

# **VEVOR SBR16 Linear Guide Rail Set Instruction Manual**

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**VEVOR SBR16 Linear Guide Rail Set** 



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This is the original instruction, please read all manual instructions carefully before operating. VEVOR reserves a clear interpretation of our user manual. The appearance of the product shall be subject to the product you received. Please forgive us that we won't inform you again if there are any technology or software updates on our product.

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#### **IMPORTANT SAFETY INFORMATION**



Read this material before using this product. Failure to do so can result in serious injury.

#### SAVE THIS MANUAL

#### **Precautions**

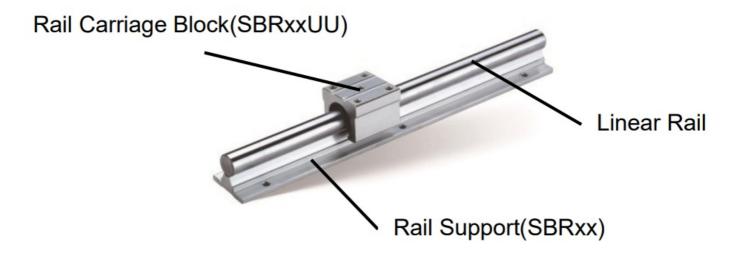
- 1. Proper installation: Linear guide rails must be installed properly to ensure accurate and smooth motion. Improper installation can cause misalignment, binding, or excessive wear.
- 2. Load capacity: Be sure to use a linear guide rail with a load capacity that is sufficient for the weight of the moving part. Overloading the guide rail can cause excessive wear or permanent damage.
- 3. Maintenance: Regular cleaning and lubrication of the guide rail and sliding block are important to maintain proper performance and extend the service life of the guide rail.
- 4. Alignment: Make sure that the linear guide rail is properly aligned and perpendicular to the direction of travel to reduce friction and wear.
- 5. Environmental conditions: Linear guide rails should be protected from extreme temperatures, moisture, dust, and other environmental conditions that can affect performance.
- 6. Protection from impact: Linear guide rails should be protected from impact and other sources of shock, as these can cause damage to the rail or sliding block.
- 7. Inspection: Regular inspection of the guide rail and sliding block is important to identify and address any problems or wear before they become serious.

#### **Troubleshooting**

- 1. Binding or sticking: This can be caused by misalignment, improper lubrication, or excessive wear. To resolve this issue, the guide rail and sliding block should be inspected and realigned if necessary, and lubricated with the appropriate grease.
- 2. Excessive wear: This can be caused by overloading, improper lubrication, or misalignment. To resolve this issue, the load on the guide rail should be reduced, and the guide rail and sliding block should be inspected, realigned if necessary, and lubricated with the appropriate grease.
- 3. Misalignment: This can be caused by improper installation or by wear overtime. To resolve this issue, the guide rail and sliding block should be inspected and realigned if necessary.
- 4. Noisy operation: This can be caused by a lack of lubrication, misalignment, or excessive wear. To resolve this issue, the guide rail and sliding block should be lubricated with the appropriate grease, inspected and realigned if necessary.
- 5. Reduced accuracy: This can be caused by misalignment, binding, or excessive wear. To resolve this issue, the guide rail and sliding block should be inspected, realigned if necessary, lubricated with the appropriate grease, and checked for proper alignment.

#### PRODUCT SPECIFICATIONS

**SBR LINEAR GUIDE RAIL** 



#### Linear Rail

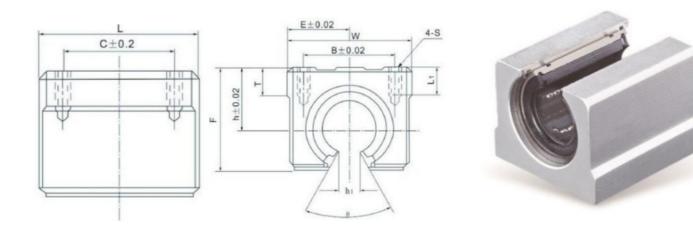
• Material: GCR15 ..... 45"

Hardness: HRC62+2(45\*:HRC58)Surface Hard-thickness: 0.8~2.5mm

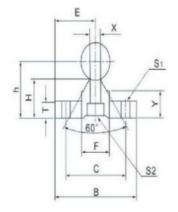
Surface roughness: 0.8S~1.6S
Straightness: 80µm/1000mm
Roundness: ≤3.0µm(Rmax)

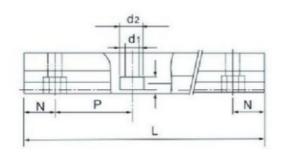


#### Rail Carriage Block(SBRxxUU)



# Rail Support(SBRxx)







## SBR12-C 1000L

Part na	Di	men	sions	s(mm)													
me	h	E	w		L		F	h1	θ		В	С		s		L 1	Т
SBR12 UU	1 7	20	40		39		2 7. 6	6	80°		2 8	26		М5		10	7
	Di	men	sions	s(mm)			'										
Part n ame		aft [ sion		E		h		В	Н	Т		F	x		Y	С	S 1
SBR12	Ф1 L	12×1	000	15		22	.5	3 2	16.5	4		1 2	6		1 2	2 2	Ф 5

## **SBR16-C 800L**

Part na	Dir	nensi	ons(	mm)													
me	h	E	w	L	F		h1		θ		В		С		s	L 1	Т
SBR16U U	2	22. 5	4 5	45	33		10		80°		32		30		M 5	1 2	9
	Dir	nensi	ons(	mm)									!				
Part na me	l	aft D ensi s	E	h		В		н		т		F		x	Y	С	S 1
SBR16	Ф1 00	6×8 L	20	25		40		17.8		5		18.5		8	1 1. 7	3 0	Ф

#### **SBR16-C 1000L**

Part na	Di	men	sion	s(mm)	1												
me	h	E	w		L		F	h 1	θ	В	С	s		L1		Т	
SBR16 UU	2	22 .5	45		45		3	1 0	8 0 °	3 2	30	M5		12		9	
	Di	men	sion	ıs(mm)			I		1		l	I					
Part n ame		aft [ ensid		E		h		В	Н	Т	F	x	Y		С		S 1
SBR16	Φ1 0L	16×1	00	20		25		4	1 7. 8	5	1 8. 5	8	11.7		30		Ф 6

#### **SBR16-C 1500L**

Part	Di	men	sio	ns(mn	n)													
name	h	E	W	1	L		F	h 1	θ		В	С	s		L1		Т	
SBR16 UU	2	22 .5	45	5	45		3	1 0	80°		3 2	30	M5		12		9	
	Di	men	sio	ns(mn	n)								-				-	
Part n ame		aft I ensi		E		h		В	н	Т		F	x	Y		С		S 1
SBR1 6	Ф1 0L	16×1	50	20		25		4 0	17.8	5		1 8. 5	8	11.7		30		Ф 6

**SBR16-C 2000L** 

Part	Di	men	sion	ns(mn	n)													
name	h	E	w		L		F	h 1	θ		В	С	s		L1		Т	
SBR16 UU	2	22 .5	45		45		3	1 0	80°		3 2	30	M5		12		9	
	Di	men	sion	ns(mn	n)				1				<u> </u>					
Part n ame		aft [ ensid		E		h		В	н	Т		F	х	Y		С		S 1
SBR1 6	Ф1 0L	16×2	00	20		25		4 0	17.8	5		1 8. 5	8	11.7		30		Ф

## **SBR20-C 800L**

Part na	Di	men	sior	ıs(mr	1)													
me	h	E	w		L		F	h 1	θ		В	С	s		L1		Т	
SBR20 UU	2	24	48		50		3 9	1	60°		3 5	35	M6		12		11	
	Di	men	sior	ns(mn	า)				'				1				1	
Part n ame		aft [ ensid		E		h		В	н	т		F	x	Y		С		S 1
SBR20	Φ2 L	20×8	00	22.5	1	27		4 5	17.7	5		1 9	8	10		35		Ф

## SBR20-C 1000L

Dort no	Di	men	sion	ıs(mm	1)													
Part na me	h	E	w		L		F	h 1	θ		В	С	S		L1		Т	
SBR20 UU	2	24	48		50		3	10	60°		3 5	35	M6		12		11	
	Di	men	sion	ıs(mr	1)						!	!					-	
Part n ame		aft [ ensid	- 1	E		h		В	Н	Т		F	x	Y		С		S 1
SBR20	Φ2 0L	20×1	00	22.5		27		4 5	17.7	5		1 9	8	10		35		Ф

## SBR20-C 1200L

Part na	Di	men	sion	ıs(mn	1)													
me	h	E	w		L		F	h 1	θ		В	С	s		L1		Т	
SBR20 UU	2	24	48		50		3 9	1	60°		3 5	35	М	6	12		11	
	Di	men	sion	ıs(mn	า)							ı						
Part n ame	1	aft [ ensid		E		h		В	н	т		F	X	Y		С		S 1
SBR20	Φ2 L	2012	00	22.5	;	27		4 5	17.7	5		1 9	8	10		35		Ф

## SBR20-C 1500L

Part na	Dii	men	sions(mr	n)														
me	h	E	w	L		F	h 1	θ		В	С		S		L1		Т	
SBR20 UU	2	24	48	50		3 9	1 0	60°		3 5	35		М6		12		11	
	Dii	men	sions(mn	n)								·						
Part n ame		aft men: s	si E		h		В	н	Т		F	X	<b>T</b>	Y		С		S 1
SBR20	Ф2 0L	20×1	50 22.5	;	27		4 5	17.7	5		1 9	8		10		35		Ф 6

SBR20-C 1800L

Dowl no	Di	men	sior	ıs(mn	1)													
Part na me	h	E	w		L		F	h 1	θ		В	С	S		L1		Т	
SBR20 UU	2	24	48		50		3 9	1 0	60°		3 5	35	М6		12		11	
	Di	men	sior	ns(mn	າ)													
Part n ame	1	aft [ ensid	- 1	E		h		В	н	Т		F	x	Y		С		S 1
SBR20	Φ2 0L	20×1	80	22.5		27		4 5	17.7	5		1 9	8	10		35		Ф

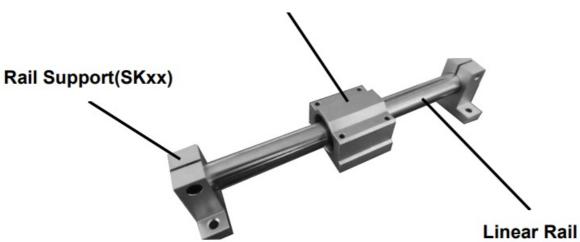
## SBR20-C 2200L

Part na	Di	men	sion	s(mn	1)													
me	h	E	w		L		F	h 1	θ		В	С	s		L1		Т	
SBR20 UU	2	24	48		50		3 9	1 0	60°		3 5	35	M6		12		11	
	Di	men	sion	s(mn	1)				1				<u> </u>					
Part n ame		aft [ ensid		E		h		В	н	Т		F	x	Y		С		S 1
SBR20	Φ2 L	2×22	00	22.5		27		4 5	17.7	5		1 9	8	10		35		Ф

# SBR25-C 1200L

Part na	Di	men	sioi	ns(mm)														
me	h	Е	w		L		F	h 1	θ	В	С		S		L1		Т	
SBR25 UU	2 7	3	60	ı	65		4 7	1 1. 5	5 0 °	4 0	40		М6		12		14	
	Di	men	sio	ns(mm)														
Part n ame		aft I ensi		E		h		В	н	т	F	x		Y		С		S 1
SBR25	Φ2 0L	25×1	20	27.5		33		5 5	2	6	2 1. 5	8		12		40		Ф 6. 5

# Rail Carriage Block(SCSxxUU)



#### Linear Rail

• Material: GCR15 ..... 45"

• Hardness: HRC62+2(45\*:HRC58)

• Surface hard-thickness: 0.8~2.5mm

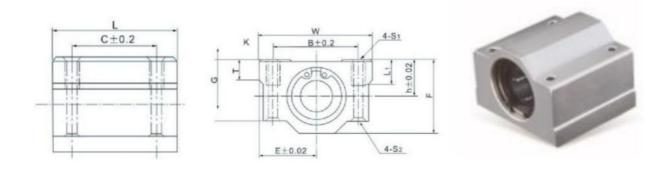
• Surface roughness: 0.8S~1.6S

• Straightness: 80µm/1000mm

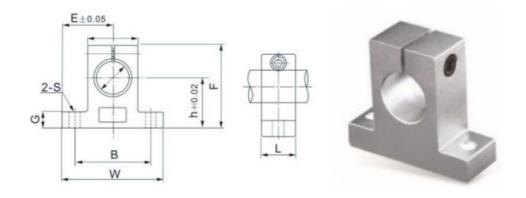
• Roundness: ≤3.0µm(Rmax)



## Rail Carriage Block (SCSxxUU)



## Rail Support (SKxx)



# SFC16-1000L

Part	Dimensions(mm)															
name	Т	h	E	w	L	F		G		В	С	K	S 1	S 2	L 1	
SCS16 UU	9	1 9	2 5	5 0	4	38	.5	32.5		36		3	7	M 5	4 .3	1 2
	Dimensions(mm)															
Part n ame	Shaf Di mension s		h	h E W		w		L		F		G	Р	В	s	
SK16	Φ16×100 2 0L 7			24		48		16	44		8	25	38	5 5		

# SFC20-1000L

Part	Dim	Dimensions(mm)																	
name	Т	h	E	w		L		F		G	В	С	К		S1		S2		L 1
SCS20 UU	11	21	2 7	54		50		41	41		40	4 0	7		M6		5.2		1 2
	Dim	Dimensions(mm)																	
Part n ame	Shaf Di mensio ns		h	E			w	w			F	G		Р		В		s	
SK20	Φ20×1 000L 31 30		60			20		51	10		30	45		.5					

Part n ame	Dim	ensi	ons	(mm)														
	T h		E	w	L		F		G	В	С	K		S1		S2		L 1
SCS20 UU	11	21	2 7	54	50		41		3 5	40	4 0	7		M6		5.2		1 2
	Dim	Dimensions(mm)																
Part n ame	Shaf Dimens ions		h	E		w		L		F	G		P		В		s	
SK20	Ф20 200		31	30		60		20		51	10		30		45		6.6	

Address Baoshanqu Shuangchenglu 803long 11hao 1602A-1609shi Shanghai

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Imported to USA: VEVOR STORE INC, 9448 RINCHMONDPL#ERANCHO CUCAMONGA, California, 91730 United States of America

UK REP

Pooledas Group Ltd Unit 5 Albert Edward House, The Pavilions Preston, United Kingdom

EC REP

SHUNSHUN GmbH Römeräcker 9 Z2021, 76351 Linkenheim-Hochstetten, Germany

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Technical Support and E-Warranty Certificate <a href="https://www.vevor.com/support">www.vevor.com/support</a>



**Documents / Resources** 



<u>VEVOR SBR16 Linear Guide Rail Set</u> [pdf] Instruction Manual SBR16 Linear Guide Rail Set, SBR16, Linear Guide Rail Set, Rail Set, Set

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#### References

- <u>vevor.com/support</u>
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Manuals+,