

# Mini Rods

## Selectable Tips

# Mini Rods

## O.D. Tolerance Selectable

End Shape			Material	Hardness
Sphere	Tapered	Taper SR		
MRSHQ	MRSHT	MRSHR	EN 1.3343 Equiv.	58HRC~
MRSSQ	MRSST	MRSST	EN 1.4125 Equiv.	56HRC~
MRSQG	MRSST	-	EN 1.4301 Equiv.	-

**Sphere**  
C0.1, 0.4, SR=D/2, D<sup>0</sup>-0.005, L<sup>+0.1</sup>/<sub>0</sub>

**Tapered**  
C0.1, 0.4, 15°, RL, D<sup>0</sup>-0.005, L<sup>+0.1</sup>/<sub>0</sub>

**Taper SR**  
C0.1, 0.4, 15°, SR, D<sup>0</sup>-0.005, L<sup>+0.1</sup>/<sub>0</sub>, a

RoHS10

### Sphere Type

Part Number	0.1mm Increment		Unit Price		
	D	L	EN 1.3343 Equiv. MRSHQ	EN 1.4125 Equiv. MRSSQ	EN 1.4301 Equiv. MRSQG
MRSHQ MRSSQ MRSQG	2.0~2.9	5.0~20.0			
		20.1~50.0			
		50.1~100.0			
3.0~3.9	5.0~20.0				
	20.1~50.0				
	50.1~100.0				
4.0~5.0	8.0~20.0				
	20.1~50.0				
	50.1~100.0				

### Tapered Type

Part Number	0.1mm Increment		RL D-2 (RLtan15°)≥0.2	Unit Price		
	D	L		EN 1.3343 Equiv. MRSHT	EN 1.4125 Equiv. MRSST	EN 1.4301 Equiv. MRSST
MRSHT MRSST MRSST	2.0~2.9	5.0~20.0	0.5~10			
		20.1~50.0				
		50.1~100.0				
3.0~3.9	5.0~20.0					
	20.1~50.0					
	50.1~100.0					
4.0~5.0	5.0~20.0					
	20.1~50.0					
	50.1~100.0					

### Taper SR Type

Part Number	0.1mm Increment		SR a (Reference)	Unit Price	
	D	L		EN 1.3343 Equiv. MRSHR	EN 1.4125 Equiv. MRSSR
MRSHR MRSSR	2.0~2.9	8.0~20.0	0.5	2.4~4.1	
		20.1~50.0			
		50.1~100.0			
	3.0~3.9	8.0~20.0	1	4.2~6.0	
		20.1~50.0			
		50.1~100.0			
4.0~5.0	8.0~20.0	1	4.7~6.6		
	20.1~50.0				
	50.1~100.0				

Ordering Example: Part Number - D - L - RL  
MRSHT - D3.5 - L100.0 - RL5

a dimensions vary within values listed above according to D dimensions.

O.D. Selectable	O.D. Configurable	Material	Hardness
KRSH	KRBSH	EN 1.3343 Equiv.	58HRC~
KRSK	KRBSK	EN 1.3505 Equiv.	56HRC~
KRSD	KRBSD	EN 1.2379 Equiv.	60HRC~
KRSS	KRBSS	EN 1.4125 Equiv.	56HRC~
KRSQ	KRBSQ	EN 1.4301 Equiv.	-

D	Tolerance Selection				
	M	P	G	H	S
0.30	+0.008	+0.012	-0.002	0	-
0.4	+0.002	+0.006	-0.008	-0.010	-
0.5	+0.012	+0.020	-0.004	0	-0.01
0.6	+0.004	+0.012	-0.012	-0.012	-

**C Dimension**  
or More or Less C  
D0.3 D0.59 Deburring D0.6 D5 0.1

**L Dimension Tolerance**  
or More or Less Tolerance  
5.0 6.0 ±0.1  
6.1 30.0 ±0.2  
30.1 120.0 ±0.3  
120.1 150.0 ±0.5

### O.D. Selectable

Part Number	L 0.1mm Increment	Unit Price				
		KRSH	KRSK	KRSD	KRSS	KRSQ
M G H	0.3					
	0.4					
	0.5					
	0.6					
	0.7	5.0~50.0				
	0.8					
	0.9					
	1					
	1.1					
	1.2	5.0~60.0				
	1.3					
	1.4	5.0~70.0				
	1.5	5.0~75.0				
	1.6	5.0~80.0				
	1.7					
1.8	5.0~90.0					
1.9						
2	5.0~100.0					
2.5						
3						
3.5						
4	5.0~150.0					
4.5						
5						



### O.D. Selectable

Part Number - L  
Type D Tolerance D - L  
KRSH M 0.5 - 50.0

### O.D. Configurable

Part Number - L - D  
Type D Tolerance No. L - D  
KRBSH H 0.6 - 30.0 - D0.55

### O.D. Configurable (0.01mm Increment)

Part Number	L 0.1mm Increment	D 0.01mm Increment	Unit Price				
			KRBSH	KRBSK	KRBSD	KRBSS	KRBSQ
M P G H S	0.5	0.30~0.49					
	0.6	0.50~0.59					
	1	0.60~0.99					
	1.5	1.00~1.49					
	2	1.50~1.99					
	2.5	2.00~2.49					
	3	2.50~2.99					
	3.5	3.00~3.49					
	4	3.50~3.99					
	4.5	4.00~4.49					
	5	4.50~4.99					



Part Number - L - (AC, LKC)  
KRSHM0.5 - 50.0 - LKC

Alterations	Point Taper	L Dimension Tolerance
Code	AC	LKC
Spec.	AC: 0.1mm Increment. ⊙ 0.5≤AC≤10.0 ⊙ D-2(AC tan15°)≥0.2 ⊙ One end only is tapered. [Ordering Code] AC 5.5	Changes L dimension tolerance within ±0.05 [Ordering Code] LKC