRWZ-SET	MRWZ-S	MRWZ-S-SET	MRWZ-CP	MRWZ-CP-SET	MRWZ-LP	MRWZ-LP-SET
MRWZ	8	-	-	-	-	-	-	-	-
MRWZ-S	10	-SET	-	-	-	-	-	-	-
MRWZ-CP	12	-	-	-	-	-	-	-	-
MRWZ-LP	15	-	-	-	-	-	-	-	-

Ordering Example

TYPE	Q	(-SET)
MRWZ	15	
MRWZ	12	-SET
MRWZ-CP	15	-SET



Support Side Support Unit can be purchased as the separate unit. Instead of this, however, purchasing it in combination with Fixed Side Support Unit (P.793) as set is the more economical.



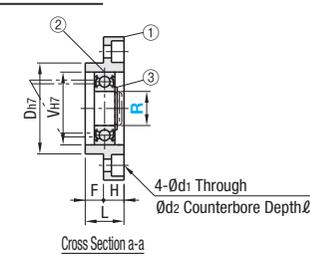
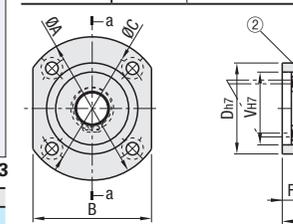
RoHS

This is the same product as Support Side Set in P.793

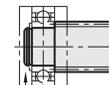
Number	Part Name	Quantity
①	Housing	1
②	Radial Bearing	1
③	Retaining Ring for Shaft (Included)	1

Contrary to image on the photo, Radial Bearing on ②, as well as Retaining Ring for Shaft, is already included with the support unit when the support unit is shipped.

Type	Material	Surface Treatment
MRUZ	S45C	Black Oxide



How to use Retaining Ring for Shaft



Retaining Ring for Shaft (Accessory) should be used for fixing the shaft part. Use Lead Screws for Support Units (P.789) in combination with this ring, or select a product with the retaining shaft groove added on the shaft part.

Type	R	L	H	F	D	A	C	B	V	d1	d2	ℓ	Bearing Type	Retaining Ring for Shaft	MRUZ	
															Unit Price	Volume Discount Rate
MRUZ	8	13	7	6	28	45	35	35	22	3.4	6.5	4	B608ZZ	NETW5	1 ~ 4 pc(s)	5 ~ 10 pcs.
	10	14	7	7	34	52	42	42	26	4.5	8	4.5	B600ZZ	STWN10		
	12	15	8	7	36	54	44	44	28	4.5	8	4.5	B601ZZ	STWN12		
	15	17	9	8	40	63	50	52	32	5.5	9.5	5.5	B602ZZ	STWN15		

Ordering Example Part Number MRUZ15

Example

Stop Plate Set



Stop Plate Set for Digital Position Indicators Compact Mount

The orientation of clamp lever can be toggled to the opposite side by trying to mount the stop plate set in a different manner.



Stop Plate Set for Large Position Indicator Mount

The mounting position of clamp lever can be changed from the right side to the left side and vice versa.



Position Indicators are sold separately. P. 811, 812

Features of Stop Plate Set, Wedge Mechanism

- The screw pulls the wedge up and fastens the shaft to require less torque force to tighten.
- High performance and optimal for the case where frequent adjustment is required. Brass wedges cause less damage to shafts.

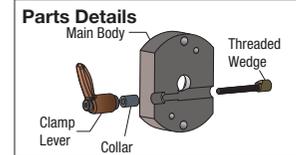
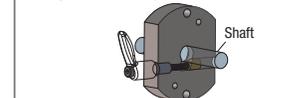


Image of Clamped State



Support Unit Mounting Procedure



- Insert the lead screw shaft into the fixed side support unit.
- After slipping a collar on, thread the included bearing nut on and temporarily tighten at 1/3 of the specified tightening torque. Mount the support side unit on the support end of the shaft and mount.
- While rotating the screw shaft, gradually tighten the bearing nut to obtain smooth motion from end to end.
- When smooth motion is obtained, tighten to full tightening torque to finish.

M	Nut Tightening Torque (N · cm)	Part Number
8	490	BNR8
10	930	BNR10
12	1370	BNR12
15	2350	BNR15

Value is for reference only.