

# Mini Rods

## Selectable Tips

**Mini Rods – Selectable Tips**

End Shape			Material	Hardness
Sphere	Tapered	Taper SR		
MRS HQ	MRS HT	MRS HR	M2 Tool Steel	58 HRC min.
MRS SQ	MRS ST	MRS SR	440C Stainless Steel	56 HRC min.
MRS GQ	MRS GT	—	304 Stainless Steel	—

**Sphere**  
C0.1, 0.4 G, SR=D/2, 7.5°, L, RL, D-0.005

**Tapered**  
C0.1, 0.4 G, 7.5°, L, RL, D-0.005

**Taper SR**  
C0.1, 0.4 G, 7.5°, SR, L, RL, D-0.005

6.3 / (0.4) G

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### Sphere Type

Part Number	0.1 mm Increment	
	D	L
MRS HQ MRS SQ MRS GQ	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	0.1 mm Increment		RL D-2 (RLtan 15°) ≥0.2
	D	L	
MRS HT MRS ST MRS GT	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	0.1 mm Increment		SR	a (Reference)
	D	L		
MRS HR MRS SR	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		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			

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

**Part Number Example**  
Part Number - D - L - RL  
MRS HT - D3.5 - L100.0 - RL5

# Mini Rods

## Selectable Outer Diameter Tolerance

**Mini Rods – Selectable OD Tolerance**

Outer Dia. Selectable	Outer Dia. Configurable	Material	Hardness
KRSH	KRBSH	M2 Tool Steel	58 HRC min.
KRSK	KRBSK	W1-9 Tool Steel	
KRSD	KRBSD	D2 Tool Steel	60 HRC min.
KRSS	KRBSS	440C Stainless Steel	56 HRC min.
KRSG	KRBSG	304 Stainless Steel	—

**Tolerance Selection**

D	Tolerance Selection				
	M	P	G	H	S
0.30–3.00	+0.008 +0.002	+0.012 +0.006	-0.002 -0.008	0 -0.010	—
3.01–5.00	+0.012 +0.004	+0.020 +0.012	-0.004 -0.012	0 -0.012	-0.01

**C Dimension**

More Than	Or Less	C
D0.3	D0.59	Deburring
D0.6	D5	0.1

**L Dimension Tolerance**

More Than	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

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### Selectable Outer Diameter

Type	Tolerance Selection	Part Number	
		D	L 0.1 mm Increment
KRSH (D0.3–5) KRSK (D0.5–5) KRSD (D1–5) KRSS (D0.3–5) KRSG (D1–5)	M G H	0.3	5.0–50.0
		0.4	
		0.5	
		0.6	
		0.7	
		0.8	
		0.9	
		1	
		1.1	
		1.2	
		1.3	
		1.4	
		1.5	
		1.6	
		1.7	
1.8			
1.9			
2			
2.5			
3			
3.5			
4			
4.5			
5			

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

**Selectable Outer Diameter**

**Configurable Outer Diameter**  
Part Number - L - D  
Type D Tolerance No.  
KRBSH H 0.6 - 30.0 - D0.55

**Part Number Alterations**  
Part Number - L - (AC / LKC)  
KRSHM0.5 - 50.0 - LKC

Alterations	Point Taper	L Dimension Tolerance
Code	AC	LKC
Spec.	AC: Specify in 0.1 mm increment. ⓐ 0.5 ≤ AC ≤ 10.0 ⓑ D-2(AC tan 15°) ≥ 0.2 Ordering Code: AC 5.5	Changes L Dimension Tolerance within ±0.05 Ordering Code: LKC

### Configurable Outer Diameter (Specify in 0.01 m Increment)

Type	Tolerance Selection	No.	Part Number		
			L 0.01 mm Increment	D 0.01 mm Increment	
KRBSH (No. 0.5–5) KRBSK (No. 0.6–5) KRBSD (No. 1.5–5) KRBSS (No. 0.5–5) KRBSG (No. 1.5–5)	M P G H S	0.5	5.0–100.0	5.0–50.0	0.30–0.49
		0.6			
		1			
		1.5			
		2			
		2.5			
		3			
		3.5			
		4			
		4.5			
5					