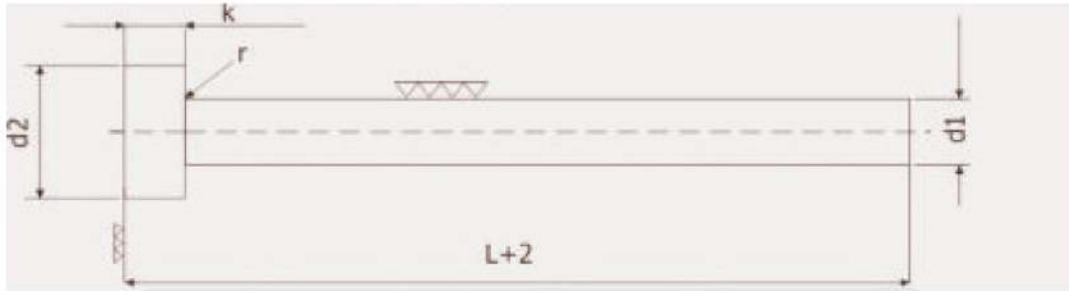




Ejector Pins (Type A) DIN 1530

Raw material :Through Hardened&Ground Steel
Hardness :Through Hardened up to 52 + 2 HRC



CODE	D1	G6	D2 -0.2	K -0.05	R	L + 2																									
						100	125	160	200	250	300/ 315	350	400	450	500	550	600/ 630	700	800	1000											
MATH	1	-0.003 -0.01	2.5	1.2	0.2	✓	✓	✓	✓																						
	1.5		3	1.5		✓	✓	✓	✓	✓	✓																				
	2.0		4	2		✓	✓	✓	✓	✓	✓																				
	2.5		5			✓	✓	✓	✓	✓	✓																				
	3.0		6			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
	3.2	-0.004 -0.012	6	3	0.3	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			
	4.0					8	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
	4.5							✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	5.0					10	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	5.5					12	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	6.0	-0.005 -0.014	14	5	0.5	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
	6.35					✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	7					✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	8					✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	8.5					16	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	9	-0.006 -0.017	18/20	7	0.8	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●		
	10					✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	10.5					✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	12					✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	12.5					22	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	14	-0.007 -0.02	24	8	1.0	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
	16					✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	18					✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	20					26	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	25					32	10	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

✓ - Ex-stock ● - Against order
Any other diameter and length available as per customer requirement
Ordering example : Code - d1*L-Quantity



Ejector Pins (Type A) DIN 1530

Raw material : Hot Die steel (H-11/H-13)
 Hardness: Surface Nitrided to 60-62 HRC
 Core: 45-50 HRC



CODE	D1	G6	D2 -0.2	K -0.05	R	L + 2																					
						100	125	160	200	250	300/ 315	350	400	450	500	550	600/ 630	700	800	1000							
MATH	1	-0.003 -0.01	2.5	1.2	0.2	✓	✓	✓	✓																		
	1.5		3	1.5		✓	✓	✓	✓	✓	✓																
	2.0		4	2		✓	✓	✓	✓	✓	✓																
	2.5		5			✓	✓	✓	✓	✓	✓																
	3.0		-0.004 -0.012	6		3	0.3	✓	✓	✓	✓	✓	✓	✓	✓	•	•	•	•	•	•	•	•	•	•	•	
	3.2	8		✓	✓			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
	4.0	10		✓	✓			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	4.5	12		✓	✓			✓	✓	✓	✓	✓	✓	•	•	•	•	•	•	•	•	•	•	•	•	•	
	5.0	14		✓	✓			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	5.5	-0.005 -0.014	16	5	0.5	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
	6.0					✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	6.35					✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	7					✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	8					✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	8.5	-0.006 -0.017	18/20	7	0.8	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		
	9					•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
	10					✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	10.5					✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	12					✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	12.5	-0.007 -0.02	22	8	1.0	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		
	14					•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
	16					✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	18					✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	20					✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	25	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			

✓ - Ex-stock • - Against order
 Any other diameter and length available as per customer requirement
 Ordering example : Code - d1*L-Quantity



Ejector Pins (Type A) JIS Standard

Raw material: Through Hardened & Ground Steel
Hardness: Through Hardened up to 52 + 2 HRC



CODE	D1 (G6)	D2 -0.2	K -0.02	L + 2																	
				100	150	200	250	300	350	400	450	500	550	600	650	700	750	800			
MJTH	1.0	6	4	●	●	●															
	1.5			●	●	●	●	●													
	2.0			●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	2.5			●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	3.0			●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	3.5	7	6 (5)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
	4.0			●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
	4.5			●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	5.0	9 (8)	6	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
	5.5			●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	6.0	10	6	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
	6.5			●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	7.0	11	6	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
	7.5			●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	8.0	13	8	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
	8.5			●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	9.0	14	8	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
	10.0			●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	12.0	17	8	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
	14.0			●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
16.0	21	8	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●		
20.0			●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
25.0	30	8	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●		

PIN DIA d1	DIA d1	TOL.
	1.0	-0.005
	1.5	-0.012
HEAD THICKNESS k	2 TO 25	-0.01
	4	-0.020
	6 TO 8	-0.030

✓ - Ex-stock ● - Against order
Any other diameter and length available as per customer requirement
Ordering example : Code - d1*L-Quantity



Ejector Pins (Type A) JIS Standard

Raw material : Hot Die Steel (H-11/H-13)
 Hardness: surface Nitrided to 60-62 HRC
 Core : 45-50HRC



CODE	D1 (G6)	D2 -0.2	K -0.02	L + 2															
				100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	
MJHS	1.0	6	4	●	●	●													
	1.5			●	●	●	●	●											
	2.0			●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	2.5			●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	3.0			●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	3.5	7	6 (5)	●	●	●	●	●	●	●	●	●	●	●	●	●	●		
	4.0	8		●	●	●	●	●	●	●	●	●	●	●	●	●	●		
	4.5	9 (8)		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
	5.0		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●		
	5.5	10	6	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
	6.0			●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
	6.5	11	6	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
	7.0			●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
	7.5	13	8	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
	8.0			●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
	8.5	14	8	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
	9.0			●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
	10.0	15	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●		
	12.0	17	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●		
	14.0	19	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●		
16.0	21	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●			
20.0	25	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●			
25.0	30	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●			

✓ - Ex-stock ● - Against order

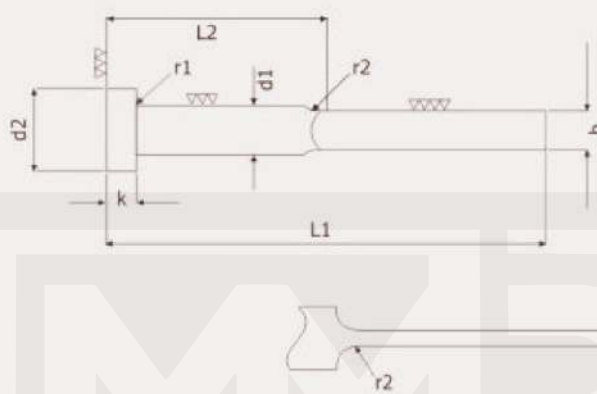
Any other diameter and length available as per customer requirement
 Ordering example : Code - d1*L-Quantity

PIN DIA d1	DIA d1	TOL.
	1.0	
1.5		-0.012
HEAD THICKNESS k <td>2 TO 25</td> <td>-0.01</td>	2 TO 25	-0.01
		-0.02
HEAD THICKNESS k	THK	TOL.
	4	0
	6 TO 8	-0.020
		0
		-0.030



Blade Ejector Pins DIN - 1530

Raw material : Through Hardened & Ground Steel
Hardness : Through Hardened up to 52 + 2 HRC



Code	a -0.015	b -0.015	d1 -0.2	d2 -0.2	k -0.05	r1	r2	L1										
								L2										
								60	80	100	125	160	200	250	315	400		
30	40	50	63	80	100	125	160	200										
MFTH	1.0	3.5	4	8	3	0.3	5	•	•	•								
	1.0	3.8	4.2	8	3	0.3	5	•	•	•	•	•						
	1.2	3.8	4.2	8	3	0.3	5		•	•	•	•						
	1.0	4.5	5	10	3	0.3	5		•	•	•	•						
	1.2	4.5	5	10	3	0.3	5		•	•	•	•						
	1.5	4.5	5	10	3	0.3	5		•	•	•	•						
	1.0	5.5	6	12	5	0.5	5		•	•	•	•						
	1.2	5.5	6	12	5	0.5	5		•	•	•	•						
	1.5	5.5	6	12	5	0.5	5			•	•	•	•					
	2.0	5.5	6	12	5	0.5	5				•	•	•					
	1.2	7.5	8	14	5	0.5	5				•	•	•					
	1.5	7.5	8	14	5	0.5	5				•	•	•	•				
	2.0	7.5	8	14	5	0.5	5					•	•	•	•			
	1.5	9.5	10	16	5	0.5	5					•	•	•	•			
	2.0	9.5	10	16	5	0.5	5						•	•	•	•		
	2.0	11.5	12	20	7	0.8	5							•	•	•	•	
	2.5	11.5	12	20	7	0.8	10								•	•	•	•
2.0	15.5	16	22	7	0.8	10								•	•	•	•	
2.5	15.5	16	22	7	0.8	10								•	•	•	•	

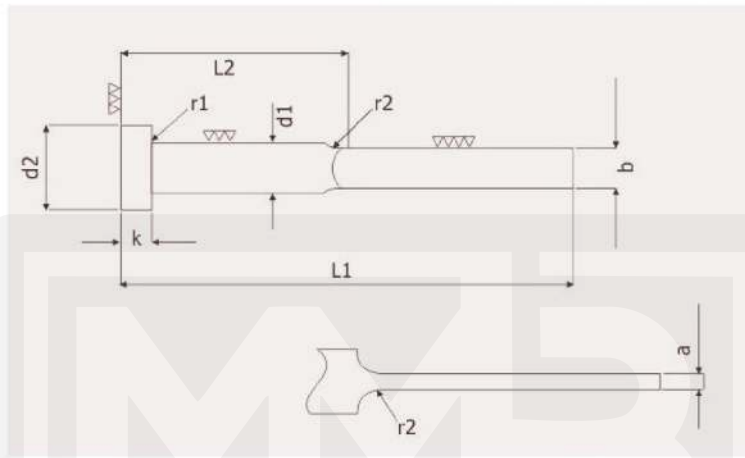
● - Available against order only

Ordering example : Code - d1*L1 / L2 (a*b) - Quantity



Blade Ejector Pins DIN - 1530

Raw material : Hot Die Steel (H-11/H-13)
 Hardness: surface Nitrided to 60-62 HRC
 Core : 45-50HRC



Code	a -0.015	b -0.015	d1 -0.2	d2 -0.2	k -0.05	r1	r2	L1									
								L2									
								60	80	100	125	160	200	250	315	400	
	30	40	50	63	80	100	125	160	200								
MFTH	1.0	3.5	4	8	3	0.3	5	•	•	•							
	1.0	3.8	4.2	8	3	0.3	5	•	•	•	•	•					
	1.2	3.8	4.2	8	3	0.3	5		•	•	•	•					
	1.0	4.5	5	10	3	0.3	5		•	•	•	•					
	1.2	4.5	5	10	3	0.3	5		•	•	•	•					
	1.5	4.5	5	10	3	0.3	5		•	•	•	•					
	1.0	5.5	6	12	5	0.5	5		•	•	•	•					
	1.2	5.5	6	12	5	0.5	5		•	•	•	•					
	1.5	5.5	6	12	5	0.5	5			•	•	•	•				
	2.0	5.5	6	12	5	0.5	5				•	•	•				
	1.2	7.5	8	14	5	0.5	5				•	•	•				
	1.5	7.5	8	14	5	0.5	5				•	•	•	•			
	2.0	7.5	8	14	5	0.5	5				•	•	•	•	•		
	1.5	9.5	10	16	5	0.5	5				•	•	•	•	•		
	2.0	9.5	10	16	5	0.5	5					•	•	•	•	•	
	2.0	11.5	12	20	7	0.8	5						•	•	•	•	•
	2.5	11.5	12	20	7	0.8	10						•	•	•	•	•
2.0	15.5	16	22	7	0.8	10						•	•	•	•	•	
2.5	15.5	16	22	7	0.8	10						•	•	•	•	•	

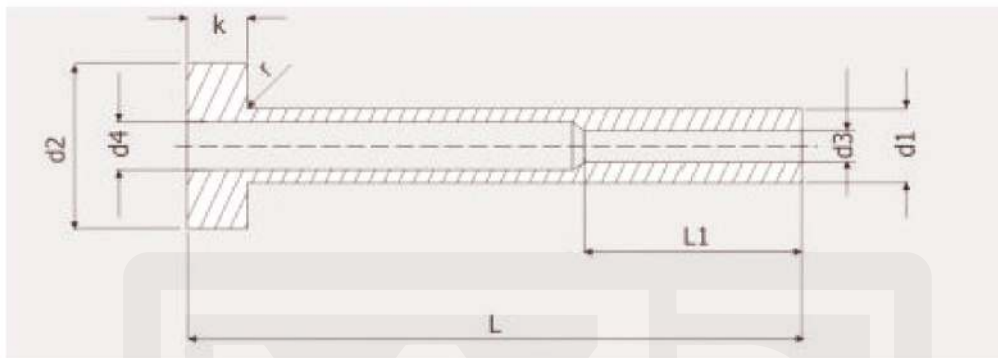
• - Available against order only

Ordering example : Code - d1*L1 / L2 (a*b) - Quantity



Ejector Sleeves DIN - 16756

Raw material : Through Hardened & Ground Steel
Hardness : Through Hardened up to 52 + 2 HRC



Code	d1 g6	d3 h5	d2 -0.2	k -0.05	d4 -0.1	L1	r	L1										
								60	75	100	125	150	175	200	225	250	275	300
MSTH	3	1.5	6	3	1.8	25	0.3	•	•	✓	✓	✓	•	✓	•	✓	•	•
		1.6			2			•	•	•	•	•	•	•	•	•	•	
	4	2	8	3	2.4	35	0.3	•	•	✓	✓	✓	•	✓	•	✓	•	•
		2.2			2.5			•	•	•	•	•	•	•	•	•	•	
	5	2.5	10	5	3	45	0.3	•	•	✓	✓	✓	•	✓	•	✓	•	•
		2.7			3.5			•	•	•	•	•	•	•	•	•	•	
		3			4			•	•	•	•	•	•	•	•	•	•	
	6	3.5	12	5	4	50	0.5	•	•	•	•	•	•	•	•	•	•	•
		3.7			4.5			•	•	•	•	•	•	•	•	•	•	
	8	4.2	14	7	5	50	0.5	•	•	•	•	•	•	•	•	•	•	•
		5			5.5			•	•	✓	✓	✓	•	✓	•	✓	•	
		5.2			6.5			•	•	•	•	•	•	•	•	•	•	
	10	6	16	7	6.5	50	0.8	•	•	✓	✓	✓	•	✓	•	✓	•	•
		6.2			8.5			•	•	•	•	•	•	•	•	•	•	
	12	8	20	7	8.5	50	0.8	•	•	•	•	•	•	•	•	•	•	•
		8.2			10.5			•	•	•	•	•	•	•	•	•	•	
	14	10	22	7	10.5	50	0.8	•	•	•	•	•	•	•	•	•	•	•
		12			12.5			•	•	•	•	•	•	•	•	•	•	

✓ - Ex-stock • - Against order

Sleeves can be made upto 1500mm long

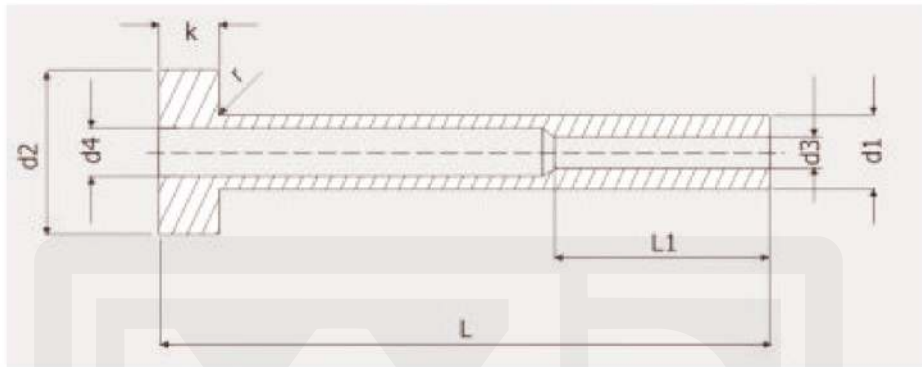
Any other diameter and length available as per customer requirement (Ref. drawings page # 16)

Ordering example : Code - d1*d3*L-Quantity



Ejector Sleeves DIN - 16756

Raw material : Hot Die Steel (H-11/H-13)
 Hardness: surface Nitrided to 60-62 HRC
 Core : 45-50HRC

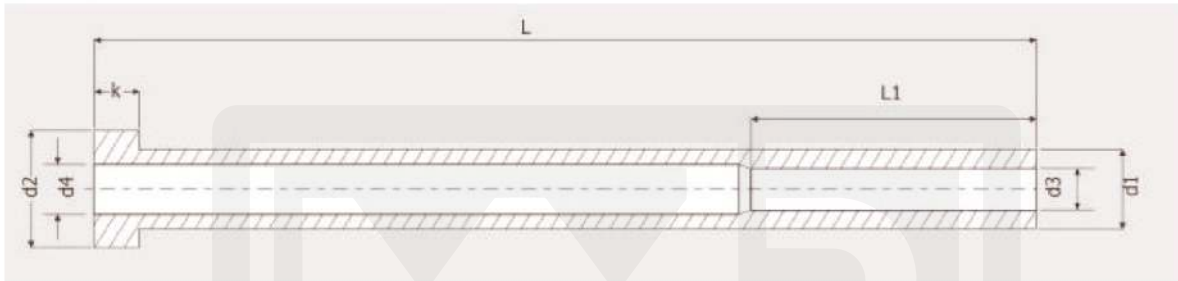


Code	d1 g6	d3 h5	d2 -0.2	k -0.05	d4 -0.1	L1	r	L1												
								60	75	100	125	150	175	200	225	250	275	300		
MSTH	3	1.5	6	3	1.8	25	0.3	•	•	✓	✓	✓	•	✓	•	✓	•	•		
		1.6			2			•	•	•	•	•	•	•	•	•	•			
	4	2	8		2.4	35		•	•	✓	✓	✓	•	✓	•	✓	•	•	•	
		2.2			2.5			•	•	•	•	•	•	•	•	•	•	•		
	5	2.5	10		5	45		3	0.5	•	•	✓	✓	✓	•	✓	•	✓	•	•
		2.7						3.5		•	•	•	•	•	•	•	•	•	•	
		3		4			•	•		•	•	•	•	•	•	•	•			
	6	3.5	12	7	50	4	0.8	•	•	•	•	•	•	•	•	•	•	•		
		3.7				4.5		•	•	•	•	•	•	•	•	•	•			
	8	4.2	14	7	50	5	0.8	•	•	•	•	•	•	•	•	•	•	•		
		5				5.5		•	•	✓	✓	✓	•	✓	•	✓	•			
	10	6	16	7	50	6.5	0.8	•	•	✓	✓	✓	•	✓	•	✓	•	•		
		6.2				8.5		•	•	•	•	•	•	•	•	•	•			
	12	8	20	7	50	8.5	0.8	•	•	•	•	•	•	•	•	•	•	•		
		8.2				10.5		•	•	•	•	•	•	•	•	•	•			
	14	10	22	7	50	10.5	0.8	•	•	•	•	•	•	•	•	•	•	•		
		12				12.5		•	•	•	•	•	•	•	•	•	•			

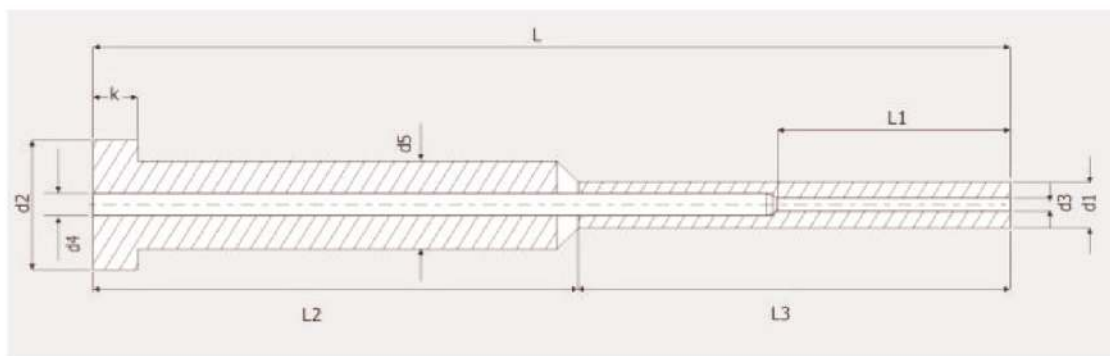
✓ - Ex-stock • - Against order
 Sleeves can be made upto 1500mm long
 Any other diameter and length available as per customer requirement (Ref. drawings page # 16)
 Ordering example : Code - d1*d3*L-Quantity



**Reference Drawings
(Customized Ejector Sleeves)**



d1	d3	d4	d2	k	L1	L



d1	d3	d4	d2	k	L1	L2	L3	L

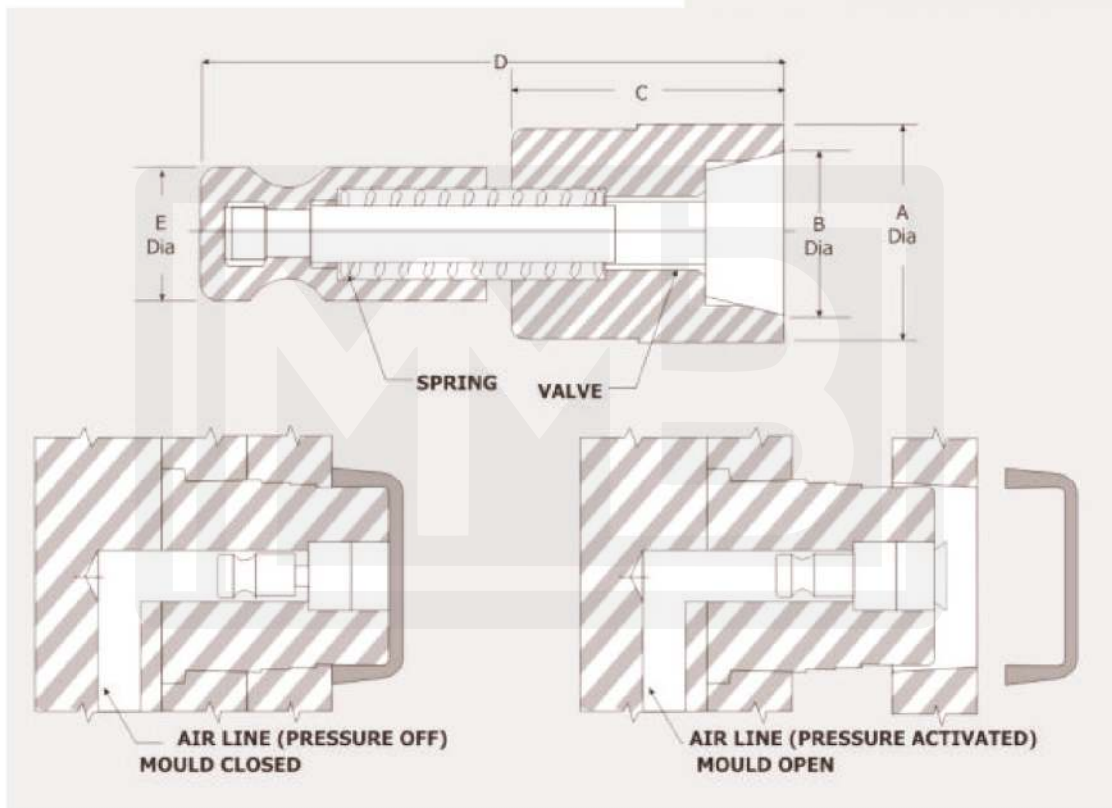
Please specify tolerance for all dimensions



Air Ejector pin (Type A)

Raw material : SUS -420

Hardness: 47 - 52 HRC



Code	Diameter A	Diameter B (approx)	C Body length	D Overall length	Diameter E
MMA AE 01	8	6.6	11	24	6
MMA AE 02	10	7.5	11	24	6
MMA AE 03	12	9.7	18	34	8
MMA AE 04	16	13	20	38	8
MMA AE 05	18	14.9	22	46	12
MMA AE 06	20	16	26	50	12
MMA AE 07	25	20	26	50	12

Available Ex - stock

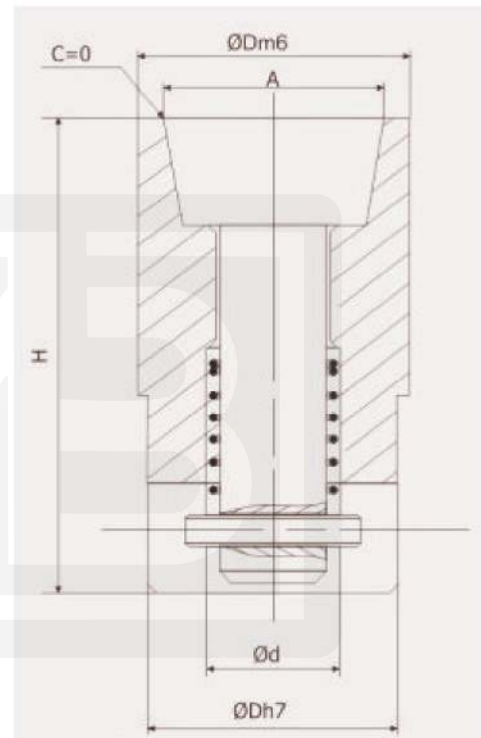
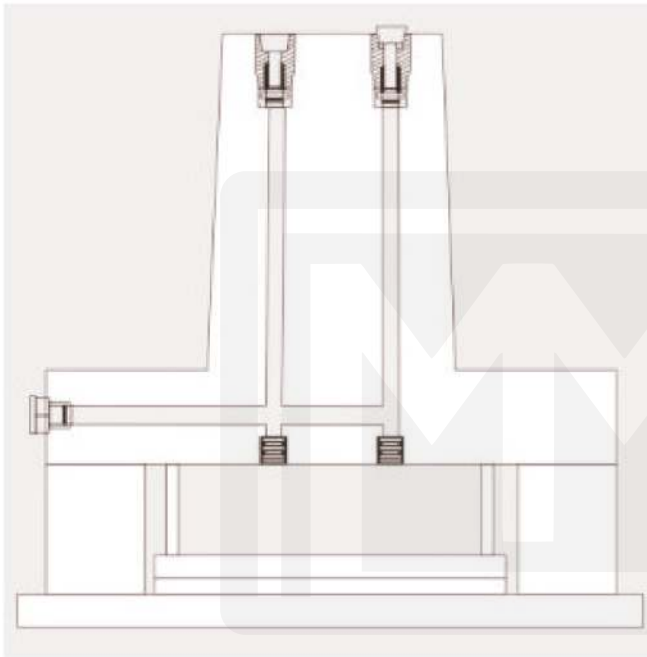
Ordering example : Code - Quantity



Air Ejector Pin (Type B)

Raw material : SUS -420

Hardness: 47 - 52 HRC



Code	D	H	d	A
MMB AE 01	6	12	4.2	4.5
MMB AE 02	8	15	4.5	6
MMB AE 03	10	20	7.0	7.5
MMB AE 04	12	25	7.7	9.0
MMB AE 05	16	30	10.3	12.0
MMB AE 06	18	35	12.0	14.0
MMB AE 07	20	35	12.9	15.0
MMB AE 08	25	45	14.9	20.0
MMB AE 09	30	45	18.0	25.0

- These air ejector pins are used eject plastic product without any hole on its wall
- Air pressure is uniformly released from the pin which helps the product to eject easily from the mould
- Use soft metal or polyurethane hammer to fit the pin in the mould

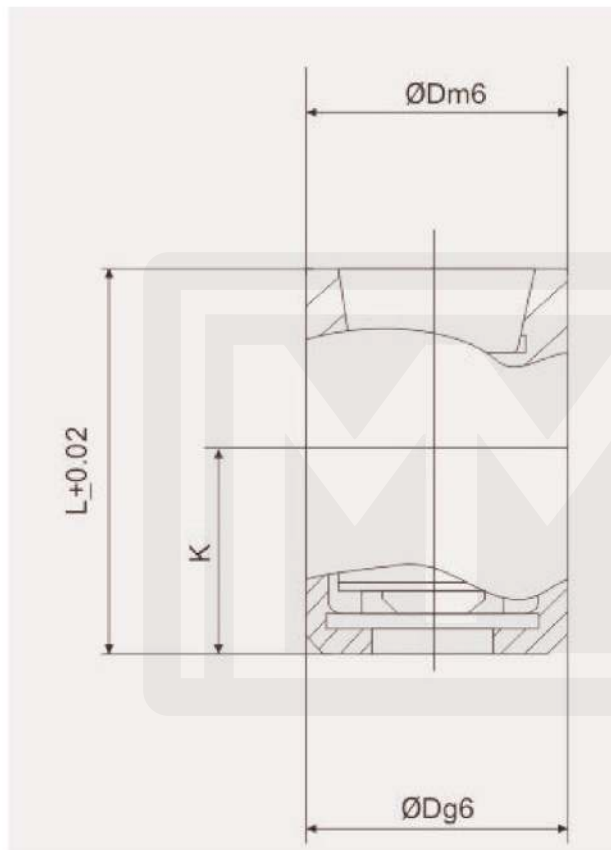
Available Ex - stock

Ordering example : Code - Quantity



Air Ejector pin (Type C)

Raw material : SUS -420
Hardness: 47 - 52 HRC



- C- Type air ejector pins are made from stainless steel specially for the moulding thin and small plastic parts
- It can provide the air pressure ranging from 1.5 to 6 bars

Code	ØDm6		ØDg6		L	K
MMC AE 01	5	0.012	5	-0.004	12	7
MMC AE 02	6	0.004	6	-0.012		
MMC AE 03	8	0.015	8	-0.005		
MMC AE 04	10	0.006	10	-0.014		
MMC AE 05	12	0.018	12	-0.006		
MMC AE 06	16	0.007	16	-0.017	20	12
MMC AE 07	20	0.021	20	-0.007		
		0.008		-0.02		

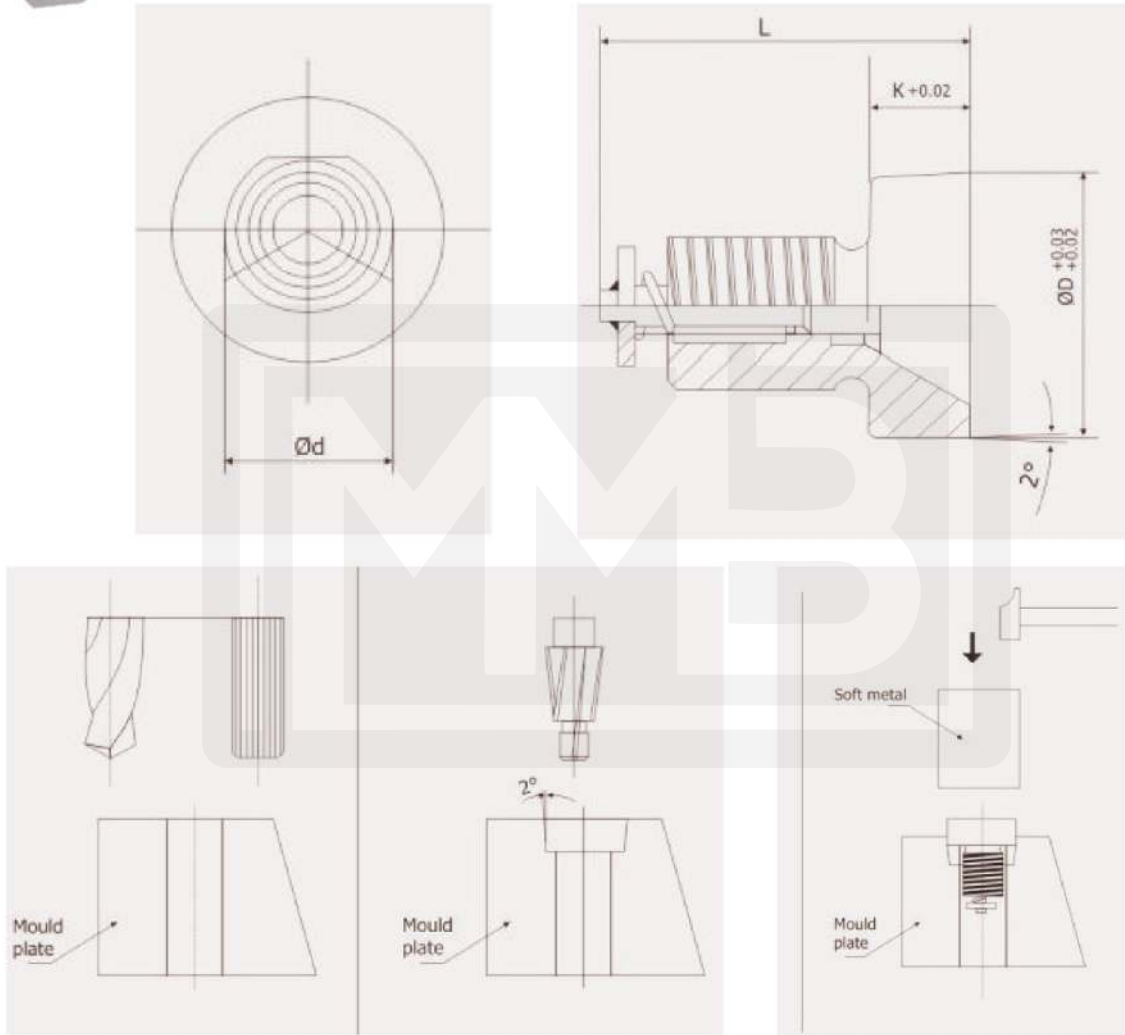
Available Ex - stock

Ordering example : Code - Quantity



Air Ejector Pin (Type D)

Raw material : Beryllium Copper SUS -420
Hardness: 47 - 52 HRC



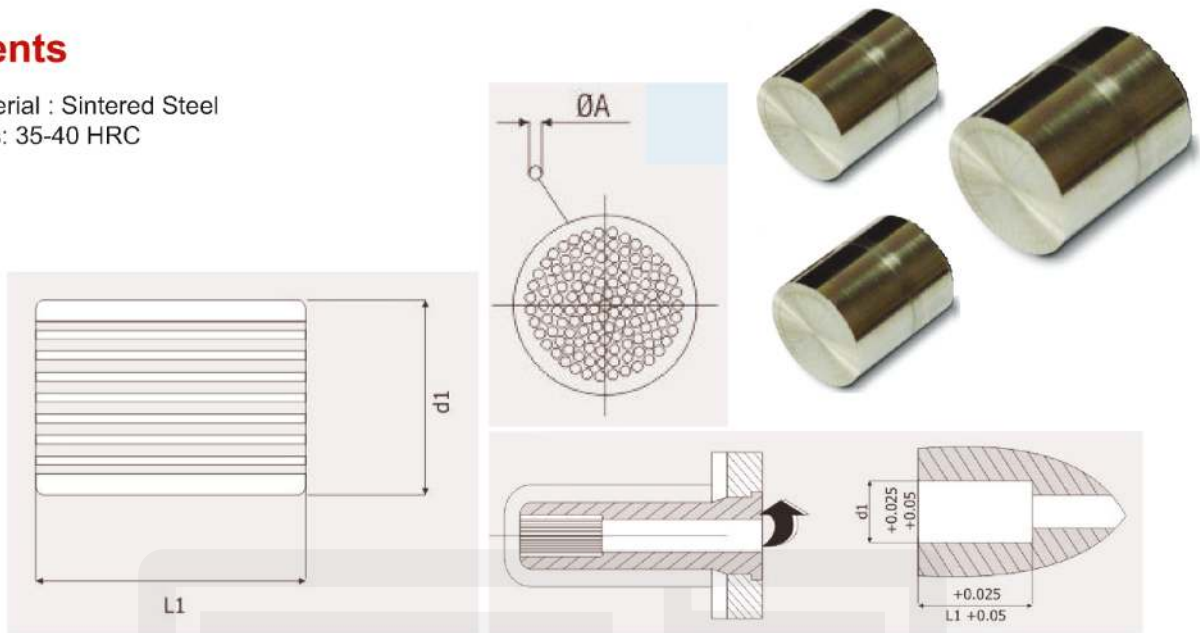
Code	$\text{ØD}^{+0.03}_{+0.02}$	$\text{K}^{+0.02}$	L	Ød
MMD AE 01	8	5.0	16	6.0
MMD AE 02	12	5.0	21	8.0
MMD AE 03	16	6.0	22	10.0

Available Ex - stock

Ordering example : Code - Quantity

Air Vents

Raw material : Sintered Steel
Hardness: 35-40 HRC



Code	A	d1	L1
MT-AV-005-410	0.05	4	10
MT-AV-005-610	0.05	6	10
MT-AV-005-810	0.05	8	10
MT-AV-005-1012	0.05	10	12
MT-AV-005-1212	0.05	12	12
MT-AV-005-1614	0.05	16	14
MT-AV-005-2015	0.05	20	15
MT-AV-005-2815	0.05	28	15

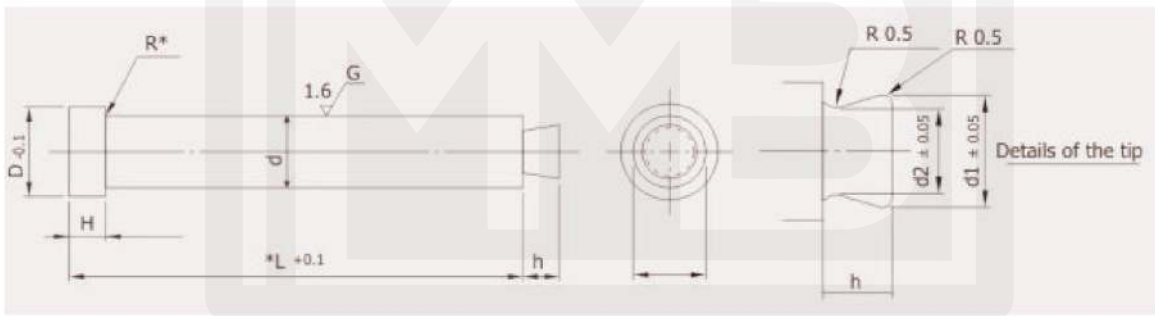
- For plastic injection moulding
 - Applicable for thin wall product
 - Increased productivity through fast & easy exchange of air from venting plug
 - High venting efficiency
 - High thermal conductivity
 - Long durability
 - Corrosion resistant
 - **Also available in BLOCK form (Size : 50mm *50mm*50mm; 75mm*30mm; 200mm*150mm*80mm)**
- Air Vent is machinable.**

Ordering example : Code - Quantity



Runner Lock Pin

Raw material : (H-11 / H-13)
Hardness: 52+2 HRC



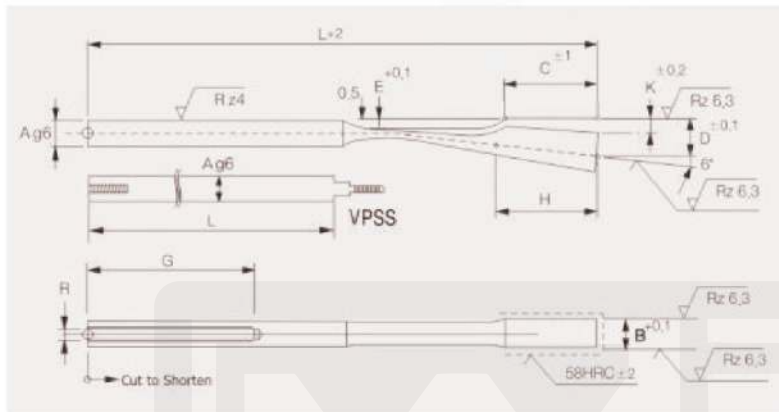
Code			D	H	h	d1	d2
	d	Tolerance					
MRP 1	4	-0.010	8	4	2.5	2.8	2.3
MRP 5	5		9			3.3	2.8
MRP 6	6	-0.022	10	6	3	3.8	3.0
MRP 8	8	-0.013	13		4	4.8	4.0
MRP 10	10	-0.028	15	8	5	6.0	4.8

Available against order

Ordering example : Code - Quantity

Spring Core

Raw material : Spring Steel - 1.8159
Hardness: 45+3 HRC

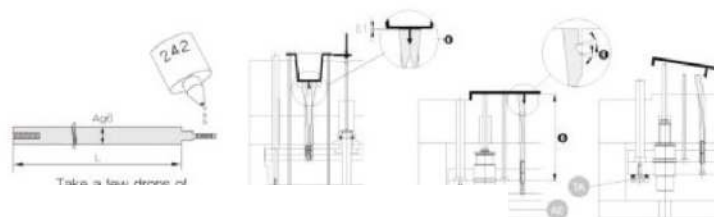


Manufactured from spring steel this unit allows the release of small undercuts. It is activated by the ejector plates as a standard ejector

Assembling Manual :

- ~ The supporting area of spring core must be the same length as dimension "H" on the spring core.
- ~ The adjustment area must be atleast 1/3 of the dimension "C"
- ~ The stroke of the spring core must be the same or smaller than the dimension "C"
- ~ The plate that houses the shaft of the core must be min.15mm in all cases
- ~ The draft angle must be min .5°
- ~ The core length must be 0.02 to 0.05 mm larger than its own hole
- ~ General tolerance of adjustment is H7/g6
- ~ After the core are adjusted,remove 0.1 mm to ensure smooth ejection

Code	A	B	C	D	E	F	G	K	L	R
MSC - 0606	6	6.2	22	9	3.5	40	25	3.5	125	M4
MSC - 0608	6	8.2	22	9	3.5	40	25	3.5	125	M4
MSC - 0808	8	8.2	25	11.5	4.5	50	30	4.5	140	M5
MSC - 0810	8	10.2	25	11.5	4.5	50	30	4.5	140	M5
MSC - 0812	8	12.2	25	11.5	4.5	50	30	4.5	140	M5
MSC - 1014	10	14.2	30	15	5.5	60	38	5.5	175	M6
MSC - 1016	10	16.2	30	15	5.5	60	38	5.5	175	M6
MSC - 1018	10	18.2	30	15	5.5	60	38	5.5	175	M6



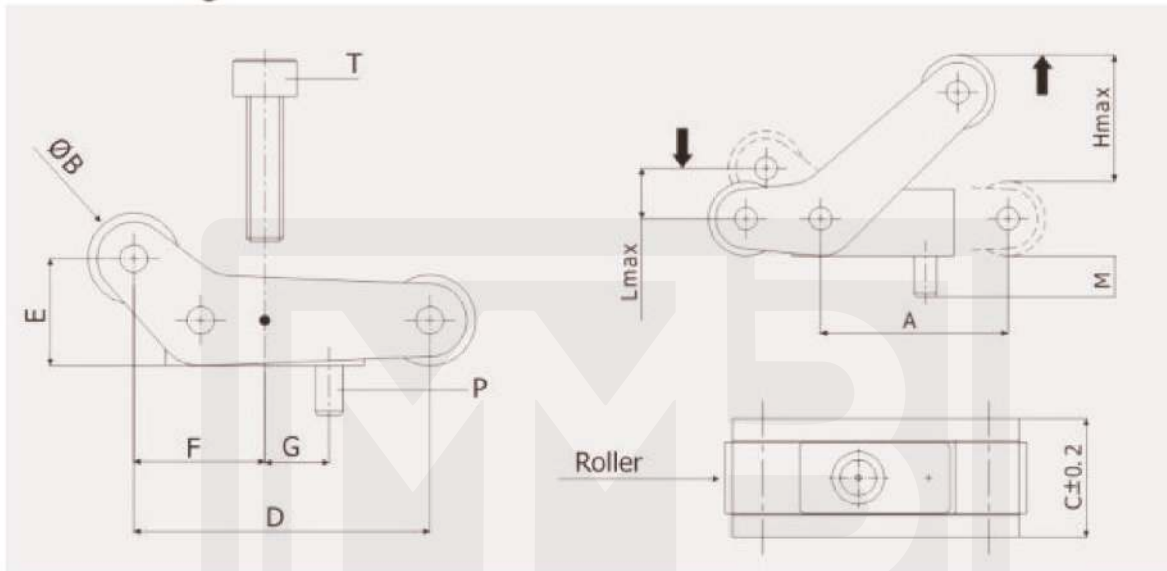
Available against order

Ordering example : Code - Quantity

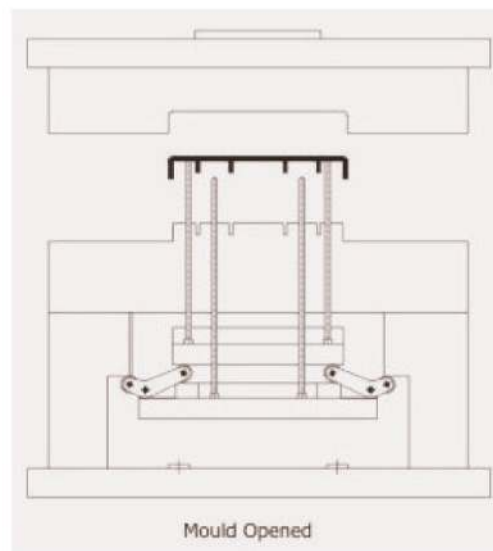
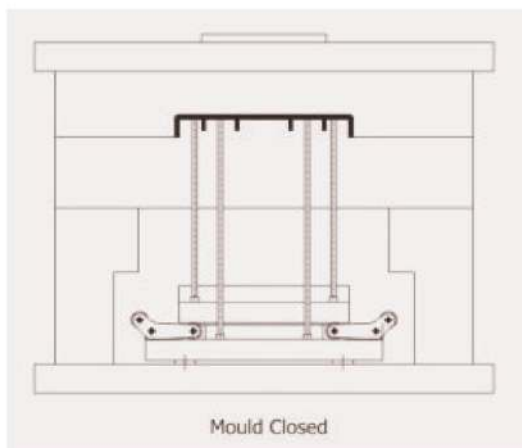


Plate Accelerator

Raw material : Tool Steel - 1.2510
Hardness: 52+2 HRC



Code	A	B	C	D	E	F	G	H max.	L.max	P	T	Max.Force
MPA-001	20	8	13.2	25.8	9.4	11.4	6	13.6	5.5	Ø2.5x10	M3x12	75 kgf
MPA-002	25	10	16	32.3	11.8	14.3	7	17	6.8	Ø3x12	M4x16	125 kgf
MPA-003	37.5	15	22	48.5	17.7	21.5	10.5	25.5	10.2	Ø4x16	M6x25	250 kgf
MPA-004	50	20	30	64.6	23.6	28.6	14	34	13.6	Ø5x20	M8x30	500 kgf



Available Ex - stock

Ordering example : Code - Quantity

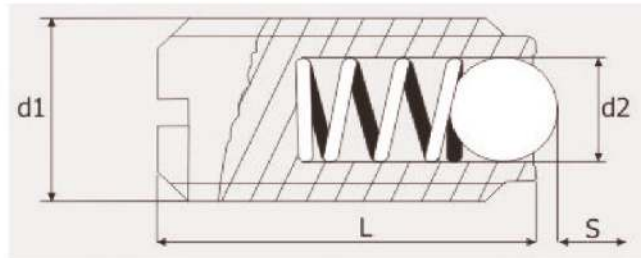


Spring Plungers (Screw type)

With Hardened Polished Stainless Steel Ball



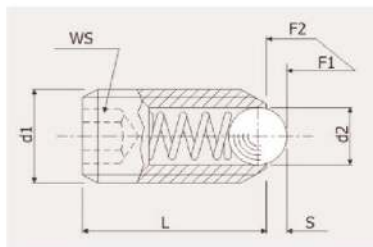
Ordering Example: Code-quantity
M 16 - 50 pieces



Code	d1	L	S	d2	Weight	Intial force	Final Force
					g	N	N
MSP M 4	M4	9	0.8	2.5	0.5	6	12
MSP M 4	M5	12	0.9	3.0	0.8	7	13
MSP M 4	M6	14	1.0	3.5	1.7	9	15
MSP M 4	M8	16	1.5	5.0	3.5	20	35
MSP M 4	M10	19	2.0	6.0	6.0	25	45
MSP M 4	M12	22	2.5	8.0	10.0	35	60
MSP M 4	M16	24	3.5	10.0	25.5	65	110

With Hardened
Polished
Stainless steel
Ball

Spring
Plungers
Allen key type



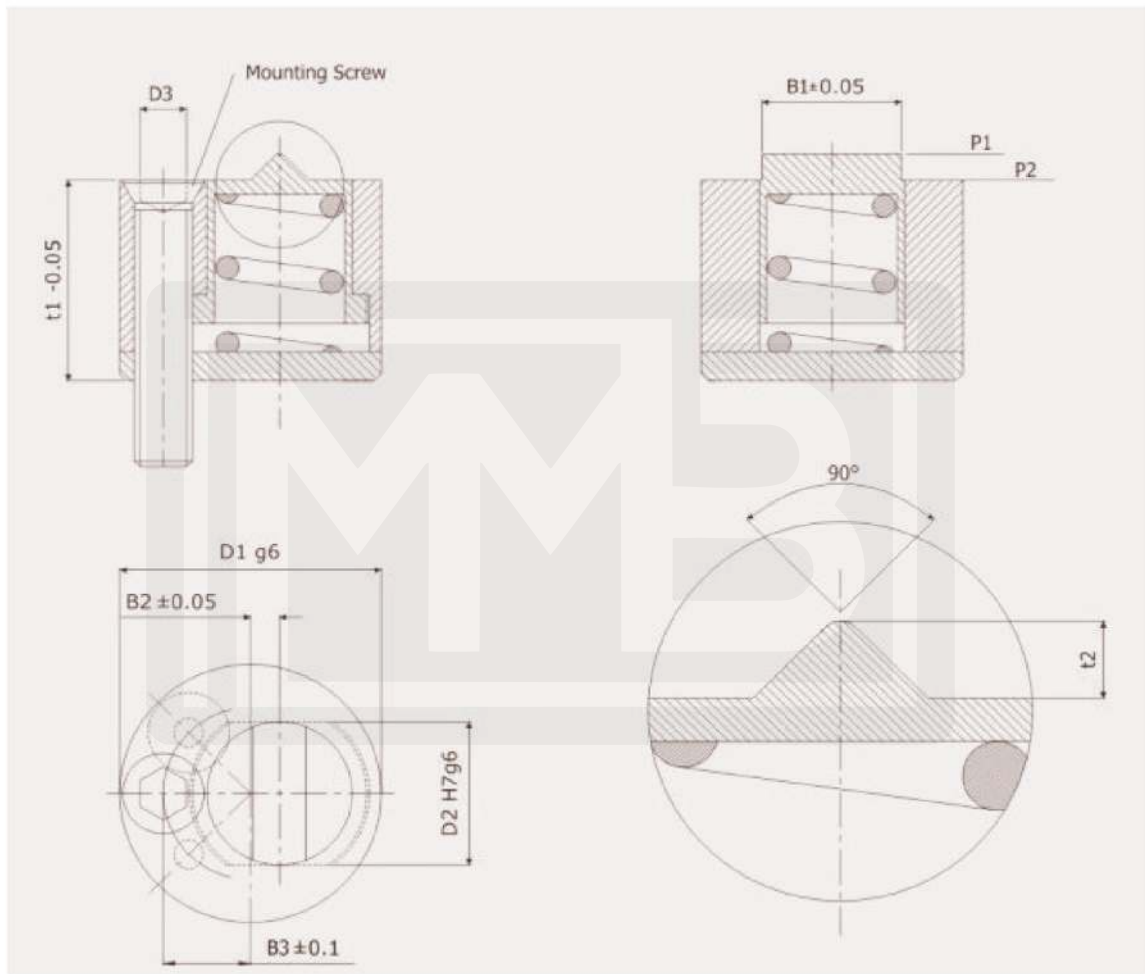
Ordering Example: Code-quantity
VSPA M3 - 8 pieces

Code	d1	d2	L	s	WS	Spring Load F1	Spring Load F2	Weight
						N	N	g
MSPA M3	M3	1.5	8	0.4	1.5	3.0	4.5	0.30
MSPA M4	M4	2.5	12	0.8	2.0	8.5	14.0	0.70
MSPA M5	M5	3.0	14	0.9	2.5	8.0	14.0	1.20
MSPA M6	M6	3.5	15	1.0	3.0	11.0	18.0	1.80
MSPA M8	M8	4.5	18	1.5	4.0	18.0	31.0	3.90
MSPA M10	M10	6.0	23	2.0	5.0	24.0	45.0	8.10
MSPA M12	M12	8.0	26	2.5	6.0	26.0	49.0	13.0
MSPA M16	M16	10.0	33	3.5	8.0	41.0	86.0	32.0
MSPA M20	M20	12.0	43	4.5	10.0	56.0	111.0	66.0
MSPA M24	M24	15.0	48	5.5	12.0	81.0	151.0	106.0



Slide Retainer (Type A)

Raw material : High Speed Steel (HSS)
Hardness: 54±2 HRC



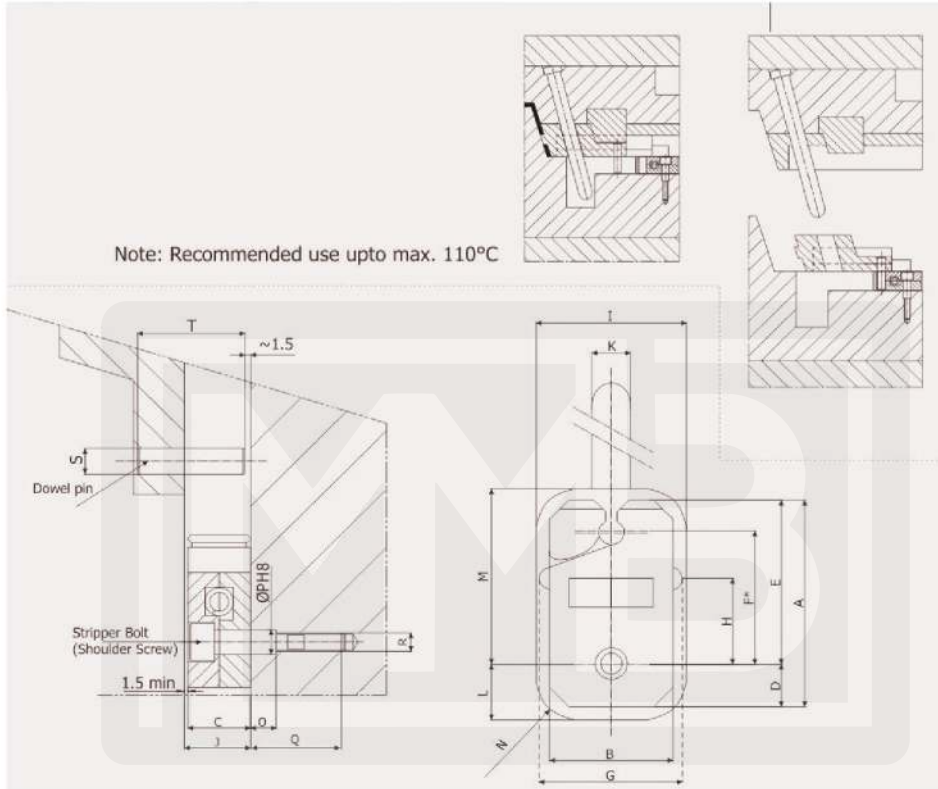
Code	D1	B1	B2	B3	t1	t2	D2	D3	Max. Holding wt. Newton		Screw Size
									P1	P2	
MSRA-001	13	6.6	1.4	4.3	10	1.0	7	2.2	28	34	M2-16
MSRA-002	18	9.6	8.0	6.0	14	1.8	10	3.2	38	42	M3-20
MSRA-003	27	14.4	8.0	9.0	21	2.8	15	4.3	38	92	M4-25

Available Ex - stock

Ordering example : Code - Quantity

Slide Retainer (Type B)

Raw material: Casting Steel
Hardness : 56 ± 2 HRC



Code	Slide Retainer								
	a	b	c	d	e	f	g	h	i
MSRB-001	38	19	16	7	31.5	24.89	24.0	15.5	25.5
MSRB-002	54	32	20	11	43.0	34.93	36.5	22.5	38.0
MSRB-003	86	45	30	19	67.0	53.98	49.5	40.0	51.0

Retainer pockets in mould									Dowel pin		Max.Slide weight
j	k	l	m	n	o	p	q	r	s	t	Newton
17.5	8	10.0	34.5	8	8.5	6	20	M5	6	32	100
21.5	10	14.5	46.0	10	10.5	8	25	M6	8	40	200
31.5	12	22.5	70.0	12	17.0	10	35	M8	10	60	400

~ The distance from the center of the dowel pin to the center of the stripper bolts is critical

Available Ex - stock

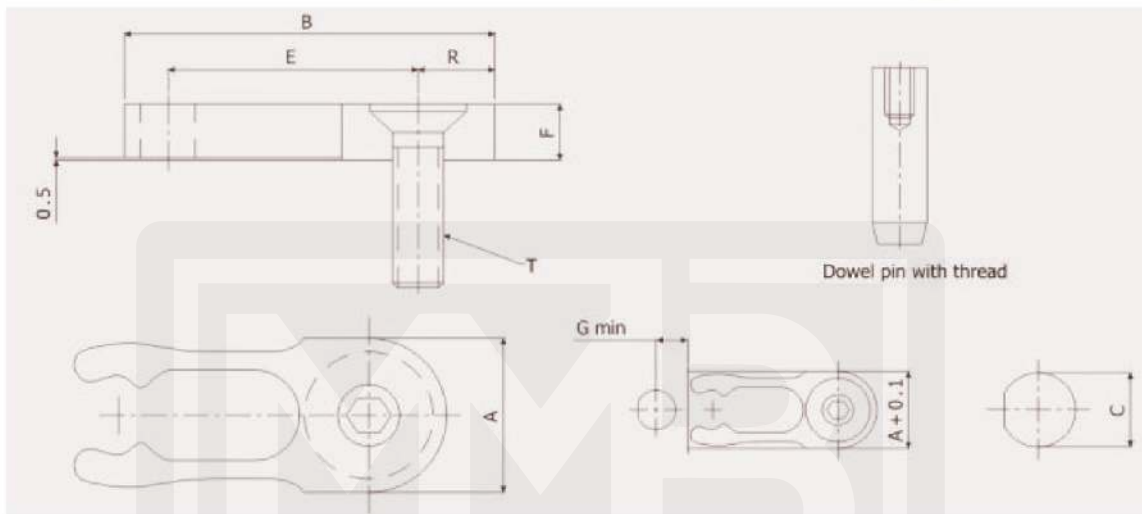
~ Shoulder screw size for replacement : for MSRB-001 - M5*6*20
MSRB-002 - M6*8*25
MSRB-003 - M8*10*40

Ordering example : Code - Quantity

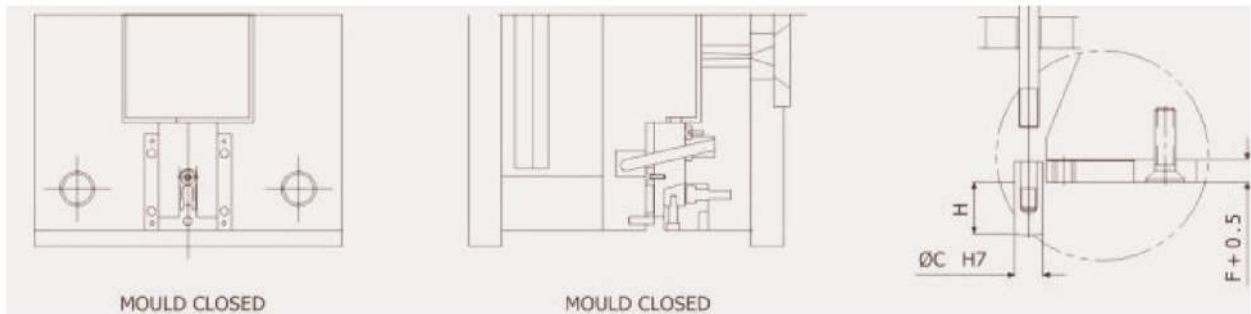


Slide Retainer (Type C)

Raw material : Spring Steel - 1.8159
Hardness: 45 ± 2 HRC



Code	Size										Max.Holding Wt. (kgf)
	A	B	C	D	E	F	G	H	R	T	
MSRC-001	12	30	6x20	21	5	4	16	16	6	M5x16	5
MSRC-002	16	40	8x20	28	6	5	15	15	8	M6x25	7
MSRC-003	20	50	10x24	34	8	6	17	17	10	M8x30	14
MSRC-004	24	60	12x32	42	10	7	23	23	12	M10x40	21
MSRC-005	32	80	16x40	56	12	9	27	27	16	M12x50	28
MSRC-006	32	80	16x40	56	16	9	25	25	16	M12x50	38



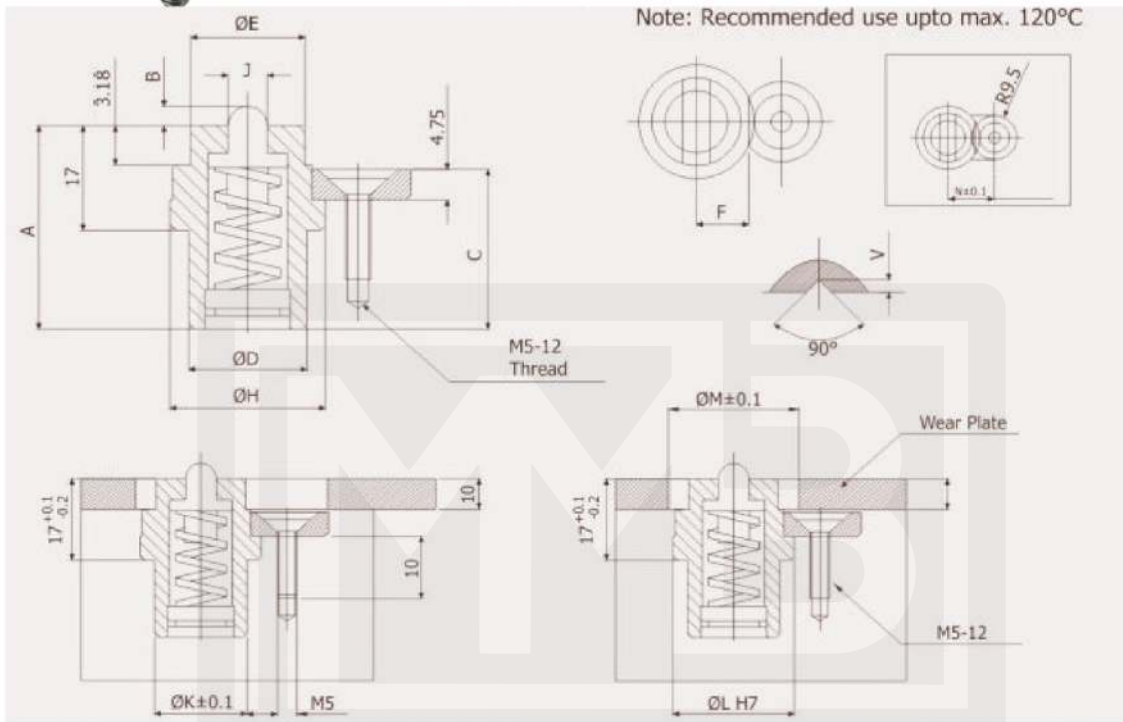
Available against order

Ordering example : Code - Quantity



Slide Retainer (Type D)

Raw material: H-13 (Body & Plunger only)
Hardness : 56 ± 2 HRC

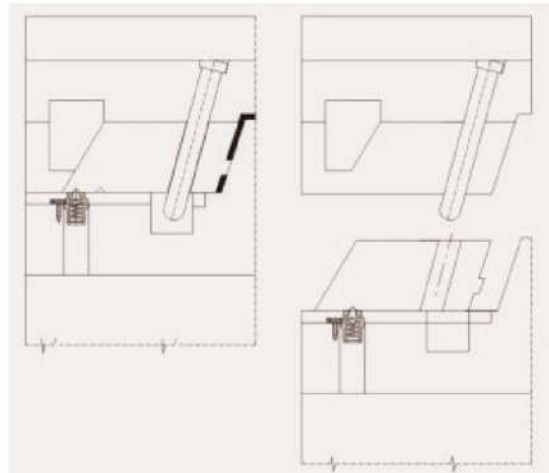


Code	Slide Retainer									Groove Depth mm	Max.Slide wt.
	A	B	C	ØD	ØE	F	H	J	V	Newton	
MSRD-001	27.43	1.83	20.2	15.75	16	9.52	22	4.78	2.30	44	
MSRD-002	33.53	3.07	26.3	18.80	19	10.67	25	6.35	3.90	88	
MSRC-003	32.00	3.78	24.76	22.10	22	11.89	28	7.92	4.90	176	

Pocket Dimensions			
K	L	M	N
15.87	22	24	17
19.05	25	27	18.2
22.23	28	30	19.4

Available against order

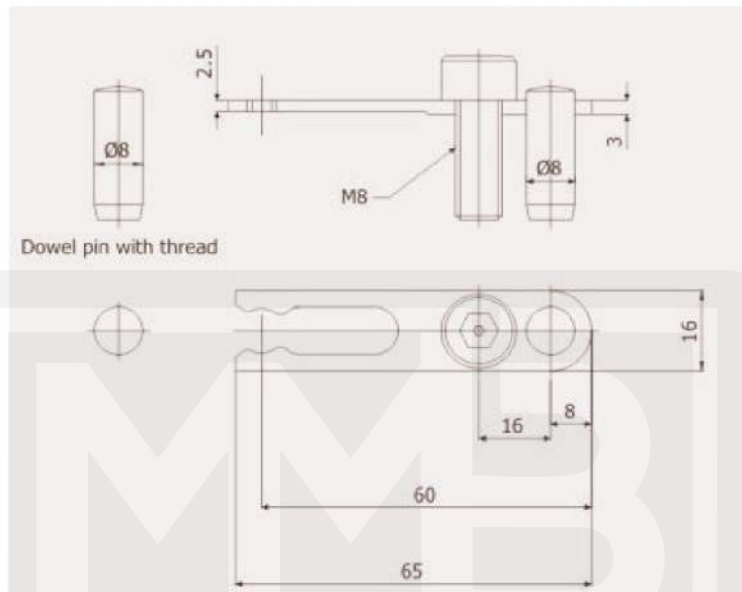
Ordering example : Code - Quantity



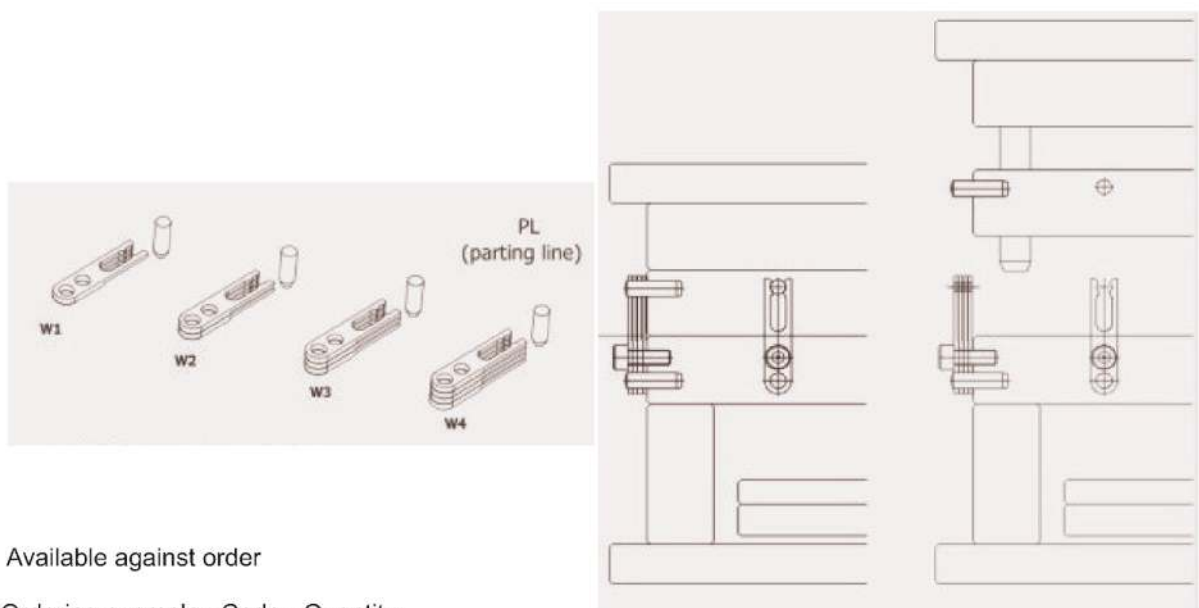


Modular Retainer

Raw material : H -13
Hardness: 45 ± 2 HRC



Code	Max . Holding Weight (kgf)			
	W1	W2	W3	W4
	7.5	15	22.5	30

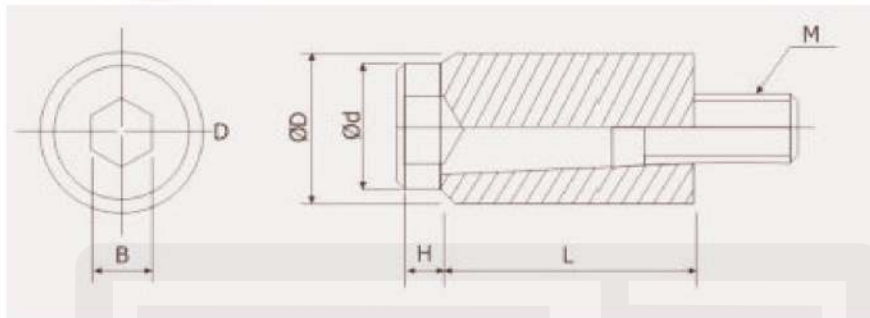


Available against order

Ordering example : Code - Quantity



Parting Lock Parting Lock

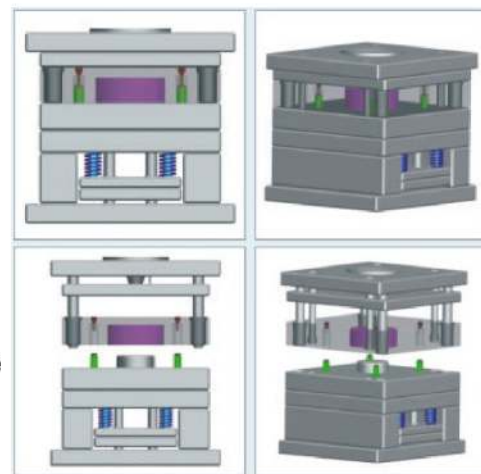


Code	ØD	Ød	H	L	M	B	Stock
MPL-10	10	8.5	3	18	M5	4	•
MPL-12	12	11	3.5	20	M6	5	✓
MPL-13	13	11	3.5	20	M6	5	✓
MPL-16	16	14	4	25	M8	6	✓
MPL-20	20	16	5.5	30	M10	8	✓
MPL-25	25	16	5.5	30	M10	8	•

Parting locks are used in moulds for pulling the plates to a desired limit. They act like puller. The unique design and selection of right material makes the performance of application more better.

Feature :

- ~ Place the parting lock bolt on moving side of the mold
- ~ Install min .4nos. on one mold, 2 nos. each on both side of the plate
- ~ After placement of the parting lock on the plate, turn the bolt to 90° and plastic lock will expand
- ~ Do not apply any lubricant on plastic part. Doing so will reduce the friction and grip
- ~ Use H 7 reamer in hole of the mold plate with + 0.1mm range
- ~ Mould weight < 100 kgs, use 4 nos. of 12 parting lock
- ~ Mould weight < 500 kgs, use 4 nos. of 16 parting lock
- ~ Mould weight < 1000 kgs, use 4 nos. of 20 parting lock
- ~ If more load to be pulled then above limit then use more numbers of parting lock to be used .i.e 6 or 8nos

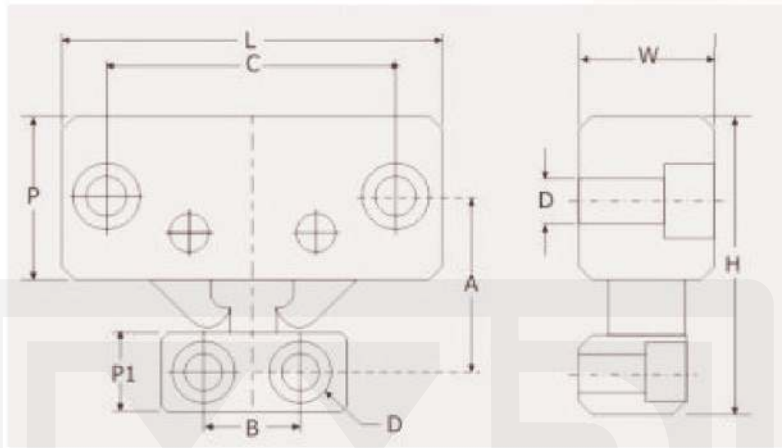


✓ - Ex-stock • - Against Order

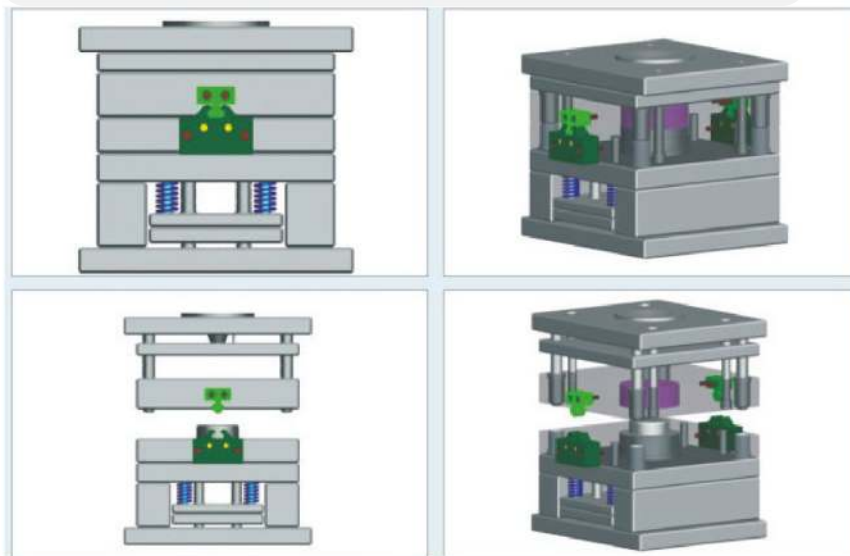
Ordering example : Code - Quantity



Latches for three plate mould (Type A)



Code	Type	A	B	C	D	L	W	H	P	P1	force (kg)
MLA-001	Light Duty	27.5	16.0	42.0	M6	55.0	22.0	44.0	25	13	45
MLA-002	Medium Duty	40.0	20.0	61.0	M8	80.0	28.0	70.0	38	18	110
MLA-003	Heavy duty	60.0	30.0	95.0	M12	120.0	48.0	106.0	57	27	225



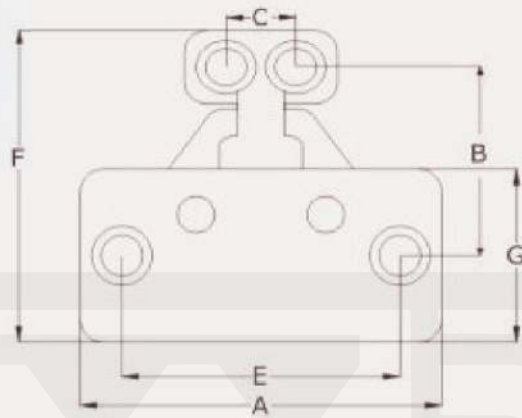
Available Ex - stock

Ordering example : Code - Quantity

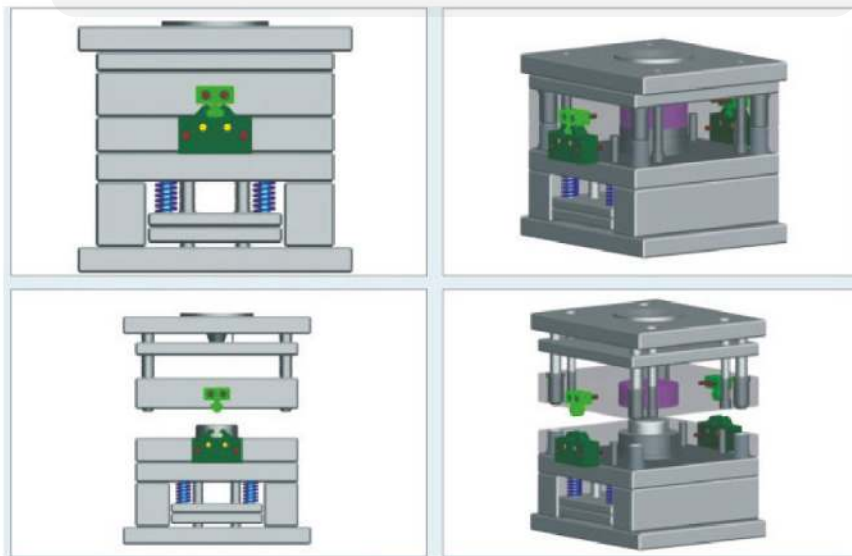


Latches for three plate mould (Type B)

Raw material: SCM - 21
Hardness : 56 ± 60 HRC



Code	Type	A	B	C	E	F	G	force (kg)	Screw hole
MLB-001	Medium duty	78	40	15	60	68	38	500kg	M8
MLB-002	Heavy duty	91	58	17	72	93	51	900kg	M10



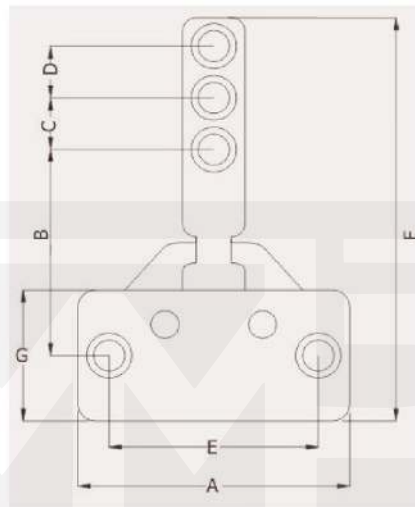
Available Ex - stock

Ordering example : Code - Quantity _____

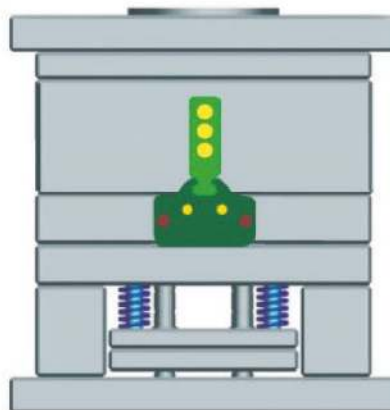


Latches for three plate mould (Type C)

Raw material : H -13
Hardness: 45 ± 2 HRC



Code	Type	A	B	C	D	E	F	G	force (kg)	Screw hole
MLC-001	Medium duty	78	58	15	15	60	116	38	500kg	M8
MLC-002	Heavy duty	91	73	17	17	72	142	51	900kg	M10

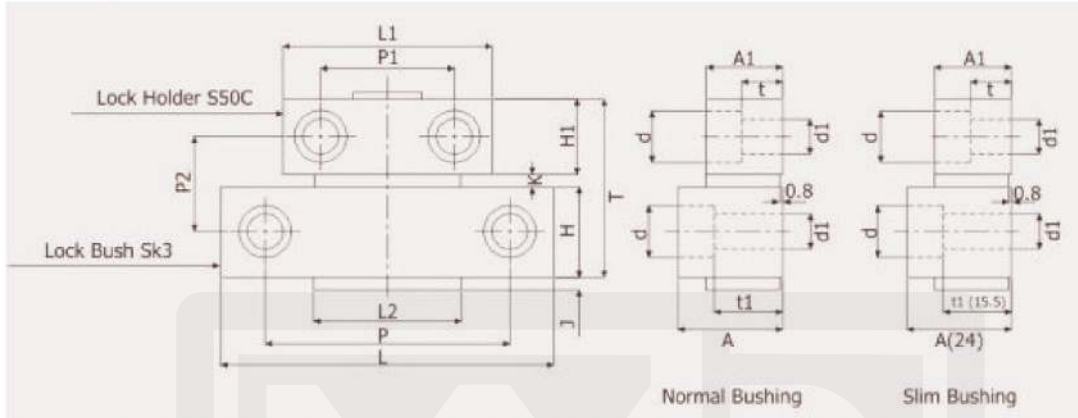


Available Ex - stock

Ordering example : Code - Quantity



Latches for three plate mould (Type D) Short length



Code		Max usable load 2 sets under normal temp.	L	L1	L2	T	H	H1	J	K	P	P1	P2	A	A1	t	t1	d	d1	screw size 2 pc. Each
Type	No.																			
MLD-001	10	981N (100kgf)	48	36							36	24				9.5	18			6*20
					25	42	22	18	2	2			22	24	16			6.5		6*30
MLD-002	20	1961N (200kgf)	54	42							40	28				9	16	11		6*20
																				6*25
MLD-003	30	2942N (300kgf)	65	46		48.5				3.5	50	31						7		6*30
							25	20	3.5				26							6*35
MLD-004	60	5884N (600kgf)			35									27	19	9.5	17			
			73	50							52	33						14	9	8*30
MLD-005	80s	7845N (800kgf)				56.5				11.5			34							8*35
MLD-006	100	9807N (1000kgf)	103	65	48	58	30	24	4	4	76	42	31	34	25	13	19	17	11	10*30
																				10*35
MLD-007-SLIM	30	2942N (300kgf)	65	46		48.5				3.5	50	31						11	7	6*25
													26							6*30
MLD-008-SLIM	60	5884N (600kgf)			35		25	20	3.5					24	19	9.5	15.5			
			73	50							52	33						14	9	8*25
MLD-009-SLIM	80s	7845N (800kgf)				56.5				11.5			34							8*30

~ T - Dimension of VLD-005-80s are 56.5, & K Dimension of them are 11.5

~ Max.working temperature is 80°

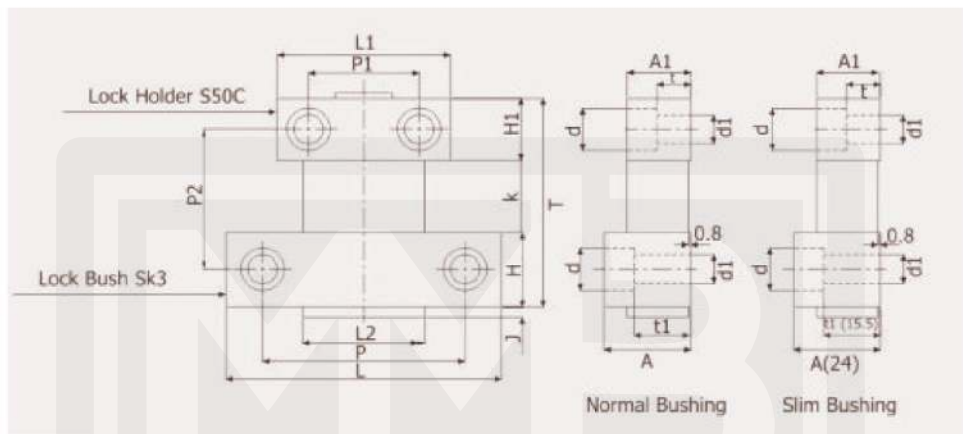
*Note latches with the same dimension that can be used up to temperature 150° are also available

Available against order

Ordering example : Code -No - Quantity



Latches for three plate mould (Type D) Long length



Code		Max usable load 2 sets under normal temp.	L	L1	L2	T	H	H1	J	K	P	P1	P2	A	A1	t	t1	d	d1	screw size 2 pc. Each
Type	No.																			
MLD-010	60	5884N (600kgf)	73	50	35	79.5	25	20	3.5	34.5	52	33	57	27	19	9.5	17	14	9	8*30
MLD-011	80	7845N (800kgf)				87.5				42.5			65							8*35
MLD-012	100	9807N (1000kgf)	103	65	48	89	30	24	4	35	76	42	62	34	25	13	19	17	11	10*30 10*35
MLD-013-SLIM	80s	7845N (800kgf)	73	50	35	87.5	25	20	3.5	42.5	52	33	65	24	19	9.5	15.5	14	9	8*25 8*30

Max.working temperature is 80°

*Note latches with the same dimension that can be used up to temperature 150° are also available

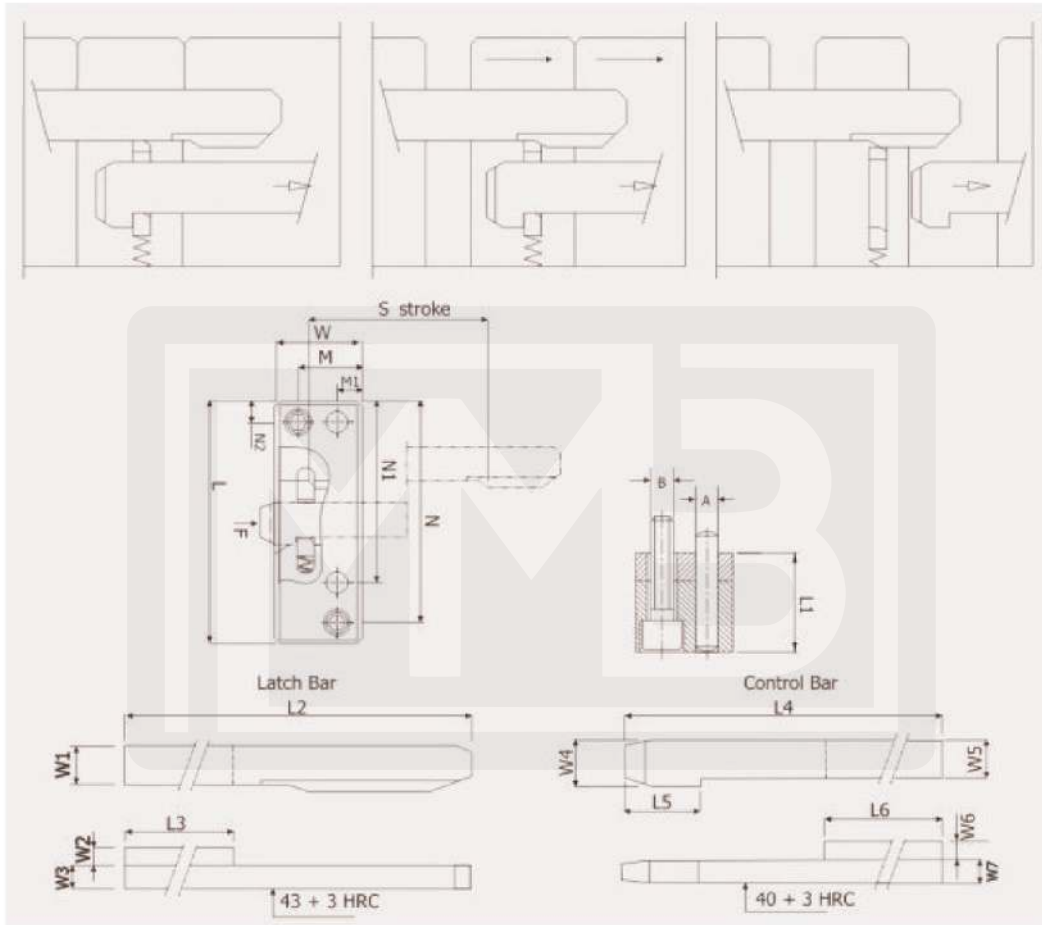
Available against order

Ordering example : Code - 10 - Quantity



Latches for three plate mould (Type E)

Raw material: 1.2764



Code	L	L1	L2	L3	L4	L5	L6	M	M1	N	N1	N2	W	W1	W2	W3	W4	W5	W6	W7	A	B
MLE-001	75	22	140	63	140	12	63	16	6	69	60	6	22	12.5	6.5	6	16	12.5	6.5	6	Ø5	M5
MLE-002	90	32.5	180	100	180	16	100	24	8	83	73	7	31.5	16	8	12.5	20.5	16	8	12.5	Ø6	M6
MLE-003	112	43.5	250	125	250	20	125	30	10	103	88	9	40	20	12.5	25.5	25.5	20	12.5	16	Ø8	M8

Code	S(MIN)STROKE	S(MAX)STROKE	F(<kgf)pulling force
MLE-001	5.5	80	650
MLE-002	7	110	1550
MLE-003	9	160	2200

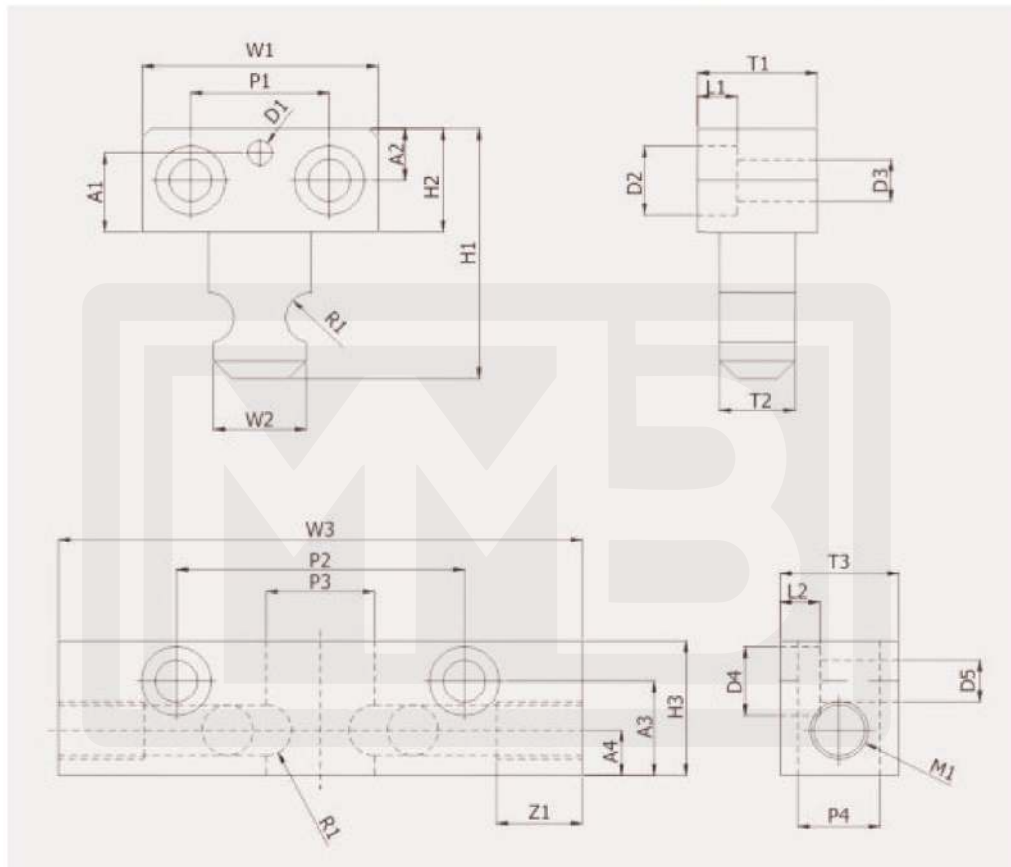
Available against order

Ordering example : Code - Quantity



Latches for three plate mould (Type F)

Raw material : S50C



Code	A1	A2	A3	A4	D1	D2	D3	D4	D5	H1	H2	H3	L1	L2	M1	P1
MLE-001	5	12.5	23	11	6	17	10	17	10	62.5	25	33	10	10	M14*2	35
MLE-002	14	12	21	10	5	10.5	6.5	11	6.5	48	20	28	6.5	6.5	M12*1.75	25

P2	P3	P4	R1	T1	T2	T3	W1	W2	W3	Z1
70	26	20	R6.5	30	19.5	30	60	25.5	127.5	21
60	18	12.5	R4.25	20.5	12	20.5	40	17.5	86	20

Available against order

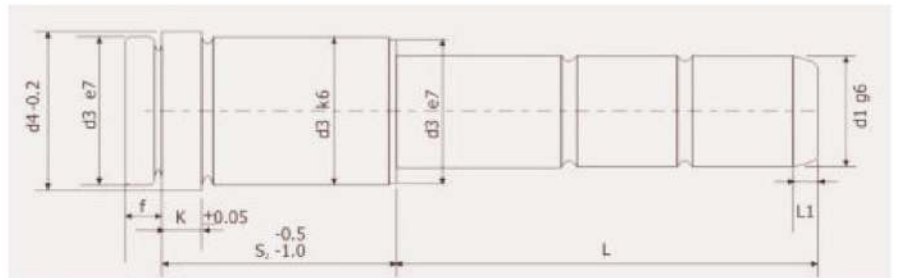
Ordering example : Code - Quantity



Guide Pin (Type A) VGPA

Raw material: EN21/36

Hardness: 58 ± 2 HRC



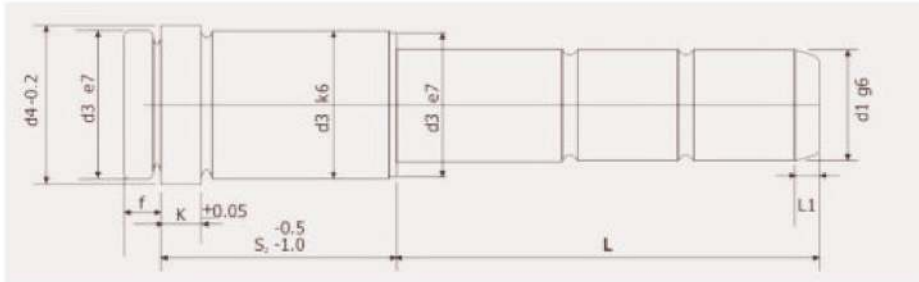
d1	f	K	d3	d4	S2	L1	L																			
9 (10)	3	3	14	16	12	4	25	45	65																	
					17		20	30	50	70																
					22		25	35	55	75	95															
					27		20	30	50	70	90															
					36		25	45	65	85																
					46		30	45	70																	
15 (15)	9	6	20	25	56	7	35	55	75	95																
					17		35	55	75	95																
					22		30	50	70	90	110	125	150													
					27		30	45	65	85	105	125	145	165												
					36		35	55	75	95	125	155														
					46		35	45	65	85	105	125	145													
					56		35	55	75	95	135															
					66		55	65	95	125																
					76		55	95																		
					86		55	95																		
18 (20)	9	6	26	31	96	7	55	95																		
					116		55	95																		
					17		35	55	75	120																
					22		35	45	65	85	115															
					27		35	45	65	85	105	125	165	225	245											
					36		35	55	75	95	115	135	165	225	255											
					46		35	45	65	85	105	135	165	245												
					56		35	55	75	95	155															
					66		35	55	75	95	145															
					76		55	75	95	135																
22 (24)	9	6	30	35	86	7	55	75	95	125																
					96		55	95																		
					116		75	115																		
					136		135																			
					17		35	55	75																	
					22		35	55	75	105	130															
27	35	45	65	85	105	125	165	205	245	285																

Available against order
Any other diameter and length available as per customers requirement



Guide Pin (Type A) VGPA

Raw material : EN31/76
Hardness: 58 ± 2HRC



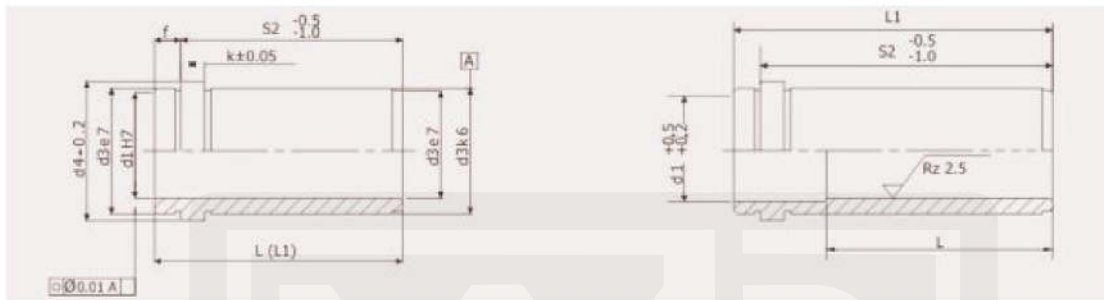
d1	f	K	d3	d4	S2	L1	L											
							35	55	75	95	115	135	165	205	245	285		
22 (24)	9	6	30	35	36	7	35	55	75	95	115	135	165	205	245	285		
					46		35	45	65	85	105	125	65	205				
					56		35	55	75	95	115	165	205					
					66		35	55	75	95	155							
					76		55	75	95	115	145							
					86		55	75	95	135								
					96		55	75	95	155								
					116		75	115	155									
					136		95	135										
					156		155											
30 (32)	9	6	32	47	27	7	45	65	105	165	185	245	285					
					36		55	75	95	115	155	245	285					
					46		45	65	85	105	125	165	245	285				
					56		45	75	95	115	135	175	245	295				
					66		55	75	95	115	135	175	245	295				
					76		55	75	95	115	155	225	245					
					86		55	75	95	115	155	225						
					96		75	75	95	115	155	205						
					116		95	115	115									
					136		155	115	155									
156	115	155																
196	155	195																
40 (42)	12	10	54	60	46	7	95	165										
					56		75	115	155	195								
					66		75	135										
					76		75	115	175									
					86		75	135										
					96		75	115	155									
					116		95	135	195									
					136		95	135	215									
					156		115	155	215									
					196		155	195	235									
246	165	245																

Available against order
Any other diameter and length available as per customers requirement



Guide Bush (Type A) VGBA

Raw material: EN31/36
Hardness: 58 ± 2 HRC



L	L1	f	K	d3	d4	S2	d1
15						12	
20						17	
25						22	
30		3	3	14	16	27	9(10)
39						36	
46						46	
59						56	
69						66	
26						17	
31						22	
36						27	
45						36	
55						46	
65		9	6	20	25	56	14(15)
75						66	
85						76	
95						86	
105						96	
125						116	
26						17	
31						22	
36						27	
45						36	
55						46	
65		9	6	26	31	56	18(20)
75						66	
85						76	
95						86	
105						96	
125						116	
145						136	
26						17	
31		9	6	30	35	22	22(24)
36						27	

L	L1	f	K	d3	d4	S2	d1
45						36	
55						46	
65						56	
75						66	
85		9	6	30	35	76	22(24)
95						86	
105						96	
125						116	
96						136	
146						156	
165						176	
36						27	
45						36	
55						46	
65						56	
75						66	
85		9	6	42	47	76	30(32)
95						86	
105						96	
125						116	
146						136	
116						156	
165						176	
205						196	
58						46	
68						56	
78						66	
88						76	
98						86	
108		12	10	54	60	96	40(42)
128						116	
148						136	
136						156	
168						196	
208						246	
258							

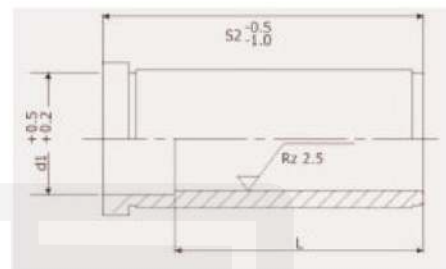
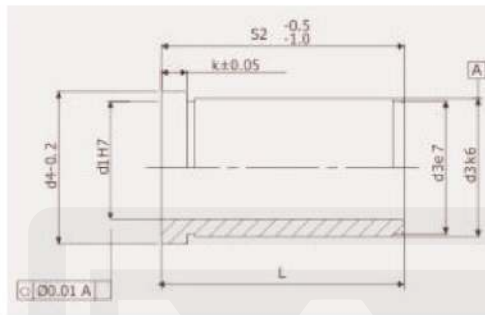
Available against order

Any other diameter and length available as per customers requirement



Guide Brush (Type B) VGBB

Raw material : EN31/76
Hardness: 58 ± 2HRC



L	d3	d4	K	S2	d1
9				9	
12				12	
17				17	
22				22	
27	14	16	3	27	9(10)
36				36	
				46	
46				56	
				66	
17				17	
22				22	
27	18	23	6	27	12
36				36	
46				46	
56				56	
12				12	
17				17	
22				22	
27				27	
36				36	
46	20	25	6	46	14(15)
				56	
				66	
				76	
				86	
				96	
17				17	
22				22	
27	22	27	6	27	16
36				36	
46				46	
56				56	
17				17	
22				22	
27				27	
36				36	
46	26	31	6	46	18(20)
56				56	
66				66	
76				76	
				86	
				96	
				116	

L	d3	d4	K	S2	d1
17				17	
22				22	
27				27	
36				36	
46				46	
56	30	35	6	56	22(24)
66				66	
76				76	
86				86	
96				96	
				116	
				136	
27				27	
36				36	
46				46	
56				56	
66				66	
76	42	47	6	76	30(32)
86				86	
96				96	
				116	
				136	
				156	
46				46	
56				56	
66				66	
76				76	
86				86	
96	54	60	10	96	40(42)
116				116	
				136	
				156	
				196	
				246	
76				76	
96				96	
116	66	72	10	116	50
				136	
				156	
				196	
96				96	
116				116	
	80	86	20	136	60
				156	
				196	
				246	

Available against order

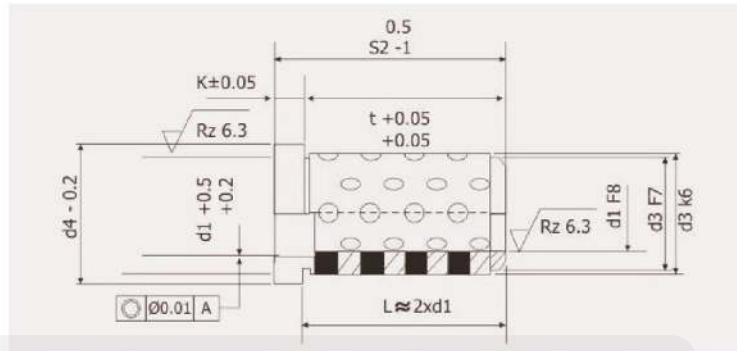
Any other diameter and length available as per customers requirement



Oilless Bush (Type A)

Code : VOBA

Raw material: Bronze + Graphite



t	d3	d4	K	S2	d1
6.6	14	16	3	12	9(10)
11.6				17	
16.6				22	
21.6				27	
30.6				36	
40.6				46	
50.6				56	
8.3	18	23	6	17	12
13.3				22	
18.3				27	
27.3				36	
37.3				46	
47.3	56				
8.3	20	25	6	17	14(15)
13.3				22	
18.3				27	
27.3				36	
37.3				46	
47.3				56	
8.3	22	27	6	17	16
13.3				22	
18.3				27	
27.3				36	
37.3				46	
47.3	56				
8.3	26	31	6	17	18(20)
13.3				22	
18.3				27	
27.3				36	
37.3				46	
47.3				56	
57.3				66	
67.3				76	

t	d3	d4	K	S2	d1
12.6	30	35	6	22	22(24)
17.6				27	
26.6				36	
36.6				46	
46.6				56	
56.6	66				
66.6	76				
76.6	86				
86.6	96				
15.9	42	47	6	27	30(32)
24.9				36	
34.9				46	
44.9				56	
54.9				66	
64.9				76	
74.9	86				
84.9	96				
104.9	116				
30.2	54	60	10	46	40(42)
40.2				56	
50.2				66	
60.2				76	
70.2				86	
80.2				96	
100.2				116	
120.2				136	

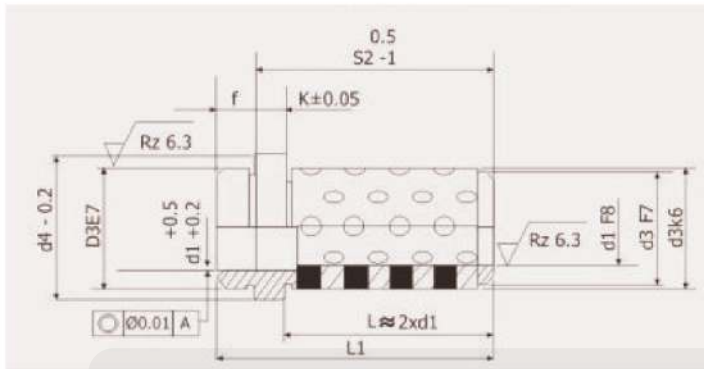
Available against order

Any other diameter and length available as per customers requirement



Oilless bush (Type B) VOBB

Raw material : Bronze + Graphite



L1	f	K	d3	d4	S2	d1
17					12	
22					17	
27					22	
32	5	3	14	16	27	9(10)
41					36	
51					46	
61					56	
23					17	
28					22	
33					27	
42	6		20	25	36	14(15)
52					46	
62					56	
72					66	
82		6			76	
25					17	
30					22	
35					27	
44	8		26	31	36	18(20)
54					46	
64					56	
74					66	
84					76	

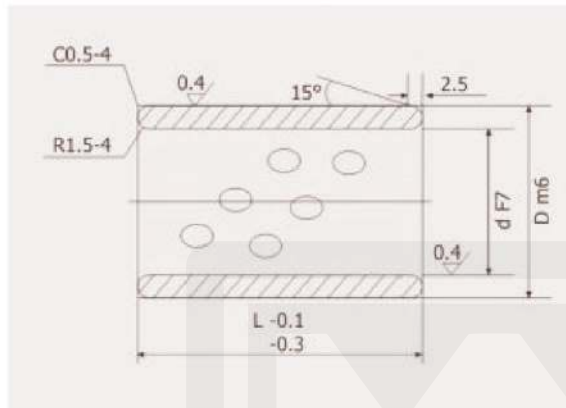
L1	f	K	d3	d4	S2	d1
30					22	
35					27	
44					36	
54					46	
64	8	6	30	35	56	22(24)
74					66	
84					76	
94					86	
104					96	
124					116	
35					27	
44					36	
54					46	
64					56	
74	8	6	42	47	66	30(32)
84					76	
94					86	
104					96	
124					116	
144					136	
56					46	
66					56	
76					66	
86					76	
96	10	10	54	60	86	40(42)
106					96	
126					116	
146					136	
166					156	
206					196	

Available against order
Any other diameter and length available as per customers requirement



Oilless Bush (Type C) Code : VOBC

Raw material: Bronze + Graphite



∅d		∅D	
dia	tolerance	dia	tolerance
16	+0.034 +0.016	25	+0.021 +0.008
20	+0.041 +0.026	30	
25	+0.050 +0.025	35	+0.025 +0.009
30		40	
35		45	
40		50	
45		55	+0.030 +0.011
50		60	
60	+0.060 +0.030	75	
70		85	+0.035 +0.013

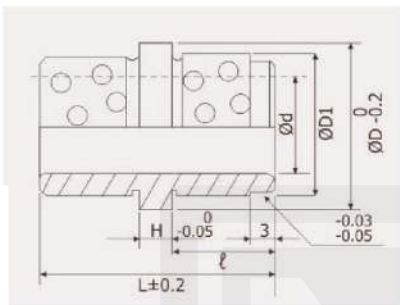
∅	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	100	120	150	180
16	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
20	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
25	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
30	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
35	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
40	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
45	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
50	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
60	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
70	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•

• - Available against order
Any other diameter and length available as per customers requirement



Oilless bush (Type D) VOBD

Raw material : Bronze + Graphite



Ød		Ød1		L	ØD	H	
dia	tolerance	dia	tolerance				
10	+0.022 +0.013	16	+0 -0.011	12	23	20	4
12	+0.027 +0.016	18				22	4
16		25	+0 -0.013	12	25	30	4
20		30				35	4
25	+0.023 +0.020	35	+0 -0.016	14	32	40	4
30		40		19	42	45	4
40		50				55	4
50		60		24	52	66	4

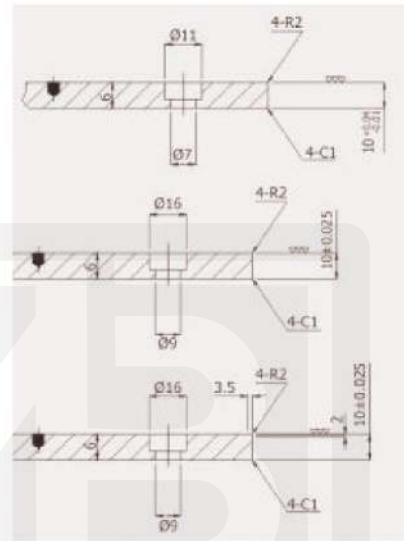
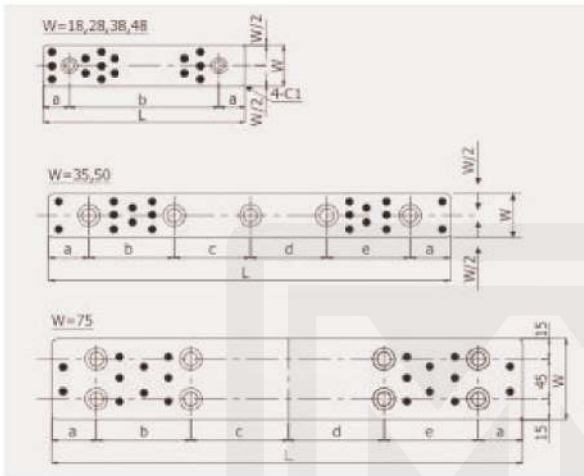
Ød	23	25	32	39	42	52
16	•	•	•	•	•	•
12	•	•	•	•	•	•
16	•	•	•	•	•	•
20	•	•	•	•	•	•
25	•	•	•	•	•	•
30	•	•	•	•	•	•
40	•	•	•	•	•	•
50	•	•	•	•	•	•

• - Available against order
Any other diameter and length available as per customers requirement



Oilless Plates Code : VOP

Raw material: Bronze + Graphite



Code	W	L	a	b	c	d	e	Screw hole	No. of hole
MOP	18	75	15	45				M6	2
		100	25	50					
		125	25	75					
		150	25	100					
	28	75	15	45				M6	2
		100	25	50					
		125	25	75					
		150	25	100					
	35	100	20	60				M8	3
		150	20	55	55				
		200	20	55	50	55			
		250	20	70	70	70			
		300	20	65	65	65	65		
	350	20	80	75	75	80			
	38	75	15	45				M6	2
		100	25	50					
		125	25	75					
		150	25	100					
	48	75	15	45				M6	2
		100	25	50					
		125	25	75					
		150	25	100					
	50	100	20	60				M8	3
		150	20	55	55				
200		20	55	50	55				
250		20	70	70	70				
300		20	65	65	65	65			
400	0 / -0.5	20	90	90	90	90	M8	4	
	150 / -0.2	20	110						
75	200	20	80	80			M8	6	
	250	20	105	105					
	300	20	85	90	85				
	400	20	120	120	120				
500	20	115	115	115	115		10		

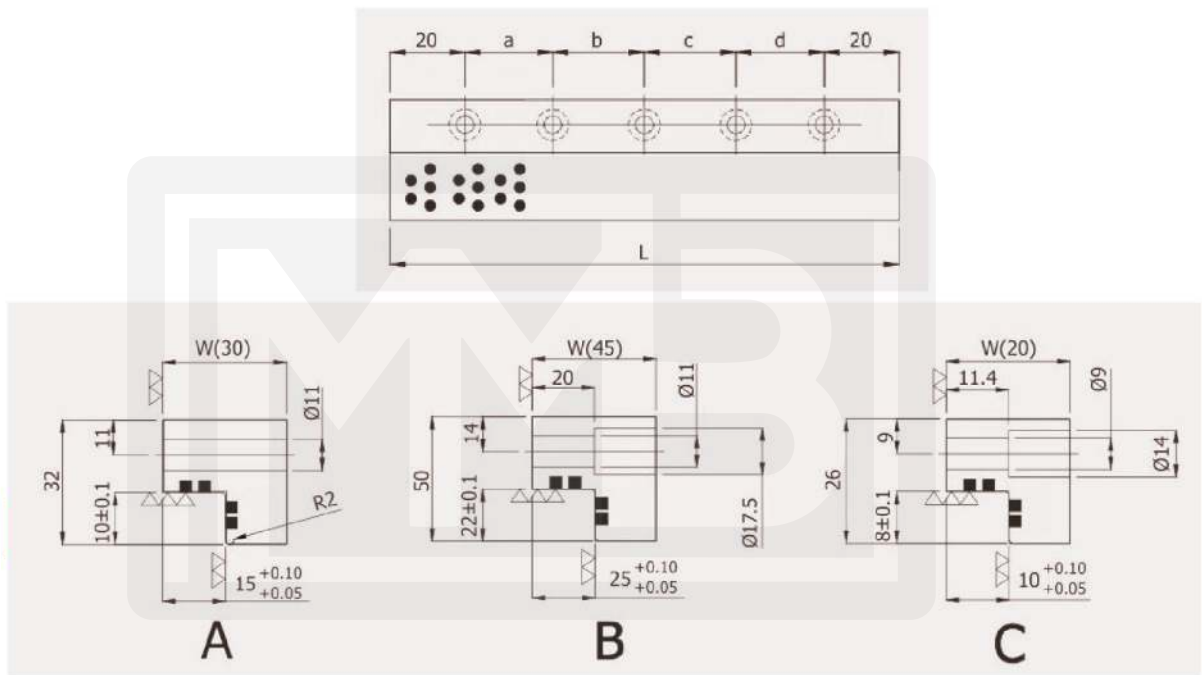
Available against order



Oilless bush Guide Rails

Code : VGR

Raw material : Bronze + Graphite



Code	W	L	a	b	c	d	Screw hole	No.of Hole	Type	
MGR	30	100	60				M10	2	A	
		150	55	55				3		
		200	55	50	55			4		
		250	70	70	70			5		
	45	200	55	50	55			4	B	
		250	70	70	70			5		
		300	65	65	65	65		5		
	20	100	60					M8	2	C
		150	55	55					3	
		200	55	50	55				4	

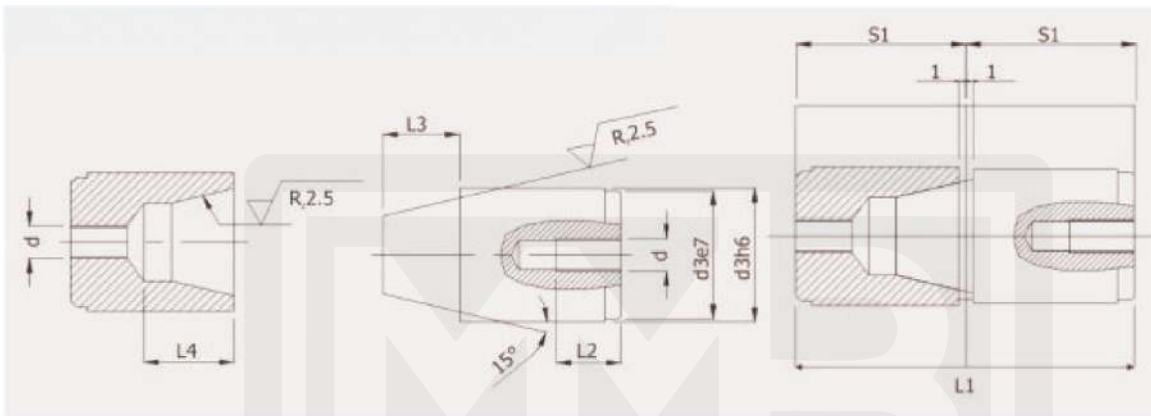
Available against order

Any other diameter and length available as per customers requirement



Taper Interlock

Raw material: EN - 31 Hardened and ground
Hardness : 54 ± 2 HRC



Code	Size d3h6	L1	L2	L3	L4	S1	Tap d	Stock
MTI / 12	12	34	11	4	8	17	M4	✓
MTI / 14	14	34	12	7	8	17	M5	✓
MTI / 16	16	34	12	7	8	17	M5	✓
MTI / 20	20	54	15	10	13	27	M8	✓
MTI / 25	25	54	15	10	13	27	M8	✓
MTI / 26	26	54	15	10	13	27	M8	•
MTI / 30	30	72	18	14	20	36	M10	✓
MTI / 32	32	72	18	14	20	36	M10	✓
MTI / 37	37	82	18	16	23	41	M10	•
MTI / 42	42	92	18	18	25	46	M10	✓

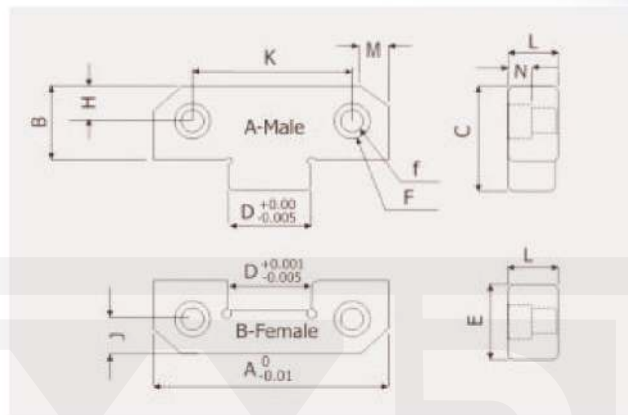
✓ - Ex-stock • - Against Order

Any other diameter and length available as per customers requirement

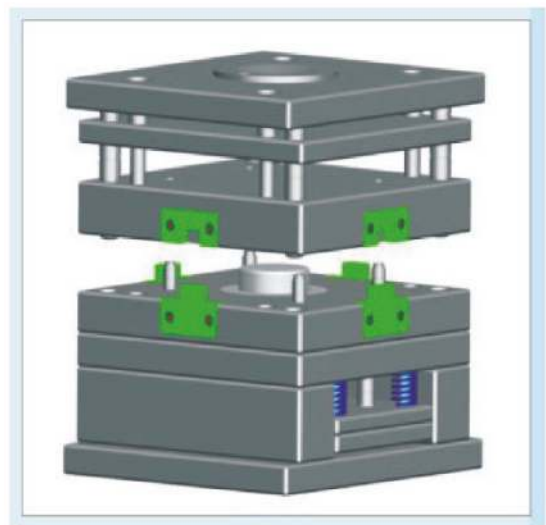


Straight Block set

Raw material :1.7131 Hardened
 Hardness : Hardened A-Male: 55-57 HRC
 B-Female:58-60 HRC



Code	A	B	C	D	E	F	f	J	H	K	L	M	N
MSB 38	38	22	30	12	22	10.5	6.5	7	7	22	13	5	8
MSB 50	50	21.5	30	17	21.5	10.5	6.5	11	11	34	16	5	8
MSB 75	75	36	50	25	36	16.5	10.5	18	12	50	19	8	12
MSB 100	100	45	65	35	45	16.5	10.5	22	22	70	19	10	12
MSB 125	125	45	65	45	45	16.5	10.5	22	22	84	25	10	12



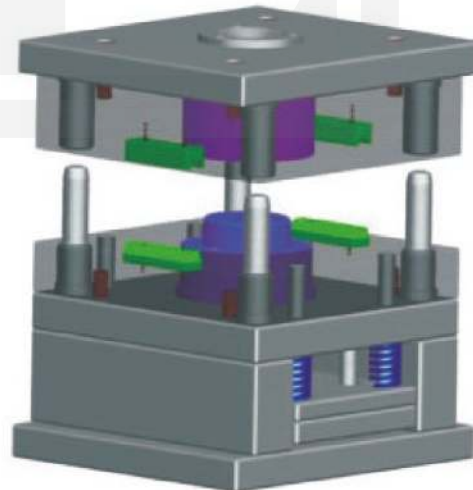
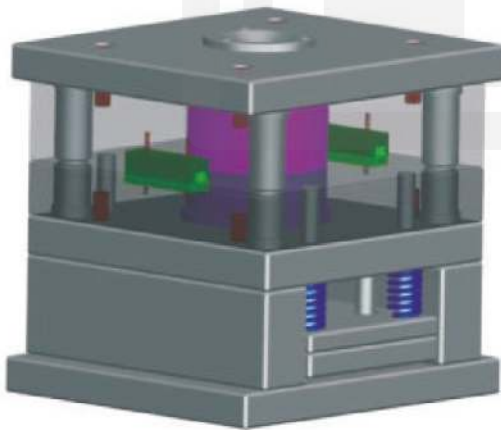
Available Ex - stock



Taper Block set

Raw material: 1.7131 Hardened
Hardness : Hardened A-Male: 55-57 HRC
B-Female:58-60 HRC

Code	L	E	W	D	C	G	M
MTB-50	50	0	25	8	17.5	5	M5
MTB-100	100	60	30	10	22	5	M6
MTB-150	150	100	40	13	25	5	M8

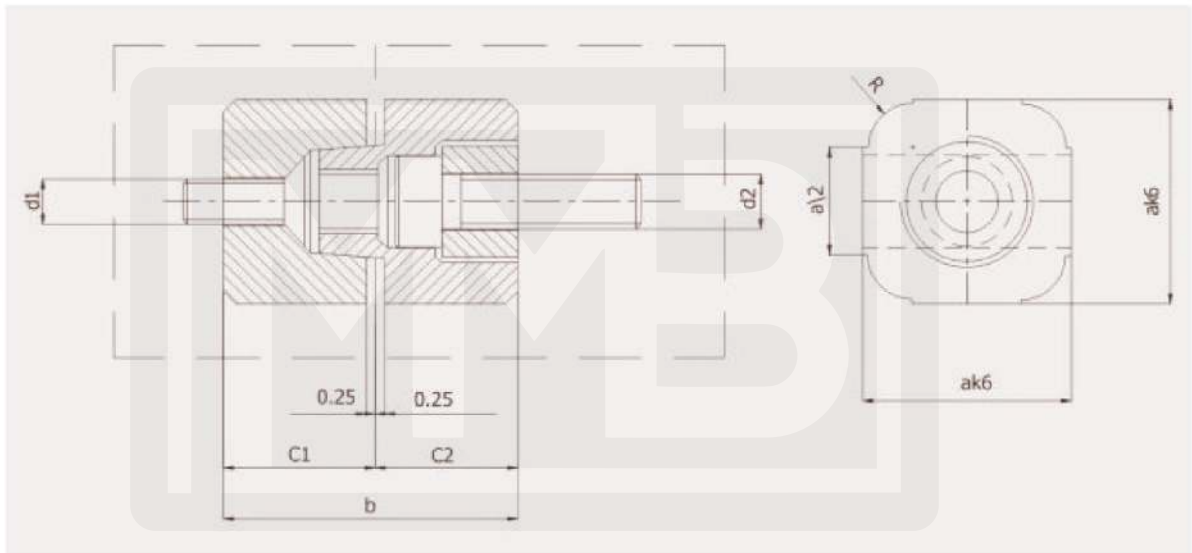


Available Ex - stock



Square Block set

Raw material : SKd - 11
Hardness: HRC 56 ± 2



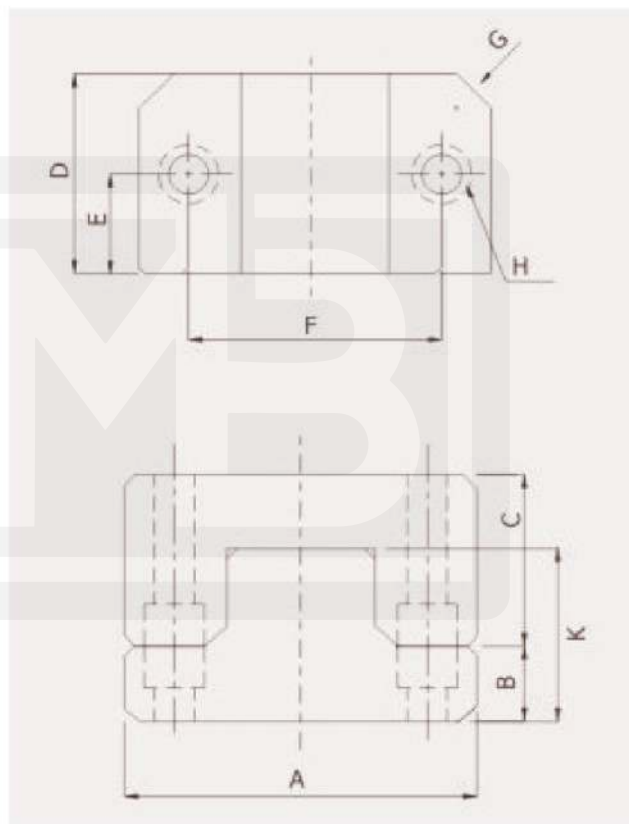
Code	a	b	C1	C2	d1	d2	R
MSQ-001	20	28	14	14	M4	M5	4
MSQ-002	25	32	16	16	M5	M6	5
MSQ-003	32	36	18	18	M6	M8	6
MSQ-004	40	45	22.5	22.5	M8	M10	6

Available against order



Taper Interlock (Type T)

Raw material: EN - 31
Hardness: 54 ± 2 HRC



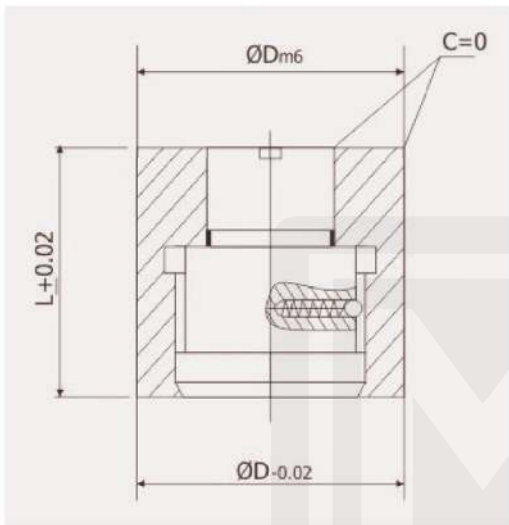
Code	A	B	C	D	E	F	G	H	K
MTIT-001	35	15	20	20	10	24	C3	M5	25
MTIT-002	50	20	25	25	12.5	34	C5	M6	30
MTIT-003	75	25	30	50	25	52	C8	M8	40

Available against order



Single piece Mould date Indicator

Raw material: SUS - 420
Hardness: 45-50 HRC



ØD m6		L					
		6	8	10	12	14	16
3	+0.012	•	•	•			
4	+0.004	•	✓	✓			
6		•	✓	✓			
8	+0.015		•	✓	•		
10	+0.006		•	✓	•		
12	+0.018				✓	•	
16	+0.007					✓	
20	+0.021 +0.008					•	•



Only Month
Code: O-N-M



Only Year
Code: O-N-Y



Only Days
Code: O-N-D



Week Indicator
Code: O-W-I



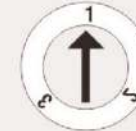
Shift Indicator
Code: S-I-A



Month & Year Combine
Code: M-N-Y



Quarter Indicator
Code: O-N-Q



Shift Indicator
Code: S-I-N



Only Arrow
Code: O-N-A

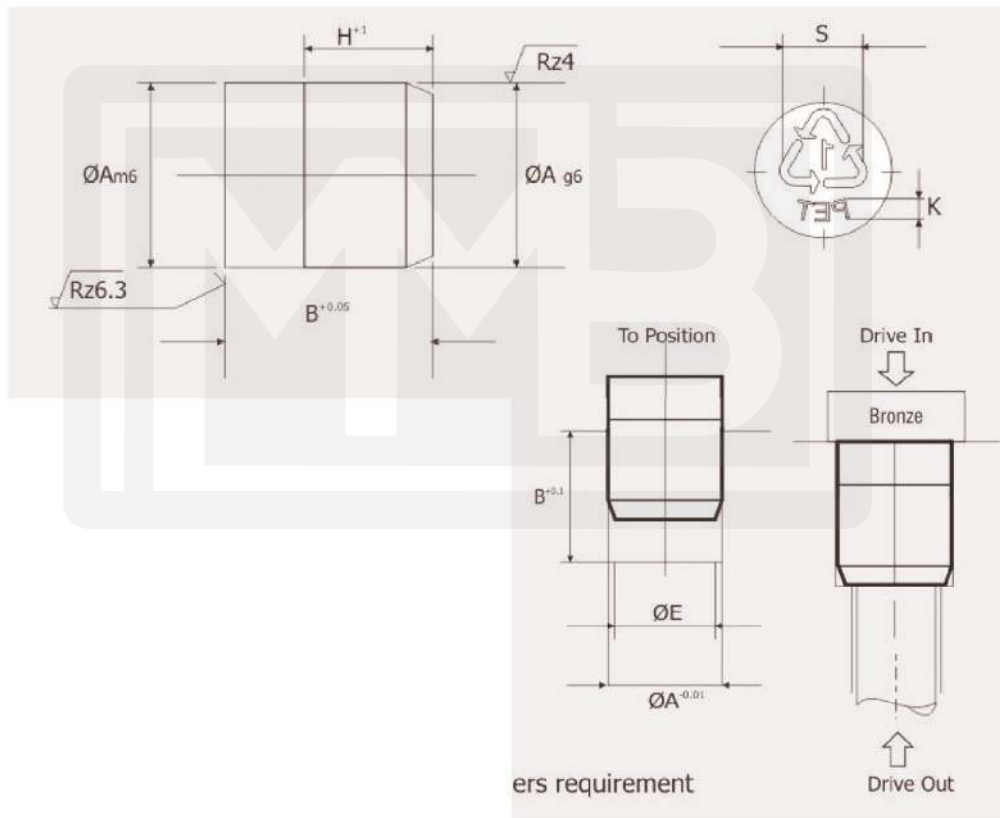
✓ - Ex-stock • - Against Order

Any other diameter and length available as per customers requirement



Recycling Insert

Raw material : SUS-420
Hardness : 48-52 HRC



ØA	B	E	H	K	S
10	12	08	07	1.6	5.6
12	12	10	07	2.0	6.8
16	16	12	09	2.6	9.0
20	16	16	09	3.2	11.5

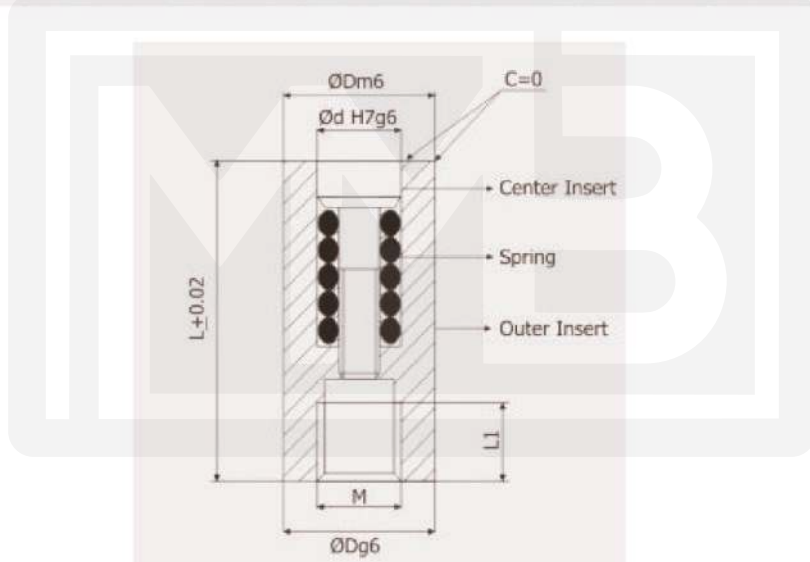
Available Ex - stock
Any other diameter and length available as per customers requirement



Center Re-placeable Date Indicator (spring loaded long length - SLL)

Raw material: SUS - 420
Hardness: 47-52 HRC

SLL-ONM	SLL-ONY	SLL-MNY	SLL-OND	SLL-ONQ	SLL-OWI	SLL-SIN	SLL-SIA	SLL-ONA
Spring Loaded Long Length Only Month	Spring Loaded Long Length Only Year	Spring Loaded Long Length Month & Year	Spring Loaded Long Length Only Days	Spring Loaded Long Length Quarter Indicator	Spring Loaded Long Length Only Week	Spring Loaded Long Length Shift Indicator	Spring Loaded Long Length Shift Indicator	Spring Loaded Long Length Only Arrow



ØDm6		ØDg6		Ød	H7	L	L1	M
5	+0.012	5	-0.004	3.1	+0.012	17	3.5	3 x 0.5
6	+0.004	6	-0.012					
8	+0.015	8	-0.005	4.6	+0.012	20	4.0	4 x 0.7
10	+0.006	10	-0.014					5 x 0.8
12	+0.018	12	-0.006	8.4	+0.015	25	6.0	6 x 1
16	+0.007	16	-0.017					
20	+0.021	20	-0.007	11.0	-0.018	33	8.0	8 x 1.25
	+0.008		-0.020					

Available against order



Center Insert (Spring loaded long length - SLL)

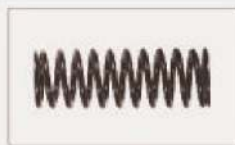
Raw material : SUS-420
Hardness : 47 - 52 HRC



		for outer insert		ØDg6		B
 SLL-CIY Center Insert Only Year for Spring Loaded Long Length Indicator	 SLL-CIB Center Insert Only Arrow for Spring Loaded Long Length Indicator	Ø5	3.1	-0.004	13	
		Ø6	3.1	-0.012		
		Ø8	4.6	-0.005	14	
		Ø10	4.6	-0.014		
		Ø12	6.4	-0.006	17	
		Ø16	8.4	-0.017		
		Ø20	11	-0.007	22	
				-0.020		

Available against order

Ordering example : Code -Ødg6*B - Quantity
SLL-CIY - 3.1*13 - 5 Pieces



Size of spring used with center insert

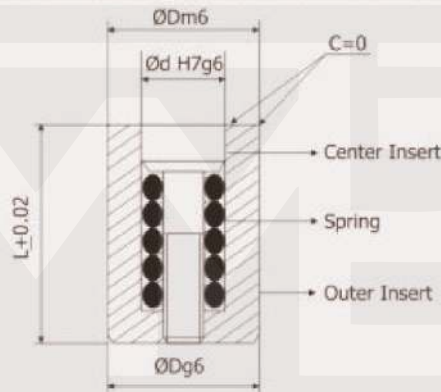
Ø6	3.1	3.1	4.6	4.6	6.4	8.4	11
Spring OD	3.0	3.0	4.5	4.5	6.0	8.0	10.0



Center Re-placeable Date Indicator (spring loaded Short length - SLS)

Raw material: SUS - 420
Hardness: 47-52 HRC

SLS-ONM	SLS-ONY	SLS-MNY	SLS-OND	SLS-ONQ	SLS-OWI	SLS-SIN	SLS-SIA	SLS-ONA
Spring Loaded Short Length Only Month	Spring Loaded Short Length Only Year	Spring Loaded Short Length Month & Year	Spring Loaded Short Length Only Days	Spring Loaded Short Length Quarter Indicator	Spring Loaded Short Length Only Week	Spring Loaded Short Length Shift Indicator	Spring Loaded Short Length Shift Indicator	Spring Loaded Short Length Only Arrow



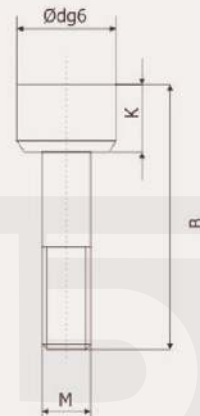
ØDg6		ØDg6		Ød	H7	L	
2.6	+0.008	2.6	-0.002	1.4	+0.010	4	
3	+0.002	3	-0.008	1.5		5	
4	+0.012	4	-0.004	2.1		+0.012	8
5	+0.004	5	-0.012	3.1	10		
6		6		4.4	12		
8	+0.015	8	-0.005	5.2	+0.015	14	
10	+0.006	10	-0.014	6.2		+0.018	16
12	+0.018	12	-0.006	8.2			
16	+0.007	16	-0.017				
20	+0.021	20	-0.007	11	+0.018	16	
	+0.008		-0.020				

Available against order
Any other diameter or length also available on request



Center Insert (Spring loaded short length - SLS)

Raw material : SUS-420
Hardness : 47 - 52 HRC



for outer insert	Ød	g6	K	L	M
Ø2.6	1.4	-0.002	0.9	4	0.8*0.2
Ø3	1.5				
Ø4	2.1	-0.004	1.2	5	1.1*0.2
Ø5	3.1		2.0	8	1.6*0.2
Ø6	3.1	-0.012	2.5	10	2.3*0.25
Ø8	4.4				
Ø10	5.2	-0.005	3.0	12	2.5*0.35
Ø12	6.2				
Ø16	8.2	-0.014	3.5	14	3*0.35
Ø20	11.0	-0.006 -0.017	4.5	16	4*0.35

Available against order

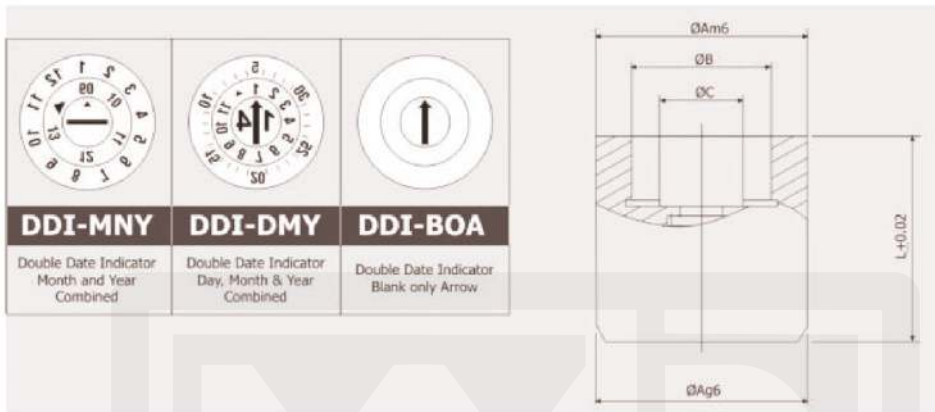


Ødg6	1.4	1.5	2.1	3.1	3.1	4.4	5.2	6.2	8.2	11
Spring OD	1.3	1.3	1.9	2.6	2.6	4.2	5.0	6.0	8.0	10.0

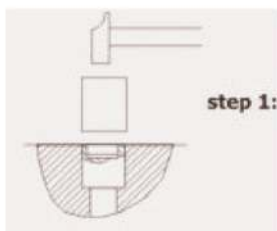


Double Date Indicator (DDI)

Raw material: SUS - 420
Hardness: 47-52 HRC

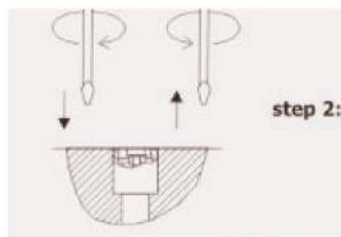


ØAm6		ØAg6		ØB	ØC	L
8	+0.015	8	-0.005	5.8	3.6	10
10	+0.006	10	-0.014	7.0	4.0	12
12	+0.018	12	-0.006	8.5	5.0	14
16	+0.007	16	-0.017	11.5	7.0	14
20	+0.021	20	-0.007	14.0	8.0	16
	+0.008		-0.020			



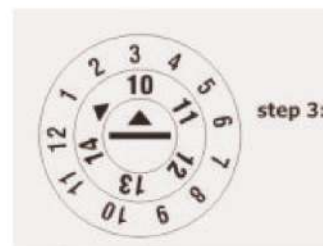
step 1:

Fix the double date indicator in press fit hole, with the help of soft material such as copper or polyurethane hammer



step 2:

Necessary position of month can be achieved by moving center insert with the help of screw driver in clock-wise direction. necessary position of the year can be achieved by moving center insert with the help of screw driver in anti clock direction.



step 3:

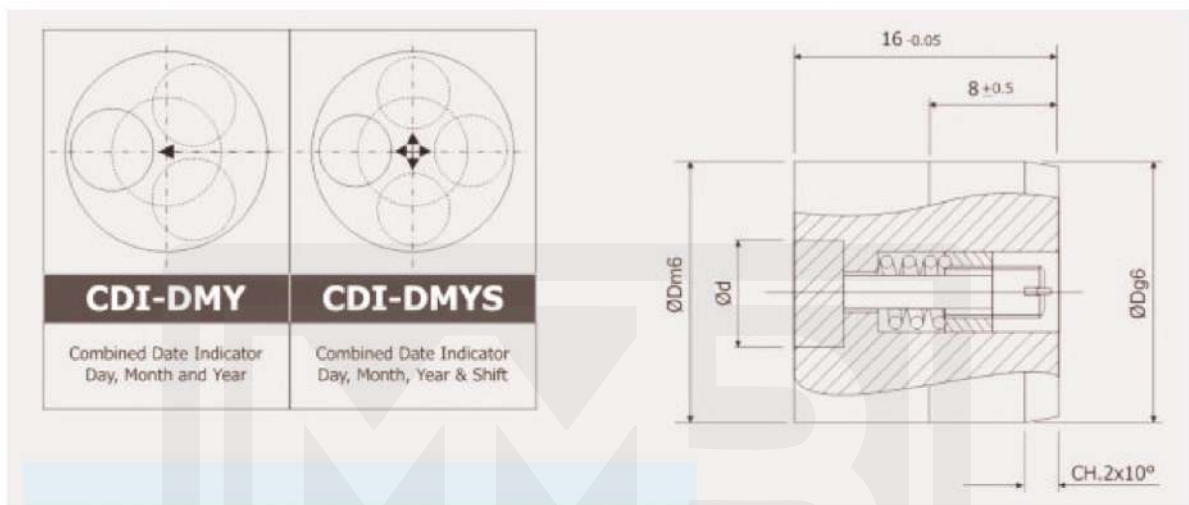
Date indicator is ready to use

Available against order



Combined Date Indicator (CDI)

Raw material : SUS-420
Hardness : 47 - 52 HRC



- ~ Comes with the option of 3 in 1 and 4 in 1 indicators
- ~ Easy to install, eliminates the installation of 3 to 4 different date indicators in the mould
- ~ Combines Various option for shift, day, month, year, raw-material etc.

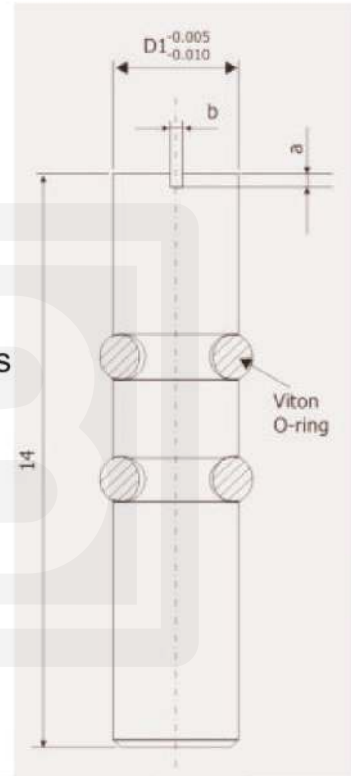
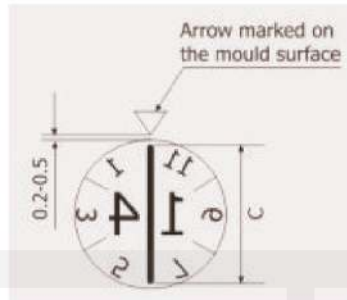
Ø Dm6		ØDg6		Ød	CDI DMY	CDI DMYS
16	+0.018	16	-0.006			
18	+0.007	18	-0.017		•	
22	+0.021 +0.008	22	-0.007 -0.020	8.7	•	
25		25				•
28		28			•	
32	+0.025 +0.009	32	-0.009 -0.025	11.5		•

Available against order



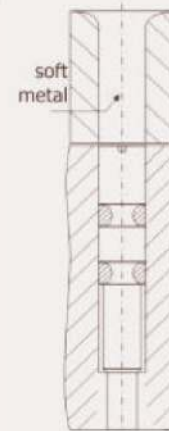
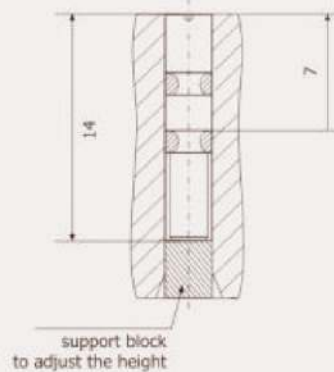
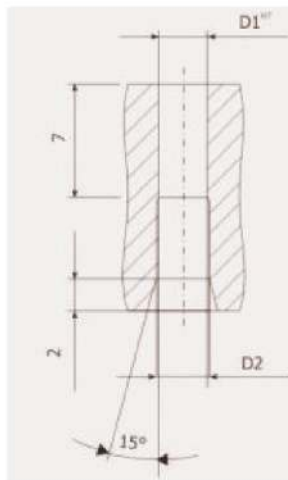
Mini Date Indicator (MDI)

Raw material: UT-40 Beryllium Copper
 Hardness: 38-40 HRC
 or
 Raw material SUS - 420
 Hardness: 47-52



mini date indicator is specially used for small parts of electrical components

D1	D2	a	b	c
2	2.1	0.3	0.1	1.8
2.5	2.6	0.3	0.1	2.3
3	3.2	0.3	0.15	2.8
4	4.2	0.3	0.15	3.8



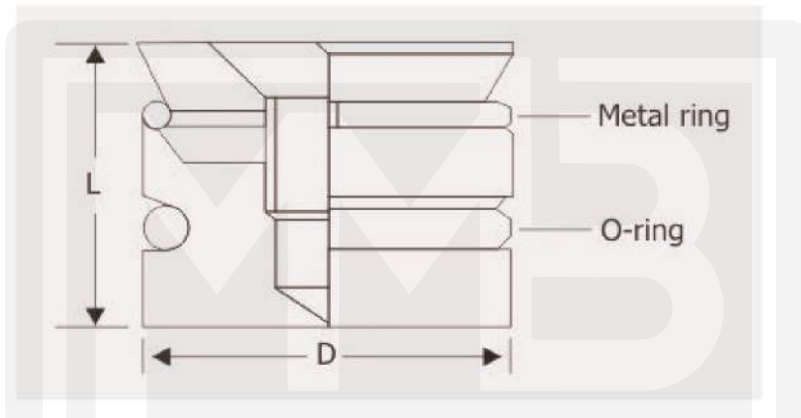
Available against order



(Viton O Ring)

Cooling Plugs (O-ring)

Raw material: Brass



Code	MCP 04	MCP 06	MCP 08	MCP 10	MCP 12	MCP 14	MCP 16	MCP 18	MCP 20	MCP 25	MCP 30
D	Ø4	Ø6	Ø8	Ø10	Ø12	Ø14	Ø16	Ø18	Ø20	Ø25	Ø30
L	8	10	10	10	12	13	14	16	19	19	19
Stock	✓	✓	✓	✓	✓	✓	✓	✓	✓	•	•

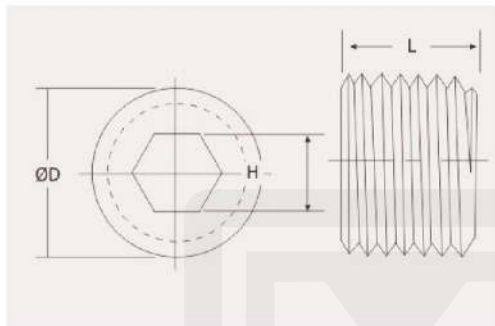
Features:

- ~ This kind of cooling plugs can be used in any kind of water slot as stopper
- ~ Cooling plugs can be used when it is backed up by other mould inserts or mould plates
- ~ With the help of screw driver or allen key, cooling plugs can be tightened to install and loosened to uninstall from the mould
- ~ It requires less space compared to conventional threaded cooling plugs and also eliminates the tapping operations
- ~ Standard cooling plugs with Viton O-ring can be used up to 220°C; water resistance as well as oil resistance



Cooling plugs (Threaded)

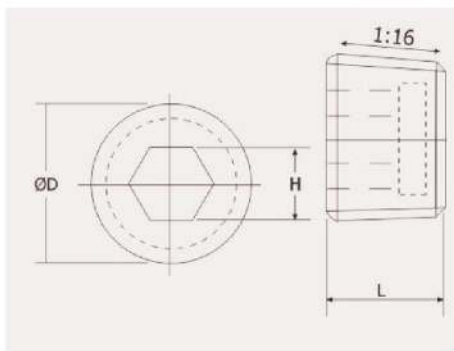
Raw material : Brass



Code	ØD	L	H
MTP-M8	M8 X0.75	8.0	4.0
MTP-M10	M10 X 1	8.0	5.0
MTP-M12	M12 X 1.5	8.0	6.0
MTP-M14	M14 X 1.5	10.0	7.0
MTP-1 BSP	1/8" BSP	7.0	5.0
MTP-2 BSP	1/4" BSP	8.9	6.0
MTP-3 BSP	3/8" BSP	10.0	8.0
MTP-4 BSP	1/2" BSP	12.0	10.0
MTP-5 BSP	3/4" BSP	14.0	14.0
MTP-6 BSP	1" BSP	16.5	17.0

Available Ex - stock

Ordering example : Code - Quantity
VTP -4 BSP 5 Pieces



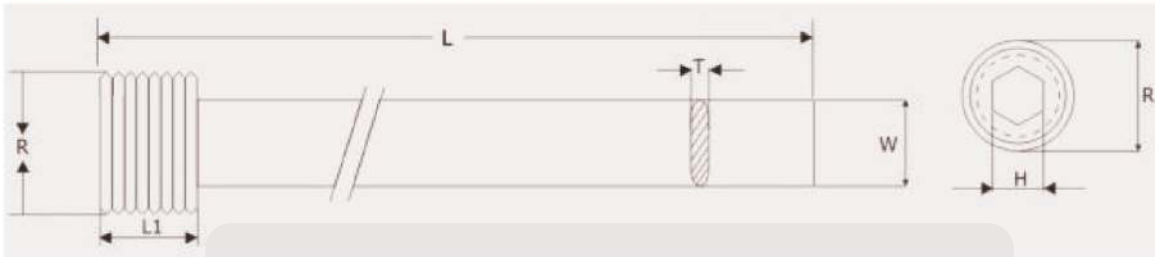
Code	ØD	L	H
MTP-MT8	M8 X0.75	8.0	4.0
MTP-MT10	M10 X 1	8.0	5.0
MTP-MT12	M12 X 1.5	8.0	6.0
MTP-MT14	M14 X 1.5	10.0	7.0
MTP-1 BSPT	1/8" BSPT	7.0	5.0
MTP-2 BSPT	1/4" BSPT	8.9	6.0
MTP-3 BSPT	3/8" BSPT	10.0	8.0
MTP-4 BSPT	1/2" BSPT	12.0	10.0
MTP-5 BSPT	3/4" BSPT	14.0	14.0
MTP-6 BSPT	1" BSPT	16.5	17.0

✓ - Ex-stock • - Against Order

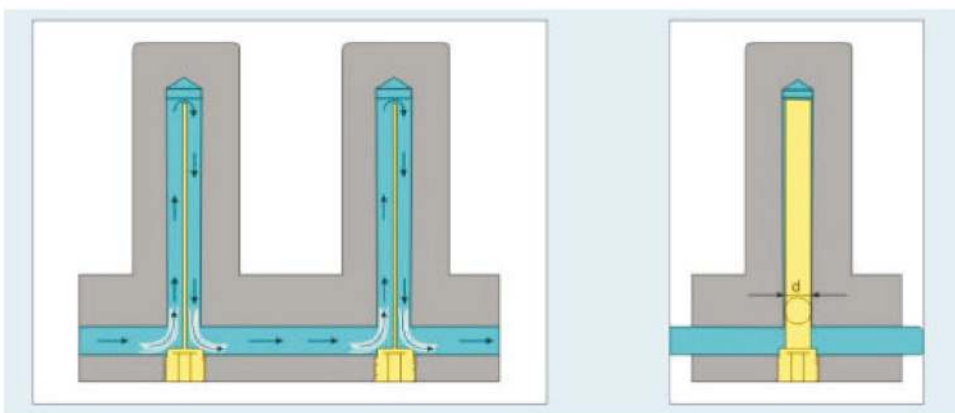


Cooling Baffles (Straight Type)

Raw material: Brass



Code	R	H	W	T	L	L1	d
MCB-100-1/8	1/8" BSP	5	8.00	2.0	100	10	8.5
MCB-100-1/8	1/8" BSP	5	8.00	2.0	200	10	8.5
MCB-125-1/4	1/4" BSP	6	11.00	2.5	125	11	11.5
MCB-250-1/4	1/4" BSP	6	11.00	2.5	250	11	11.5
MCB-150-3/8	3/8" BSP	8	14.50	2.5	150	13	15.0
MCB-300-3/8	3/8" BSP	8	14.50	2.5	300	13	15.0
MCB-200-1/2	1/2" BSP	10	18.00	2.5	200	16	18.5
MCB-400-1/2	1/2" BSP	10	18.00	2.5	400	16	18.5
MCB-300-3/4	3/4" BSP	12	23.00	3.0	300	19	23.5
MCB-500-3/4	3/4" BSP	12	23.00	3.0	500	19	23.5

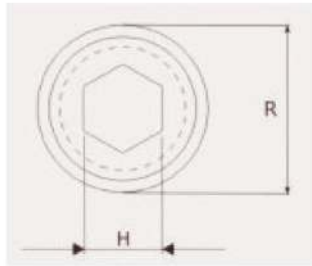


Available against order
 customized baffles are also available in different lengths and with NPT & BSPT threads

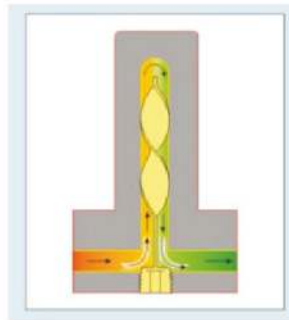


Cooling Baffles (Spiral type)

Raw material : Brass



Code	R	L	W	T
MSB-100-1/8	1/8" BSP	100	8.2	2
MSB-100-1/8	1/8" BSP	200	8.2	2
MSB-125-1/4	1/4" BSP	125	11.2	2.5
MSB-250-1/4	1/4" BSP	250	11.2	2.5
MSB-150-3/8	3/8" BSP	150	14.7	2.5
MSB-300-3/8	3/8" BSP	300	14.7	2.5
MSB-200-1/2	1/2" BSP	200	18.2	2.5
MSB-400-1/2	1/2" BSP	400	18.2	2.5
MSB-300-3/4	3/4" BSP	300	23.2	3
MSB-500-3/4	3/4" BSP	500	23.2	3
MSB-400-1	1" BSP	400	26.7	3
MSB-600-1	1" BSP	600	26.7	3

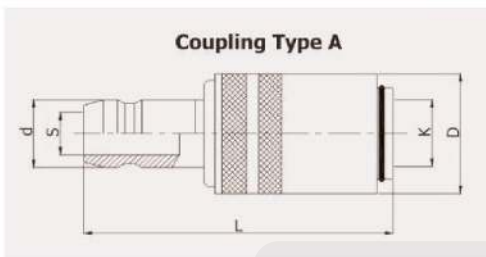


Available against order
 customized baffles are also available in different lengths and with NPT & BSPT threads



Cooling System (Type A)

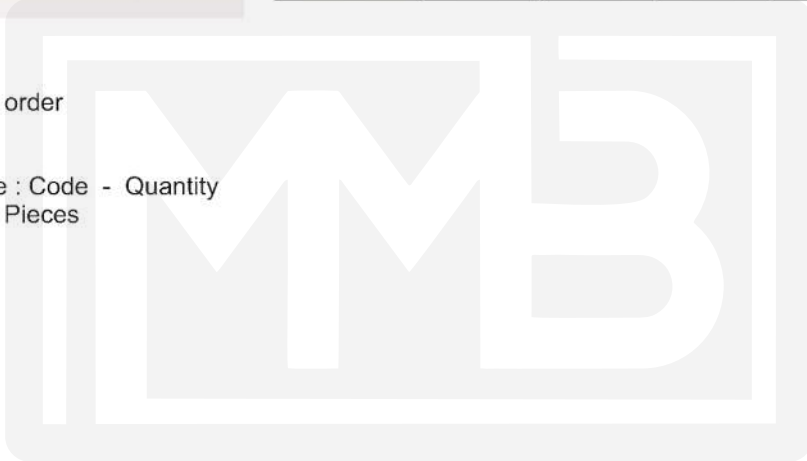
Raw material: Brass



Code	D	L	d	K	S
VCCA-001	17.0	53.0	10.0	9.0	6.0
VCCA-002			14.0		9.0
VCCA-003	22.0	62.0	10.0	13.0	6.0
VCCA-004			14.0		9.0
VCCA-005			31.0		90.0

Available against order

Ordering example : Code - Quantity
VCCA - 002 = 20 Pieces





Heat Insulation Products



Product Code: **MH - DN**

Properties	Unit	
Density	g/cm ³	1.8
Flexural strength at 23°C	N/mm ²	140
Compressive strength at 23°C		330
Compressive strength at 200°C	N/mm ²	120
Coeff.of thermal expansion	10 ⁻⁶ k ⁻¹	18
thermal conductivity	w/mk	0.18
Continuous use temperature	°C	200
Maximum use temperature	°C	320
Water Absorption (after 24 to 23°C)	%	0.3

Hot Runner Insulation - Product Code: **MH - SG**

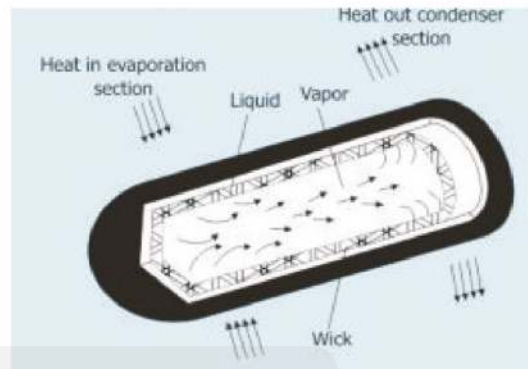
Properties	Unit	
Density	g/cm ³	2.1
Flexural strength at 23°C	N/mm ²	200
Compressive strength at 23°C		400
Compressive strength at 200°C	N/mm ²	250
Coeff.of thermal expansion	10 ⁻⁶ k ⁻¹	10
thermal conductivity	w/mk	0.35
Continuous use temperature	°C	500
Maximum use temperature	°C	600
Water Absorption (after 24 to 23°C)	%	0.8

Against specific requirement, various grades of insulation products are available, suitable for specific application such as :

- ~ For higher clamping forces
- ~ for surface insulation



Heat Pipes (for plastic moulding, die casting & heat recovery system)



What is a heat pipe work?

A heat pipe is an evacuated sealed tube with a capillary mechanism incorporated for the return of working fluid

How does heat pipe work?

Basically, a heat pipe is a thermal energy absorbing and transferring system, which can carry about one thousand times more heat energy than an equivalent size of copper rod for the same temperature gradient. In other words, it has an effective thermal conductivity several hundred times more than an equivalent size of copper.

When Heat is added to the evaporator section, the working fluids boils and converts into vapor absorbing latent heat. After reaching the condenser section, due to partial pressure build up, the vapor transforms back in to liquid, thus releasing latent heat. From the condenser section, heat is taken away by means of water cooling / air cooling with fins etc. The liquid condensate returns to original position through the capillary return mechanism, completing the cycle. Due to very High latent heat of vaporization a large quantity of heat can be transferred.

Reason to use Heat pipes:

- ~ Reduce cycle time
- ~ Eliminate hot spots
- ~ Reduce wastage
- ~ Improve product quality
- ~ Eliminate core clogging
- ~ Cut Moulds & moulding costs
- ~ Upgrade old moulds
- ~ Use damaged mould

Temperature range :

Heat pipes are available in two temperature ranges. For injection moulds: Heat pipes having temperature range from +5°C to 200°C. The main application of these types of heat pipes are in injection moulding, compression/transfer moulding and rotation moulding, spiral screws.

For die casting:

Heat pipes having temperature range from +5°C to +350°C.

The main application of these types of heat pipes are in die casting, spiral screw in plastic moulding.

It is advisable to order the heat pipe suitable to the application and temperature range. If the heat pipe gets heated above its operating temperature, it releases a small amount of non-toxic gas and becomes in-operative.

Material of construction : Copper / stainless steel.

How to get best out of heat pipes?

It is essential to design cooling system in mould design stage only. Normally water cooling is given after mould is complete. Due to mould elements like returns pins, ejector pins, inserts, allen bolts etc. only limited space is available for providing water channels. Mould cooling controls productivity of mould and hence one should give ejector pins returns pins, allen bolts, guide pillar and other standard items in the vacant places. Selection of correct diameter and length of heat pipe is important. Based on product raw material weight of the product and desired cycle time, number of heat pipes required for a particular mould is decided. Once size and quantity of heat pipes is finalized installation of heat pipes in mould needs to be done accurately to get maximum efficiency.

Heat pipe application Guide:

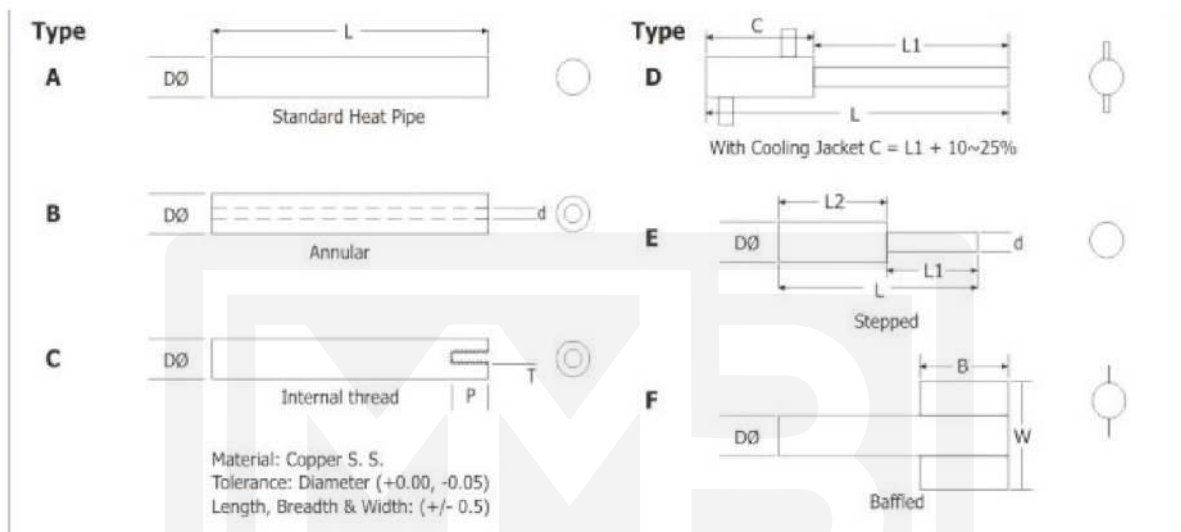
Heat pipes are widely used for improving cooling efficiency in injection moulds and die casting dies all over the world. The method of cooling has helped to reduce cycle time, reduce rejection and improve quality of product. Sketches given below describe various applications where one can confidently use heat pipes. These are taken from actual examples of moulds which are in product all over the country. In conventional water cooling, effectiveness of water cooling goes down due to rusting, blocking of cooling channel. In case of heat pipes since water is not circulated directly in the core cooling efficiency remains the same through the life of mould.



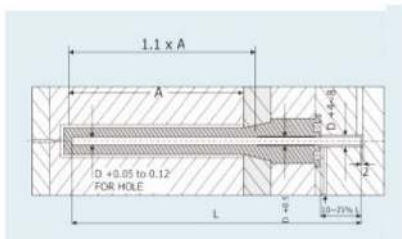
taken from actual example of moulds which are in production all over the country. In conventional water cooling, effectiveness of water cooling goes down due to rusting, blocking of cooling channels. In case of heat pipes since water is not circulated directly in the core cooling efficiency remains the same throughout the life of mould.

Heat Pipe standard range details:

Heat pipes are readily available in standard diameters from 3mm to 12mm and in lengths from 50mm to 250mm shapes as shown in the charts. Offer sizes from 2 to 24 mm dia and any other length are also available on request. If you need any further information and help in solving your mould cooling problems and our technical service people will assist you. Heat pipes for Heat Recovery system are made as per customized designs



A	DIA Ø(mm)			LENGTH (mm)												
	B d	C Tp	D L1-L	E L1-L2-d	F B W	50	75	100	125	150	175	200	225	250		
3			Please state ↑	Please state ↑	Please state ↑	•	•	•	•	•	•	•	•	•		
4						•	•	•	•	•	•	•	•	•	•	•
5		3-3				•	•	•	•	•	•	•	•	•	•	•
6	3	3-3				•	•	•	•	•	•	•	•	•	•	•
8	4	6-6				•	•	•	•	•	•	•	•	•	•	•
10	6	8-8				•	•	•	•	•	•	•	•	•	•	•
12	8	8-8	•	•	•	•	•	•	•	•	•	•	•			



Guide Lines for heat pipe installation

- 1) Select the large dia of heat pipe considering the core length
- 2) Drill and remain the hole to get 0.05 to 0.12 mm larger hole than heat pipe diameter. scrub the hole with solvents to remove dirt and oil.
- 3) Water to be circulated on 10 to 25% of heat pipe length
- 4) Do not cut or Pierce heat pipe. This will make it inefficient.
- 5) Before inserting Heat pipe in the hole, coat uniformly with installation paste over entire length in which water is circulated and insert with gradual rotation of heat pipe to displace air from the hole.
- 6) Do not put any packaging over heat pipe incase hole becomes oversize. Use Higher size heat pipe.
- 7) Position inlet and outlet of water to get turbulent flow over heat pipe cooling end.

Sprue Bush

Raw material : O.H.N.S Steel Non Hardened

d1 Body dia
d2 Head dia
K Head length
L Body length
R Radius
T1 Max. Dia of taper hole
T2 Min. Dia of taper hole



Note:

Body dia (d1) + 0.04

T1, T2 will be + 0.2

All areas are ground finish & taper hole is high polished

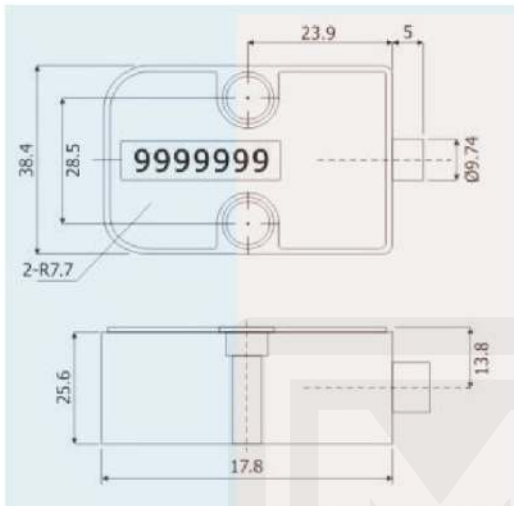
d1 Body dia	d2 Head dia	K Head length	R Radius	T1 Max. dia of taper hole	T2 Min. dia of taper hole	Code	Body length (L) Code			
							20	25	30	35
16	30	19	16	7.5	3.6	Code	DK 1620	DK 1625	DK 1630	DK 1635
16	30	19	16	7.8	3.6	Code	DK 1640	DK 1645	DK 1650	DK 1655
16	30	19	16	8.0	3.6	Code	DK 1660	DK 1665	DK 1670	DK 1675
16	30	19	16	8.0	3.6	Code	DK 1680	DK 1685	DK 1690	DK 1695
19	34	22	20	8.0	4.2	Code	DK 1920	DK 1925	DK 1930	DK 1935
19	34	22	20	8.3	4.2	Code	DK 1940	DK 1945	DK 1950	DK 1955
19	34	22	20	8.5	4.2	Code	DK 1960	DK 1965	DK 1970	DK 1975
19	34	22	20	8.5	4.2	Code	DK 1980	DK 1985	DK 1990	DK 1995
22	38	25	24	8.5	4.5	Code	DK 2220	DK 2225	DK 2230	DK 2235
22	38	25	24	9.0	4.5	Code	DK 2240	DK 2245	DK 2250	DK 2255
22	38	25	24	9.5	4.5	Code	DK 2260	DK 2265	DK 2270	DK 2275
22	38	25	24	9.5	4.5	Code	DK 2280	DK 2285	DK 2290	DK 2295

Any other diameter and length as per customer requirement

• Also available hardened sprue bush

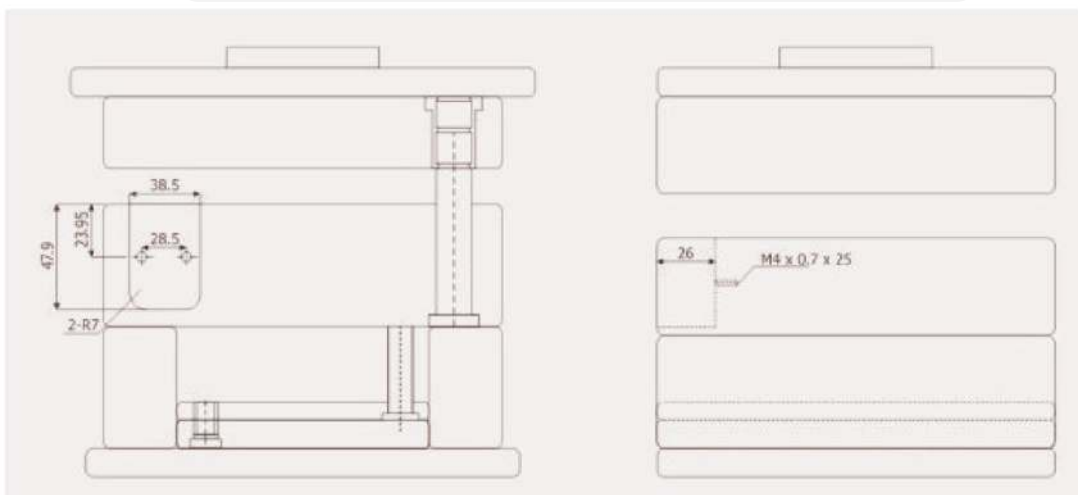


Mould Counter



Code	Screw size
MMC - 001 (metric)	M4 x 0.7 x 25

- ~ Maximum working temperature 120°C
- ~ In case of high temperature mould counter should be installed outside the mould with insulation plate





Dies & Mould Polishing & Finishing Tools



Steel & Diamond Wire files:

- ~ Steel wire files : 14cm, 16cm, 18cm in C & F Grades.
- ~ Steel & diamond ruffles (bend files) in smaller & larger section
- ~ Special purpose round pointed, extra thin, extra slim steel & diamond files for special application
- ~ Machine files
- ~ 16cm Diamond wire files

Emergency sticks / EDM and special polishing stones:

~ Silicon carbide EMERY STICKS:

SIZE : 6, 10, 12mm SQ x 150mm Long flat stick
Grade: C & F

- ~ Aluminium oxide, Sulphur treated yellow color hard polishing stones specially for removing tough / hard surface

SIZE : 2,3,4,5,6,8,10&12 mm SQ x 150mm long, 1.5,2,3 mm thickness x 12mm width x150mm long
GRADE : 80,120,220,320,400, & 600 GRIT

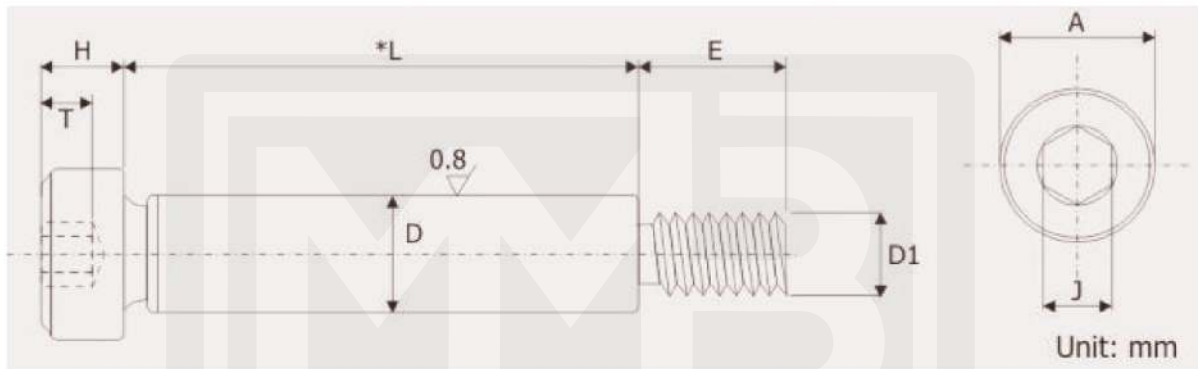


Metric Hexagon Socket head shoulder screw

Raw material : Alloy Steel
Hardness: 38-44 HRC



Standard	As per ISO - 7379 -1983
SURFACE TREATMENT	Black Oxide
CLASS OF THREAD	5g6g

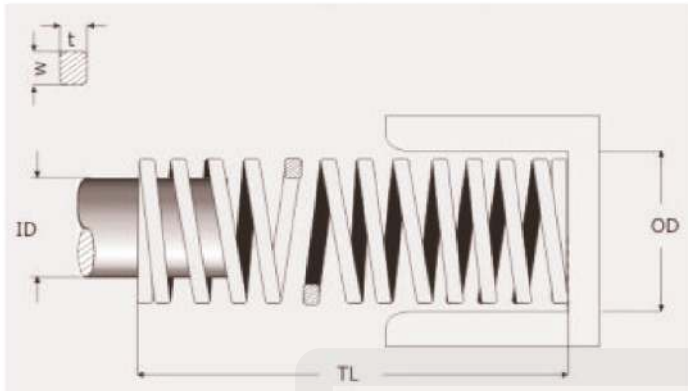






(*L = Length, starting from 10mm; available in step of 5mm; eg: 15,20 etc.)







Nominal size of basic shoulder Diameter	D		A		H		D1		E	T	J
	shoulder diameter		head diameter		head height		Nominal Thread size of basic thread Diameter	Thread per inch	Thread per length	key engagement	Hexagon socket size
	max	min	max	min	max	min					
6.0	5.987	5.951	10.0	9.78	4.5	4.32	M5	0.80	9.75	2.4	3.0
6.5	6.487	6.451	10.0	9.78	4.5	4.32	M5	0.80	9.75	2.4	3.0
8.0	7.987	7.951	13.0	12.73	5.5	5.32	M6	1.00	11.25	3.3	4.0
10.0	9.987	9.951	16.0	15.73	7.0	6.78	M8	1.25	13.25	4.2	5.0
12.0	11.984	11.941	18.0	17.73	9.0	8.78	M10	1.50	16.40	4.9	6.0
13.0	12.984	12.941	18.0	17.73	9.0	8.78	M10	1.50	16.40	4.9	6.0
16.0	15.984	15.941	24.0	23.67	11.0	10.73	M12	1.75	18.40	6.6	8.0
20.0	19.980	19.928	30.0	29.67	14.0	13.73	M16	2.00	22.40	8.8	10.0
24.0	23.980	23.928	36.0	35.61	16.0	15.73	M20	2.50	27.40	10.0	12.0
25.0	24.980	24.928	36.0	35.61	16.0	15.73	M20	2.50	27.40	10.0	12.0

Rectangular wire Die springs

Characteristics and tolerances



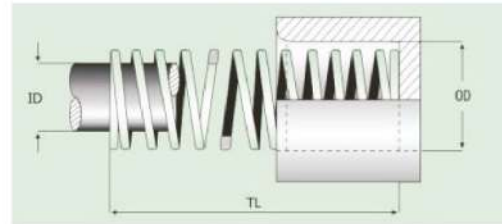
OD	ID	TL	Code	LR	 A	 B	 C	 D									
w x t approx.					Min. Comp.	Medium Comp.	Max. Comp.	Approx.									
mm mm	mm	mm		kg / mm	mm kg	mm kg	mm kg	mm kg									
OD	outer diameter	ID	inner diameter	w x t	cross wire section (width x thickness)	TL	spring free length	LR	load required for 1 mm compression	A	recommended compression for maximum spring life	B	recommended compression for medium spring life	C	maximum working compression	D	solid compression (approximate)

Series	Cross Wire Section	Colour	Load	Max. compression	Diameters	Free Length	LR
VLG		Light Green	Extra Light	50% TL ✓		± 1% TL ± 0.75 min.	± 10%
VG		Green ISO-10243	Light	40% TL ✓			
VB		Blue ISO-10243	Medium	37.5% TL ✓			
VR		Red ISO-10243	Heavy	30% TL ✓			
VY		Yellow ISO-10243	Extra Heavy	25% TL ✓			



MLG - series Light green color extra light load springs

Rectangular wire Die springs



OD	ID	TL	CODE	RATE LR	'A' 30% minimum compression		'B' 40% medium compression		'C' 50% maximum compression		'D' Solid compression	
					mm	kg	mm	kg	mm	kg	mm	kg
w x t												
mm	mm	mm		kg/mm	mm	kg	mm	kg	mm	kg	mm	kg
20	10	25	MLG 20 - 025	3.0	7.5	22.5	10.0	30.0	12.5	37.5	13.9	41.72
		32	MLG 20 - 032	2.3	9.6	22.2	12.8	29.5	16.0	37.0	18.2	41.92
		38	MLG 20 - 038	1.9	11.4	21.7	15.2	28.9	19.0	36.1	22.0	41.72
		44	MLG 20 - 044	1.6	13.2	21.1	17.6	28.2	22.0	35.2	25.8	41.31
		51	MLG 20 - 051	1.4	15.3	21.4	20.4	28.5	25.5	35.7	30.3	42.33
		64	MLG 20 - 064	1.2	19.2	22.1	25.6	29.5	32.0	36.8	38.9	44.88
		76	MLG 20 - 076	1.0	22.8	22.8	30.4	30.4	38.0	38.0	47.0	47.02
		89	MLG 20 - 089	0.9	26.7	22.7	35.6	30.1	44.5	37.8	55.7	47.12
		102	MLG 20 - 102	0.8	30.6	23.0	40.8	30.8	51.0	38.3	64.2	48.45
		115	MLG 20 - 115	0.7	38.1	22.4	46.0	30.0	57.5	37.4	72.9	47.63
		127	MLG 20 - 127	0.6	34.5	22.9	50.8	30.6	63.5	38.1	80.7	48.55
		139	MLG 20 - 139	0.6	41.7	22.9	55.6	30.6	69.5	38.2	88.4	48.65
		152	MLG 20 - 152	0.5	45.6	22.8	60.8	30.4	76.0	38.0	96.7	48.35
		4.3 x 1.7		305	MLG 20 - 305	0.3	91.5	23.8	122.0	31.1	152.5	39.7
25	12.5	25	MLG 25 - 025	5.5	7.5	41.3	10.0	55.0	12.5	68.8	12.9	70.89
		32	MLG 25 - 032	4.3	9.6	41.3	12.8	55.1	16.0	68.8	17.2	74.05
		38	MLG 25 - 038	3.7	11.4	41.6	15.2	55.5	19.0	69.4	20.7	75.58
		44	MLG 25 - 044	3.2	13.2	42.2	17.6	56.4	22.0	70.4	24.4	78.13
		51	MLG 25 - 051	2.8	15.3	42.1	20.4	56.2	25.5	70.1	28.5	78.54
		64	MLG 25 - 064	2.2	19.2	42.2	25.6	56.4	32.0	70.4	36.5	80.38
		76	MLG 25 - 076	1.9	22.8	42.2	30.4	56.1	38.0	70.3	43.9	81.09
		89	MLG 25 - 089	1.6	26.7	41.4	35.6	55.2	44.5	69.0	51.4	79.66
		102	MLG 25 - 102	1.4	30.6	41.3	40.8	55.0	51.0	68.9	59.3	79.87
		115	MLG 25 - 115	1.2	38.1	41.4	46.0	55.4	57.5	69.0	67.2	80.89
		127	MLG 25 - 127	1.1	34.5	41.1	50.8	54.9	63.5	68.6	74.4	80.48
		139	MLG 25 - 139	1.0	41.7	40.9	55.6	54.5	69.5	68.1	81.6	79.87
		152	MLG 25 - 152	0.9	45.6	41.0	60.8	54.6	76.0	68.4	89.5	81.70
		178	MLG 25 - 178	0.8	53.4	41.7	71.2	55.5	89.0	69.4	105.4	82.52
203	MLG 25 - 203	0.7	60.9	41.4	81.2	55.5	101.5	69.0	120.7	81.91		
5.4 x 2.2		305	MLG 25 - 305	0.5	91.5	41.2	122.0	54.8	152.5	68.6	182.4	87.52
32	16	38	MLG 32 - 038	4.4	11.4	50.2	15.2	66.8	19.0	83.6	19.9	89.45
		44	MLG 32 - 044	3.8	13.2	50.2	17.6	66.9	22.0	83.6	23.5	91.19
		51	MLG 32 - 051	3.3	15.3	50.5	20.4	67.4	25.5	84.2	27.6	91.60
		64	MLG 32 - 064	2.6	19.2	49.9	25.6	66.6	32.0	83.2	35.2	93.43
		76	MLG 32 - 076	2.2	22.8	50.2	30.4	67.0	38.0	83.6	42.4	92.31
		89	MLG 32 - 089	1.9	26.7	49.4	35.6	65.7	44.5	82.3	50.0	92.21
		102	MLG 32 - 102	1.6	30.6	49.0	40.8	65.4	51.0	81.6	57.6	94.86
		115	MLG 32 - 115	1.5	38.1	50.0	46.0	66.6	57.5	83.4	65.5	93.94
		139	MLG 32 - 139	1.2	34.5	49.2	50.8	65.8	63.5	82.0	79.4	93.94
		152	MLG 32 - 152	1.1	41.7	49.1	55.6	65.7	69.5	82.1	87.3	94.35
		178	MLG 32 - 178	0.9	45.6	48.7	60.8	65.4	76.0	81.9	102.9	94.45
		203	MLG 32 - 203	0.8	53.4	49.5	71.2	64.6	89.0	81.2	117.7	93.64
		254	MLG 32 - 254	0.7	60.9	49.5	81.2	66.3	101.5	82.6	148.1	96.70
		6.5 x 2.6		305	MLG 32 - 305	0.5	91.5	49.4	122.0	68.7	152.5	82.4



MLG - series Light green color extra light load springs

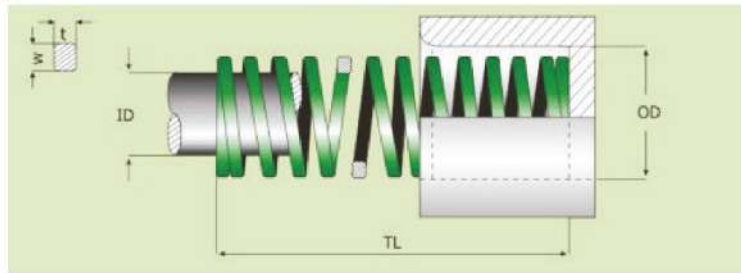
Rectangular wire Die springs

ID		TL	CODE	RATE LR	'A' 30% minimum compression		'B' 40% medium compression		'C' 50% maximum compression		'D' Solid compression	
w	x t				mm	kg/mm	mm	kg	mm	kg	mm	kg
40	20	51	MLG 40 - 051	4.9	15.3	75.1	20.4	100.1	25.5	125.2	28	137.39
		64	MLG 40 - 064	4	19.2	76.8	25.6	102.4	32	128	36.2	144.74
		76	MLG 40 - 076	3.4	22.8	77.5	30.4	103.2	38	129.2	43.7	148.41
		89	MLG 40 - 089	2.9	26.7	77.4	35.6	103.1	44.5	129.1	51.7	149.74
		102	MLG 40 - 102	2.5	30.6	76.5	40.8	102	51	127.5	59.8	149.43
		115	MLG 40 - 115	2.3	38.1	77.6	46	103.7	57.5	129.4	67.9	153.1
		127	MLG 40 - 127	2	34.5	76.2	50.8	101.6	63.5	127	75.2	150.35
		139	MLG 40 - 139	1.8	41.7	75.5	55.6	100.4	69.5	125.8	82.4	148.72
		152	MLG 40 - 152	1.7	45.6	75.2	60.8	100.5	76	125.4	90.6	149.74
		178	MLG 40 - 178	1.4	53.4	74.8	71.2	99.5	89	124.6	106.5	148.82
		203	MLG 40 - 403	1.3	60.9	76.1	81.2	101.9	101.5	126.9	122.2	153.3
254	MLG 40 - 254	1	76.2	76.2	101.6	101.6	127	127	153.6	153.51		
8.0 x 3.4	305	MLG 40 - 305	0.9	91.5	77.8	122	103.3	152.5	129.6	185.4	156.98	
50	25	64	MLG 50 - 064	8.8	19.2	169	25.6	225.3	32	281.6	35.1	308.96
		76	MLG 50 - 076	7.2	22.8	164.2	30.4	218.9	38	273.6	42.2	303.86
		89	MLG 50 - 089	6.1	26.7	162.9	35.6	217.2	44.5	271.5	50.3	306.82
		102	MLG 50 - 102	5.3	30.6	162.2	40.8	216.4	51	270	58.4	309.77
		115	MLG 50 - 115	4.7	38.1	162.2	46	216.3	57.5	270	66.1	310.79
		127	MLG 50 - 127	4.3	34.5	163.8	50.8	218.7	63.5	273.1	73.8	317.63
		139	MLG 50 - 139	3.9	41.7	162.6	55.6	216.6	69.5	271.1	80.9	315.18
		152	MLG 50 - 152	3.5	45.6	159.6	60.8	212.7	76	266	89	311.41
		178	MLG 50 - 178	3	53.4	160.2	71.2	213.5	89	267	105.3	315.79
		203	MLG 50 - 503	2.6	60.9	158.3	81.2	211.2	101.5	263.9	120.6	313.65
		254	MLG 50 - 254	2.1	76.2	160	101.6	213.5	127	266.7	152.2	319.77
10.5 x 4.1	305	MLG 50 - 305	1.8	91.5	160.1	122	214	152.5	266.9	183.7	322.32	



MG - Series Green colour light load springs

Rectangular Wire Die springs as per ISO 10243



OD	ID	TL	CODE	RATE LR	'A' 25% minimum compression		'B' 30% medium compression		'C' 40% maximum compression		'D' Solid compression		
					mm	kg	mm	kg	mm	kg	mm	kg	
10	5	25	MG 10 - 025	1	6.3	6.4	7.5	7.7	10	10.2	13.5	13.8	
		32	MG 10 - 032	0.9	8	6.9	9.6	8.4	12.8	11.1	17.5	15.2	
		38	MG 10 - 038	0.7	9.5	6.6	11.4	8	15.2	10.5	20.8	14.4	
		44	MG 10 - 044	0.6	11	6.7	13.2	8.1	17.6	10.8	23.9	14.6	
		51	MG 10 - 051	0.5	12.8	6.5	15.3	7.9	20.4	10.4	28.9	14.8	
		64	MG 10 - 064	0.4	16	6.9	19.2	8.5	25.6	11.2	36.1	15.8	
		76	MG 10 - 076	0.3	19	6.1	22.8	7.4	30.4	9.9	43.2	14.1	
1.7 X 1.1	305	MG 10 - 305	0.1	76.3	8.4	91.5	10.3	122	13.7	178.7	20.1		
13	6.3	25	MG 23 - 025	1.8	6.3	11.4	7.5	13.7	10	18.3	13.2	24.1	
		32	MG 23 - 032	1.7	8	13.4	9.6	16	12.8	21.4	18	30.1	
		38	MG 23 - 038	1.4	9.5	13.1	11.4	15.8	15.2	21.1	21	29.2	
		44	MG 23 - 044	1.2	11	13.5	13.2	16.3	17.6	21.7	24	29.6	
		51	MG 23 - 051	1.2	12.8	14.8	15.3	17.7	20.4	23.8	28.7	33.4	
		64	MG 23 - 064	0.9	16	15	19.2	18.3	25.6	24.3	35.8	34	
		76	MG 23 - 076	0.7	19	13.7	22.8	16.5	30.4	22	42.7	30.9	
		89	MG 23 - 089	0.6	22.3	12.2	26.7	14.7	35.6	19.6	50.4	27.7	
		102	MG 23 - 102	0.4	25.5	10.5	30.6	12.8	40.8	17	58.4	24.4	
		2.4 X 1.4	305	MG 23 - 305	0.1	76.3	10.7	91.5	13.1	122	17.4	172	24.6
16	8	25	MG 16 - 025	2.4	6.3	14.9	7.5	18	10	23.9	12.6	30.1	
		32	MG 16 - 032	2.3	8	18.6	9.6	22.4	12.8	29.9	16.4	38.4	
		38	MG 16 - 038	2	9.5	18.6	11.4	22.4	15.2	29.9	19.7	38.8	
		44	MG 16 - 044	1.7	11	19.1	13.2	23.1	17.6	30.7	22.5	39.3	
		51	MG 16 - 051	1.6	12.8	20.4	15.3	24	20.4	32.6	26.3	42.1	
		64	MG 16 - 064	1.1	16	17.4	19.2	20.9	25.6	27.9	33.3	36.3	
		76	MG 16 - 076	1	19	19.4	22.8	23.3	30.4	31	40.2	41	
		89	MG 16 - 089	0.9	22.3	19.4	26.7	23.5	35.6	31.2	47.6	41.7	
		102	MG 16 - 102	0.8	25.5	20.1	30.6	24.4	40.8	32.4	55.4	44.1	
		115	MG 16 - 115	0.7	28.8	19.3	34.5	23.3	46	31	60.8	40.9	
		3.2 X 1.5	305	MG 16 - 305	0.3	76.3	19.1	91.5	23.4	122	31.1	165.3	42.1
20	10	25	MG 20 - 025	5.7	6.3	35.6	7.5	42.7	10	56.9	12.1	68.3	
		32	MG 20 - 032	4.6	8	36.7	9.6	44.1	12.8	58.8	15.3	70.3	
		38	MG 20 - 038	3.4	9.5	32.2	11.4	38.8	15.2	51.6	18.9	64.2	
		44	MG 20 - 044	3.1	11	33.7	13.2	40.4	17.6	53.9	21.5	65.8	
		51	MG 20 - 051	2.5	12.8	31.7	15.3	38.3	20.4	51	25	62.5	
		64	MG 20 - 064	2	16	32.6	19.2	39.2	25.6	52.2	31.1	63.4	
		76	MG 20 - 076	1.6	19	31	22.8	37.2	30.4	49.6	37.3	60.9	
		89	MG 20 - 089	1.4	22.3	31.6	26.7	38.1	35.6	50.8	44.5	63.5	
		102	MG 20 - 102	1.2	25.5	31.1	30.6	37.4	40.8	50	51.1	62.5	
		115	MG 20 - 115	1.1	28.8	31.9	34.5	38.4	46	51.1	58.2	64.7	
		127	MG 20 - 127	1	31.8	30.5	38.1	36.9	50.8	49.3	64.9	62.9	
		139	MG 20 - 139	0.9	35	29.5	42	36	56	47.9	71.5	61.3	
		152	MG 20 - 152	0.8	38	28.9	45.6	34.9	60.8	46.5	78.8	60.3	
		4.0 X 2.1	305	MG 20 - 305	0.4	76.3	30.5	91.5	37.3	122	49.8	157.4	64.3



MG - Series Green colour light load springs

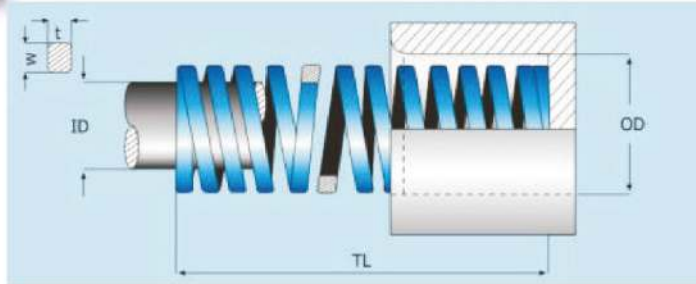
Rectangular Wire Die springs as per ISO 10243

OD	ID	TL	CODE	RATE LR	'A' 25%		'B' 30%		'C' 40%		'D'			
					minimum		medium		maximum		Solid			
					compressio		compressio		compression		compression			
w x t				mm	kg	mm	kg	mm	kg	mm	kg			
mm	mm	mm		kg/mm	mm	kg	mm	kg	mm	kg	mm	kg		
25	12.5	25	MG 25 - 025	10.2	6.3	63.8	7.5	76.5	10.0	102.0	11.9	121.4		
		32	MG 25 - 032	8.2	8.0	65.5	9.6	78.6	12.8	104.9	16.0	131.1		
		38	MG 25 - 038	6.3	9.5	60.0	11.4	72.1	15.2	96.1	18.3	115.8		
		44	MG 25 - 044	5.4	11.0	59.3	13.2	71.2	17.6	95.0	21.4	115.5		
		51	MG 25 - 051	4.5	12.8	57.1	15.3	68.6	20.4	91.6	24.9	111.8		
		64	MG 25 - 064	3.6	16.0	57.4	19.2	69.0	25.6	91.9	31.4	112.7		
		76	MG 25 - 076	2.9	19.0	54.2	22.8	65.1	30.4	86.8	37.5	107.0		
		89	MG 25 - 089	2.4	22.3	54.3	26.7	65.4	35.6	87.1	43.5	106.5		
		102	MG 25 - 102	2.2	25.5	54.8	30.6	65.9	40.8	87.8	51.1	110.0		
		115	MG 25 - 115	1.9	28.8	54.6	34.5	65.8	46.0	87.7	58.1	110.8		
		127	MG 25 - 127	1.7	31.8	54.0	38.1	64.9	50.8	86.5	64.1	109.1		
		139	MG 25 - 139	1.6	35.0	54.2	42.0	65.6	56.0	87.4	70.4	109.9		
		152	MG 25 - 152	1.4	38.0	54.0	45.6	65.1	60.8	86.8	77.1	110.1		
		178	MG 25 - 178	1.3	44.5	56.5	53	68.1	71.2	90.8	93.1	118.7		
203	MG 25 - 203	1.1	50.8	53.8	61	64.6	81.2	86.1	102.7	108.9				
5.4 x 2.7		305	MG 25 - 305	0.7	76.3	54.1	91.5	65.4	122.0	87.1	155.9	111.3		
32	16	38	MG 32 - 038	9.6	9.5	91.0	11.4	109.3	15.2	145.8	18.3	175.4		
		44	MG 32 - 044	8.1	11.0	89.1	13.2	107.0	17.6	142.7	21.5	174.3		
		51	MG 32 - 051	6.8	12.8	87.1	15.3	104.6	20.4	139.4	25.5	174.3		
		64	MG 32 - 064	5.4	16.0	86.4	19.2	103.8	25.6	138.4	31.9	172.5		
		76	MG 32 - 076	4.5	19.0	85.1	22.8	102.3	30.4	136.5	38.6	173.2		
		89	MG 32 - 089	3.8	22.3	84.3	26.7	101.3	35.6	135.0	46.5	176.8		
		102	MG 32 - 102	3.3	25.5	83.1	30.6	99.9	40.8	133.2	53.2	173.6		
		115	MG 32 - 115	3.0	28.8	84.8	34.5	102.1	46.0	136.1	60.0	177.5		
		127	MG 32 - 127	2.6	31.8	81.0	38.1	97.2	50.8	129.5	66.7	170.1		
		139	MG 32 - 139	2.3	35.0	81.3	42.0	98.5	56.0	131.4	71.8	168.4		
		152	MG 32 - 152	2.2	38.0	83.2	45.6	100.0	60.8	133.3	78.5	172.7		
		178	MG 32 - 178	1.9	44.5	82.3	53	99.1	71.2	132.2	94.4	175.2		
		203	MG 32 - 203	1.6	50.8	81.7	61	98.1	81.2	130.9	107.1	172.6		
		254	MG 32 - 254	1.3	63.5	80.6	76.2	97.2	101.6	129.5	136.5	174.0		
6.8 x 3.3		305	MG 32 - 305	1.1	76.3	80.1	91.5	96.1	122.0	128.2	162.7	171.0		
40	20	51	MG 40 - 051	9.4	12.8	119.6	15.3	143.6	20.4	191.5	25.5	239.3		
		64	MG 40 - 064	7.4	16.0	119.0	19.2	143.0	25.6	190.6	31.4	233.8		
		76	MG 40 - 076	6.4	19.0	122.0	22.8	146.5	30.4	195.3	37.8	242.9		
		89	MG 40 - 089	5.2	22.3	115.7	26.7	138.9	35.6	185.2	44.3	230.4		
		102	MG 40 - 102	4.4	25.5	111.7	30.6	134.2	40.8	178.9	50.7	222.4		
		115	MG 40 - 115	4.0	28.8	115.9	34.5	139.3	46.0	185.8	58.1	234.7		
		127	MG 40 - 127	3.8	31.8	119.7	38.1	143.8	50.8	191.8	64.6	243.8		
		139	MG 40 - 139	3.3	35.0	113.3	42.0	137.1	56.0	182.8	80.1	228.8		
		152	MG 40 - 152	2.9	38.0	108.3	45.6	130.3	60.8	173.6	76.6	218.8		
		178	MG 40 - 178	2.6	44.5	114.4	53	137.3	71.2	183.0	90.4	234.4		
		203	MG 40 - 203	2.3	50.8	117.2	61	141.0	81.2	188.0	102.4	237.0		
		254	MG 40 - 254	1.7	63.5	109.9	76.2	132.1	101.6	176.2	128.8	223.4		
		8.1 x 4.0		305	MG 40 - 305	1.5	76.3	114.4	91.5	138.1	122.0	184.2	156.1	235.6
		50	25	64	MG 50 - 064	15.9	16.0	254.4	19.2	305.5	25.6	407.0	31.0	499.3
76	MG 50 - 076			12.8	19.0	243.2	22.8	290.7	30.4	389.1	37.2	476.2		
89	MG 50 - 089			11.1	22.3	247.0	26.7	296.8	35.6	395.2	43.6	195.1		
102	MG 50 - 102			9.6	25.5	244.8	30.6	293.4	40.8	391.7	50.3	482.9		
115	MG 50 - 115			8.3	28.8	238.6	34.5	285.1	46.0	381.8	58.1	482.2		
127	MG 50 - 127			7.2	31.8	228.6	38.1	275.9	50.8	365.8	63.7	458.6		
139	MG 50 - 139			6.8	35.0	236.3	42.0	284.9	56.0	380.8	69.5	472.6		
152	MG 50 - 152			6.1	38.0	231.8	45.6	279.1	60.8	370.9	76.5	466.7		
178	MG 50 - 178			5.3	44.5	235.9	53	283.3	71.2	377.4	91.9	487.1		
203	MG 50 - 203			4.5	50.8	228.4	61	273.4	81.2	365.4	104.7	471.2		
254	MG 50 - 254			3.6	63.5	228.6	76.2	272.0	101.6	365.8	130.6	470.2		
10.9 x 5.3				305	MG 50 - 305	2.9	76.3	221.1	91.5	266.0	122.0	353.8	154.9	449.2
63	38			76	MG 63 - 076	19.3	19.0	366.7	22.8	439.5	30.4	586.7	36.5	704.5
				89	MG 63 - 089	16.1	22.3	358.2	26.7	430.3	35.6	573.2	43.4	698.7
		102	MG 63 - 102	13.4	25.5	341.7	30.6	408.9	40.8	546.7	49.7	666.0		
		115	MG 63 - 115	11.8	28.8	339.3	34.5	408.2	46.0	542.8	55.6	656.1		
		139	MG 63 - 139	10.5	35.0	333.4	42.0	400.2	56.0	533.4	62.7	658.4		
		152	MG 63 - 152	8.6	38.0	326.8	45.6	392.1	60.8	522.9	77.1	663.1		
		178	MG 63 - 178	7.3	44.5	324.9	53	389.4	71.2	519.8	92.2	673.1		
		203	MG 63 - 203	6.3	50.8	319.7	61	383.3	81.2	511.6	103.5	652.1		
		254	MG 63 - 254	4.8	63.5	304.8	76.2	365.3	101.6	487.7	130.4	625.9		
11.0 x 7.8		305	MG 63 - 305	3.9	76.3	297.4	91.5	356.5	122.0	475.8	157.4	613.9		



MB - Series Blue colour medium load

Rectangular Wire Die springs as per ISO 10243



OD	ID	TL	CODE	RATE LR	'A' 25% minimum compression		'B' 30% medium compression		'C' 37.5% maximum compression		'D' Solid compression	
					mm	kg	mm	kg	mm	kg	mm	kg
10	5	25	MB 10 - 025	1.6	6.3	10.2	7.5	12.2	9.4	15.3	10.2	16.6
		32	MB 10 - 032	1.3	8	10.6	9.6	12.8	12	15.9	14.2	18.9
		38	MB 10 - 038	1.2	9.5	11.5	11	14.2	14.3	17.3	16.8	20
		44	MB 10 - 044	1.1	11	11.6	13	13.9	16.5	17.3	19.4	20
		51	MB 10 - 051	0.9	13	11.5	15	13.9	19.1	17.3	23.4	21.2
		64	MB 10 - 064	0.8	16	12.2	19	14.7	24	18.4	28.2	21.6
		76	MB 10 - 076	0.5	19	10.3	23	12.3	28.5	15.4	34.2	18.5
1.9 X 1.3		305	MB 10 - 305	0.2	76	12.2	92	14.9	114	18.7	134	21.8
13	6.3	25	MB 13 - 025	3.1	6.3	19.1	7.5	23	9.4	28.8	11.9	36.4
		32	MB 13 - 032	2.5	8	20.2	9.6	24.3	12	30.4	16.2	41
		38	MB 13 - 038	2.2	9.5	20.7	11	24.9	14.3	31.2	18.7	40.1
		44	MB 13 - 044	1.9	11	20.7	13	24.9	16.5	31.1	21.3	40.2
		51	MB 13 - 051	1.6	13	20.1	15	24.2	19.1	30.2	25.6	40.5
		64	MB 13 - 064	1.2	16	19.7	19	23.7	24	29.6	32.4	40
		76	MB 13 - 076	1	19	19.8	23	23.8	28.5	29.7	39	40.6
		89	MB 13 - 089	0.9	22	18.9	27	22.8	33.4	28.7	45.9	39.4
		102	MB 13 - 102	0.6	26	16.3	31	19.7	38.3	24.6	52.3	33.6
2.5 X 1.5		305	MB 13 - 305	0.2	76	16	92	19.6	114	24.5	153	32.6
16	8	25	MB 16 - 025	5	6.3	31.4	7.5	37.8	9.4	47.3	10.5	52.9
		32	MB 16 - 032	3.8	8	30.2	9.6	36.3	1	45.4	13.2	50
		38	MB 16 - 038	3.5	9.5	32.8	11	39.4	14.3	49.5	17.2	59.5
		44	MB 16 - 044	3.1	11	33.7	13	40.4	16.5	50.5	19.4	59.4
		51	MB 16 - 051	2.7	13	34.3	15	41.2	19.1	51.4	24.2	65.2
		64	MB 16 - 064	2.1	16	33.4	19	40.2	24	50.2	29.2	61.9
		76	MB 16 - 076	1.8	19	34.4	23	41.4	28.5	51.7	36.3	65.9
		89	MB 16 - 089	1.6	22	34.5	27	41.4	33.4	51.8	41.7	64.7
		102	MB 16 - 102	1.4	26	34.9	31	42.1	38.3	52.7	48.9	67.3
		115	MB 16 - 115	1.2	29	34.5	35	41.5	43.1	51.9	53.1	64
3.2 X 2.0		305	MB 16 - 305	0.5	76	36.6	92	44.8	114	56	142	69.2
20	10	25	MB 20 - 025	10	6.3	62.4	7.5	75	9.4	93.9	10.5	105
		32	MB 20 - 032	7.4	8	59.2	9.6	71.1	12	88.8	13.9	103
		38	MB 20 - 038	5.7	9.5	54.2	11	65.1	14.3	81.7	16.6	94.9
		44	MB 20 - 044	4.8	11	53.2	13	64	16.5	80	18.8	91.8
		51	MB 20 - 051	4.3	13	54.2	15	65.1	19.1	81.2	23.1	98.2
		64	MB 20 - 064	3.3	16	52.6	19	63.2	24	79.1	27.5	90.6
		76	MB 20 - 076	2.6	19	48.6	23	58.3	28.5	72.9	33.8	86.5
		89	MB 20 - 089	2.2	22	49.8	27	59.9	33.4	75	39.7	89
		102	MB 20 - 102	2	26	51.3	31	61.8	38.3	77.3	47.3	95.6
		115	MB 20 - 115	1.8	29	52.9	35	63.6	42.1	79.6	52.5	96.1
		127	MB 20 - 127	1.7	32	53.7	38	64.5	47.6	88.6	56.9	96.4
		139	MB 20 - 139	1.5	35	53.5	42	64.7	52.5	80.9	62.1	95.7
		152	MB 20 - 152	1.3	38	50.9	46	61.2	57	76.1	67.6	90.7
		4.1 X 2.4		305	MB 20 - 305	0.6	76	47.3	92	56.9	114	71.2



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MB - Series Blue colour medium load

Rectangular Wire Die springs as per ISO 10243

OD	ID	TL	CODE	RATE LR	'A' 25% minimum compression		'B' 30% medium compression		'C' 37.5% maximum compression		'D' Solid compression	
					mm	kg/mm	mm	kg	mm	kg	mm	kg
25	12.5	5.4 x 3.3	25 MB 25 - 025	15	6.3	93.7	7.5	103	9.4	141	10	153
			32 MB 25 - 032	12	8	96.2	9.6	116	12	144	13.7	165
			38 MB 25 - 038	9.5	9.5	90.1	11	108	14.3	136	15.7	149
			44 MB 25 - 044	8.2	11	90.6	13	109	16.5	136	18.2	150
			51 MB 25 - 051	7	13	89.1	15	107	19.1	134	21.7	152
			64 MB 25 - 064	5.4	16	86.4	19	104	24	130	26	141
			76 MB 25 - 076	4.4	19	83.6	23	101	28.5	126	32.3	142
			89 MB 25 - 089	3.9	22	86.6	27	104	33.4	130	38	148
			102 MB 25 - 102	3.4	26	85.7	31	103	38.3	129	43	145
			115 MB 25 - 115	2.9	29	81.9	35	98.5	43.1	123	48.6	139
			127 MB 25 - 127	2.6	32	83.8	38	101	47.6	126	53.7	142
			139 MB 25 - 139	2.4	35	82	42	99.3	52.5	124	59.4	141
			152 MB 25 - 152	2.1	38	80.6	46	96.7	57	121	63.8	135
			178 MB 25 - 178	1.8	45	80.5	53	97	66.8	121	76.6	139
			203 MB 25 - 203	1.6	51	81.7	61	98.1	76.1	123	88.4	143
305 MB 25 - 305	1	76	79.3	92	95.2	114	119	135	141			

32	16	6.8 x 4.0	38 MB 32 - 038	18.9	9.5	179	11	215	14.3	270	16.3	308
			44 MB 32 - 044	16.1	11	177	13	213	16.5	266	18.9	305
			51 MB 32 - 051	13.7	13	174	15	209	19.1	261	23.1	316
			64 MB 32 - 064	10.1	16	161	19	193	24	242	28.5	287
			76 MB 32 - 076	8.2	19	156	23	187	28.5	234	34.2	281
			89 MB 32 - 089	7.1	22	157	27	188	33.4	235	40.4	285
			102 MB 32 - 102	6	26	153	31	184	38.3	230	48	288
			115 MB 32 - 115	5.3	29	151	35	181	43.1	226	54.3	285
			127 MB 32 - 127	4.6	32	145	38	174	47.6	218	59.2	271
			139 MB 32 - 139	4.3	35	150	42	181	52.5	227	65.3	282
			152 MB 32 - 152	3.9	38	146	46	176	57	220	73	281
			178 MB 32 - 178	3.3	45	147	53	177	66.8	221	84.5	280
			203 MB 32 - 203	2.9	51	149	61	180	76.1	224	96.9	286
			254 MB 32 - 254	2.2	64	138	76	166	95.3	208	121	264
			305 MB 32 - 305	1.9	76	142	92	171	114	214	147	287

40	20	8.2 x 4.7	51 MB 40 - 051	18.5	13	236	15	283	19.1	354	21.4	396
			64 MB 40 - 064	14.3	16	229	19	274	24	343	26.8	383
			76 MB 40 - 076	11	19	209	23	251	28.5	314	32.7	360
			89 MB 40 - 089	9.3	22	206	27	247	33.4	309	39	361
			102 MB 40 - 102	8.3	26	211	31	253	38.3	316	44.1	364
			115 MB 40 - 115	7.3	29	211	35	253	43.1	316	50.6	371
			127 MB 40 - 127	6.4	32	203	38	244	47.6	305	55.9	358
			139 MB 40 - 139	5.9	35	204	42	246	52.5	308	61.8	363
			152 MB 40 - 152	5.3	38	200	46	240	57	300	67.5	355
			178 MB 40 - 178	4.5	45	200	53	240	66.8	301	77.2	347
			203 MB 40 - 203	3.7	51	190	61	228	76.1	285	91.8	344
254 MB 40 - 254	3.1	64	195	76	234	95.3	293	113	346			
305 MB 40 - 305	2.5	76	191	92	230	114	287	138	347			

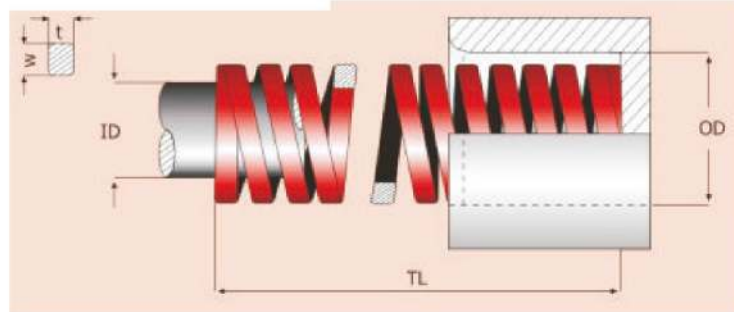
50	25	11.1 x 5.8	64 MB 40 - 064	21.3	16	341	19	409	24	511	28.2	601
			76 MB 40 - 076	17.1	19	325	23	391	28.5	487	34.9	597
			89 MB 40 - 089	14.3	22	319	27	381	33.4	478	39.2	561
			102 MB 40 - 102	12.1	26	309	31	371	38.3	463	47.3	572
			115 MB 40 - 115	10.8	29	311	35	373	43.1	465	52.6	568
			127 MB 40 - 127	9.9	32	315	38	377	47.6	471	59.8	592
			139 MB 40 - 139	8.9	35	312	42	373	52.5	467	65.1	579
			152 MB 40 - 152	8.2	38	312	46	372	57	467	70.8	581
			178 MB 40 - 178	7.1	45	316	53	379	66.8	474	84.2	598
			203 MB 40 - 203	6.1	51	310	61	357	76.1	464	96.5	589
			254 MB 40 - 254	4.5	64	286	76	341	95.3	429	122	548
			305 MB 40 - 305	3.9	76	298	92	360	114	446	147	573

63	38	11.5 x 9.1	76 MB 63 - 076	31.8	19	60.4	23	726	28.5	906	30.7	976
			89 MB 63 - 089	26.5	22	591	27	708	33.4	885	36.5	967
			102 MB 63 - 102	22.5	26	574	31	690	38.3	862	43.6	981
			115 MB 63 - 115	19.1	29	550	35	658	43.1	823	48.9	934
			127 MB 63 - 127	17.1	32	544	38	653	47.6	814	54.2	927
			152 MB 63 - 152	13.9	38	528	46	633	57	792	65.7	887
			178 MB 63 - 178	11.6	45	516	53	621	66.8	775	76.5	898
			203 MB 63 - 203	10.2	51	518	61	621	76.1	776	88	945
			229 MB 63 - 229	9.1	57	521	69	625	85.9	782	104	899
			254 MB 63 - 254	8	64	508	76	609	95.3	762	112	899
			305 MB 63 - 305	6.6	76	504	92	610	114	755	134	883



MR - Series Red colour Heavy Load springs

Rectangular Wire Die springs as Per ISO 10243



OD	ID	TL	CODE	RATE LR	'A' 20% minimum compression		'B' 25% medium compression		'C' 30% maximum compression		'D' Solid compression	
					mm	kg	mm	kg	mm	kg	mm	kg
w x t		mm		kg/mm	mm	kg	mm	kg	mm	kg	mm	kg
mm		mm		kg/mm	mm	kg	mm	kg	mm	kg	mm	kg
10	5	25	MR 10 - 025	2.3	5	11.3	6.3	14.2	7.5	16.9	9.2	20.7
		32	MR 10 - 032	1.8	6.4	11.4	8	14.3	9.6	17.1	12.1	21.6
		38	MR 10 - 038	1.7	7.6	13.2	9.5	16.5	11.4	19.9	13.2	23.1
		44	MR 10 - 044	1.5	8.8	13.5	11	16.8	13.2	20.2	15.1	23.2
		51	MR 10 - 051	1.3	10	13.3	13	16.7	15.3	20	19.5	25.5
		64	MR 10 - 064	1.1	13	14	16	17.4	19.2	20.9	21.8	23.8
		76	MR 10 - 076	0.8	15	11.6	19	14.6	22.8	17.4	27.9	21.3
1.9 X 1.5		305	MR 10 - 305	0.2	61	12.8	76	16.3	91.5	19.6	127	27.2
13	6.3	25	MR 13 - 025	4.3	5	21.5	6.3	27	7.5	32.2	9.8	42.1
		32	MR 13 - 032	3.4	6.4	21.6	8	27.1	9.6	32.5	13.6	46.1
		38	MR 13 - 038	3	7.6	22.6	9.5	28.4	11.4	34.1	14.6	43.7
		44	MR 13 - 044	2.5	8.8	22	11	27.6	13.2	33.2	18.1	45.4
		51	MR 13 - 051	2	10	20.3	13	25.6	15.3	30.1	22.3	45.4
		64	MR 13 - 064	1.5	13	19.6	16	24.5	19.2	29.4	27.3	44.6
		76	MR 13 - 076	1.3	15	20.4	19	25.6	22.8	30.7	33.1	41.8
		89	MR 13 - 089	1.2	18	20.6	22	25.9	26.7	31	38.9	44.6
		102	MR 13 - 102	0.9	20	17.3	26	21.8	30.6	26.2	43.8	45.2
		2.4 X 1.9		305	MR 13 - 305	0.3	61	17.1	76	21.8	91.5	26.1
16	8	25	MR 16 - 025	7.7	5	38.6	6.3	48.7	7.5	57.9	8.4	64.9
		32	MR 16 - 032	5.4	6.4	34.4	8	43	9.6	51.7	10.5	56.6
		38	MR 16 - 038	4.9	7.6	37.5	9.5	47	11.4	56.4	13.6	67.3
		44	MR 16 - 044	4.4	8.8	38.4	11	48	13.2	57.6	15.9	69.5
		51	MR 16 - 051	3.8	10	38.6	13	48.5	15.3	57.9	18.9	71.5
		64	MR 16 - 064	3.1	13	39.6	16	49.5	19.2	59.4	24.9	76.9
		76	MR 16 - 076	2.6	15	39.8	19	49.8	22.8	59.8	29.2	76.5
		89	MR 16 - 089	2.2	18	39.3	22	49.4	26.7	59.1	34.5	76.4
		102	MR 16 - 102	2	20	40	26	50.2	30.6	60.3	39.1	77
		115	MR 16 - 115	1.6	23	36.8	29	46.1	34.5	55.3	44	70.5
		3.1 X 2.5		305	MR 16 - 305	0.7	61	43.9	6.3	55.3	91.5	66.3
20	10	25	MR 20 - 025	22	5	110.2	6.3	138.8	7.5	165.2	8.3	183
		32	MR 20 - 032	17.1	6.4	109.6	8	137.1	9.6	164.5	10.9	187
		38	MR 20 - 038	13.2	7.6	100.5	9.5	125.1	11.4	150	12.5	165
		44	MR 20 - 044	11.4	8.8	100.5	11	125.7	13.2	150.8	15	171
		51	MR 20 - 051	9.6	10	97.7	13	122.7	15.3	146.7	17.6	169
		64	MR 20 - 064	7.4	13	94.1	16	117.7	19.2	141.2	22.6	166
		76	MR 20 - 076	6.1	15	92.4	19	115.7	22.8	138.8	27.5	168
		89	MR 20 - 089	5.2	18	91.7	22	114.9	26.7	137.5	31.7	163
		102	MR 20 - 102	4.5	20	91.8	26	115	30.6	138	37.5	169
		115	MR 20 - 115	3.9	23	89.9	29	112.8	34.5	135.2	42.6	167
		127	MR 20 - 127	3.5	25	88.1	32	110.6	38.1	132.5	45.5	158
		139	MR 20 - 139	3.2	28	87.8	35	110.7	42	132.8	50.1	158
		152	MR 20 - 152	2.9	30	87.2	38	109.3	45.6	131.2	55.8	160
		4.1 X 2.4		305	MR 20 - 305	1.5	61	92.7	76	116.8	91.5	140



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MR - Series Red colour heavy load springs

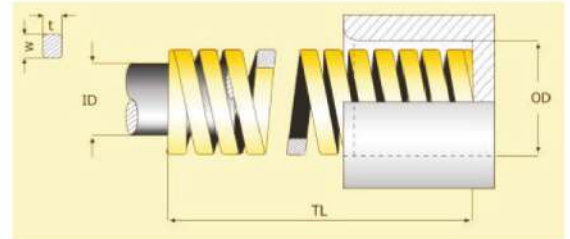
Rectangular Wire Die springs as per ISO 10243

OD	ID	TL	CODE	RATE LR	'A' 20%		'B' 25%		'C' 30%		'D'			
					minimum	compression	medium	compression	maximum	compression	Solid	compression		
w x t					mm	kg	mm	kg	mm	kg	mm	kg		
mm	mm	mm		kg/mm										
25	12.5	25	MR 25 - 025	38.3	5	191.3	6.3	241	7.5	286.9	8.5	325.2		
		32	MR 25 - 032	30.3	6.4	193.9	8	242.4	9.6	290.8	11	333.2		
		38	MR 25 - 038	22.3	7.6	169.7	9.5	212.3	11.4	254.7	12.6	281.4		
		44	MR 25 - 044	19.1	8.8	167.8	11	209.8	13.2	251.7	14.8	282.8		
		51	MR 25 - 051	15.9	10	162.3	13	203.7	15.3	243.5	17.9	284.8		
		64	MR 25 - 064	12.5	13	160.5	16	200.7	19.2	240.9	23.1	289.8		
		76	MR 25 - 076	10.1	15	153.4	19	191.9	22.8	230.2	26.3	265.6		
		89	MR 25 - 089	8.6	18	152.4	22	191	26.7	228.8	30.5	261.3		
		102	MR 25 - 102	7.4	20	151.8	26	189.9	30.6	227.9	37.3	277.7		
		115	MR 25 - 115	6.6	23	152.5	29	190.9	34.5	228.8	41.9	227.8		
		127	MR 25 - 127	5.9	25	149.4	32	187.2	38.1	224.2	46.2	271.9		
		139	MR 25 - 139	5.4	28	149.3	35	188.2	42	225.7	49.3	265		
		152	MR 25 - 152	4.9	30	148	38	185.2	45.6	222.4	55.7	271.5		
		178	MR 25 - 178	4.2	36	148.8	45	186.2	53.4	223.3	65.1	272.2		
203	MR 25 - 203	3.7	41	148.2	51	185.5	60.9	222.4	74.5	272				
5.5 x 4.2	305	MR 25 - 305	2.3	61	142.1	76	178.2	91.5	213.7	110	257.4			
32	16	38	MR 32 - 038	39.6	7.6	300.7	9.5	376	11.4	451.1	12.5	494.7		
		44	MR 32 - 044	33	8.8	290.8	11	363.5	13.2	436.3	14.9	492.5		
		51	MR 32 - 051	27.7	10	282.9	13	355.2	15.3	424.5	17.8	493.9		
		64	MR 32 - 064	21.6	13	276.7	16	346	19.2	415.1	22.4	484.4		
		76	MR 32 - 076	17.5	15	266.6	19	333.3	22.8	400	26.1	457.9		
		89	MR 32 - 089	14.4	18	256	22	320.7	26.7	384	30.8	443		
		102	MR 32 - 102	12.4	20	253.8	26	317.3	30.6	380.8	36.8	458		
		115	MR 32 - 115	10.9	23	250.9	29	314.4	34.5	376.6	41.4	451.9		
		127	MR 32 - 127	9.5	25	240.8	32	301.6	38.1	361.4	44.4	421.2		
		139	MR 32 - 139	8.8	28	243.8	35	307	42	368.4	48.5	425.4		
		152	MR 32 - 152	8	30	241.7	38	302.3	45.6	362.8	54.8	435.9		
		178	MR 32 - 178	6.9	36	243.9	45	305	53.4	366	63.6	435.9		
		203	MR 32 - 203	6	41	244.4	51	306.2	60.9	367.1	72.5	437.1		
		254	MR 32 - 254	4.7	51	240.3	64	300.5	76.2	360.7	82.8	439.2		
7.1 x 5.4	305	MR 32 - 305	3.9	61	236.1	76	295.7	91.5	354.7	112	433.3			
40	20	51	MR 40 - 051	35.7	10	364.1	13	457	15.3	246.2	17	606.9		
		64	MR 40 - 064	27.4	13	351.1	16	438.9	19.2	526.8	21.9	600.9		
		76	MR 40 - 076	22.3	15	339.4	19	424.4	22.8	509.3	26.7	596.4		
		89	MR 40 - 089	19.4	18	345	22	432.2	26.7	517.4	31.3	606.6		
		102	MR 40 - 102	16.6	20	339	26	424	30.6	508.8	37.1	616.8		
		115	MR 40 - 115	14.5	23	333	29	417.2	34.5	499.7	41	593.8		
		127	MR 40 - 127	13.1	25	331.5	32	415.1	38.1	497.5	46.5	607.1		
		139	MR 40 - 139	11.7	28	326.1	35	410.6	42	492.5	53.1	622.9		
		152	MR 40 - 152	10.7	30	325.6	38	407	45.6	488.4	56.1	600.9		
		178	MR 40 - 178	9.1	36	322.9	45	404	53.4	484.8	67.4	611.9		
		203	MR 40 - 203	7.9	41	318.7	51	399	60.9	478.3	76.2	598.4		
		254	MR 40 - 254	6.2	51	316	64	395.1	76.2	474	96.2	598.5		
		8.4 x 6.2	305	MR 40 - 305	5.2	61	317.2	76	496.9	91.5	476	115	597.2	
		50	25	64	MR 50 - 064	42.1	13	539	16	674	19.2	808	22.4	943
76	MR 50 - 076			34.6	15	526	19	657	22.8	789	26.5	917		
89	MR 50 - 089			29.4	18	523	22	655	26.7	785	31.5	926		
102	MR 50 - 102			25	20	510	26	637.3	30.6	765	37.6	940		
115	MR 50 - 115			21.9	23	504	29	631.6	34.5	756	42.7	935		
127	MR 50 - 127			19.6	25	498	32	622.8	38.1	747	47.5	931		
139	MR 50 - 139			17.1	28	475	35	599.8	42	718	51.8	886		
152	MR 50 - 152			15.7	30	477	38	596.9	45.6	716	27.8	907		
178	MR 50 - 178			13.7	36	488	45	608.2	53.4	732	68.5	938		
203	MR 50 - 203			11.9	41	483	51	606.3	60.9	725	77.6	923		
254	MR 50 - 254			9.1	51	462	64	576.5	76.2	693	97.9	891		
11.1 x 7.6	305			MR 50 - 305	7.4	61	451	76	568.1	91.5	677	121	893	
63	38			76	MR 63 - 076	63	15	958	19	1197.1	22.8	1436	24.7	1556
				89	MR 63 - 089	52.5	18	935	22	1171.5	26.7	1402	30	1575
		102	MR 63 - 102	44.7	20	912	26	1139.2	30.6	1368	35.1	1569		
		115	MR 63 - 115	37.7	23	867	29	1086.9	34.5	1301	37.5	1414		
		127	MR 63 - 127	34	25	864	32	1080.1	38.1	1295	45.9	1561		
		152	MR 63 - 152	27.4	30	833	38	1042.6	45.6	1249	56.5	1548		
		178	MR 63 - 178	23.1	36	822	45	1025.8	53.4	1234	66.8	1543		
		203	MR 63 - 203	20.2	41	820	51	1025.9	60.9	1230	78.8	1592		
		254	MR 63 - 254	15.8	51	803	64	1004	76.2	1204	102	1607		
		11.6 x 12.3	305	MR 63 - 305	13.1	61	799	76	996.1	91.5	1199	122	1603	



MY - Series Yellow colour Extra Heavy Load springs

Rectangular Wire Die springs as Per ISO 10243



OD	ID	TL	CODE	RATE LR	'A' 17% minimum compression		'B' 20% medium compression		'C' 25% maximum compression		'D' Solid compression	
					mm	kg	mm	kg	mm	kg	mm	kg
w x t												
mm	mm	mm		kg/mm	mm	kg	mm	kg	mm	kg	mm	kg
10	5	25	MY 10 - 025	3.8	4.3	16.1	5	18.8	6.3	23.7	7.7	28.9
		32	MY 10 - 032	2.8	5.4	15.3	6.4	18.3	8	22.7	10.6	30.2
		38	MY 10 - 038	2.4	6.5	15.7	7.6	18.4	9.5	23	12.6	30.5
		44	MY 10 - 044	2	7.5	14.6	8.8	17.2	11	23	13.8	27
		51	MY 10 - 051	1.7	8.7	14.6	10	17.1	12.8	21.5	16.2	27.2
		64	MY 10 - 064	1.3	11	14.6	13	17.2	16	21.5	20.4	27.4
		76	MY 10 - 076	1.1	13	14.3	15	16.9	19	21.1	25.2	28.1
1.9 X 1.6		305	MY 10 - 305	0.3	52	13.5	61	16.2	76.3	20.2	111	29.4
13	6.3	25	MY 13 - 025	6	4.3	25.6	5	29.9	6.3	37.6	8.1	48.3
		32	MY 13 - 032	4.5	5.4	24.1	6.4	28.7	8	35.8	9.9	44.4
		38	MY 13 - 038	3.8	6.5	24.4	7.6	27.9	9.5	34.9	12.9	47.3
		44	MY 13 - 044	3	7.5	22.5	8.8	27.2	11	34	14.1	43.6
		51	MY 13 - 051	2.7	8.7	23.2	10	27.2	12.8	34.2	17.4	46.5
		64	MY 13 - 064	2.2	11	23.5	13	27.6	16	34.6	21	45.4
		76	MY 13 - 076	1.7	13	22.4	15	26.5	19	33.2	26.4	46
		89	MY 13 - 089	1.5	15	22.2	18	26.3	22.3	32.9	31.5	46.6
		102	MY 13 - 102	1.3	17	22.3	20	26.4	25.5	33	36	46.6
2.6 X 2.0		305	MY 13 - 305	0.4	52	22.3	61	26.7	76.3	33.5	111	48.9
16	8	25	MY 16 - 025	12	4.3	51.7	5	60.2	6.3	75.8	8.5	102
		32	MY 16 - 032	9.1	5.4	49	6.4	58.1	8	72.6	11	99.9
		38	MY 16 - 038	7.4	6.5	47.8	7.6	55.9	9.5	69.9	13.2	97.1
		44	MY 16 - 044	6.2	7.5	46.6	8.8	54.7	11	68.3	14.7	91.3
		51	MY 16 - 051	5.3	8.7	46.4	10	54.4	12.8	68.2	17.7	94.5
		64	MY 16 - 064	4.2	11	45.8	13	53.8	16	67.2	21.9	92
		76	MY 16 - 076	3.5	13	44.8	15	52.8	19	66.1	27.8	96.7
		89	MY 16 - 089	3	15	45.3	18	53.6	22.3	67.1	31.2	93.8
		102	MY 16 - 102	2.6	17	45.2	20	53.2	25.5	66.6	37.9	98.9
		115	MY 16 - 115	2.3	20	44.7	23	52.5	28.8	65.8	44.5	102
3.2 X 2.9		305	MY 16 - 305	0.9	52	44.1	61	52.2	6.3	65.4	114	97.2
20	10	25	MY 20 - 025	29.9	4.3	128.5	5	149.9	6.3	188.3	6.9	206
		32	MY 20 - 032	22.8	5.4	123.3	6.4	146.3	8	182.8	9.4	215
		38	MY 20 - 038	18.1	6.5	117.3	7.6	137.2	9.5	171.6	12	217
		44	MY 20 - 044	15.2	7.5	113.9	8.8	133.7	11	167.2	13.5	205
		51	MY 20 - 051	13.1	8.7	113.5	10	133.2	12.8	167.1	16.2	212
		64	MY 20 - 064	10.1	11	110	13	129.2	16	161.6	21.2	214
		76	MY 20 - 076	8.3	13	107.5	15	126.7	19	158.3	24.7	206
		89	MY 20 - 089	7.1	15	106.9	18	126.2	22.3	158.1	28.2	204
		102	MY 20 - 102	6.2	17	106.9	20	126.1	25.5	157.6	34.8	215
		115	MY 20 - 115	5.4	20	105.8	23	124.3	28.8	155.7	39	211
		127	MY 20 - 127	4.8	22	104.5	25	123.1	31.8	154.1	43	208
		139	MY 20 - 139	4.4	24	104.2	28	122.8	35	153.5	45.3	199
		152	MY 20 - 152	4	26	102.4	30	121	38	151.2	50.4	201
4.1 X 3.8		305	MY 20 - 305	2.2	52	112.1	61	131.9	76.3	165	104	224



MY - Series Yellow colour extra heavy load springs

Rectangular Wire Die springs as per ISO 10243

OD	ID	TL	CODE	RATE LR	'A' 20%		'B' 25%		'C' 30%		'D'				
					minimum	compression	medium	compression	maximum	compression	Solid	compression			
w x t		mm	mm	kg/mm	mm	kg	mm	kg	mm	kg	mm	kg			
25	12.5					25 MY 25 - 025	38.3	5	191.3	6.3	241	7.5	286.9	8.5	325.2
		32 MY 25 - 032	30.3	6.4		193.9	8	242.4	9.6	290.8	11	333.2			
		38 MY 25 - 038	22.3	7.6		169.7	9.5	212.3	11.4	254.7	12.6	281.4			
		44 MY 25 - 044	19.1	8.8		167.8	11	209.8	13.2	251.7	14.8	282.8			
		51 MY 25 - 051	15.9	10		162.3	13	203.7	15.3	243.5	17.9	284.8			
		64 MY 25 - 064	12.5	13		160.5	16	200.7	19.2	240.9	23.1	289.8			
		76 MY 25 - 076	10.1	15		153.4	19	191.9	22.8	230.2	26.3	265.6			
		89 MY 25 - 089	8.6	18		152.4	22	191	26.7	228.8	30.5	261.3			
		102 MY 25 - 102	7.4	20		151.8	26	189.9	30.6	227.9	37.3	277.7			
		115 MY 25 - 115	6.6	23		152.5	29	190.9	34.5	228.8	41.9	227.8			
		127 MY 25 - 127	5.9	25		149.4	32	187.2	38.1	224.2	46.2	271.9			
		139 MY 25 - 139	5.4	28		149.3	35	188.2	42	225.7	49.3	265			
		152 MY 25 - 152	4.9	30		148	38	185.2	45.6	222.4	55.7	271.5			
		178 MY 25 - 178	4.2	36		148.8	45	186.2	53.4	223.3	65.1	272.2			
		203 MY 25 - 203	3.7	41		148.2	51	185.5	60.9	222.4	74.5	272			
5.5 x 4.2	305 MY 25 - 305	2.3	61	142.1	76	178.2	91.5	213.7	110	257.4					
32	16		38 MY 32 - 038	39.6	7.6	300.7	9.5	376	11.4	451.1	12.5	494.7			
			44 MY 32 - 044	33	8.8	290.8	11	363.5	13.2	436.3	14.9	492.5			
			51 MY 32 - 051	27.7	10	282.9	13	355.2	15.3	424.5	17.8	493.9			
			64 MY 32 - 064	21.6	13	276.7	16	346	19.2	415.1	22.4	484.4			
			76 MY 32 - 076	17.5	15	266.6	19	333.3	22.8	400	26.1	457.9			
			89 MY 32 - 089	14.4	18	256	22	320.7	26.7	384	30.8	443			
			102 MY 32 - 102	12.4	20	253.8	26	317.3	30.6	380.8	36.8	458			
			115 MY 32 - 115	10.9	23	250.9	29	314.4	34.5	376.6	41.4	451.9			
			127 MY 32 - 127	9.5	25	240.8	32	301.6	38.1	361.4	44.4	421.2			
			139 MY 32 - 139	8.8	28	243.8	35	307	42	368.4	48.5	425.4			
			152 MY 32 - 152	8	30	241.7	38	302.3	45.6	362.8	54.8	435.9			
			178 MY 32 - 178	6.9	36	243.9	45	305	53.4	366	63.6	435.9			
			203 MY 32 - 203	6	41	244.4	51	306.2	60.9	367.1	72.5	437.1			
			254 MY 32 - 254	4.7	51	240.3	64	300.5	76.2	360.7	82.8	439.2			
			7.1 x 5.4	305 MY 32 - 305	3.9	61	236.1	76	295.7	91.5	354.7	112	433.3		
40	20		51 MY 40 - 051	35.7	10	364.1	13	457	15.3	246.2	17	606.9			
			64 MY 40 - 064	27.4	13	351.1	16	438.9	19.2	526.8	21.9	600.9			
			76 MY 40 - 076	22.3	15	339.4	19	424.4	22.8	509.3	26.7	596.4			
			89 MY 40 - 089	19.4	18	345	22	432.2	26.7	517.4	31.3	606.6			
			102 MY 40 - 102	16.6	20	339	26	424	30.6	508.8	37.1	616.8			
			115 MY 40 - 115	14.5	23	333	29	417.2	34.5	499.7	41	593.8			
			127 MY 40 - 127	13.1	25	331.5	32	415.1	38.1	497.5	46.5	607.1			
			139 MY 40 - 139	11.7	28	326.1	35	410.6	42	492.5	53.1	622.9			
			152 MY 40 - 152	10.7	30	325.6	38	407	45.6	488.4	56.1	600.9			
			178 MY 40 - 178	9.1	36	322.9	45	404	53.4	484.8	67.4	611.9			
			203 MY 40 - 203	7.9	41	318.7	51	399	60.9	478.3	76.2	598.4			
			254 MY 40 - 254	6.2	51	316	64	395.1	76.2	474	96.2	598.5			
			8.4 x 6.2	305 MY 40 - 305	5.2	61	317.2	76	496.9	91.5	476	115	597.2		
			50	25		64 MY 50 - 064	42.1	13	539	16	674	19.2	808	22.4	943
						76 MY 50 - 076	34.6	15	526	19	657	22.8	789	26.5	917
89 MY 50 - 089	29.4	18				523	22	655	26.7	785	31.5	926			
102 MY 50 - 102	25	20				510	26	637.3	30.6	765	37.6	940			
115 MY 50 - 115	21.9	23				504	29	631.6	34.5	756	42.7	935			
127 MY 50 - 127	19.6	25				498	32	622.8	38.1	747	47.5	931			
139 MY 50 - 139	17.1	28				475	35	599.8	42	718	51.8	886			
152 MY 50 - 152	15.7	30				477	38	596.9	45.6	716	27.8	907			
178 MY 50 - 178	13.7	36				488	45	608.2	53.4	732	68.5	938			
203 MY 50 - 203	11.9	41				483	51	606.3	60.9	725	77.6	923			
254 MY 50 - 254	9.1	51				462	64	576.5	76.2	693	97.9	891			
11.1 x 7.6	305 MY 50 - 305	7.4				61	451	76	568.1	91.5	677	121	893		
63	38					76 MY 63 - 076	63	15	958	19	1197.1	22.8	1436	24.7	1556
						89 MY 63 - 089	52.5	18	935	22	1171.5	26.7	1402	30	1575
						102 MY 63 - 102	44.7	20	912	26	1139.2	30.6	1368	35.1	1569
			115 MY 63 - 115	37.7	23	867	29	1086.9	34.5	1301	37.5	1414			
			127 MY 63 - 127	34	25	864	32	1080.1	38.1	1295	45.9	1561			
			152 MY 63 - 152	27.4	30	833	38	1042.6	45.6	1249	56.5	1548			
			178 MY 63 - 178	23.1	36	822	45	1025.8	53.4	1234	66.8	1543			
			203 MY 63 - 203	20.2	41	820	51	1025.9	60.9	1230	78.8	1592			
			254 MY 63 - 254	15.8	51	803	64	1004	76.2	1204	102	1607			
			11.6 x 12.3	305 MY 63 - 305	13.1	61	799	76	996.1	91.5	1199	122	1603		



JIS STANDARD SPRINGS

Raw material : Case Hardened Steel - 1.7243
Hardness: 56 ± 2 HRC



GENERAL IDEA ABOUT THE SIZES

	TYPE	CODE	COLOR	OUTER DIA.		FREE LENGTH	
				MIN	MAX	MIN	MAX
COIL SPRINGS		MJF	Yellow	∅6 (∅3)	∅70	10	500
		MJL	BLUE	∅6 (∅3)	∅70	10	500
		MJM	RED	∅6 (∅3)	∅70	10	350
		MJH	GREEN	∅6 (∅3)	∅70	10	350
		MJB	BROWN	∅6 (∅3)	∅70	10	350
		MJG	GRAY	∅10 (∅5)	∅50	15	300
		MJU	LIGHT BLUE	∅10.5	∅43	15	300
		MJR	WHITE	∅10.5	∅46	15	300
		MJY	PURPLE	∅10.5	∅46	15	300



JIS STANDARD SPRINGS

RELATIONSHIP BETWEEN NUMBER OF SPRING STROKES AND DEFLECTION RATE

DEFLECTION/ SPRING STROKES	1 MILLION % OF FREE LENGTH	0.5 MILLION % OF FREE LENGTH	0.3 MILLION % OF FREE LENGTH	MAX DEFLECTION % OF FREE LENGTH	COLOR
Lightest load	40.0%	45.0%	50.0%	APPROX.58%	YELLOW
light load	32.0%	36.0%	40.0%	APPROX.48%	BLUE
medium load	25.6%	28.8%	32.0%	APPROX.38%	RED
heavy load	19.2%	21.6%	24.0%	APPROX.28%	GREEN
ultra heavy load	16.0%	18.0%	20.0%	APPROX.24.0%	BROWN
hyper heavy load	16.0%	18.0%	20.0%	APPROX.24.0%	GRAY
super high deflection	16.0%	55%	60.0%	APPROX.70%	LIGHT BLUE
high deflection	40.0%	45.0%	50.0%	APPROX.60%	WHITE
Middle deflection	40.0%	45.0%	50.0%	APPROX.60%	PURPLE



OUTER DIAMETER	INNER DIAMETER	FREE LENGTH		LOAD KGF
		50MM BELOW 50MM	50MM OVER 50MM	
+ 0MM -0.7MM	+ 0.7MM -0.1MM	± 0.5MM	± 1%	± 10%



JIS STANDARD SPRINGS

General guidelines for using springs effectively

Importance of using spring with guide

If a spring is used without a guide, it can cause the spring to bend or curve. Consequently, it can be broken as a result of continuous stress applied to the curved inside. Therefore, a spring guide should be definitely used like a shaft or an internal diameter guide. It is most desirable to use the spring with a guide fully inserted through the internal diameter of the spring.

Effective distance between spring and guide (shaft):

If the distance between spring and shaft is too small, then the internal diameter of the spring can be worn out of the shaft. It can break from that part of abrasion. If the distance is too long, then the spring can be bent. Accordingly, it is good to set the shaft diameter about 1.0mm less than the internal diameter of the spring.

Effective distance between spring and counter bore hole:

If the distance between the outer diameter of the spring and counter bore hole is too small, then the high stress on it might break the spring. Therefore, it is advisable to set the diameter of the counter bore hole so that it may be of 0.15mm greater than the external diameter of the spring.

In case the guide length and the depth of the counter bore hole are short:

If the guide length is short, the spring touches the end of the guide during each deflection. In this way, the continuous abrasion finally causes a guide break. It is advisable to set the guide height over the 1/2 of the initial spring height.

In case it is used more than the utmost strained situation:

If the spring is used continuously at maximum deflection, then it may break because of higher stress after 3,00,000 strokes.

In case it is used without initial variation:

If there is a gap, then the spring moves up and down with the shock and this causes the spring to bend or it gets curved. If the initial radiation is reduced, the upper lower plate of spring gets stable.

In case it is used in the place with bad parallelism:

If the parallelism of the plate is bad, then the high stress takes place that causes the spring to be bent. It is the same as in case of bad parallelism of the mould and if it is used more than 3,00,000 times. Check the parallelism of the spring plate.

In case the spring is used in the horizontal position:

In case, the internal diameter of the spring is worn out by the shaft and it may break from the part of abrasion





MMB INDUSTRIAL & SAFETY PRODUCTS

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**JIS
STANDARD SPRINGS
MJF - YELLOW COLOR
LIGHTEST LOAD**

Code	OD (MM)	ID (MM)	FREE LENGTH (MM)	SPRING CONTANT	30 (0.3 MILLION)		50 (0.3 MILLION)		100 (1 MILLION)						
					50% DEFLECTION (MM)	LOAD (KGF)	45% DEFLECTION (MM)	LOAD (KGF)	40% DEFLECTION (MM)	LOAD (KGF)					
MJF 6 X 15	6	3	15	0.80	7.5	6	6.8	5.4	6.0	4.8					
MJF 6 X 20			20	0.60	10.0		9.0		8.0						
MJF 6 X 25			25	0.48	12.5		11.3		10.0						
MJF 6 X 30			30	0.40	15.0		13.5		12.0						
MJF 6 X 35			35	0.34	17.5		15.8		14.0						
MJF 6 X 40			40	0.30	20.0		18.0		16.0						
MJF 6 X 45			45	0.27	22.5		20.3		18.0						
MJF 6 X 50			50	0.24	25.0		22.5		20.0						
MJF 6 X 55			55	0.22	27.5		24.8		22.0						
MJF 6 X 60			60	0.20	30.0		27.0		24.0						
MJF 6 X 65			65	0.18	32.5		29.3		26.0						
MJF 6 X 70			70	0.17	35.0		31.5		28.0						
MJF 8 X 10			8	4	10		1.56		5.0		8	4.5	7	4.0	6
MJF 8 X 15					15		1.04		7.5			6.8		6.0	
MJF 8 X 20	20	0.78			10.0	9.0	8.0								
MJF 8 X 25	25	0.62			12.5	11.2	10.0								
MJF 8 X 30	30	0.52			15.0	13.5	12.0								
MJF 8 X 35	35	0.44			17.5	15.7	14.0								
MJF 8 X 40	40	0.39			20.0	18.0	16.0								
MJF 8 X 45	45	0.35			22.5	20.2	18.0								
MJF 8 X 50	50	0.31			25.0	22.5	20.0								
MJF 8 X 55	55	0.28			27.5	24.7	22.0								
MJF 8 X 60	60	0.26			30.0	27.0	24.0								
MJF 8 X 65	65	0.24			32.5	29.2	26.0								
MJF 8 X 70	70	0.22			35.0	31.5	28.0								
MJF 8 X 75	75	0.21			37.5	33.7	30.0								
MJF 8 X 80	80	0.20	40.0	36.0	32.0										
MJF 8 X 90	90	0.17	45.0	40.5	36.0										
MJF 10 X 10	10	5	10	2.00	5.0	10	4.5	9	4.0	8					
MJF 10 X 15			15	1.32	7.5		6.8		6.0						
MJF 10 X 20			20	1.00	10.0		9.0		8.0						
MJF 10 X 25			25	0.80	12.5		11.2		10.0						
MJF 10 X 30			30	0.67	15.0		13.5		12.0						
MJF 10 X 35			35	0.57	17.5		15.7		14.0						
MJF 10 X 40			40	0.50	20.0		18.0		16.0						
MJF 10 X 45			45	0.44	22.5		20.2		18.0						
MJF 10 X 50			50	0.40	25.0		22.5		20.0						
MJF 10 X 55			55	0.36	27.5		24.7		22.0						
MJF 10 X 60			60	0.33	30.0		27.0		24.0						
MJF 10 X 65			65	0.31	32.5		29.2		26.0						
MJF 10 X 70			70	0.29	35.0		31.5		28.0						
MJF 10 X 75			75	0.27	37.5		33.7		30.0						
MJF 10 X 80	80	0.25	40.0	36.0	32.0										
MJF 10 X 90	90	0.22	45.0	40.5	36.0										
MJF 10 X 100	100	0.20	50.0	45.0	40.0										



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**JIS
STANDARD SPRINGS
MJF - YELLOW COLOR
LIGHTEST LOAD**



Code	OD (MM)	ID (MM)	FREE LENGTH (MM)	SPRING CONTANT	30 (0.3 MILLION)		50 (0.3 MILLION)		100 (1 MILLION)	
					50% DEFLECTION (MM)	LOAD (KGF)	45% DEFLECTION (MM)	LOAD (KGF)	40% DEFLECTION (MM)	LOAD (KGF)
MJF 12 X 20	12	6	20	1.40	10.0	14	9.0	12.5	8.0	11
MJF 12 X 25			25	1.12	12.5		11.2			
MJF 12 X 30			30	0.93	15.0		13.5			
MJF 12 X 35			35	0.80	17.5		15.7			
MJF 12 X 40			40	0.70	20.0		18.0			
MJF 12 X 45			45	0.62	22.5		20.2			
MJF 12 X 50			50	0.56	25.0		22.5			
MJF 12 X 55			55	0.51	27.5		24.7			
MJF 12 X 60			60	0.47	30.0		27.0			
MJF 12 X 65			65	0.43	32.5		29.2			
MJF 12 X 70			70	0.40	35.0		31.5			
MJF 12 X 75			75	0.37	37.5		33.7			
MJF 12 X 80			80	0.35	40.0		36.0			
MJF 12 X 90			90	0.31	45.0		40.5			
MJF 12 X 100	100	0.28	50.0	45.0						
MJF 14 X 20	14	7	20	1.78	10.0	18	9.0	16	8.0	14.5
MJF 14 X 25			25	1.44	12.5		11.2			
MJF 14 X 30			30	1.20	15.0		13.5			
MJF 14 X 35			35	1.03	17.5		15.7			
MJF 14 X 40			40	0.90	20.0		18.0			
MJF 14 X 45			45	0.80	22.5		20.2			
MJF 14 X 50			50	0.72	25.0		22.5			
MJF 14 X 55			55	0.65	27.5		24.7			
MJF 14 X 60			60	0.60	30.0		27.0			
MJF 14 X 65			65	0.55	32.5		29.2			
MJF 14 X 70			70	0.51	35.0		31.5			
MJF 14 X 75			75	0.48	37.5		33.7			
MJF 14 X 80			80	0.45	40.0		36.0			
MJF 14 X 90			90	0.40	45.0		40.5			
MJF 14 X 100	100	0.36	50.0	45.0						
MJF 14 X 125	125	0.29	62.5	56.2						
MJF 16 X 20	16	8	20	2.11	10.0	21	9.0	19	8.0	17
MJF 16 X 25			25	1.68	12.5		11.2			
MJF 16 X 30			30	1.40	15.0		13.5			
MJF 16 X 35			35	1.20	17.5		15.7			
MJF 16 X 40			40	1.05	20.0		18.0			
MJF 16 X 45			45	0.94	22.5		20.2			
MJF 16 X 50			50	0.84	25.0		22.5			
MJF 16 X 55			55	0.77	27.5		24.7			
MJF 16 X 60			60	0.70	30.0		27.0			
MJF 16 X 65			65	0.65	32.5		29.2			
MJF 16 X 70			70	0.60	35.0		31.5			
MJF 16 X 75			75	0.56	37.5		33.7			
MJF 16 X 80			80	0.53	40.0		36.0			
MJF 16 X 90			90	0.47	45.0		40.5			
MJF 16 X 100	100	0.42	50.0	45.0						
MJF 16 X 125	125	0.34	62.5	56.2						



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JIS STANDARD SPRINGS MJF - YELLOW COLOR LIGHTEST LOAD

Code	OD (MM)	ID (MM)	FREE LENGTH (MM)	SPRING CONTANT	30 (0.3 MILLION)		50 (0.3 MILLION)		100 (1 MILLION)	
					50% DEFLECTION (MM)	LOAD (KGF)	45% DEFLECTION (MM)	LOAD (KGF)	40% DEFLECTION (MM)	LOAD (KGF)
MJF 18 X 20	18	9	20	2.56	10.0	26	9.0	23	8.0	21
MJF 18 X 25			25	2.08	12.5		11.2		10.0	
MJF 18 X 30			30	1.74	15.0		13.5		12.0	
MJF 18 X 35			35	1.49	17.5		15.7		14.0	
MJF 18 X 40			40	1.30	20.0		18.0		16.0	
MJF 18 X 45			45	1.16	22.5		20.2		18.0	
MJF 18 X 50			50	1.04	25.0		22.5		20.0	
MJF 18 X 55			55	0.95	27.5		24.7		22.0	
MJF 18 X 60			60	0.87	30.0		27.0		24.0	
MJF 18 X 65			65	0.80	32.5		29.2		26.0	
MJF 18 X 70			70	0.74	35.0		31.5		28.0	
MJF 18 X 75			75	0.70	37.5		33.7		30.0	
MJF 18 X 80			80	0.65	40.0		36.0		32.0	
MJF 18 X 90			90	0.58	45.0		40.5		36.0	
MJF 18 X 100			100	0.52	50.0		45.0		40.0	
MJF 18 X 125			125	0.42	62.5		56.2		50.0	
MJF 20 X 20			20	11	20		3.22		10.0	
MJF 20 X 25	25	2.56			12.5	11.2	10.0			
MJF 20 X 30	30	2.13			15.0	13.5	12.0			
MJF 20 X 35	35	1.83			17.5	15.7	14.0			
MJF 20 X 40	40	1.60			20.0	18.0	16.0			
MJF 20 X 45	45	1.42			22.5	20.2	18.0			
MJF 20 X 50	50	1.28			25.0	22.5	20.0			
MJF 20 X 55	55	1.16			27.5	24.7	22.0			
MJF 20 X 60	60	1.07			30.0	27.0	24.0			
MJF 20 X 65	65	0.98			32.5	29.2	26.0			
MJF 20 X 70	70	0.91			35.0	31.5	28.0			
MJF 20 X 75	75	0.85			37.5	33.7	30.0			
MJF 20 X 80	80	0.80			40.0	36.0	32.0			
MJF 20 X 90	90	0.71			45.0	40.5	36.0			
MJF 20 X 100	100	0.64			50.0	45.0	40.0			
MJF 20 X 125	125	0.51			62.5	56.2	50.0			
MJF 20 X 150	150	0.43			75.0	67.5	60.0			
MJF 20 X 175	175	0.37	87.5	78.7	70.0					
MJF 22 X 25	22	11	25	3.20	12.5	40	11.2	36	10.0	32
MJF 22 X 30			30	2.67	15.0		13.5		12.0	
MJF 22 X 35			35	2.29	17.5		15.7		14.0	
MJF 22 X 40			40	2.00	20.0		18.0		16.0	
MJF 22 X 45			45	1.78	22.5		20.2		18.0	
MJF 22 X 50			50	1.60	25.0		22.5		20.0	
MJF 22 X 55			55	1.46	27.5		24.7		22.0	
MJF 22 X 60			60	1.33	30.0		27.0		24.0	
MJF 22 X 65			65	1.23	32.5		29.2		26.0	
MJF 22 X 70			70	1.14	35.0		31.5		28.0	
MJF 22 X 75			75	1.07	37.5		33.7		30.0	
MJF 22 X 80			80	1.00	40.0		36.0		32.0	
MJF 22 X 90			90	0.89	45.0		40.5		36.0	
MJF 22 X 100			100	0.80	50.0		45.0		40.0	
MJF 22 X 125			125	0.64	62.5		56.2		50.0	
MJF 22 X 150			150	0.53	75.0		67.5		60.0	
MJF 22 X 175			175	0.46	87.5		78.7		70.0	



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**JIS
STANDARD SPRINGS
MJF - YELLOW COLOR
LIGHTEST LOAD**



Code	OD (MM)	ID (MM)	FREE LENGTH (MM)	SPRING CONTANT	30 (0.3 MILLION)		50 (0.3 MILLION)		100 (1 MILLION)						
					50% DEFLECTION (MM)	LOAD (KGF)	45% DEFLECTION (MM)	LOAD (KGF)	40% DEFLECTION (MM)	LOAD (KGF)					
MJF 25 X 25	25	13.5	25	4.00	12.5	50	11.2	45	10.0	40					
MJF 25 X 30			30	3.33	15.0		13.5		12.0						
MJF 25 X 35			35	2.85	17.5		15.7		14.0						
MJF 25 X 40			40	2.50	20.0		18.0		16.0						
MJF 25 X 45			45	2.22	22.5		20.2		18.0						
MJF 25 X 50			50	2.00	25.0		22.5		20.0						
MJF 25 X 55			55	1.82	27.5		24.7		22.0						
MJF 25 X 60			60	1.67	30.0		27.0		24.0						
MJF 25 X 65			65	1.54	32.5		29.2		26.0						
MJF 25 X 70			70	1.43	35.0		31.5		28.0						
MJF 25 X 75			75	1.33	37.5		33.7		30.0						
MJF 25 X 80			80	1.25	40.0		36.0		32.0						
MJF 25 X 90			90	1.11	45.0		40.5		36.0						
MJF 25 X 100			100	1.00	50.0		45.0		40.0						
MJF 25 X 125			125	0.80	62.5		56.2		50.0						
MJF 25 X 150			150	0.67	75.0		67.5		60.0						
MJF 25 X 175			175	0.57	87.5		78.7		70.0						
MJF 25 X 200			200	0.50	100.0		90.0		80.0						
MJF 27 X 25			27	13.5	25		4.80		12.5		60	11.2	54	10.0	48
MJF 27 X 30					30		4.00		15.0			13.5		12.0	
MJF 27 X 35	35	3.43			17.5	15.7	14.0								
MJF 27 X 40	40	3.00			20.0	18.0	16.0								
MJF 27 X 45	45	2.67			22.5	20.2	18.0								
MJF 27 X 50	50	2.40			25.0	22.5	20.0								
MJF 27 X 55	55	2.18			27.5	24.7	22.0								
MJF 27 X 60	60	2.00			30.0	27.0	24.0								
MJF 27 X 65	65	1.85			32.5	29.2	26.0								
MJF 27 X 70	70	1.71			35.0	31.5	28.0								
MJF 27 X 75	75	1.60			37.5	33.7	30.0								
MJF 27 X 80	80	1.50			40.0	36.0	32.0								
MJF 27 X 90	90	1.33			45.0	40.5	36.0								
MJF 27 X 100	100	1.20			50.0	45.0	40.0								
MJF 27 X 125	125	0.96			62.5	56.2	50.0								
MJF 27 X 150	150	0.80			75.0	67.5	60.0								
MJF 27 X 175	175	0.69			87.5	78.7	70.0								
MJF 27 X 200	200	0.60			100.0	90.0	80.0								
MJF 30 X 25	30	16			25	5.80	12.5	72	11.2	65		10.0		58	
MJF 30 X 30					30	4.83	15.0		13.5			12.0			
MJF 30 X 35			35	4.13	17.5	15.7	14.0								
MJF 30 X 40			40	3.60	20.0	18.0	16.0								
MJF 30 X 45			45	3.21	22.5	20.2	18.0								
MJF 30 X 50			50	2.88	25.0	22.5	20.0								
MJF 30 X 55			55	2.63	27.5	24.7	22.0								
MJF 30 X 60			60	2.40	30.0	27.0	24.0								
MJF 30 X 65			65	2.22	32.5	29.2	26.0								
MJF 30 X 70			70	2.05	35.0	31.5	28.0								
MJF 30 X 75			75	1.93	37.5	33.7	30.0								
MJF 30 X 80			80	1.80	40.0	36.0	32.0								
MJF 30 X 90			90	1.60	45.0	40.5	36.0								
MJF 30 X 100			100	1.44	50.0	45.0	40.0								
MJF 30 X 125			125	1.15	62.5	56.2	50.0								
MJF 30 X 150			150	0.96	75.0	67.5	60.0								
MJF 30 X 175			175	0.82	87.5	78.7	70.0								
MJF 30 X 200			200	0.72	100.0	90.0	80.0								



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**JIS
STANDARD SPRINGS
MJF - YELLOW COLOR
LIGHTEST LOAD**

Code	OD (MM)	ID (MM)	FREE LENGTH (MM)	SPRING CONTANT	30 (0.3 MILLION)		50 (0.3 MILLION)		100 (1 MILLION)						
					50% DEFLECTION (MM)	LOAD (KGF)	45% DEFLECTION (MM)	LOAD (KGF)	40% DEFLECTION (MM)	LOAD (KGF)					
MJF 35 X 35	35	19	35	5.60	17.5	98	15.7	88	14.0	78					
MJF 35 X 40			40	4.90	20.0		18.0		16.0						
MJF 35 X 45			45	4.36	22.5		20.2		18.0						
MJF 35 X 50			50	3.92	25.0		22.5		20.0						
MJF 35 X 55			55	3.56	27.5		24.7		22.0						
MJF 35 X 60			60	3.26	30.0		27.0		24.0						
MJF 35 X 65			65	3.02	32.5		29.2		26.0						
MJF 35 X 70			70	2.80	35.0		31.5		28.0						
MJF 35 X 75			75	2.61	37.5		33.7		30.0						
MJF 35 X 80			80	2.45	40.0		36.0		32.0						
MJF 35 X 90			90	2.17	45.0		40.5		36.0						
MJF 35 X 100			100	1.96	50.0		45.0		40.0						
MJF 35 X 125			125	1.57	62.5		56.2		50.0						
MJF 35 X 150			150	1.30	75.0		67.5		60.0						
MJF 35 X 175			175	1.12	87.5		78.7		70.0						
MJF 35 X 200			200	0.98	100.0		90.0		80.0						
MJF 40 X 40			40	22	40		6.38		20.0		128	18.0	115	16.0	102
MJF 40 X 45					45		5.67		22.5			20.2		18.0	
MJF 40 X 50					50		5.12		25.0			22.5		20.0	
MJF 40 X 55					55		4.64		27.5			24.7		22.0	
MJF 40 X 60	60	4.26			30.0	27.0	24.0								
MJF 40 X 65	65	3.93			32.5	29.2	26.0								
MJF 40 X 70	70	3.65			35.0	31.5	28.0								
MJF 40 X 75	75	3.40			37.5	33.7	30.0								
MJF 40 X 80	80	3.20			40.0	36.0	32.0								
MJF 40 X 90	90	2.84			45.0	40.5	36.0								
MJF 40 X 100	100	2.56			50.0	45.0	40.0								
MJF 40 X 125	125	2.04			62.5	56.2	50.0								
MJF 40 X 150	150	1.70			75.0	67.5	60.0								
MJF 40 X 175	175	1.46			87.5	78.7	70.0								
MJF 40 X 200	200	1.28			100.0	90.0	80.0								
MJF 40 X 225	225	1.13			112.5	101.2	90.0								
MJF 40 X 250	250	1.02			125.0	112.5	100.0								
MJF 40 X 275	275	0.93			137.5	123.7	110.0								
MJF 40 X 300	300	0.85			150.0	135.0	120.0								
MJF 50 X 50	50	27.5			50	8.00	25.0	200	22.5	180		20.0		160	
MJF 50 X 55			55	7.27	27.5	24.7	22.0								
MJF 50 X 60			60	6.66	30.0	27.0	24.0								
MJF 50 X 65			65	6.15	32.5	29.2	26.0								
MJF 50 X 70			70	5.71	35.0	31.5	28.0								
MJF 50 X 75			75	5.33	37.5	33.7	30.0								
MJF 50 X 80			80	5.00	40.0	36.0	32.0								
MJF 50 X 90			90	4.44	45.0	40.5	36.0								
MJF 50 X 100			100	4.00	50.0	45.0	40.0								
MJF 50 X 125			125	3.20	62.5	56.2	50.0								
MJF 50 X 150			150	2.66	75.0	67.5	60.0								
MJF 50 X 175			175	2.28	87.5	78.7	70.0								
MJF 50 X 200			200	2.00	100.0	90.0	80.0								
MJF 50 X 225			225	1.78	112.5	101.2	90.0								
MJF 50 X 250			250	1.60	125.0	112.5	100.0								
MJF 50 X 275			275	1.45	137.5	123.7	110.0								
MJF 50 X 300			300	1.33	150.0	135.0	120.0								
MJF 50 X 350			350	1.14	175.0	157.5	140.0								
MJF 50 X 400			400	1.00	200.0	180.0	160.0								
MJF 50 X 450			450	0.89	225.0	202.5	180.0								
MJF 50 X 500	500	0.80	250.0	225.0	200.0										



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**JIS
STANDARD SPRINGS
MJF - YELLOW COLOR
LIGHTEST LOAD**



Code	OD (MM)	ID (MM)	FREE LENGTH (MM)	SPRING CONTANT	30 (0.3 MILLION)		50 (0.3 MILLION)		100 (1 MILLION)	
					50% DEFLECTION (MM)	LOAD (KGF)	45% DEFLECTION (MM)	LOAD (KGF)	40% DEFLECTION (MM)	LOAD (KGF)
MJF 60 X 60	60	33	60	9.59	30.0	288	27.0	259	24.0	230
MJF 60 X 70			70	8.22	35.0		31.5		28.0	
MJF 60 X 80			80	7.19	40.0		36.0		32.0	
MJF 60 X 90			90	6.40	45.0		40.5		36.0	
MJF 60 X 100			100	5.76	50.0		45.0		40.0	
MJF 60 X 125			125	4.60	62.5		56.2		50.0	
MJF 60 X 150			150	3.84	75.0		67.5		60.0	
MJF 60 X 175			175	3.29	87.5		78.7		70.0	
MJF 60 X 200			200	2.88	100.0		90.0		80.0	
MJF 60 X 225			225	2.56	112.5		101.2		90.0	
MJF 60 X 250			250	2.30	125.0		112.5		100.0	
MJF 60 X 275			275	2.09	137.5		123.7		110.0	
MJF 60 X 300			300	1.92	150.0		135.0		120.0	
MJF 60 X 350			350	1.65	175.0		157.5		140.0	
MJF 60 X 400			400	1.44	200.0		180.0		160.0	
MJF 60 X 450			450	1.28	225.0		202.5		180.0	
MJF 60 X 500	500	1.15	250.0	225.0	200.0					
MJF 70 X 70	70	38.5	70	11.43	35.0	400	31.5	360	28.0	320
MJF 70 X 80			80	10.00	40.0		36.0		32.0	
MJF 70 X 90			90	8.89	45.0		40.5		36.0	
MJF 70 X 100			100	8.00	50.0		45.0		40.0	
MJF 70 X 125			125	6.40	62.5		56.2		50.0	
MJF 70 X 150			150	5.33	75.0		67.5		60.0	
MJF 70 X 175			175	4.57	87.5		78.7		70.0	
MJF 70 X 200			200	4.00	100.0		90.0		80.0	
MJF 70 X 225			225	3.56	112.5		101.2		90.0	
MJF 70 X 250			250	3.20	125.0		112.5		100.0	
MJF 70 X 275			275	2.91	137.5		123.7		110.0	
MJF 70 X 300			300	2.67	150.0		135.0		120.0	
MJF 70 X 350			350	2.29	175.0		157.5		140.0	



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**JIS
STANDARD SPRINGS
MJF - YELLOW COLOR
LIGHTEST LOAD
(SPECIAL SIZE)**

Code	OD (MM)	ID (MM)	FREE LENGTH (MM)	SPRING CONTANT	30 (0.3 MILLION)		50 (0.3 MILLION)		100 (1 MILLION)						
					50% DEFLECTION (MM)	LOAD (KGF)	45% DEFLECTION (MM)	LOAD (KGF)	40% DEFLECTION (MM)	LOAD (KGF)					
MJF 35 X 40	35	21	40	4.15	20.0	83	18.0	74.7	16.0	66.4					
MJF 35 X 45			45	3.69	22.5		20.2		18.0						
MJF 35 X 50			50	3.32	25.0		22.5		20.0						
MJF 35 X 55			55	3.02	27.5		24.7		22.0						
MJF 35 X 60			60	2.77	30.0		27.0		24.0						
MJF 35 X 65			65	2.55	32.5		29.2		26.0						
MJF 35 X 70			70	2.37	35.0		31.5		28.0						
MJF 35 X 75			75	2.21	37.5		33.7		30.0						
MJF 35 X 80			80	2.08	40.0		36.0		32.0						
MJF 35 X 90			90	1.84	45.0		40.5		36.0						
MJF 35 X 100			100	1.66	50.0		45.0		40.0						
MJF 35 X 125			125	1.33	62.5		56.2		50.0						
MJF 35 X 150			150	1.11	75.0		67.5		60.0						
MJF 35 X 175			175	0.95	87.5		78.7		70.0						
MJF 35 X 200			200	0.83	100.0		90.0		80.0						
MJF 40 X 50			40	26	50		3.48		25.0		87	22.5	78.3	20.0	69.6
MJF 40 X 60	60	2.90			30.0	27.0	24.0								
MJF 40 X 70	70	2.49			35.0	31.5	28.0								
MJF 40 X 80	80	2.18			40.0	36.0	32.0								
MJF 40 X 90	90	1.93			45.0	40.5	36.0								
MJF 40 X 100	100	1.74			50.0	45.0	40.0								
MJF 40 X 125	125	1.39			62.5	56.2	50.0								
MJF 40 X 150	150	1.16			75.0	67.5	60.0								
MJF 40 X 175	175	0.99			87.5	78.7	70.0								
MJF 40 X 200	200	0.87			100.0	90.0	80.0								
MJF 40 X 250	250	0.70			125.0	112.5	100.0								
MJF 50 X 60	50	31			60	2.90	30.0	144	27.0	129.6		24.0		115.2	
MJF 50 X 70					70	2.49	35.0		31.5			28.0			
MJF 50 X 80					80	2.18	40.0		36.0			32.0			
MJF 50 X 90					90	1.93	45.0		40.5			36.0			
MJF 50 X 100					100	1.74	50.0		45.0			40.0			
MJF 50 X 125			125	1.39	62.5	56.2	50.0								
MJF 50 X 150			150	1.16	75.0	67.5	60.0								
MJF 50 X 175			175	0.99	87.5	78.7	70.0								
MJF 50 X 200			200	0.87	100.0	90.0	80.0								
MJF 50 X 250			250	0.70	125.0	112.5	100.0								
MJF 50 X 300			300	0.96	150.0	135.0	120.0								
MJF 60 X 90			60	37	90	1.93	45.0		188		40.5	169.2	36.0		150.4
MJF 60 X 100					100	1.74	50.0				45.0		40.0		
MJF 60 X 125					125	1.39	62.5				56.2		50.0		
MJF 60 X 150					150	1.16	75.0				67.5		60.0		
MJF 60 X 175					175	0.99	87.5				78.7		70.0		
MJF 60 X 200	200	0.87			100.0	90.0	80.0								
MJF 60 X 250	250	0.70			125.0	112.5	100.0								
MJF 60 X 300	300	1.25			150.0	135.0	120.0								



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**JIS
STANDARD SPRINGS
MJL - BLUE COLOUR
LIGHT LOAD**



Code	OD (MM)	ID (MM)	FREE LENGTH (MM)	SPRING CONTANT	30 (0.3 MILLION)		50 (0.5 MILLION)		100 (1 MILLION)						
					40% DEFLECTION (MM)	LOAD (KGF)	36% DEFLECTION (MM)	LOAD (KGF)	32% DEFLECTION (MM)	LOAD (KGF)					
MJL 6 X 15	6	3	15	1.33	6.0	8	5.4	7.2	4.8	6.4					
MJL 6 X 20			20	1.00	8.0		7.2		6.4						
MJL 6 X 25			25	0.80	10.0		9.0		8.0						
MJL 6 X 30			30	0.67	12.0		10.8		9.6						
MJL 6 X 35			35	0.57	14.0		12.6		11.2						
MJL 6 X 40			40	0.50	16.0		14.4		12.8						
MJL 6 X 45			45	0.44	18.0		16.2		14.4						
MJL 6 X 50			50	0.40	20.0		18.0		16.0						
MJL 6 X 55			55	0.36	22.0		19.8		17.6						
MJL 6 X 60			60	0.33	24.0		21.6		19.2						
MJL 6 X 65			65	0.31	26.0		23.4		20.8						
MJL 6 X 70			70	0.29	28.0		25.2		22.4						
MJL 8 X 10			8	4	10		2.50		4.0		10	3.6	9	3.2	8
MJL 8 X 15					15		1.67		6.0			5.4		4.8	
MJL 8 X 20	20	1.25			8.0	7.2	6.4								
MJL 8 X 25	25	1.00			10.0	9.0	8.0								
MJL 8 X 30	30	0.83			12.0	10.8	9.6								
MJL 8 X 35	35	0.71			14.0	12.6	11.2								
MJL 8 X 40	40	0.63			16.0	14.4	12.8								
MJL 8 X 45	45	0.56			18.0	16.2	14.4								
MJL 8 X 50	50	0.50			20.0	18.0	16.0								
MJL 8 X 55	55	0.46			22.0	19.8	17.6								
MJL 8 X 60	60	0.42			24.0	21.6	19.2								
MJL 8 X 65	65	0.38			26.0	23.4	20.8								
MJL 8 X 70	70	0.36			28.0	25.2	22.4								
MJL 8 X 75	75	0.33			30.0	27.0	24.0								
MJL 8 X 80	80	0.31			32.0	28.8	25.6								
MJL 8 X 90	90	0.28			36.0	32.4	28.8								
MJL 10 X 10	10	5			10	3.61	4.0	14.5	3.6	13		3.2		11.5	
MJL 10 X 15					15	2.41	6.0		5.4			4.8			
MJL 10 X 20					20	1.81	8.0		7.2			6.4			
MJL 10 X 25					25	1.45	10.0		9.0			8.0			
MJL 10 X 30			30	1.21	12.0	10.8	9.6								
MJL 10 X 35			35	1.03	14.0	12.6	11.2								
MJL 10 X 40			40	0.90	16.0	14.4	12.8								
MJL 10 X 45			45	0.80	18.0	16.2	14.4								
MJL 10 X 50			50	0.73	20.0	18.0	16.0								
MJL 10 X 55			55	0.66	22.0	19.8	17.6								
MJL 10 X 60			60	0.60	24.0	21.6	19.2								
MJL 10 X 65			65	0.55	26.0	23.4	20.8								
MJL 10 X 70			70	0.51	28.0	25.2	22.4								
MJL 10 X 75			75	0.48	30.0	27.0	24.0								
MJL 10 X 80			80	0.45	32.0	28.8	25.6								
MJL 10 X 90			90	0.40	36.0	32.4	28.8								
MJL 10 X 100			100	0.36	40.0	36.0	32.0								



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**JIS
STANDARD SPRINGS
MJL - BLUE COLOUR
LIGHT LOAD**



Code	OD (MM)	ID (MM)	FREE LENGTH (MM)	SPRING CONTANT	30 (0.3 MILLION)		50 (0.5 MILLION)		100 (1 MILLION)	
					40% DEFLECTION (MM)	LOAD (KGF)	36% DEFLECTION (MM)	LOAD (KGF)	32% DEFLECTION (MM)	LOAD (KGF)
MJL 12 X 20	12	6	20	2.63	8.0	21	7.2	19	6.4	17
MJL 12 X 25			25	2.10	10.0		9.0		8.0	
MJL 12 X 30			30	1.75	12.0		10.8		9.6	
MJL 12 X 35			35	1.50	14.0		12.6		11.2	
MJL 12 X 40			40	1.32	16.0		14.4		12.8	
MJL 12 X 45			45	1.17	18.0		16.2		14.4	
MJL 12 X 50			50	1.05	20.0		18.0		16.0	
MJL 12 X 55			55	0.96	22.0		19.8		17.6	
MJL 12 X 60			60	0.88	24.0		21.6		19.2	
MJL 12 X 65			65	0.81	26.0		23.4		20.8	
MJL 12 X 70			70	0.75	28.0		25.2		22.4	
MJL 12 X 75			75	0.70	30.0		27.0		24.0	
MJL 12 X 80			80	0.66	32.0		28.8		25.6	
MJL 12 X 90			90	0.58	36.0		32.4		28.8	
MJL 12 X 100			100	0.53	40.0		36.0		32.0	
MJL 14 X 20	14	7	20	3.47	8.0	28	7.2	25	6.4	22
MJL 14 X 25			25	2.80	10.0		9.0		8.0	
MJL 14 X 30			30	2.34	12.0		10.8		9.6	
MJL 14 X 35			35	2.00	14.0		12.6		11.2	
MJL 14 X 40			40	1.75	16.0		14.4		12.8	
MJL 14 X 45			45	1.56	18.0		16.2		14.4	
MJL 14 X 50			50	1.40	20.0		18.0		16.0	
MJL 14 X 55			55	1.27	22.0		19.8		17.6	
MJL 14 X 60			60	1.17	24.0		21.6		19.2	
MJL 14 X 65			65	1.08	26.0		23.4		20.8	
MJL 14 X 70			70	1.00	28.0		25.2		22.4	
MJL 14 X 75			75	0.93	30.0		27.0		24.0	
MJL 14 X 80			80	0.87	32.0		28.8		25.6	
MJL 14 X 90			90	0.77	36.0		32.4		28.8	
MJL 14 X 100			100	0.70	40.0		36.0		32.0	
MJL 14 X 125	125	0.56	50.0	45.0	40.0					
MJL 16 X 20	16	8	20	4.44	8.0	35	7.2	32	6.4	28
MJL 16 X 25			25	3.50	10.0		9.0		8.0	
MJL 16 X 30			30	2.92	12.0		10.8		9.6	
MJL 16 X 35			35	2.50	14.0		12.6		11.2	
MJL 16 X 40			40	2.19	16.0		14.4		12.8	
MJL 16 X 45			45	1.95	18.0		16.2		14.4	
MJL 16 X 50			50	1.75	20.0		18.0		16.0	
MJL 16 X 55			55	1.60	22.0		19.8		17.6	
MJL 16 X 60			60	1.46	24.0		21.6		19.2	
MJL 16 X 65			65	1.35	26.0		23.4		20.8	
MJL 16 X 70			70	1.25	28.0		25.2		22.4	
MJL 16 X 75			75	1.17	30.0		27.0		24.0	
MJL 16 X 80			80	1.10	32.0		28.8		25.6	
MJL 16 X 90			90	0.98	36.0		32.4		28.8	
MJL 16 X 100			100	0.88	40.0		36.0		32.0	
MJL 16 X 125	125	0.70	50.0	45.0	40.0					



**JIS
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MJL - BLUE COLOUR
LIGHT LOAD**



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					40% DEFLECTION (MM)	LOAD (KGF)	36% DEFLECTION (MM)	LOAD (KGF)	32% DEFLECTION (MM)	LOAD (KGF)
MJL 18 X 20	18	9	20	5.42	8.0	43	7.2	39	6.4	34
MJL 18 X 25			25	4.30	10.0		9.0		8.0	
MJL 18 X 30			30	3.58	12.0		10.8		9.6	
MJL 18 X 35			35	3.07	14.0		12.6		11.2	
MJL 18 X 40			40	2.69	16.0		14.4		12.8	
MJL 18 X 45			45	2.39	18.0		16.2		14.4	
MJL 18 X 50			50	2.15	20.0		18.0		16.0	
MJL 18 X 55			55	1.96	22.0		19.8		17.6	
MJL 18 X 60			60	1.79	24.0		21.6		19.2	
MJL 18 X 65			65	1.66	26.0		23.4		20.8	
MJL 18 X 70			70	1.54	28.0		25.2		22.4	
MJL 18 X 75			75	1.44	30.0		27.0		24.0	
MJL 18 X 80			80	1.35	32.0		28.8		25.6	
MJL 18 X 90			90	1.20	36.0		32.4		28.8	
MJL 18 X 100			100	1.07	40.0		36.0		32.0	
MJL 18 X 125	125	0.86	50.0	45.0	40.0					
MJL 20 X 20	20	10	20	6.81	8.0	54	7.2	49	6.4	43
MJL 20 X 25			25	5.40	10.0		9.0		8.0	
MJL 20 X 30			30	4.50	12.0		10.8		9.6	
MJL 20 X 35			35	3.86	14.0		12.6		11.2	
MJL 20 X 40			40	3.38	16.0		14.4		12.8	
MJL 20 X 45			45	3.00	18.0		16.2		14.4	
MJL 20 X 50			50	2.70	20.0		18.0		16.0	
MJL 20 X 55			55	2.45	22.0		19.8		17.6	
MJL 20 X 60			60	2.25	24.0		21.6		19.2	
MJL 20 X 65			65	2.08	26.0		23.4		20.8	
MJL 20 X 70			70	1.93	28.0		25.2		22.4	
MJL 20 X 75			75	1.80	30.0		27.0		24.0	
MJL 20 X 80			80	1.69	32.0		28.8		25.6	
MJL 20 X 90			90	1.50	36.0		32.4		28.8	
MJL 20 X 100			100	1.35	40.0		36.0		32.0	
MJL 20 X 125	125	1.08	50.0	45.0	40.0					
MJL 20 X 150	150	0.90	60.0	54.0	48.0					
MJL 20 X 175	175	0.77	70.0	63.0	56.0					
MJL 22 X 25	22	11	25	6.70	10.0	67	9.0	60	8.0	54
MJL 22 X 30			30	5.60	12.0		10.8		9.6	
MJL 22 X 35			35	4.80	14.0		12.6		11.2	
MJL 22 X 40			40	4.20	16.0		14.4		12.8	
MJL 22 X 45			45	3.72	18.0		16.2		14.4	
MJL 22 X 50			50	3.35	20.0		18.0		16.0	
MJL 22 X 55			55	3.05	22.0		19.8		17.6	
MJL 22 X 60			60	2.80	24.0		21.6		19.2	
MJL 22 X 65			65	2.58	26.0		23.4		20.8	
MJL 22 X 70			70	2.40	28.0		25.2		22.4	
MJL 22 X 75			75	2.23	30.0		27.0		24.0	
MJL 22 X 80			80	2.10	32.0		28.8		25.6	
MJL 22 X 90			90	1.86	36.0		32.4		28.8	
MJL 22 X 100			100	1.68	40.0		36.0		32.0	
MJL 22 X 125			125	1.34	50.0		45.0		40.0	
MJL 22 X 150	150	1.12	60.0	54.0	48.0					
MJL 22 X 175	175	0.96	70.0	63.0	56.0					



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MJL - BLUE COLOUR
LIGHT LOAD**



Code	OD (MM)	ID (MM)	FREE LENGTH (MM)	SPRING CONTANT	30 (0.3 MILLION)		50 (0.5 MILLION)		100 (1 MILLION)						
					40% DEFLECTION (MM)	LOAD (KGF)	36% DEFLECTION (MM)	LOAD (KGF)	32% DEFLECTION (MM)	LOAD (KGF)					
MJL 25 X 25	25	12.5	25	8.40	10.0	84	9.0	76	8.0	67					
MJL 25 X 30			30	7.00	12.0		10.8		9.6						
MJL 25 X 35			35	6.00	14.0		12.6		11.2						
MJL 25 X 40			40	5.25	16.0		14.4		12.8						
MJL 25 X 45			45	4.67	18.0		16.2		14.4						
MJL 25 X 50			50	4.20	20.0		18.0		16.0						
MJL 25 X 55			55	3.82	22.0		19.8		17.6						
MJL 25 X 60			60	3.50	24.0		21.6		19.2						
MJL 25 X 65			65	3.23	26.0		23.4		20.8						
MJL 25 X 70			70	3.00	28.0		25.2		22.4						
MJL 25 X 75			75	2.80	30.0		27.0		24.0						
MJL 25 X 80			80	2.63	32.0		28.8		25.6						
MJL 25 X 90			90	2.33	36.0		32.4		28.8						
MJL 25 X 100			100	2.10	40.0		36.0		32.0						
MJL 25 X 125			125	1.68	50.0		45.0		40.0						
MJL 25 X 150			150	1.40	60.0		54.0		48.0						
MJL 25 X 175			175	1.20	70.0		63.0		56.0						
MJL 25 X 200			200	1.05	80.0		72.0		64.0						
MJL 27 X 25			27	13.5	25		10.00		10.0		100	9.0	90	8.0	80
MJL 27 X 30					30		8.33		12.0			10.8		9.6	
MJL 27 X 35	35	7.14			14.0	12.6	11.2								
MJL 27 X 40	40	6.25			16.0	14.4	12.8								
MJL 27 X 45	45	5.56			18.0	16.2	14.4								
MJL 27 X 50	50	5.00			20.0	18.0	16.0								
MJL 27 X 55	55	4.55			22.0	19.8	17.6								
MJL 27 X 60	60	4.17			24.0	21.6	19.2								
MJL 27 X 65	65	3.85			26.0	23.4	20.8								
MJL 27 X 70	70	3.57			28.0	25.2	22.4								
MJL 27 X 75	75	3.33			30.0	27.0	24.0								
MJL 27 X 80	80	3.13			32.0	28.8	25.6								
MJL 27 X 90	90	2.78			36.0	32.4	28.8								
MJL 27 X 100	100	2.50			40.0	36.0	32.0								
MJL 27 X 125	125	2.00			50.0	45.0	40.0								
MJL 27 X 150	150	1.67			60.0	54.0	48.0								
MJL 27 X 175	175	1.43			70.0	63.0	56.0								
MJL 27 X 200	200	1.25			80.0	72.0	64.0								
MJL 30 X 25	30	15			25	12.11	10.0	121	9.0	109		8.0		97	
MJL 30 X 30					30	10.08	12.0		10.8			9.6			
MJL 30 X 35			35	8.65	14.0	12.6	11.2								
MJL 30 X 40			40	7.56	16.0	14.4	12.8								
MJL 30 X 45			45	6.73	18.0	16.2	14.4								
MJL 30 X 50			50	6.05	20.0	18.0	16.0								
MJL 30 X 55			55	5.50	22.0	19.8	17.6								
MJL 30 X 60			60	5.04	24.0	21.6	19.2								
MJL 30 X 65			65	4.65	26.0	23.4	20.8								
MJL 30 X 70			70	4.32	28.0	25.2	22.4								
MJL 30 X 75			75	4.03	30.0	27.0	24.0								
MJL 30 X 80			80	3.78	32.0	28.8	25.6								
MJL 30 X 90			90	3.36	36.0	32.4	28.8								
MJL 30 X 100			100	3.02	40.0	36.0	32.0								
MJL 30 X 125			125	2.42	50.0	45.0	40.0								
MJL 30 X 150			150	2.01	60.0	54.0	48.0								
MJL 30 X 175			175	1.72	70.0	63.0	56.0								
MJL 30 X 200			200	1.51	80.0	72.0	64.0								



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Code	OD (MM)	ID (MM)	FREE LENGTH (MM)	SPRING CONTANT	30 (0.3 MILLION)		50 (0.5 MILLION)		100 (1 MILLION)	
					40% DEFLECTION (MM)	LOAD (KGF)	36% DEFLECTION (MM)	LOAD (KGF)	32% DEFLECTION (MM)	LOAD (KGF)
MJL 35 X 35	35	17.5	35	11.78	14.0	165	12.6	149	11.2	132
MJL 35 X 40			40	10.31	16.0		14.4		12.8	
MJL 35 X 45			45	9.17	18.0		16.2		14.4	
MJL 35 X 50			50	8.25	20.0		18.0		16.0	
MJL 35 X 55			55	7.50	22.0		19.8		17.6	
MJL 35 X 60			60	6.87	24.0		21.6		19.2	
MJL 35 X 65			65	6.35	26.0		23.4		20.8	
MJL 35 X 70			70	5.89	28.0		25.2		22.4	
MJL 35 X 75			75	5.50	30.0		27.0		24.0	
MJL 35 X 80			80	5.15	32.0		28.8		25.6	
MJL 35 X 90			90	4.58	36.0		32.4		28.8	
MJL 35 X 100			100	4.12	40.0		36.0		32.0	
MJL 35 X 125			125	3.30	50.0		45.0		40.0	
MJL 35 X 150			150	2.75	60.0		54.0		48.0	
MJL 35 X 175			175	2.25	70.0		63.0		56.0	
MJL 35 X 200			200	2.35	80.0		72.0		64.0	
MJL 40 X 40			40	20	40		13.50		16.0	
MJL 40 X 45	45	12.00			18.0	16.2	14.4			
MJL 40 X 50	50	10.80			20.0	18.0	16.0			
MJL 40 X 55	55	9.82			22.0	19.8	17.6			
MJL 40 X 60	60	9.00			24.0	21.6	19.2			
MJL 40 X 65	65	8.31			26.0	23.4	20.8			
MJL 40 X 70	70	7.71			28.0	25.2	22.4			
MJL 40 X 75	75	7.20			30.0	27.0	24.0			
MJL 40 X 80	80	6.75			32.0	28.8	25.6			
MJL 40 X 90	90	6.00			36.0	32.4	28.8			
MJL 40 X 100	100	5.40			40.0	36.0	32.0			
MJL 40 X 125	125	4.32			50.0	45.0	40.0			
MJL 40 X 150	150	3.60			60.0	54.0	48.0			
MJL 40 X 175	175	3.08			70.0	63.0	56.0			
MJL 40 X 200	200	2.70			80.0	72.0	64.0			
MJL 40 X 225	225	2.40			90.0	81.0	72.0			
MJL 40 X 250	250	2.16			100.0	90.0	80.0			
MJL 40 X 275	275	1.96	110.0	99.0	88.0					
MJL 40 X 300	300	1.80	120.0	108.0	96.0					
MJL 50 X 50	50	25	50	16.89	20.0	338	18.0	304	16.0	270
MJL 50 X 55			55	15.35	22.0		19.8		17.6	
MJL 50 X 60			60	14.08	24.0		21.6		19.2	
MJL 50 X 65			65	12.99	26.0		23.4		20.8	
MJL 50 X 70			70	12.07	28.0		25.2		22.4	
MJL 50 X 75			75	11.26	30.0		27.0		24.0	
MJL 50 X 80			80	10.56	32.0		28.8		25.6	
MJL 50 X 90			90	9.38	36.0		32.4		28.8	
MJL 50 X 100			100	8.45	40.0		36.0		32.0	
MJL 50 X 125			125	6.76	50.0		45.0		40.0	
MJL 50 X 150			150	5.63	60.0		54.0		48.0	
MJL 50 X 175			175	4.82	70.0		63.0		56.0	
MJL 50 X 200			200	4.22	80.0		72.0		64.0	
MJL 50 X 225			225	3.75	90.0		81.0		72.0	
MJL 50 X 250			250	3.38	100.0		90.0		80.0	
MJL 50 X 275			275	3.07	110.0		99.0		88.0	
MJL 50 X 300			300	2.81	120.0		108.0		96.0	
MJL 50 X 350	350	2.41	140.0	126.0	112.0					
MJL 50 X 400	400	2.11	160.0	144.0	128.0					
MJL 50 X 450	450	1.88	180.0	162.0	144.0					
MJL 50 X 500	500	1.69	200.0	180.0	160.0					



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JIS STANDARD SPRINGS MJL - BLUE COLOUR LIGHT LOAD



Code	OD (MM)	ID (MM)	FREE LENGTH (MM)	SPRING CONTANT	30 (0.3 MILLION)		50 (0.5 MILLION)		100 (1 MILLION)	
					40% DEFLECTION (MM)	LOAD (KGF)	36% DEFLECTION (MM)	LOAD (KGF)	32% DEFLECTION (MM)	LOAD (KGF)
MJL 60 X 60	60	30	60	20.25	24.0	486	21.6	437	19.2	389
MJL 60 X 70			70	17.35	28.0		25.2		22.4	
MJL 60 X 80			80	15.18	32.0		28.8		25.6	
MJL 60 X 90			90	13.50	36.0		32.4		28.8	
MJL 60 X 100			100	12.15	40.0		36.0		32.0	
MJL 60 X 125			125	9.72	50.0		45.0		40.0	
MJL 60 X 150			150	8.10	60.0		54.0		48.0	
MJL 60 X 175			175	6.94	70.0		63.0		56.0	
MJL 60 X 200			200	6.07	80.0		72.0		64.0	
MJL 60 X 225			225	5.40	90.0		81.0		72.0	
MJL 60 X 250			250	4.86	100.0		90.0		80.0	
MJL 60 X 275			275	4.42	110.0		99.0		88.0	
MJL 60 X 300			300	4.05	120.0		108.0		96.0	
MJL 60 X 350			350	3.47	140.0		126.0		112.0	
MJL 60 X 400			400	3.04	160.0		144.0		128.0	
MJL 60 X 450			450	2.70	180.0		162.0		144.0	
MJL 60 X 500			500	2.43	200.0		180.0		160.0	
MJL 70 X 70	70	38.5	70	21.79	28.0	610	25.2	549	22.4	488
MJL 70 X 80			80	19.06	32.0		28.8		25.6	
MJL 70 X 90			90	16.94	36.0		32.4		28.8	
MJL 70 X 100			100	15.25	40.0		36.0		32.0	
MJL 70 X 125			125	12.20	50.0		45.0		40.0	
MJL 70 X 150			150	10.17	60.0		54.0		48.0	
MJL 70 X 175			175	8.71	70.0		63.0		56.0	
MJL 70 X 200			200	7.62	80.0		72.0		64.0	
MJL 70 X 225			225	6.78	90.0		81.0		72.0	
MJL 70 X 250			250	6.10	100.0		90.0		80.0	
MJL 70 X 275			275	5.55	110.0		99.0		88.0	
MJL 70 X 300			300	5.08	120.0		108.0		96.0	
MJL 70 X 350			350	4.36	140.0		126.0		112.0	



**JIS
STANDARD SPRINGS
MJL - BLUE COLOUR
LIGHT LOAD
(SPECIAL SIZE)**



Code	OD (MM)	ID (MM)	FREE LENGTH (MM)	SPRING CONTANT	30 (0.3 MILLION)		50 (0.5 MILLION)		100 (1 MILLION)	
					40% DEFLECTION (MM)	LOAD (KGF)	36% DEFLECTION (MM)	LOAD (KGF)	32% DEFLECTION (MM)	LOAD (KGF)
MJL 20 X 25	20	10	25	5.40	10.0	54	9.0	49	8.0	43
MJL 20 X 30			30	4.50	12.0		10.8			
MJL 20 X 35			35	3.86	14.0		12.6			
MJL 20 X 40			40	3.38	16.0		14.4			
MJL 20 X 45			45	3.00	18.0		16.2			
MJL 20 X 50			50	2.70	20.0		18.0			
MJL 20 X 55			55	2.45	22.0		19.8			
MJL 20 X 60			60	2.25	24.0		21.6			
MJL 20 X 65			65	2.08	26.0		23.4			
MJL 20 X 70			70	1.93	28.0		25.2			
MJL 20 X 75			75	1.80	30.0		27.0			
MJL 20 X 80			80	1.69	32.0		28.8			
MJL 20 X 90			90	1.50	36.0		32.4			
MJL 20 X 100			100	1.35	40.0		36.0			
MJL 20 X 125			125	1.08	50.0		45.0			
MJL 25 X 25	25	12.5	25	6.70	10.0	67	9.0	60	8.0	54
MJL 25 X 30			30	5.58	12.0		10.8			
MJL 25 X 35			35	4.79	14.0		12.6			
MJL 25 X 40			40	4.19	16.0		14.4			
MJL 25 X 45			45	3.72	18.0		16.2			
MJL 25 X 50			50	3.35	20.0		18.0			
MJL 25 X 55			55	3.05	22.0		19.8			
MJL 25 X 60			60	2.79	24.0		21.6			
MJL 25 X 65			65	2.58	26.0		23.4			
MJL 25 X 70			70	2.39	28.0		25.2			
MJL 25 X 75			75	2.23	30.0		27.0			
MJL 25 X 80			80	2.09	32.0		28.8			
MJL 25 X 90			90	1.86	36.0		32.4			
MJL 25 X 100			100	1.68	40.0		36.0			
MJL 25 X 125			125	1.34	50.0		45.0			
MJL 25 X 150	150	1.12	60.0	54.0						
MJL 30 X 25	30	16	25	10.00	10.0	100	9.0	90	8.0	80
MJL 30 X 30			30	8.33	12.0		10.8			
MJL 30 X 35			35	7.14	14.0		12.6			
MJL 30 X 40			40	6.25	16.0		14.4			
MJL 30 X 45			45	5.56	18.0		16.2			
MJL 30 X 50			50	5.00	20.0		18.0			
MJL 30 X 55			55	4.55	22.0		19.8			
MJL 30 X 60			60	4.17	24.0		21.6			
MJL 30 X 65			65	3.85	26.0		23.4			
MJL 30 X 70			70	3.57	28.0		25.2			
MJL 30 X 75			75	3.33	30.0		27.0			
MJL 30 X 80			80	3.13	32.0		28.8			
MJL 30 X 90			90	2.78	36.0		32.4			
MJL 30 X 100			100	2.50	40.0		36.0			
MJL 30 X 125			125	2.00	50.0		45.0			
MJL 30 X 150	150	1.67	60.0	54.0						
MJL 30 X 175	175	1.43	70.0	63.0						



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JIS STANDARD SPRINGS MJL - BLUE COLOUR LIGHT LOAD (SPECIAL SIZE)



Code	OD (MM)	ID (MM)	FREE LENGTH (MM)	SPRING CONSTANT	30 (0.3 MILLION)		50 (0.5 MILLION)		100 (1 MILLION)	
					40% DEFLECTIO N (MM)	LOA D (KGF)	36% DEFLECTIO N (MM)	LOA D (KGF)	32% DEFLECTIO N (MM)	LOA D (KGF)
MJL 35 X 40	35	21	40	6.88	16.0	110	14.4	99	12.8	88
MJL 35 X 45			45	6.11	18.0		16.2		14.4	
MJL 35 X 50			50	5.50	20.0		18.0		16.0	
MJL 35 X 55			55	5.00	22.0		19.8		17.6	
MJL 35 X 60			60	4.58	24.0		21.6		19.2	
MJL 35 X 65			65	4.23	26.0		23.4		20.8	
MJL 35 X 70			70	3.93	28.0		25.2		22.4	
MJL 35 X 75			75	3.67	30.0		27.0		24.0	
MJL 35 X 80			80	3.44	32.0		28.8		25.6	
MJL 35 X 90			90	3.06	36.0		32.4		28.8	
MJL 35 X 100			100	2.75	40.0		36.0		32.0	
MJL 35 X 125			125	2.20	50.0		45.0		40.0	
MJL 35 X 150			150	1.83	60.0		54.0		48.0	
MJL 35 X 175			175	1.57	70.0		63.0		56.0	
MJL 35 X 200			200	1.38	80.0		72.0		64.0	
MJL 40 X 50	40	25.7	50	7.85	20.0	157	18.0	141.3	16.0	125.6
MJL 40 X 60			60	6.54	24.0		21.6		19.2	
MJL 40 X 70			70	5.61	28.0		25.2		22.4	
MJL 40 X 80			80	4.91	32.0		28.8		25.6	
MJL 40 X 90			90	4.36	36.0		32.4		28.8	
MJL 40 X 100			100	3.93	40.0		36.0		32.0	
MJL 40 X 125			125	3.14	50.0		45.0		40.0	
MJL 40 X 150			150	2.62	60.0		54.0		48.0	
MJL 40 X 175			175	2.24	70.0		63.0		56.0	
MJL 40 X 200			200	1.96	80.0		72.0		64.0	
MJL 40 X 250	250	1.57	100.0	90.0	80.0					
MJL 50 X 60	50	31	60	6.13	24.0	147	21.6	132.3	19.2	117.6
MJL 50 X 70			70	5.25	28.0		25.2		22.4	
MJL 50 X 80			80	4.59	32.0		28.8		25.6	
MJL 50 X 90			90	4.08	36.0		32.4		28.8	
MJL 50 X 100			100	3.68	40.0		36.0		32.0	
MJL 50 X 125			125	2.94	50.0		45.0		40.0	
MJL 50 X 150			150	2.45	60.0		54.0		48.0	
MJL 50 X 175			175	2.10	70.0		63.0		56.0	
MJL 50 X 200			200	1.84	80.0		72.0		64.0	
MJL 50 X 250			250	1.47	100.0		90.0		80.0	
MJL 50 X 300	300	1.23	120.0	108.0	96.0					
MJL 60 X 90	60	36	90	7.64	36.0	275	32.4	247.5	28.8	220
MJL 60 X 100			100	6.88	40.0		36.0		32.0	
MJL 60 X 125			125	5.50	50.0		45.0		40.0	
MJL 60 X 150			150	4.58	60.0		54.0		48.0	
MJL 60 X 175			175	3.93	70.0		63.0		56.0	
MJL 60 X 200			200	3.44	80.0		72.0		64.0	
MJL 60 X 250			250	2.75	100.0		90.0		80.0	
MJL 60 X 300			300	2.29	120.0		108.0		96.0	



JIS STANDARD SPRINGS MJM - RED COLOUR MEDIUM LOAD



Code	OD (MM)	ID (MM)	FREE LENGTH (MM)	SPRING CONTANT	30 (0.3 MILLION)		50 (0.5 MILLION)		100 (1 MILLION)						
					32% DEFLECTION (MM)	LOAD (KGF)	29% DEFLECTION (MM)	LOAD (KGF)	26% DEFLECTION (MM)	LOAD (KGF)					
MJM6 X 15	6	3	15	2.08	4.8	10	4.3	9	3.8	8					
MJM6 X 20			20	1.56	6.4		5.8								
MJM6 X 25			25	1.25	8.0		7.2								
MJM6 X 30			30	1.04	9.6		8.6								
MJM6 X 35			35	0.89	11.2		10.1								
MJM6 X 40			40	0.78	12.8		11.5								
MJM6 X 45			45	0.69	14.4		13.0								
MJM6 X 50			50	0.63	16.0		14.4								
MJM6 X 55			55	0.57	17.6		15.8								
MJM6 X 60			60	0.52	19.2		17.3								
MJM6 X 65			65	0.48	20.8		18.72								
MJM6 X 70			70	0.45	22.4		20.16								
MJM8 X 10	8	4	10	4.34	3.2	14	2.9	12.5	2.6	11					
MJM8 X 15			15	2.89	4.8		4.3								
MJM8 X 20			20	2.17	6.4		5.8								
MJM8 X 25			25	1.74	8.0		7.2								
MJM8 X 30			30	1.45	9.6		8.6								
MJM8 X 35			35	1.24	11.2		10.1								
MJM8 X 40			40	1.09	12.8		11.5								
MJM8 X 45			45	0.97	14.4		13.0								
MJM8 X 50			50	0.87	16.0		14.4								
MJM8 X 55			55	0.79	17.6		15.8								
MJM8 X 60			60	0.72	19.2		17.3								
MJM8 X 65			65	0.67	20.8		18.7								
MJM8 X 70			70	0.62	22.4		20.2								
MJM8 X 75			75	0.58	24.0		21.6								
MJM8 X 80			80	0.54	25.6		23.0								
MJM8 X 90			90	0.48	28.8		25.9								
MJM10 X 10			10	5	10		6.21		3.2		20	2.9	18	2.6	16
MJM10 X 15					15		4.09		4.8			4.4			
MJM10 X 20	20	3.13			6.4	5.8									
MJM10 X 25	25	2.50			8.0	7.2									
MJM10 X 30	30	2.08			9.6	8.6									
MJM10 X 35	35	1.78			11.2	10.1									
MJM10 X 40	40	1.56			12.8	11.5									
MJM10 X 45	45	1.38			14.4	13.0									
MJM10 X 50	50	1.25			16.0	14.4									
MJM10 X 55	55	1.13			17.6	15.8									
MJM10 X 60	60	1.04			19.2	17.3									
MJM10 X 65	65	0.96			20.8	18.7									
MJM10 X 70	70	0.89			22.4	20.2									
MJM10 X 75	75	0.83			24.0	21.6									
MJM10 X 80	80	0.78			25.6	23.0									
MJM10 X 90	90	0.70			28.8	25.9									
MJM10 X 100	100	0.63			32.0	28.8									



JIS STANDARD SPRINGS MJM- RED COLOUR MEDIUM LOAD



Code	OD (MM)	ID (MM)	FREE LENGTH (MM)	SPRING CONTANT	30 (0.3 MILLION)		50 (0.5 MILLION)		100 (1 MILLION)	
					32% DEFLECTION (MM)	LOAD (KGF)	29% DEFLECTION (MM)	LOAD (KGF)	26% DEFLECTION (MM)	LOAD (KGF)
MJM 12 X 20	12	6	20	4.53	6.4	29	5.8	26	5.1	23
MJM 12 X 25			25	3.62	8.0		7.2		6.4	
MJM 12 X 30			30	3.02	9.6		8.6		7.7	
MJM 12 X 35			35	2.58	11.2		10.1		9.0	
MJM 12 X 40			40	2.27	12.8		11.5		10.2	
MJM 12 X 45			45	2.01	14.4		13.0		11.5	
MJM 12 X 50			50	1.81	16.0		14.4		12.8	
MJM 12 X 55			55	1.64	17.6		15.8		14.1	
MJM 12 X 60			60	1.51	19.2		17.3		15.4	
MJM 12 X 65			65	1.39	20.8		18.7		16.6	
MJM 12 X 70			70	1.29	22.4		20.2		17.9	
MJM 12 X 75			75	1.20	24.0		21.6		19.2	
MJM 12 X 80			80	1.13	25.6		23.0		20.5	
MJM 12 X 90			90	1.01	28.8		25.9		23.0	
MJM 12 X 100			100	0.91	32.0		28.8		25.6	
MJM 14 X 20	14	7	20	6.03	6.4	39	5.8	35	5.1	31
MJM 14 X 25			25	4.87	8.0		7.2		6.4	
MJM 14 X 30			30	4.06	9.6		8.6		7.7	
MJM 14 X 35			35	3.48	11.2		10.1		9.0	
MJM 14 X 40			40	3.04	12.8		11.5		10.2	
MJM 14 X 45			45	2.70	14.4		13.0		11.5	
MJM 14 X 50			50	2.43	16.0		14.4		12.8	
MJM 14 X 55			55	2.21	17.6		15.8		14.1	
MJM 14 X 60			60	2.03	19.2		17.3		15.4	
MJM 14 X 65			65	1.87	20.8		18.7		16.6	
MJM 14 X 70			70	1.74	22.4		20.2		17.9	
MJM 14 X 75			75	1.62	24.0		21.6		19.2	
MJM 14 X 80			80	1.52	25.6		23.0		20.5	
MJM 14 X 90			90	1.35	28.8		25.9		23.0	
MJM 14 X 100			100	1.22	32.0		28.8		25.6	
MJM 14 X 125	125	0.97	40.0	36.0	32.0					
MJM 16 X 20	16	8	20	7.93	6.4	51	5.8	46	5.1	41
MJM 16 X 25			25	6.39	8.0		7.2		6.4	
MJM 16 X 30			30	5.32	9.6		8.6		7.7	
MJM 16 X 35			35	4.55	11.2		10.1		9.0	
MJM 16 X 40			40	3.98	12.8		11.5		10.2	
MJM 16 X 45			45	3.54	14.4		13.0		11.5	
MJM 16 X 50			50	3.18	16.0		14.4		12.8	
MJM 16 X 55			55	2.89	17.6		15.8		14.1	
MJM 16 X 60			60	2.65	19.2		17.3		15.4	
MJM 16 X 65			65	2.45	20.8		18.7		16.6	
MJM 16 X 70			70	2.27	22.4		20.2		17.9	
MJM 16 X 75			75	2.11	24.0		21.6		19.2	
MJM 16 X 80			80	1.99	25.6		23.0		20.5	
MJM 16 X 90			90	1.77	28.8		25.9		23.0	
MJM 16 X 100			100	1.59	32.0		28.8		25.6	
MJM 16 X 125	125	1.28	40.0	36.0	32.0					



JIS STANDARD SPRINGS MJM- RED COLOUR MEDIUM LOAD



Code	OD (MM)	ID (MM)	FREE LENGTH (MM)	SPRING CONTANT	30 (0.3 MILLION)		50 (0.5 MILLION)		100 (1 MILLION)	
					32% DEFLECTION (MM)	LOAD (KGF)	29% DEFLECTION (MM)	LOAD (KGF)	26% DEFLECTION (MM)	LOAD (KGF)
MJM18 X 20	18	9	20	10.00	6.4	65	5.8	58	5.1	52
MJM18 X 25			25	8.12	8.0		7.2		6.4	
MJM18 X 30			30	6.77	9.6		8.6		7.7	
MJM18 X 35			35	5.80	11.2		10.1		9.0	
MJM18 X 40			40	5.07	12.8		11.5		10.2	
MJM18 X 45			45	4.51	14.4		13.0		11.5	
MJM18 X 50			50	4.06	16.0		14.4		12.8	
MJM18 X 55			55	3.69	17.6		15.8		14.1	
MJM18 X 60			60	3.38	19.2		17.3		15.4	
MJM18 X 65			65	3.12	20.8		18.7		16.6	
MJM18 X 70			70	2.90	22.4		20.2		17.9	
MJM18 X 75			75	2.70	24.0		21.6		19.2	
MJM18 X 80			80	2.53	25.6		23.0		20.5	
MJM18 X 90			90	2.25	28.8		25.9		23.0	
MJM18 X 100			100	2.02	32.0		28.8		25.6	
MJM18 X 125	125	1.62	40.0	36.0	32.0					
MJM20 X 20	20	10	20	12.41	6.4	80	5.8	72	5.1	64
MJM20 X 25			25	10.00	8.0		7.2		6.4	
MJM20 X 30			30	8.33	9.6		8.6		7.7	
MJM20 X 35			35	7.14	11.2		10.1		9.0	
MJM20 X 40			40	6.25	12.8		11.5		10.2	
MJM20 X 45			45	5.55	14.4		13.0		11.5	
MJM20 X 50			50	5.00	16.0		14.4		12.8	
MJM20 X 55			55	4.54	17.6		15.8		14.1	
MJM20 X 60			60	4.16	19.2		17.3		15.4	
MJM20 X 65			65	3.84	20.8		18.7		16.6	
MJM20 X 70			70	3.57	22.4		20.2		17.9	
MJM20 X 75			75	3.33	24.0		21.6		19.2	
MJM20 X 80			80	3.12	25.6		23.0		20.5	
MJM20 X 90			90	2.77	28.8		25.9		23.0	
MJM20 X 100			100	2.50	32.0		28.8		25.6	
MJM20 X 125	125	2.00	40.0	36.0	32.0					
MJM20 X 150	150	1.67	48.0	43.2	38.4					
MJM20 X 175	175	1.43	56.0	50.4	44.8					
MJM22 X 25	22	11	25	12.13	8.0	97	7.2	87	6.4	78
MJM22 X 30			30	10.10	9.6		8.6		7.7	
MJM22 X 35			35	8.65	11.2		10.1		9.0	
MJM22 X 40			40	7.57	12.8		11.5		10.2	
MJM22 X 45			45	6.74	14.4		13.0		11.5	
MJM22 X 50			50	6.06	16.0		14.4		12.8	
MJM22 X 55			55	5.50	17.6		15.8		14.1	
MJM22 X 60			60	5.05	19.2		17.3		15.4	
MJM22 X 65			65	4.66	20.8		18.7		16.6	
MJM22 X 70			70	4.33	22.4		20.2		17.9	
MJM22 X 75			75	4.04	24.0		21.6		19.2	
MJM22 X 80			80	3.78	25.6		23.0		20.5	
MJM22 X 90			90	3.36	28.8		25.9		23.0	
MJM22 X 100			100	3.03	32.0		28.8		25.6	
MJM22 X 125			125	2.42	40.0		36.0		32.0	
MJM22 X 150	150	2.01	48.0	43.2	38.4					
MJM22 X 175	175	1.73	56.0	50.4	44.8					



JIS STANDARD SPRINGS MJM- RED COLOUR MEDIUM LOAD



Code	OD (MM)	ID (MM)	FREE LENGTH (MM)	SPRING CONTANT	30 (0.3 MILLION)		50 (0.5 MILLION)		100 (1 MILLION)						
					32% DEFLECTION (MM)	LOAD (KGF)	29% DEFLECTION (MM)	LOAD (KGF)	26% DEFLECTION (MM)	LOAD (KGF)					
MJM25 X 25	25	12.5	25	15.63	8.0	125	7.2	112	6.4	100					
MJM25 X 30			30	13.02	9.6		8.6		7.7						
MJM25 X 35			35	11.20	11.2		10.1		9.0						
MJM25 X 40			40	9.76	12.8		11.5		10.2						
MJM25 X 45			45	8.68	14.4		13.0		11.5						
MJM25 X 50			50	7.81	16.0		14.4		12.8						
MJM25 X 55			55	7.10	17.6		15.8		14.1						
MJM25 X 60			60	6.51	19.2		17.3		15.4						
MJM25 X 65			65	6.00	20.8		18.7		16.6						
MJM25 X 70			70	5.58	22.4		20.2		17.9						
MJM25 X 75			75	5.21	24.0		21.6		19.2						
MJM25 X 80			80	4.88	25.6		23.0		20.5						
MJM25 X 90			90	4.34	28.8		25.9		23.0						
MJM25 X 100			100	3.90	32.0		28.8		25.6						
MJM25 X 125			125	3.12	40.0		36.0		32.0						
MJM25 X 150			150	2.60	48.0		43.2		38.4						
MJM25 X 175			175	2.23	56.0		50.4		44.8						
MJM25 X 200			200	1.95	64.0		57.6		51.2						
MJM27 X 25			27	13.5	25		18.25		8.0		146	7.2	131	6.4	117
MJM27 X 30					30		15.20		9.6			8.6		7.7	
MJM27 X 35	35	13.04			11.2	10.1	9.0								
MJM27 X 40	40	11.40			12.8	11.5	10.2								
MJM27 X 45	45	10.14			14.4	13.0	11.5								
MJM27 X 50	50	9.12			16.0	14.4	12.8								
MJM27 X 55	55	8.30			17.6	15.8	14.1								
MJM27 X 60	60	7.60			19.2	17.3	15.4								
MJM27 X 65	65	7.00			20.8	18.7	16.6								
MJM27 X 70	70	6.51			22.4	20.2	17.9								
MJM27 X 75	75	6.08			24.0	21.6	19.2								
MJM27 X 80	80	5.70			25.6	23.0	20.5								
MJM27 X 90	90	5.06			28.8	25.9	23.0								
MJM27 X 100	100	4.56			32.0	28.8	25.6								
MJM27 X 125	125	3.65			40.0	36.0	32.0								
MJM27 X 150	150	3.04			48.0	43.2	38.4								
MJM27 X 175	175	2.61			56.0	50.4	44.8								
MJM27 X 200	200	2.28			64.0	57.6	51.2								
MJM30 X 25	30	15			25	22.50	8.0	180	7.2	161		6.4		144	
MJM30 X 30					30	18.75	9.6		8.6			7.7			
MJM30 X 35			35	16.10	11.2	10.1	9.0								
MJM30 X 40			40	14.06	12.8	11.5	10.2								
MJM30 X 45			45	12.50	14.4	13.0	11.5								
MJM30 X 50			50	11.25	16.0	14.4	12.8								
MJM30 X 55			55	10.23	17.6	15.8	14.1								
MJM30 X 60			60	9.37	19.2	17.3	15.4								
MJM30 X 65			65	8.65	20.8	18.7	16.6								
MJM30 X 70			70	8.03	22.4	20.2	17.9								
MJM30 X 75			75	7.50	24.0	21.6	19.2								
MJM30 X 80			80	7.03	25.6	23.0	20.5								
MJM30 X 90			90	6.25	28.8	25.9	23.0								
MJM30 X 100			100	5.62	32.0	28.8	25.6								
MJM30 X 125			125	4.50	40.0	36.0	32.0								
MJM30 X 150			150	3.75	48.0	43.2	38.4								
MJM30 X 175			175	3.21	56.0	50.4	44.8								
MJM30 X 200			200	2.81	64.0	57.6	51.2								



**JIS
STANDARD SPRINGS
MJM- RED COLOUR
MEDIUM LOAD**



Code	OD (MM)	ID (MM)	FREE LENGTH (MM)	SPRING CONTANT	30 (0.3 MILLION)		50 (0.5 MILLION)		100 (1 MILLION)	
					32% DEFLECTION (MM)	LOAD (KGF)	29% DEFLECTION (MM)	LOAD (KGF)	26% DEFLECTION (MM)	LOAD (KGF)
MJM 35 X 35	35	17.5	35	21.87	11.2	245	10.1	220	9.0	195
MJM 35 X 40			40	19.14	12.8		11.5		10.2	
MJM 35 X 45			45	17.01	14.4		13.0		11.5	
MJM 35 X 50			50	15.31	16.0		14.4		12.8	
MJM 35 X 55			55	13.92	17.6		15.8		14.1	
MJM 35 X 60			60	12.76	19.2		17.3		15.4	
MJM 35 X 65			65	11.77	20.8		18.7		16.6	
MJM 35 X 70			70	10.93	22.4		20.2		17.9	
MJM 35 X 75			75	10.20	24.0		21.6		19.2	
MJM 35 X 80			80	9.57	25.6		23.0		20.5	
MJM 35 X 90			90	8.50	28.8		25.9		23.0	
MJM 35 X 100			100	7.65	32.0		28.8		25.6	
MJM 35 X 125			125	6.12	40.0		36.0		32.0	
MJM 35 X 150			150	5.10	48.0		43.2		38.4	
MJM 35 X 175			175	4.37	56.0		50.4		44.8	
MJM 35 X 200			200	3.82	64.0		57.6		51.2	
MJM 40 X 40			40	20	40		25.02		12.8	
MJM 40 X 45	45	22.26			14.4	13.0	11.5			
MJM 40 X 50	50	20.00			16.0	14.4	12.8			
MJM 40 X 55	55	18.15			17.6	15.8	14.1			
MJM 40 X 60	60	16.60			19.2	17.3	15.4			
MJM 40 X 65	65	15.40			20.8	18.7	16.6			
MJM 40 X 70	70	14.28			22.4	20.2	17.9			
MJM 40 X 75	75	13.34			24.0	21.6	19.2			
MJM 40 X 80	80	12.50			25.6	23.0	20.5			
MJM 40 X 90	90	11.11			28.8	25.9	23.0			
MJM 40 X 100	100	10.00			32.0	28.8	25.6			
MJM 40 X 125	125	8.00			40.0	36.0	32.0			
MJM 40 X 150	150	6.66			48.0	43.2	38.4			
MJM 40 X 175	175	5.71			56.0	50.4	44.8			
MJM 40 X 200	200	5.00			64.0	57.6	51.2			
MJM 40 X 225	225	4.44			72.0	64.8	57.6			
MJM 40 X 250	250	4.00			80.0	72.0	64.0			
MJM 40 X 275	275	3.64	88.0	79.2	70.4					
MJM 40 X 300	300	3.33	96.0	86.4	76.8					
MJM 50 X 50	50	25	50	31.25	16.0	500	14.4	450	12.8	400
MJM 50 X 55			55	28.41	17.6		15.8		14.1	
MJM 50 X 60			60	26.04	19.2		17.3		15.4	
MJM 50 X 65			65	24.04	20.8		18.7		16.6	
MJM 50 X 70			70	22.32	22.4		20.2		17.9	
MJM 50 X 75			75	20.83	24.0		21.6		19.2	
MJM 50 X 80			80	19.53	25.6		23.0		20.5	
MJM 50 X 90			90	17.36	28.8		25.9		23.0	
MJM 50 X 100			100	15.62	32.0		28.8		25.6	
MJM 50 X 125			125	12.50	40.0		36.0		32.0	
MJM 50 X 150			150	10.41	48.0		43.2		38.4	
MJM 50 X 175			175	8.92	56.0		50.4		44.8	
MJM 50 X 200			200	7.81	64.0		57.6		51.2	
MJM 50 X 225			225	6.94	72.0		64.8		57.6	
MJM 50 X 250			250	6.25	80.0		72.0		64.0	
MJM 50 X 275			275	5.68	88.0		79.2		70.4	
MJM 50 X 300			300	5.20	96.0		86.4		76.8	
MJM 50 X 350	350	4.46	112.0	100.8	89.6					



**JIS
STANDARD SPRINGS
MJM- RED COLOUR
MEDIUM LOAD**



Code	OD (MM)	ID (MM)	FREE LENGTH (MM)	SPRING CONTANT	30 (0.3 MILLION)		50 (0.5 MILLION)		100 (1 MILLION)	
					32% DEFLECTION (MM)	LOAD (KGF)	29% DEFLECTION (MM)	LOAD (KGF)	26% DEFLECTION (MM)	LOAD (KGF)
MJM 60 X 60	60	30	60	37.40	19.2	720	17.3	648	15.4	575
MJM 60 X 70			70	32.10	22.4		20.2		17.9	
MJM 60 X 80			80	28.12	25.6		23.0		20.5	
MJM 60 X 90			90	25.00	28.8		25.9		23.0	
MJM 60 X 100			100	22.50	32.0		28.8		25.6	
MJM 60 X 125			125	18.00	40.0		36.0		32.0	
MJM 60 X 150			150	15.00	48.0		43.2		38.4	
MJM 60 X 175			175	12.85	56.0		50.4		44.8	
MJM 60 X 200			200	11.25	64.0		57.6		51.2	
MJM 60 X 225			225	10.00	72.0		64.8		57.6	
MJM 60 X 250			250	9.00	80.0		72.0		64.0	
MJM 60 X 275			275	8.18	88.0		79.2		70.4	
MJM 60 X 300			300	7.50	96.0		86.4		76.8	
MJM 60 X 350			350	6.43	112.0		100.8		89.6	
MJM 70 X 70			70	38.5	70		37.90		22.4	
MJM 70 X 80	80	33.20			25.6	23.0	20.5			
MJM 70 X 90	90	29.50			28.8	25.9	23.0			
MJM 70 X 100	100	26.60			32.0	28.8	25.6			
MJM 70 X 125	125	21.30			40.0	36.0	32.0			
MJM 70 X 150	150	17.70			48.0	43.2	38.4			
MJM 70 X 175	175	15.20			56.0	50.4	44.8			
MJM 70 X 200	200	13.30			64.0	57.6	51.2			
MJM 70 X 225	225	11.80			72.0	64.8	57.6			
MJM 70 X 250	250	10.60			80.0	72.0	64.0			
MJM 70 X 275	275	9.70			88.0	79.2	70.4			
MJM 70 X 300	300	8.90			96.0	86.4	76.8			
MJM 70 X 350	350	7.60			112.0	100.8	89.6			



**JIS
STANDARD SPRINGS
MJH- GREEN COLOUR
HEAVY LOAD**



Code	OD (MM)	ID (MM)	FREE LENGTH (MM)	SPRING CONTANT	30 (0.3 MILLION)		50 (0.5 MILLION)		100 (1 MILLION)						
					24% DEFLECTION (MM)	LOAD (KGF)	22% DEFLECTION (MM)	LOAD (KGF)	19% DEFLECTION (MM)	LOAD (KGF)					
MJH 6 X 15	6	3	15	3.90	3.6	14	3.2	13	2.9	11					
MJH 6 X 20			20	2.90	4.8		4.3		3.8						
MJH 6 X 25			25	2.30	6.0		5.4		4.8						
MJH 6 X 30			30	1.90	7.2		6.5		5.8						
MJH 6 X 35			35	1.70	8.4		7.6		6.7						
MJH 6 X 40			40	1.50	9.6		8.6		7.7						
MJH 6 X 45			45	1.30	10.8		9.7		8.6						
MJH 6 X 50			50	1.20	12.0		10.8		9.6						
MJH 6 X 55			55	1.10	13.2		11.9		10.6						
MJH 6 X 60			60	1.00	14.4		13.0		11.5						
MJH 6 X 65			65	0.90	15.6		13.8		12.48						
MJH 6 X 70			70	0.83	16.8		14.9		13.44						
MJH 8 X 10	8	4	10	8.80	2.4	21	2.2	19	1.9	17					
MJH 8 X 15			15	5.86	3.6		3.2		2.9						
MJH 8 X 20			20	4.40	4.8		4.3		3.8						
MJH 8 X 25			25	3.52	6.0		5.4		4.8						
MJH 8 X 30			30	2.93	7.2		6.5		5.8						
MJH 8 X 35			35	2.51	8.4		7.6		6.7						
MJH 8 X 40			40	2.20	9.6		8.6		7.7						
MJH 8 X 45			45	1.95	10.8		9.7		8.6						
MJH 8 X 50			50	1.76	12.0		10.8		9.6						
MJH 8 X 55			55	1.60	13.2		11.9		10.6						
MJH 8 X 60			60	1.47	14.4		13.0		11.5						
MJH 8 X 65			65	1.35	15.6		14.0		12.5						
MJH 8 X 70			70	1.26	16.8		15.1		13.4						
MJH 8 X 75			75	1.17	18.0		16.2		14.4						
MJH 8 X 80			80	1.10	19.2		17.3		15.4						
MJH 8 X 90			90	0.98	21.6		19.4		17.3						
MJH 10 X 10			10	5	10		12.27		2.4		30	2.2	27	1.9	24
MJH 10 X 15					15		8.18		3.6			3.2		2.9	
MJH 10 X 20	20	6.25			4.8	4.3	3.8								
MJH 10 X 25	25	5.00			6.0	5.4	4.8								
MJH 10 X 30	30	4.16			7.2	6.5	5.8								
MJH 10 X 35	35	3.57			8.4	7.6	6.7								
MJH 10 X 40	40	3.15			9.6	8.6	7.7								
MJH 10 X 45	45	2.77			10.8	9.7	8.6								
MJH 10 X 50	50	2.50			12.0	10.8	9.6								
MJH 10 X 55	55	2.27			13.2	11.9	10.6								
MJH 10 X 60	60	2.08			14.4	13.0	11.5								
MJH 10 X 65	65	1.92			15.6	14.0	12.5								
MJH 10 X 70	70	1.79			16.8	15.1	13.4								
MJH 10 X 75	75	1.67			18.0	16.2	14.4								
MJH 10 X 80	80	1.56			19.2	17.3	15.4								
MJH 10 X 90	90	1.39			21.6	19.4	17.3								
MJH 10 X 100	100	1.25			24.0	21.6	19.2								



JIS STANDARD SPRINGS MJH- GREEN COLOUR HEAVY LOAD



Code	OD (MM)	ID (MM)	FREE LENGTH (MM)	SPRING CONTANT	30 (0.3 MILLION)		50 (0.5 MILLION)		100 (1 MILLION)	
					24% DEFLECTION (MM)	LOAD (KGF)	22% DEFLECTION (MM)	LOAD (KGF)	19% DEFLECTION (MM)	LOAD (KGF)
MJH 12 X 20	12	6	20	8.9	4.8	43	4.3	38	3.8	34
MJH 12 X 25			25	7.1	6		5.4		4.8	
MJH 12 X 30			30	5.97	7.2		6.5		5.8	
MJH 12 X 35			35	5.11	8.4		7.6		6.7	
MJH 12 X 40			40	4.47	9.6		8.6		7.7	
MJH 12 X 45			45	3.98	10.8		9.7		8.6	
MJH 12 X 50			50	3.58	12		10.8		9.6	
MJH 12 X 55			55	3.25	13.2		11.9		10.6	
MJH 12 X 60			60	2.98	14.4		13		11.5	
MJH 12 X 65			65	2.74	15.6		14		12.5	
MJH 12 X 70			70	2.54	16.8		15.1		13.4	
MJH 12 X 75			75	2.37	18		16.2		14.4	
MJH 12 X 80			80	2.21	19.2		17.3		15.4	
MJH 12 X 90			90	1.98	21.6		19.4		17.3	
MJH 12 X 100	100	1.78	24	21.6	19.2					
MJH 14 X 20	14	7	20	12.05	4.8	59	4.3	53	3.8	47
MJH 14 X 25			25	9.83	6		5.4		4.8	
MJH 14 X 30			30	8.19	7.2		6.5		5.8	
MJH 14 X 35			35	7.02	8.4		7.6		6.7	
MJH 14 X 40			40	6.14	9.6		8.6		7.7	
MJH 14 X 45			45	5.46	10.8		9.7		8.6	
MJH 14 X 50			50	4.91	12		10.8		9.6	
MJH 14 X 55			55	4.46	13.2		11.9		10.6	
MJH 14 X 60			60	4.09	14.4		13		11.5	
MJH 14 X 65			65	3.78	15.6		14		12.5	
MJH 14 X 70			70	3.51	16.8		15.1		13.4	
MJH 14 X 75			75	3.27	18		16.2		14.4	
MJH 14 X 80			80	3.07	19.2		17.3		15.4	
MJH 14 X 90			90	2.72	21.6		19.4		17.3	
MJH 14 X 100	100	2.46	24	21.6	19.2					
MJH 14 X 125	125	1.97	30	27	24					
MJH 16 X 20	16	8	20	15.68	4.8	77	4.3	69	3.8	62
MJH 16 X 25			25	12.83	6		5.4		4.8	
MJH 16 X 30			30	10.69	7.2		6.5		5.8	
MJH 16 X 35			35	9.16	8.4		7.6		6.7	
MJH 16 X 40			40	8.02	9.6		8.6		7.7	
MJH 16 X 45			45	7.12	10.8		9.7		8.6	
MJH 16 X 50			50	6.41	12		10.8		9.6	
MJH 16 X 55			55	5.83	13.2		11.9		10.6	
MJH 16 X 60			60	5.34	14.4		13		11.5	
MJH 16 X 65			65	4.93	15.6		14		12.5	
MJH 16 X 70			70	4.58	16.8		15.1		13.4	
MJH 16 X 75			75	4.28	18		16.2		14.4	
MJH 16 X 80			80	4.01	19.2		17.3		15.4	
MJH 16 X 90			90	3.57	21.6		19.4		17.3	
MJH 16 X 100	100	3.21	24	21.6	19.2					
MJH 16 X 125	125	2.57	30	27	24					



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JIS STANDARD SPRINGS MJH- GREEN COLOUR HEAVY LOAD



Code	OD (MM)	ID (MM)	FREE LENGTH (MM)	SPRING CONSTANT	30 (0.3 MILLION)		50 (0.5 MILLION)		100 (1 MILLION)	
					24% DEFLECTION (MM)	LOAD (KGF)	22% DEFLECTION (MM)	LOAD (KGF)	19% DEFLECTION (MM)	LOAD (KGF)
MJH18 X 20	18	9	20	19.77	4.8	97	4.4	87	3.7	78
MJH18 X 25			25	16.16	6		5.4		4.8	
MJH18 X 30			30	13.47	7.2		6.5		5.8	
MJH18 X 35			35	11.54	8.4		7.6		6.7	
MJH18 X 40			40	10.1	9.6		8.6		7.7	
MJH18 X 45			45	8.98	10.8		9.7		8.6	
MJH18 X 50			50	8.08	12		10.8		9.6	
MJH18 X 55			55	7.34	13.2		11.9		10.6	
MJH18 X 60			60	6.73	14.4		13		11.5	
MJH18 X 65			65	6.21	15.6		14		12.5	
MJH18 X 70			70	5.77	16.8		15.1		13.4	
MJH18 X 75			75	5.39	18		16.2		14.4	
MJH18 X 80			80	5.05	19.2		17.3		15.4	
MJH18 X 90			90	4.5	21.6		19.4		17.3	
MJH18 X 100			100	4.04	24		21.6		19.2	
MJH18 X 125	125	3.23	30	27	24					
MJH20 X 20	20	10	20	24.55	4.8	120	4.4	108	3.7	96
MJH20 X 25			25	20	6		5.4		4.8	
MJH20 X 30			30	16.66	7.2		6.5		5.8	
MJH20 X 35			35	14.28	8.4		7.6		6.7	
MJH20 X 40			40	12.5	9.6		8.6		7.7	
MJH20 X 45			45	11.11	10.8		9.7		8.6	
MJH20 X 50			50	10	12		10.8		9.6	
MJH20 X 55			55	9.09	13.2		11.9		10.6	
MJH20 X 60			60	8.33	14.4		13		11.5	
MJH20 X 65			65	7.69	15.6		14		12.5	
MJH20 X 70			70	7.14	16.8		15.1		13.4	
MJH20 X 75			75	6.67	18		16.2		14.4	
MJH20 X 80			80	6.25	19.2		17.3		15.4	
MJH20 X 90			90	5.55	21.6		19.4		17.3	
MJH20 X 100			100	5	24		21.6		19.2	
MJH20 X 125	125	4	30	27	24					
MJH20 X 150	150	3.33	36	32.4	28.8					
MJH20 X 175	175	2.86	42	37.8	33.6					
MJH22 X 25	22	11	25	24.16	6	145	5.4	130	4.8	116
MJH22 X 30			30	20.13	7.2		6.5		5.8	
MJH22 X 35			35	17.3	8.4		7.6		6.7	
MJH22 X 40			40	15.1	9.6		8.6		7.7	
MJH22 X 45			45	13.4	10.8		9.7		8.6	
MJH22 X 50			50	12.08	12		10.8		9.6	
MJH22 X 55			55	10.94	13.2		11.9		10.6	
MJH22 X 60			60	10.06	14.4		13		11.5	
MJH22 X 65			65	9.28	15.6		14		12.5	
MJH22 X 70			70	8.63	16.8		15.1		13.4	
MJH22 X 75			75	8.04	18		16.2		14.4	
MJH22 X 80			80	7.55	19.2		17.3		15.4	
MJH22 X 90			90	6.71	21.6		19.4		17.3	
MJH22 X 100			100	6.04	24		21.6		19.2	
MJH22 X 125			125	4.83	30		27		24	
MJH22 X 150	150	4.02	36	32.4	28.8					
MJH22 X 175	175	3.45	42	37.8	33.6					



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JIS STANDARD SPRINGS MJH- GREEN COLOUR HEAVY LOAD



Code	OD (MM)	ID (MM)	FREE LENGTH (MM)	SPRING CONTANT	30 (0.3 MILLION)		50 (0.5 MILLION)		100 (1 MILLION)	
					24% DEFLECTION (MM)	LOAD (KGF)	22% DEFLECTION (MM)	LOAD (KGF)	19% DEFLECTION (MM)	LOAD (KGF)
MJH 25 X 25	25	12.5	25	31.2	6	187	5.4	169	4.8	150
MJH 25 X 30			30	25.97	7.2		6.5		5.8	
MJH 25 X 35			35	22.38	8.4		7.6		6.7	
MJH 25 X 40			40	19.47	9.6		8.6		7.7	
MJH 25 X 45			45	17.4	10.8		9.7		8.6	
MJH 25 X 50			50	15.58	12		10.8		9.6	
MJH 25 X 55			55	14.2	13.2		11.9		10.6	
MJH 25 X 60			60	12.98	14.4		13		11.5	
MJH 25 X 65			65	12	15.6		14		12.5	
MJH 25 X 70			70	11.13	16.8		15.1		13.4	
MJH 25 X 75			75	10.4	18		16.2		14.4	
MJH 25 X 80			80	9.73	19.2		17.3		15.4	
MJH 25 X 90			90	8.65	21.6		19.4		17.3	
MJH 25 X 100			100	7.79	24		21.6		19.2	
MJH 25 X 125			125	6.23	30		27		24	
MJH 25 X 150			150	5.2	36		32.4		28.8	
MJH 25 X 175			175	4.46	42		37.8		33.6	
MJH 25 X 200	200	3.9	48	43.2	38.4					
MJH 27 X 25	27	13.5	25	36.4	6	219	5.4	197	4.8	175
MJH 27 X 30			30	30.41	7.2		6.5		5.8	
MJH 27 X 35			35	26.2	8.4		7.6		6.7	
MJH 27 X 40			40	22.81	9.6		8.6		7.7	
MJH 27 X 45			45	20.3	10.8		9.7		8.6	
MJH 27 X 50			50	18.25	12		10.8		9.6	
MJH 27 X 55			55	16.5	13.2		11.9		10.6	
MJH 27 X 60			60	15.2	14.4		13		11.5	
MJH 27 X 65			65	14	15.6		14		12.5	
MJH 27 X 70			70	13.03	16.8		15.1		13.4	
MJH 27 X 75			75	12.1	18		16.2		14.4	
MJH 27 X 80			80	11.4	19.2		17.3		15.4	
MJH 27 X 90			90	10.13	21.6		19.4		17.3	
MJH 27 X 100			100	9.12	24		21.6		19.2	
MJH 27 X 125			125	7.3	30		27		24	
MJH 27 X 150			150	6.08	36		32.4		28.8	
MJH 27 X 175			175	5.21	42		37.8		33.6	
MJH 27 X 200	200	4.56	48	43.2	38.4					
MJH 30 X 25	30	15	25	45	6	270	5.4	243	4.8	216
MJH 30 X 30			30	37.5	7.2		6.5		5.8	
MJH 30 X 35			35	32.26	8.4		7.6		6.7	
MJH 30 X 40			40	28.12	9.6		8.6		7.7	
MJH 30 X 45			45	25	10.8		9.7		8.6	
MJH 30 X 50			50	22.5	12		10.8		9.6	
MJH 30 X 55			55	20.4	13.2		11.9		10.6	
MJH 30 X 60			60	18.75	14.4		13		11.5	
MJH 30 X 65			65	17.3	15.6		14		12.5	
MJH 30 X 70			70	16.07	16.8		15.1		13.4	
MJH 30 X 75			75	15	18		16.2		14.4	
MJH 30 X 80			80	14.06	19.2		17.3		15.4	
MJH 30 X 90			90	12.05	21.6		19.4		17.3	
MJH 30 X 100			100	11.25	24		21.6		19.2	
MJH 30 X 125			125	9	30		27		24	
MJH 30 X 150			150	7.5	36		32.4		28.8	
MJH 30 X 175			175	6.42	42		37.8		33.6	
MJH 30 X 200	200	5.62	48	43.2	38.4					



JIS STANDARD SPRINGS MJH- GREEN COLOUR HEAVY LOAD



Code	OD (MM)	ID (MM)	FREE LENGTH (MM)	SPRING CONSTANT	30 (0.3 MILLION)		50 (0.5 MILLION)		100 (1 MILLION)	
					24% DEFLECTION (MM)	LOAD (KGF)	22% DEFLECTION (MM)	LOAD (KGF)	19% DEFLECTION (MM)	LOAD (KGF)
MJH 35 X 35	35	17.5	35	43.68	8.4	367	7.6	330	6.7	293
MJH 35 X 40			40	38.22	9.6		8.6		7.7	
MJH 35 X 45			45	33.98	10.8		9.7		8.6	
MJH 35 X 50			50	30.58	12		10.8		9.6	
MJH 35 X 55			55	27.8	13.2		11.9		10.6	
MJH 35 X 60			60	25.48	14.4		13		11.5	
MJH 35 X 65			65	23.53	15.6		14		12.5	
MJH 35 X 70			70	21.84	16.8		15.1		13.4	
MJH 35 X 75			75	20.39	18		16.2		14.4	
MJH 35 X 80			80	19.11	19.2		17.3		15.4	
MJH 35 X 90			90	16.99	21.6		19.4		17.3	
MJH 35 X 100			100	15.29	24		21.6		19.2	
MJH 35 X 125			125	12.23	30		27		24	
MJH 35 X 150			150	10.19	36		32.4		28.8	
MJH 35 X 175			175	8.73	42		37.8		33.6	
MJH 35 X 200			200	7.64	48		43.2		38.4	
MJH 40 X 40	40	20	40	50	9.6	480	8.6	432	7.7	384
MJH 40 X 45			45	44.44	10.8		9.7		8.6	
MJH 40 X 50			50	40	12		10.8		9.6	
MJH 40 X 55			55	36.36	13.2		11.9		10.6	
MJH 40 X 60			60	33.33	14.4		13		11.5	
MJH 40 X 65			65	30.77	15.6		14		12.5	
MJH 40 X 70			70	28.57	16.8		15.1		13.4	
MJH 40 X 75			75	26.67	18		16.2		14.4	
MJH 40 X 80			80	25	19.2		17.3		15.4	
MJH 40 X 90			90	22.22	21.6		19.4		17.3	
MJH 40 X 100			100	20	24		21.6		19.2	
MJH 40 X 125			125	16	30		27		24	
MJH 40 X 150			150	13.33	36		32.4		28.8	
MJH 40 X 175			175	11.42	42		37.8		33.6	
MJH 40 X 200			200	10	48		43.2		38.4	
MJH 40 X 225			225	8.89	54		48.6		43.2	
MJH 40 X 250	250	8	60	54	48					
MJH 40 X 275	275	7.27	66	59.4	52.8					
MJH 40 X 300	300	6.67	72	64.8	57.6					
MJH 50 X 50	50	25	50	62.5	12	750	10.8	675	9.6	600
MJH 50 X 55			55	56.82	13.2		11.9		10.6	
MJH 50 X 60			60	52.08	14.4		13		11.5	
MJH 50 X 65			65	48.08	15.6		14		12.5	
MJH 50 X 70			70	44.64	16.8		15.1		13.4	
MJH 50 X 75			75	41.67	18		16.2		14.4	
MJH 50 X 80			80	39.06	19.2		17.3		15.4	
MJH 50 X 90			90	34.72	21.6		19.4		17.3	
MJH 50 X 100			100	31.25	24		21.6		19.2	
MJH 50 X 125			125	25	30		27		24	
MJH 50 X 150			150	20.83	36		32.4		28.8	
MJH 50 X 175			175	17.85	42		37.8		33.6	
MJH 50 X 200			200	15.62	48		43.2		38.4	
MJH 50 X 225			225	13.89	54		48.6		43.2	
MJH 50 X 250			250	12.5	60		54		48	
MJH 50 X 275			275	11.36	66		59.4		52.8	
MJH 50 X 300	300	10.41	72	64.8	57.6					
MJH 50 X 350	350	8.93	84	75.6	67.2					



JIS STANDARD SPRINGS MJH- GREEN COLOUR HEAVY LOAD



Code	OD (MM)	ID (MM)	FREE LENGTH (MM)	SPRING CONTANT	30 (0.3 MILLION)		50 (0.5 MILLION)		100 (1 MILLION)	
					24% DEFLECTION (MM)	LOAD (KGF)	22% DEFLECTION (MM)	LOAD (KGF)	19% DEFLECTION (MM)	LOAD (KGF)
MJH 35 X 35	35	17.5	35	43.68	8.4	367	7.6	330	6.7	293
MJH 35 X 40			40	38.22	9.6		8.6		7.7	
MJH 35 X 45			45	33.98	10.8		9.7		8.6	
MJH 35 X 50			50	30.58	12		10.8		9.6	
MJH 35 X 55			55	27.8	13.2		11.9		10.6	
MJH 35 X 60			60	25.48	14.4		13		11.5	
MJH 35 X 65			65	23.53	15.6		14		12.5	
MJH 35 X 70			70	21.84	16.8		15.1		13.4	
MJH 35 X 75			75	20.39	18		16.2		14.4	
MJH 35 X 80			80	19.11	19.2		17.3		15.4	
MJH 35 X 90			90	16.99	21.6		19.4		17.3	
MJH 35 X 100			100	15.29	24		21.6		19.2	
MJH 35 X 125			125	12.23	30		27		24	
MJH 35 X 150			150	10.19	36		32.4		28.8	
MJH 35 X 175			175	8.73	42		37.8		33.6	
MJH 35 X 200			200	7.64	48		43.2		38.4	
MJH 40 X 40	40	20	40	50	9.6	480	8.6	432	7.7	384
MJH 40 X 45			45	44.44	10.8		9.7		8.6	
MJH 40 X 50			50	40	12		10.8		9.6	
MJH 40 X 55			55	36.36	13.2		11.9		10.6	
MJH 40 X 60			60	33.33	14.4		13		11.5	
MJH 40 X 65			65	30.77	15.6		14		12.5	
MJH 40 X 70			70	28.57	16.8		15.1		13.4	
MJH 40 X 75			75	26.67	18		16.2		14.4	
MJH 40 X 80			80	25	19.2		17.3		15.4	
MJH 40 X 90			90	22.22	21.6		19.4		17.3	
MJH 40 X 100			100	20	24		21.6		19.2	
MJH 40 X 125			125	16	30		27		24	
MJH 40 X 150			150	13.33	36		32.4		28.8	
MJH 40 X 175			175	11.42	42		37.8		33.6	
MJH 40 X 200			200	10	48		43.2		38.4	
MJH 40 X 225			225	8.89	54		48.6		43.2	
MJH 40 X 250	250	8	60	54	48					
MJH 40 X 275	275	7.27	66	59.4	52.8					
MJH 40 X 300	300	6.67	72	64.8	57.6					
MJH 50 X 50	50	25	50	62.5	12	750	10.8	675	9.6	600
MJH 50 X 55			55	56.82	13.2		11.9		10.6	
MJH 50 X 60			60	52.08	14.4		13		11.5	
MJH 50 X 65			65	48.08	15.6		14		12.5	
MJH 50 X 70			70	44.64	16.8		15.1		13.4	
MJH 50 X 75			75	41.67	18		16.2		14.4	
MJH 50 X 80			80	39.06	19.2		17.3		15.4	
MJH 50 X 90			90	34.72	21.6		19.4		17.3	
MJH 50 X 100			100	31.25	24		21.6		19.2	
MJH 50 X 125			125	25	30		27		24	
MJH 50 X 150			150	20.83	36		32.4		28.8	
MJH 50 X 175			175	17.85	42		37.8		33.6	
MJH 50 X 200			200	15.62	48		43.2		38.4	
MJH 50 X 225			225	13.89	54		48.6		43.2	
MJH 50 X 250			250	12.5	60		54		48	
MJH 50 X 275			275	11.36	66		59.4		52.8	
MJH 50 X 300	300	10.41	72	64.8	57.6					
MJH 50 X 350	350	8.93	84	75.6	67.2					



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JIS STANDARD SPRINGS MJH- GREEN COLOUR HEAVY LOAD



Code	OD (MM)	ID (MM)	FREE LENGTH (MM)	SPRING CONTANT	30 (0.3 MILLION)		50 (0.5 MILLION)		100 (1 MILLION)	
					24% DEFLECTION (MM)	LOAD (KGF)	22% DEFLECTION (MM)	LOAD (KGF)	19% DEFLECTION (MM)	LOAD (KGF)
MJH 60 X 60	60	30	60	75.00	14.4	1080	13.0	973	11.5	864
MJH 60 X 70			70	64.28	16.8		15.1		13.4	
MJH 60 X 80			80	56.25	19.2		17.3		15.4	
MJH 60 X 90			90	50.00	21.6		19.4		17.3	
MJH 60 X 100			100	45.00	24.0		21.6		19.2	
MJH 60 X 125			125	36.0	30.0		27.0		24.0	
MJH 60 X 150			150	30.00	36.0		32.4		28.8	
MJH 60 X 175			175	25.71	42.0		37.8		33.6	
MJH 60 X 200			200	22.50	48.0		43.2		38.4	
MJH 60 X 225			225	20.00	54.0		48.6		43.2	
MJH 60 X 250			250	18.00	60.0		54.0		48.0	
MJH 60 X 275			275	16.36	66.0		59.4		52.8	
MJH 60 X 300			300	15.00	72.0		64.8		57.6	
MJH 60 X 350			350	12.86	84.0		75.6		67.2	
MJH 70 X 70			70	38.5	70		76.2		16.8	
MJH 70 X 80	80	66.7			19.2	17.3	15.4			
MJH 70 X 90	90	59.3			21.6	19.4	17.3			
MJH 70 X 100	100	43.3			24.0	21.6	19.2			
MJH 70 X 125	125	42.7			30.0	27.0	24.0			
MJH 70 X 150	150	35.6			36.0	32.4	28.8			
MJH 70 X 175	175	30.5			42.0	37.8	33.6			
MJH 70 X 200	200	26.7			48.0	43.2	38.4			
MJH 70 X 225	225	23.7			54.0	48.6	43.2			
MJH 70 X 250	250	21.3			60.0	54.0	48.0			
MJH 70 X 275	275	19.4			66.0	59.4	52.8			
MJH 70 X 300	300	17.8			72.0	64.8	57.6			
MJH 70 X 350	350	15.2			84.0	75.6	67.2			



**JIS
STANDARD SPRINGS
MJB- BROWN COLOUR
ULTRA HEAVY LOAD**



Code	OD (MM)	ID (MM)	FREE LENGTH (MM)	SPRING CONTANT	30 (0.3 MILLION)		50 (0.5 MILLION)		100 (1 MILLION)						
					20% DEFLECTION (MM)	LOAD (KGF)	18% DEFLECTION (MM)	LOAD (KGF)	16% DEFLECTION (MM)	LOAD (KGF)					
MJB 6 X 15	6	3	15	6	3	18	2.7	16	2.4	14					
MJB 6 X 20			20	4.5	4		3.6								
MJB 6 X 25			25	3.6	5		4.5								
MJB 6 X 30			30	3	6		5.4								
MJB 6 X 35			35	2.6	7		6.3								
MJB 6 X 40			40	2.3	8		7.2								
MJB 6 X 45			45	2	9		8.1								
MJB 6 X 50			50	1.8	10		9								
MJB 6 X 55			55	1.6	11		9.9								
MJB 6 X 60			60	1.5	12		10.8								
MJB 6 X 65			65	1.38	13		11.7								
MJB 6 X 70			70	1.29	14		12.6								
MJB 8 X 10			8	4	10		16.94		2		35	1.8	31	1.6	26
MJB 8 X 15					15		11.3		3			2.7			
MJB 8 X 20	20	8.47			4	3.6									
MJB 8 X 25	25	6.78			5	4.5									
MJB 8 X 30	30	5.65			6	5.4									
MJB 8 X 35	35	4.84			7	6.3									
MJB 8 X 40	40	4.24			8	7.2									
MJB 8 X 45	45	3.77			9	8.1									
MJB 8 X 50	50	3.39			10	9									
MJB 8 X 55	55	3.08			11	9.9									
MJB 8 X 60	60	2.82			12	10.8									
MJB 8 X 65	65	2.61			13	11.7									
MJB 8 X 70	70	2.42			14	12.6									
MJB 8 X 75	75	2.26			15	13.5									
MJB 8 X 80	80	2.12			16	14.4									
MJB 8 X 90	90	1.88			18	16.2									
MJB 10 X 10	10	5			10	22.78	2	45	1.8	41		1.6		36	
MJB 10 X 15					15	15.19	3		2.7						
MJB 10 X 20			20	11.25	4	3.6									
MJB 10 X 25			25	9	5	4.5									
MJB 10 X 30			30	7.5	6	5.4									
MJB 10 X 35			35	6.43	7	6.3									
MJB 10 X 40			40	5.63	8	7.2									
MJB 10 X 45			45	5	9	8.1									
MJB 10 X 50			50	4.5	10	9									
MJB 10 X 55			55	4.09	11	9.9									
MJB 10 X 60			60	3.75	12	10.8									
MJB 10 X 65			65	3.47	13	11.7									
MJB 10 X 70			70	3.21	14	12.6									
MJB 10 X 75			75	3	15	13.5									
MJB 10 X 80			80	2.82	16	14.4									
MJB 10 X 90			90	2.5	18	16.2									
MJB 10 X 100			100	2.25	20	18									



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ULTRA HEAVY LOAD**



Code	OD (MM)	ID (MM)	FREE LENGTH (MM)	SPRING CONSTANT	30 (0.3 MILLION)		50 (0.5 MILLION)		100 (1 MILLION)	
					20% DEFLECTION (MM)	LOAD (KGF)	18% DEFLECTION (MM)	LOAD (KGF)	16% DEFLECTION (MM)	LOAD (KGF)
MJB 12 X 20	12	6	20	14.50	4.0	58	3.6	52	3.2	46
MJB 12 X 25			25	11.60	5.0		4.5		4.0	
MJB 12 X 30			30	9.67	6.0		5.4		4.8	
MJB 12 X 35			35	8.29	7.0		6.3		5.6	
MJB 12 X 40			40	7.25	8.0		7.2		6.4	
MJB 12 X 45			45	6.44	9.0		8.1		7.2	
MJB 12 X 50			50	5.80	10.0		9.0		8.0	
MJB 12 X 55			55	5.27	11.0		9.9		8.8	
MJB 12 X 60			60	4.83	12.0		10.8		9.6	
MJB 12 X 65			65	4.44	13.0		11.7		10.4	
MJB 12 X 70			70	4.13	14.0		12.6		11.2	
MJB 12 X 75			75	3.85	15.0		13.5		12.0	
MJB 12 X 80			80	3.61	16.0		14.4		12.8	
MJB 12 X 90			90	3.22	18.0		16.2		14.4	
MJB 12 X 100	100	2.90	20.0	18.0	16.0					
MJB 14 X 20	14	7	20	18.89	4.0	75	3.6	68	3.2	60
MJB 14 X 25			25	15.00	5.0		4.5		4.0	
MJB 14 X 30			30	12.50	6.0		5.4		4.8	
MJB 14 X 35			35	10.72	7.0		6.3		5.6	
MJB 14 X 40			40	9.38	8.0		7.2		6.4	
MJB 14 X 45			45	8.34	9.0		8.1		7.2	
MJB 14 X 50			50	7.50	10.0		9.0		8.0	
MJB 14 X 55			55	6.82	11.0		9.9		8.8	
MJB 14 X 60			60	6.25	12.0		10.8		9.6	
MJB 14 X 65			65	5.77	13.0		11.7		10.4	
MJB 14 X 70			70	5.36	14.0		12.6		11.2	
MJB 14 X 75			75	5.00	15.0		13.5		12.0	
MJB 14 X 80			80	4.69	16.0		14.4		12.8	
MJB 14 X 90			90	4.17	18.0		16.2		14.4	
MJB 14 X 100	100	3.75	20.0	18.0	16.0					
MJB 14 X 125	125	3.00	25.0	22.5	20.0					
MJB 16 X 20	16	8	20	25.00	4.0	100	3.6	90	3.2	80
MJB 16 X 25			25	20.00	5.0		4.5		4.0	
MJB 16 X 30			30	16.67	6.0		5.4		4.8	
MJB 16 X 35			35	14.29	7.0		6.3		5.6	
MJB 16 X 40			40	12.50	8.0		7.2		6.4	
MJB 16 X 45			45	11.11	9.0		8.1		7.2	
MJB 16 X 50			50	10.00	10.0		9.0		8.0	
MJB 16 X 55			55	9.09	11.0		9.9		8.8	
MJB 16 X 60			60	8.34	12.0		10.8		9.6	
MJB 16 X 65			65	7.69	13.0		11.7		10.4	
MJB 16 X 70			70	7.14	14.0		12.6		11.2	
MJB 16 X 75			75	6.67	15.0		13.5		12.0	
MJB 16 X 80			80	6.25	16.0		14.4		12.8	
MJB 16 X 90			90	5.56	18.0		16.2		14.4	
MJB 16 X 100	100	5.00	20.0	18.0	16.0					
MJB 16 X 125	125	4.00	25.0	22.5	20.0					



**JIS
STANDARD SPRINGS
MJB- BROWN COLOUR
ULTRA HEAVY LOAD**



Code	OD (MM)	ID (MM)	FREE LENGTH (MM)	SPRING CONSTANT	30 (0.3 MILLION)		50 (0.5 MILLION)		100 (1 MILLION)	
					20% DEFLECTION (MM)	LOAD (KGF)	18% DEFLECTION (MM)	LOAD (KGF)	16% DEFLECTION (MM)	LOAD (KGF)
MJB 18 X 20	18	9	20	31.39	4	125	3.6	113	3.2	100
MJB 18 X 25			25	25	5		4.5		4	
MJB 18 X 30			30	20.84	6		5.4		4.8	
MJB 18 X 35			35	17.86	7		6.3		5.6	
MJB 18 X 40			40	15.63	8		7.2		6.4	
MJB 18 X 45			45	13.89	9		8.1		7.2	
MJB 18 X 50			50	12.5	10		9		8	
MJB 18 X 55			55	11.37	11		9.9		8.8	
MJB 18 X 60			60	10.42	12		10.8		9.6	
MJB 18 X 65			65	9.62	13		11.7		10.4	
MJB 18 X 70			70	8.93	14		12.6		11.2	
MJB 18 X 75			75	8.34	15		13.5		12	
MJB 18 X 80			80	7.82	16		14.4		12.8	
MJB 18 X 90			90	6.95	18		16.2		14.4	
MJB 18 X 100			100	6.26	20		18		16	
MJB 18 X 125	125	5	25	22.5	20					
MJB 20 X 20	20	10	20	40	4	160	3.6	144	3.2	128
MJB 20 X 25			25	32	5		4.5		4	
MJB 20 X 30			30	26.67	6		5.4		4.8	
MJB 20 X 35			35	22.86	7		6.3		5.6	
MJB 20 X 40			40	20	8		7.2		6.4	
MJB 20 X 45			45	17.78	9		8.1		7.2	
MJB 20 X 50			50	16	10		9		8	
MJB 20 X 55			55	14.55	11		9.9		8.8	
MJB 20 X 60			60	13.33	12		10.8		9.6	
MJB 20 X 65			65	12.31	13		11.7		10.4	
MJB 20 X 70			70	11.43	14		12.6		11.2	
MJB 20 X 75			75	10.67	15		13.5		12	
MJB 20 X 80			80	10	16		14.4		12.8	
MJB 20 X 90			90	8.89	18		16.2		14.4	
MJB 20 X 100			100	8	20		18		16	
MJB 20 X 125	125	6.4	25	22.5	20					
MJB 20 X 150	150	5.33	30	27	24					
MJB 20 X 175	175	4.57	35	31.5	28					
MJB 22 X 25	22	11	25	39	5	195	4.5	176	4	156
MJB 22 X 30			30	32.5	6		5.4		4.8	
MJB 22 X 35			35	27.86	7		6.3		5.6	
MJB 22 X 40			40	24.38	8		7.2		6.4	
MJB 22 X 45			45	21.67	9		8.1		7.2	
MJB 22 X 50			50	19.5	10		9		8	
MJB 22 X 55			55	17.73	11		9.9		8.8	
MJB 22 X 60			60	16.25	12		10.8		9.6	
MJB 22 X 65			65	15	13		11.7		10.4	
MJB 22 X 70			70	13.93	14		12.6		11.2	
MJB 22 X 75			75	13	15		13.5		12	
MJB 22 X 80			80	12.19	16		14.4		12.8	
MJB 22 X 90			90	10.83	18		16.2		14.4	
MJB 22 X 100			100	9.75	20		18		16	
MJB 22 X 125			125	7.8	25		22.5		20	
MJB 22 X 150	150	6.5	30	27	24					
MJB 22 X 175	175	5.57	35	31.5	28					



**JIS
STANDARD SPRINGS
MJB- BROWN COLOUR
ULTRA HEAVY LOAD**



Code	OD (MM)	ID (MM)	FREE LENGTH (MM)	SPRING CONSTANT	30 (0.3 MILLION)		50 (0.5 MILLION)		100 (1 MILLION)	
					20% DEFLECTION (MM)	LOAD (KGF)	18% DEFLECTION (MM)	LOAD (KGF)	16% DEFLECTION (MM)	LOAD (KGF)
MJB 18 X 20	18	9	20	31.39	4	125	3.6	113	3.2	100
MJB 18 X 25			25	25	5		4.5		4	
MJB 18 X 30			30	20.84	6		5.4		4.8	
MJB 18 X 35			35	17.86	7		6.3		5.6	
MJB 18 X 40			40	15.63	8		7.2		6.4	
MJB 18 X 45			45	13.89	9		8.1		7.2	
MJB 18 X 50			50	12.5	10		9		8	
MJB 18 X 55			55	11.37	11		9.9		8.8	
MJB 18 X 60			60	10.42	12		10.8		9.6	
MJB 18 X 65			65	9.62	13		11.7		10.4	
MJB 18 X 70			70	8.93	14		12.6		11.2	
MJB 18 X 75			75	8.34	15		13.5		12	
MJB 18 X 80			80	7.82	16		14.4		12.8	
MJB 18 X 90			90	6.95	18		16.2		14.4	
MJB 18 X 100			100	6.26	20		18		16	
MJB 18 X 125	125	5	25	22.5	20					
MJB 20 X 20	20	10	20	40	4	160	3.6	144	3.2	128
MJB 20 X 25			25	32	5		4.5		4	
MJB 20 X 30			30	26.67	6		5.4		4.8	
MJB 20 X 35			35	22.86	7		6.3		5.6	
MJB 20 X 40			40	20	8		7.2		6.4	
MJB 20 X 45			45	17.78	9		8.1		7.2	
MJB 20 X 50			50	16	10		9		8	
MJB 20 X 55			55	14.55	11		9.9		8.8	
MJB 20 X 60			60	13.33	12		10.8		9.6	
MJB 20 X 65			65	12.31	13		11.7		10.4	
MJB 20 X 70			70	11.43	14		12.6		11.2	
MJB 20 X 75			75	10.67	15		13.5		12	
MJB 20 X 80			80	10	16		14.4		12.8	
MJB 20 X 90			90	8.89	18		16.2		14.4	
MJB 20 X 100			100	8	20		18		16	
MJB 20 X 125	125	6.4	25	22.5	20					
MJB 20 X 150	150	5.33	30	27	24					
MJB 20 X 175	175	4.57	35	31.5	28					
MJB 22 X 25	22	11	25	39	5	195	4.5	176	4	156
MJB 22 X 30			30	32.5	6		5.4		4.8	
MJB 22 X 35			35	27.86	7		6.3		5.6	
MJB 22 X 40			40	24.38	8		7.2		6.4	
MJB 22 X 45			45	21.67	9		8.1		7.2	
MJB 22 X 50			50	19.5	10		9		8	
MJB 22 X 55			55	17.73	11		9.9		8.8	
MJB 22 X 60			60	16.25	12		10.8		9.6	
MJB 22 X 65			65	15	13		11.7		10.4	
MJB 22 X 70			70	13.93	14		12.6		11.2	
MJB 22 X 75			75	13	15		13.5		12	
MJB 22 X 80			80	12.19	16		14.4		12.8	
MJB 22 X 90			90	10.83	18		16.2		14.4	
MJB 22 X 100			100	9.75	20		18		16	
MJB 22 X 125			125	7.8	25		22.5		20	
MJB 22 X 150	150	6.5	30	27	24					
MJB 22 X 175	175	5.57	35	31.5	28					



**JIS
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MJB - BROWN COLOUR
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Code	OD (MM)	ID (MM)	FREE LENGTH (MM)	SPRING CONTANT	30 (0.3 MILLION)		50 (0.5 MILLION)		100 (1 MILLION)	
					20% DEFLECTION (MM)	LOAD (KGF)	18% DEFLECTION (MM)	LOAD (KGF)	16% DEFLECTION (MM)	LOAD (KGF)
MJB 25 X 25	25	12.5	25	49	5	245	4.5	221	4	196
MJB 25 X 30			30	40.8	6		5.4		4.8	
MJB 25 X 35			35	35	7		6.3		5.6	
MJB 25 X 40			40	30.6	8		7.2		6.4	
MJB 25 X 45			45	27.2	9		8.1		7.2	
MJB 25 X 50			50	24.5	10		9		8	
MJB 25 X 55			55	22.3	11		9.9		8.8	
MJB 25 X 60			60	20.4	12		10.8		9.6	
MJB 25 X 65			65	18.8	13		11.7		10.4	
MJB 25 X 70			70	17.5	14		12.6		11.2	
MJB 25 X 75			75	16.3	15		13.5		12	
MJB 25 X 80			80	15.3	16		14.4		12.8	
MJB 25 X 90			90	13.6	18		16.2		14.4	
MJB 25 X 100			100	12.3	20		18		16	
MJB 25 X 125			125	9.8	25		22.5		20	
MJB 25 X 150			150	8.17	30		27		24	
MJB 25 X 175	175	7	35	31.5	28					
MJB 25 X 200	200	6.13	40	36	32					
MJB 27 X 25	27	13.5	25	58	5	290	4.5	261	4	232
MJB 27 X 30			30	48.33	6		5.4		4.8	
MJB 27 X 35			35	41.43	7		6.3		5.6	
MJB 27 X 40			40	36.25	8		7.2		6.4	
MJB 27 X 45			45	32.22	9		8.1		7.2	
MJB 27 X 50			50	29	10		9		8	
MJB 27 X 55			55	26.36	11		9.9		8.8	
MJB 27 X 60			60	24.17	12		10.8		9.6	
MJB 27 X 65			65	22.31	13		11.7		10.4	
MJB 27 X 70			70	20.71	14		12.6		11.2	
MJB 27 X 75			75	19.33	15		13.5		12	
MJB 27 X 80			80	18.13	16		14.4		12.8	
MJB 27 X 90			90	16.11	18		16.2		14.4	
MJB 27 X 100			100	14.5	20		18		16	
MJB 27 X 125			125	11.6	25		22.5		20	
MJB 27 X 150			150	9.67	30		27		24	
MJB 27 X 175	175	8.28	35	31.5	28					
MJB 27 X 200	200	7.25	40	36	32					
MJB 30 X 25	30	15	25	72	5	360	4.5	324	4	288
MJB 30 X 30			30	60	6		5.4		4.8	
MJB 30 X 35			35	51.43	7		6.3		5.6	
MJB 30 X 40			40	45	8		7.2		6.4	
MJB 30 X 45			45	40	9		8.1		7.2	
MJB 30 X 50			50	36	10		9		8	
MJB 30 X 55			55	32.72	11		9.9		8.8	
MJB 30 X 60			60	30	12		10.8		9.6	
MJB 30 X 65			65	27.69	13		11.7		10.4	
MJB 30 X 70			70	25.71	14		12.6		11.2	
MJB 30 X 75			75	24	15		13.5		12	
MJB 30 X 80			80	22.5	16		14.4		12.8	
MJB 30 X 90			90	20	18		16.2		14.4	
MJB 30 X 100			100	18	20		18		16	
MJB 30 X 125			125	14.4	25		22.5		20	
MJB 30 X 150			150	12	30		27		24	
MJB 30 X 175	175	10.28	35	31.5	28					
MJB 30 X 200	200	9	40	36	32					



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Code	OD (MM)	ID (MM)	FREE LENGTH (MM)	SPRING CONTANT	30 (0.3 MILLION)		50 (0.5 MILLION)		100 (1 MILLION)	
					20% DEFLECTION (MM)	LOAD (KGF)	18% DEFLECTION (MM)	LOAD (KGF)	16% DEFLECTION (MM)	LOAD (KGF)
MJB 35 X 35	35	17.5	35	69.94	7	490	6.3	441	5.6	392
MJB 35 X 40			40	61.25	8		7.2		6.4	
MJB 35 X 45			45	54.44	9		8.1		7.2	
MJB 35 X 50			50	49	10		9		8	
MJB 35 X 55			55	44.54	11		9.9		8.8	
MJB 35 X 60			60	40.83	12		10.8		9.6	
MJB 35 X 65			65	37.69	13		11.7		10.4	
MJB 35 X 70			70	35	14		12.6		11.2	
MJB 35 X 75			75	32.67	15		13.5		12	
MJB 35 X 80			80	30.62	16		14.4		12.8	
MJB 35 X 90			90	27.22	18		16.2		14.4	
MJB 35 X 100			100	24.5	20		18		16	
MJB 35 X 125			125	19.6	25		22.5		20	
MJB 35 X 150			150	16.33	30		27		24	
MJB 35 X 175			175	14	35		31.5		28	
MJB 35 X 200	200	12.25	40	36	32					
MJB 40 X 40	40	20	40	80	8	640	7.2	576	6.4	512
MJB 40 X 45			45	71.11	9		8.1		7.2	
MJB 40 X 50			50	64	10		9		8	
MJB 40 X 55			55	58.18	11		9.9		8.8	
MJB 40 X 60			60	53.33	12		10.8		9.6	
MJB 40 X 65			65	49.23	13		11.7		10.4	
MJB 40 X 70			70	45.71	14		12.6		11.2	
MJB 40 X 75			75	42.67	15		13.5		12	
MJB 40 X 80			80	40	16		14.4		12.8	
MJB 40 X 90			90	35.55	18		16.2		14.4	
MJB 40 X 100			100	32	20		18		16	
MJB 40 X 125			125	25.6	25		22.5		20	
MJB 40 X 150			150	21.33	30		27		24	
MJB 40 X 175			175	18.28	35		31.5		28	
MJB 40 X 200			200	16	40		36		32	
MJB 40 X 225	225	14.22	45	40.5	36					
MJB 40 X 250	250	12.8	50	45	40					
MJB 40 X 275	275	11.64	55	49.5	44					
MJB 40 X 300	300	10.67	60	54	48					
MJB 50 X 50	50	25	50	100	10	1000	9	900	8	800
MJB 50 X 55			55	90.91	11		9.9		8.8	
MJB 50 X 60			60	83.33	12		10.8		9.6	
MJB 50 X 65			65	76.92	13		11.7		10.4	
MJB 50 X 70			70	71.42	14		12.6		11.2	
MJB 50 X 75			75	66.67	15		13.5		12	
MJB 50 X 80			80	62.5	16		14.4		12.8	
MJB 50 X 90			90	55.55	18		16.2		14.4	
MJB 50 X 100			100	50	20		18		16	
MJB 50 X 125			125	40	25		22.5		20	
MJB 50 X 150			150	33.33	30		27		24	
MJB 50 X 175			175	28.57	35		31.5		28	
MJB 50 X 200			200	25	40		36		32	
MJB 50 X 225			225	22.22	45		40.5		36	
MJB 50 X 250			250	20	50		45		40	
MJB 50 X 275	275	18.18	55	49.5	44					
MJB 50 X 300	300	16.66	60	54	48					
MJB 50 X 350	350	14.29	70	63	56					



**JIS
STANDARD SPRINGS
MJB - BROWN COLOUR
ULTRA HEAVY LOAD**



Code	OD (MM)	ID (MM)	FREE LENGTH (MM)	SPRING CONSTANT	30 (0.3 MILLION)		50 (0.5 MILLION)		100 (1 MILLION)	
					20% DEFLECTION (MM)	LOAD (KGF)	18% DEFLECTION (MM)	LOAD (KGF)	16% DEFLECTION (MM)	LOAD (KGF)
MJB 60 X 60	60	30	60	120	12	1440	10.8	1296	9.6	1157
MJB 60 X 70			70	102.86	14		12.6		11.2	
MJB 60 X 80			80	90	16		14.4		12.8	
MJB 60 X 90			90	80	18		16.2		14.4	
MJB 60 X 100			100	72	20		18		16	
MJB 60 X 125			125	57.6	25		22.5		20	
MJB 60 X 150			150	48	30		27		24	
MJB 60 X 175			175	41.14	35		31.5		28	
MJB 60 X 200			200	36	40		36		32	
MJB 60 X 225			225	32	45		40.5		36	
MJB 60 X 250			250	28.8	50		45		40	
MJB 60 X 275			275	26.18	55		49.5		44	
MJB 60 X 300			300	24	60		54		48	
MJB 60 X 350			350	20.57	70		63		56	
MJB 70 X 70			70	38.5	70		124.3		14	
MJB 70 X 80	80	108.8			16	14.4	12.8			
MJB 70 X 90	90	96.7			18	16.2	14.4			
MJB 70 X 100	100	87			20	18	16			
MJB 70 X 125	125	69.6			25	22.5	20			
MJB 70 X 150	150	58			30	27	24			
MJB 70 X 175	175	49.7			35	31.5	28			
MJB 70 X 200	200	43.5			40	36	32			
MJB 70 X 225	225	38.7			45	40.5	36			
MJB 70 X 250	250	34.8			50	45	40			
MJB 70 X 275	275	31.6			55	49.5	44			
MJB 70 X 300	300	29			60	54	48			
MJB 70 X 350	350	24.9			70	63	56			



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**JIS
STANDARD SPRINGS
MJG- GRAY COLOUR
HYPER HEAVY LOAD**



Code	OD (MM)	ID (MM)	FREE LENGTH (MM)	SPRING CONSTANT	30 (0.3 MILLION)		50 (0.5 MILLION)		100 (1 MILLION)	
					20% DEFLECTION (MM)	LOAD (KGF)	18% DEFLECTION (MM)	LOAD (KGF)	16% DEFLECTION (MM)	LOAD (KGF)
MJG 10 X 15	10	5	15	16.67	3	50	2.7	45	2.4	40
MJG 10 X 20			20	12.5	4		3.6		3.2	
MJG 10 X 25			25	10	5		4.5		4	
MJG 10 X 30			30	8.33	6		5.4		4.8	
MJG 10 X 35			35	7.14	7		6.3		5.6	
MJG 10 X 40			40	6.25	8		7.2		6.4	
MJG 10 X 45			45	5.56	9		8.1		7.2	
MJG 10 X 50			50	5	10		9		8	
MJG 10 X 55			55	4.55	11		9.9		8.8	
MJG 10 X 60			60	4.17	12		10.8		9.6	
MJG 10 X 65			65	3.85	13		11.7		10.4	
MJG 10 X 70			70	3.57	14		12.6		11.2	
MJG 10 X 75			75	3.33	15		13.5		12	
MJG 10 X 80			80	3.13	16		14.4		12.8	
MJG 10 X 90			90	2.78	18		16.2		14.4	
MJG 10 X 100	100	2.5	20	18	16					
MJG 12 X 15	12	6	15	25	3	75	2.7	67	2.4	60
MJG 12 X 20			20	18.75	4		3.6		3.2	
MJG 12 X 25			25	15	5		4.5		4	
MJG 12 X 30			30	12.5	6		5.4		4.8	
MJG 12 X 35			35	10.71	7		6.3		5.6	
MJG 12 X 40			40	9.38	8		7.2		6.4	
MJG 12 X 45			45	8.33	9		8.1		7.2	
MJG 12 X 50			50	7.5	10		9		8	
MJG 12 X 55			55	6.82	11		9.9		8.8	
MJG 12 X 60			60	6.25	12		10.8		9.6	
MJG 12 X 65			65	5.77	13		11.7		10.4	
MJG 12 X 70			70	5.36	14		12.6		11.2	
MJG 12 X 75			75	5	15		13.5		12	
MJG 12 X 80			80	4.69	16		14.4		12.8	
MJG 12 X 90			90	4.17	18		16.2		14.4	
MJG 12 X 100	100	3.75	20	18	16					
MJG 14 X 20	14	7	20	24.25	4	97	3.6	97	3.2	77
MJG 14 X 25			25	19.4	5		4.5		4	
MJG 14 X 30			30	16.17	6		5.4		4.8	
MJG 14 X 35			35	13.86	7		6.3		5.6	
MJG 14 X 40			40	12.13	8		7.2		6.4	
MJG 14 X 45			45	10.78	9		8.1		7.2	
MJG 14 X 50			50	9.7	10		9		8	
MJG 14 X 55			55	8.82	11		9.9		8.8	
MJG 14 X 60			60	8.08	12		10.8		9.6	
MJG 14 X 65			65	7.46	13		11.7		10.4	
MJG 14 X 70			70	6.93	14		12.6		11.2	
MJG 14 X 75			75	6.47	15		13.5		12	
MJG 14 X 80			80	6.06	16		14.4		12.8	
MJG 14 X 90			90	5.39	18		16.2		14.4	
MJG 14 X 100			100	4.85	20		18		16	



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**JIS
STANDARD SPRINGS
MJG - GRAY COLOUR
HYPER HEAVY LOAD**



Code	OD (MM)	ID (MM)	FREE LENGTH (MM)	SPRING CONTANT	30 (0.3 MILLION)		50 (0.5 MILLION)		100 (1 MILLION)	
					20% DEFLECTION (MM)	LOAD (KGF)	18% DEFLECTION (MM)	LOAD (KGF)	16% DEFLECTION (MM)	LOAD (KGF)
MJG 16 X 20	16	8	20	32.25	4	129	3.6	116	3.2	103
MJG 16 X 25			25	25.8	5		4.5		4	
MJG 16 X 30			30	21.5	6		5.4		4.8	
MJG 16 X 35			35	18.43	7		6.3		5.6	
MJG 16 X 40			40	16.13	8		7.2		6.4	
MJG 16 X 45			45	14.33	9		8.1		7.2	
MJG 16 X 50			50	12.9	10		9		8	
MJG 16 X 55			55	11.73	11		9.9		8.8	
MJG 16 X 60			60	10.75	12		10.8		9.6	
MJG 16 X 65			65	9.92	13		11.7		10.4	
MJG 16 X 70			70	9.21	14		12.6		11.2	
MJG 16 X 75			75	8.6	15		13.5		12	
MJG 16 X 80			80	8.06	16		14.4		12.8	
MJG 16 X 90			90	7.17	18		16.2		14.4	
MJG 16 X 100			100	6.45	20		18		16	
MJG 18 X 20			18	9	20		40.25		4	
MJG 18 X 25	25	32.2			5	4.5	4			
MJG 18 X 30	30	26.83			6	5.4	4.8			
MJG 18 X 35	35	23			7	6.3	5.6			
MJG 18 X 40	40	20.13			8	7.2	6.4			
MJG 18 X 45	45	17.89			9	8.1	7.2			
MJG 18 X 50	50	16.1			10	9	8			
MJG 18 X 55	55	14.64			11	9.9	8.8			
MJG 18 X 60	60	13.42			12	10.8	9.6			
MJG 18 X 65	65	12.38			13	11.7	10.4			
MJG 18 X 70	70	11.5			14	12.6	11.2			
MJG 18 X 75	75	10.73			15	13.5	12			
MJG 18 X 80	80	10.06			16	14.4	12.8			
MJG 18 X 90	90	8.94			18	16.2	14.4			
MJG 18 X 100	100	8.05			20	18	16			
MJG 18 X 125	125	6.44			25	22.5	20			
MJG 20 X 20	20	10	20	51.5	4	206	3.6	185	3.2	165
MJG 20 X 25			25	41.2	5		4.5		4	
MJG 20 X 30			30	34.33	6		5.4		4.8	
MJG 20 X 35			35	29.43	7		6.3		5.6	
MJG 20 X 40			40	25.75	8		7.2		6.4	
MJG 20 X 45			45	22.89	9		8.1		7.2	
MJG 20 X 50			50	20.6	10		9		8	
MJG 20 X 55			55	18.73	11		9.9		8.8	
MJG 20 X 60			60	17.17	12		10.8		9.6	
MJG 20 X 65			65	15.85	13		11.7		10.4	
MJG 20 X 70			70	14.71	14		12.6		11.2	
MJG 20 X 75			75	13.73	15		13.5		12	
MJG 20 X 80			80	12.88	16		14.4		12.8	
MJG 20 X 90			90	11.44	18		16.2		14.4	
MJG 20 X 100			100	10.3	20		18		16	
MJG 20 X 125			125	8.24	25		22.5		20	



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**JIS
STANDARD SPRINGS
MJG- GRAY COLOUR
HYPER HEAVY LOAD**



Code	OD (MM)	ID (MM)	FREE LENGTH (MM)	SPRING CONTANT	30 (0.3 MILLION)		50 (0.5 MILLION)		100 (1 MILLION)	
					20% DEFLECTION (MM)	LOAD (KGF)	18% DEFLECTION (MM)	LOAD (KGF)	16% DEFLECTION (MM)	LOAD (KGF)
MJG 22 X 20	22	11	20	62.75	4	251	3.6	226	3.2	201
MJG 22 X 25			25	50.2	5		4.5		4	
MJG 22 X 30			30	41.83	6		5.4		4.8	
MJG 22 X 35			35	35.86	7		6.3		5.6	
MJG 22 X 40			40	31.38	8		7.2		6.4	
MJG 22 X 45			45	27.89	9		8.1		7.2	
MJG 22 X 50			50	25.1	10		9		8	
MJG 22 X 55			55	22.82	11		9.9		8.8	
MJG 22 X 60			60	20.92	12		10.8		9.6	
MJG 22 X 65			65	19.31	13		11.7		10.4	
MJG 22 X 70			70	17.93	14		12.6		11.2	
MJG 22 X 75			75	16.73	15		13.5		12	
MJG 22 X 80			80	15.69	16		14.4		12.8	
MJG 22 X 90			90	13.94	18		16.2		14.4	
MJG 22 X 100			100	12.55	20		18		16	
MJG 22 X 125	125	10.06	25	22.5	20					
MJG 25 X 20	25	12.5	20	78.75	4	315	3.6	284	3.2	252
MJG 25 X 25			25	63	5		4.5		4	
MJG 25 X 30			30	52.5	6		5.4		4.8	
MJG 25 X 35			35	45	7		6.3		5.6	
MJG 25 X 40			40	39.38	8		7.2		6.4	
MJG 25 X 45			45	35	9		8.1		7.2	
MJG 25 X 50			50	31.5	10		9		8	
MJG 25 X 55			55	28.64	11		9.9		8.8	
MJG 25 X 60			60	26.25	12		10.8		9.6	
MJG 25 X 65			65	24.23	13		11.7		10.4	
MJG 25 X 70			70	22.5	14		12.6		11.2	
MJG 25 X 75			75	21	15		13.5		12	
MJG 25 X 80			80	19.69	16		14.4		12.8	
MJG 25 X 90			90	17.15	18		16.2		14.4	
MJG 25 X 100			100	15.75	20		18		16	
MJG 25 X 125	125	12.6	25	22.5	20					
MJG 25 X 150	150	10.5	30	27	24					
MJG 27 X 20	27	13.5	20	93.25	4	373	3.6	336	3.2	299
MJG 27 X 25			25	74.6	5		4.5		4	
MJG 27 X 30			30	62.17	6		5.4		4.8	
MJG 27 X 35			35	53.29	7		6.3		5.6	
MJG 27 X 40			40	46.63	8		7.2		6.4	
MJG 27 X 45			45	41.44	9		8.1		7.2	
MJG 27 X 50			50	37.3	10		9		8	
MJG 27 X 55			55	33.91	11		9.9		8.8	
MJG 27 X 60			60	31.08	12		10.8		9.6	
MJG 27 X 65			65	28.69	13		11.7		10.4	
MJG 27 X 70			70	26.64	14		12.6		11.2	
MJG 27 X 75			75	24.87	15		13.5		12	
MJG 27 X 80			80	23.31	16		14.4		12.8	
MJG 27 X 90			90	20.72	18		16.2		14.4	
MJG 27 X 100			100	18.65	20		18		16	
MJG 27 X 125	125	14.92	25	22.5	20					
MJG 27 X 150	150	12.43	30	27	24					



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**JIS
STANDARD SPRINGS
MJG- GRAY COLOUR
HYPER HEAVY LOAD**



Code	OD (MM)	ID (MM)	FREE LENGTH (MM)	SPRING CONTANT	30 (0.3 MILLION)		50 (0.5 MILLION)		100 (1 MILLION)						
					20% DEFLECTION (MM)	LOAD (KGF)	18% DEFLECTION (MM)	LOAD (KGF)	16% DEFLECTION (MM)	LOAD (KGF)					
MJG 30 X 20	30	15	20	116	4	464	3.6	417	3.2	371					
MJG 30 X 25			25	92.8	5		4.5		4						
MJG 30 X 30			30	77.33	6		5.4		4.8						
MJG 30 X 35			35	66.29	7		6.3		5.6						
MJG 30 X 40			40	58	8		7.2		6.4						
MJG 30 X 45			45	51.56	9		8.1		7.2						
MJG 30 X 50			50	46.4	10		9		8						
MJG 30 X 55			55	42.18	11		9.9		8.8						
MJG 30 X 60			60	38.67	12		10.8		9.6						
MJG 30 X 65			65	35.69	13		11.7		10.4						
MJG 30 X 70			70	33.14	14		12.6		11.2						
MJG 30 X 75			75	30.93	15		13.5		12						
MJG 30 X 80			80	29	16		14.4		12.8						
MJG 30 X 90			90	25.78	18		16.2		14.4						
MJG 30 X 100			100	23.2	20		18		16						
MJG 30 X 125			125	18.56	25		22.5		20						
MJG 30 X 150			150	15.47	30		27		24						
MJG 30 X 175			175	13.26	35		31.5		28						
MJG 30 X 200			200	11.6	40		36		32						
MJG 35 X 30			35	17.5	30		105.17		6		631	5.4	568	4.8	505
MJG 35 X 35	35	90.14			7	6.3	5.6								
MJG 35 X 40	40	78.88			8	7.2	6.4								
MJG 35 X 45	45	70.11			9	8.1	7.2								
MJG 35 X 50	50	63.1			10	9	8								
MJG 35 X 55	55	57.36			11	9.9	8.8								
MJG 35 X 60	60	52.58			12	10.8	9.6								
MJG 35 X 65	65	48.54			13	11.7	10.4								
MJG 35 X 70	70	45.07			14	12.6	11.2								
MJG 35 X 75	75	42.07			15	13.5	12								
MJG 35 X 80	80	39.44			16	14.4	12.8								
MJG 35 X 90	90	35.06			18	16.2	14.4								
MJG 35 X 100	100	31.55			20	18	16								
MJG 35 X 125	125	25.24			25	22.5	20								
MJG 35 X 150	150	21.03			30	27	24								
MJG 35 X 175	175	18.03			35	31.5	28								
MJG 35 X 200	200	15.78			40	36	32								
MJG 40 X 35	40	20			35	117.71	7	824	6.3	742		5.6		659	
MJG 40 X 40					40	103	8		7.2			6.4			
MJG 40 X 45					45	91.56	9		8.1			7.2			
MJG 40 X 50			50	82.4	10	9	8								
MJG 40 X 55			55	74.91	11	9.9	8.8								
MJG 40 X 60			60	68.67	12	10.8	9.6								
MJG 40 X 65			65	63.38	13	11.7	10.4								
MJG 40 X 70			70	58.86	14	12.6	11.2								
MJG 40 X 75			75	54.93	15	13.5	12								
MJG 40 X 80			80	51.5	16	14.4	12.8								
MJG 40 X 90			90	45.78	18	16.2	14.4								
MJG 40 X 100			100	41.2	20	18	16								
MJG 40 X 125			125	32.96	25	22.5	20								
MJG 40 X 150			150	27.47	30	27	24								
MJG 40 X 175			175	23.54	35	31.5	28								
MJG 40 X 200			200	20.6	40	36	32								
MJG 40 X 225			225	18.31	45	40.5	36								
MJG 40 X 250			250	16.48	50	45	40								



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**JIS
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MJG- GRAY COLOUR
HYPER HEAVY LOAD**

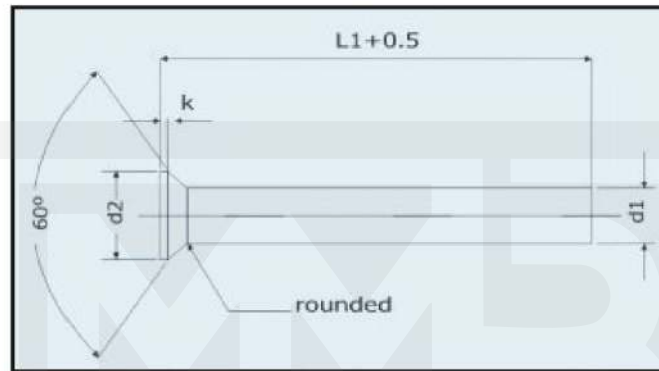


Code	OD (MM)	ID (MM)	FREE LENGTH (MM)	SPRING CONSTANT	30 (0.3 MILLION)		50 (0.5 MILLION)		100 (1 MILLION)	
					20% DEFLECTION (MM)	LOAD (KGF)	18% DEFLECTION (MM)	LOAD (KGF)	16% DEFLECTION (MM)	LOAD (KGF)
MJG 50 X 50	50	25	50	128.8	10	1288	9	1159	8	1030
MJG 50 X 55			55	117.09	11		9.9		8.8	
MJG 50 X 60			60	107.33	12		10.8		9.6	
MJG 50 X 65			65	99.08	13		11.7		10.4	
MJG 50 X 70			70	92	14		12.6		11.2	
MJG 50 X 75			75	85.87	15		13.5		12	
MJG 50 X 80			80	80.5	16		14.4		12.8	
MJG 50 X 90			90	71.56	18		16.2		14.4	
MJG 50 X 100			100	64.4	20		18		16	
MJG 50 X 125			125	51.52	25		22.5		20	
MJG 50 X 150			150	42.93	30		27		24	
MJG 50 X 175			175	36.8	35		31.5		28	
MJG 50 X 200			200	32.2	40		36		32	
MJG 50 X 225			225	28.62	45		40.5		36	
MJG 50 X 250			250	25.76	50		45		40	
MJG 50 X 275			275	23.42	55		49.5		44	
MJG 50 X 300			300	21.47	60		54		48	
MJG 60 X 60			60	30	60		154.2		12	
MJG 60 X 70	70	132.1			14	12.6	11.2			
MJG 60 X 80	80	115.6			16	14.4	12.8			
MJG 60 X 90	90	102.8			18	16.2	14.4			
MJG 60 X 100	100	92.5			20	18	16			
MJG 60 X 125	125	74			25	22.5	20			
MJG 60 X 150	150	61.7			30	27	24			
MJG 60 X 175	175	52.9			35	31.5	28			
MJG 60 X 200	200	46.3			40	36	32			
MJG 60 X 225	225	41.1			45	40.5	36			
MJG 60 X 250	250	37			50	45	40			
MJG 60 X 275	275	33.6			55	49.5	44			
MJG 60 X 300	300	30.8			60	54	48			
MJG 60 X 350	350	26.4			70	63	56			



PIERCING PUNCHES STEP TYPE.

RAW MATERIAL : HIGH SPEED STEEL
SHANK : HRC 64±2
HEAD : 45±2
SURFACE FINISH : 0.3 - 0.4 M



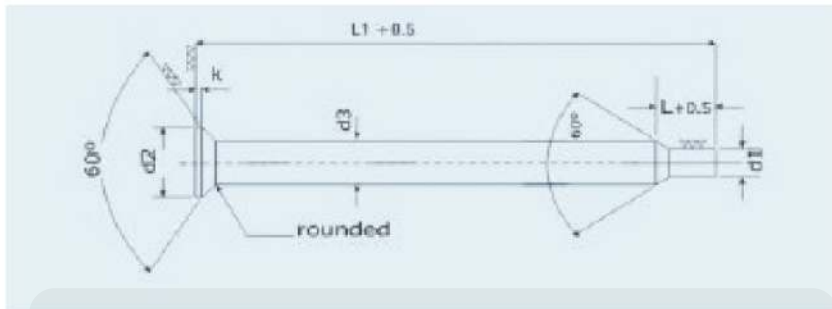
d1	h6	d2	k + 0.2
0.5	-0.007	0.9	0.2
0.55		1	
0.6		1.1	
0.65		1.2	
0.7 & 0.75		1.3	
0.8 & 0.85		1.4	0.4
0.9 & 0.95		1.6	
1.0 & 1.1		1.8	0.5
1.2 & 1.3		2	
1.4 & 1.5		2.2	
1.6 & 1.7		2.5	
1.8 & 1.9		2.8	
2		3	
2.1 & 2.2		3.2	
2.6 & 2.9		3.5	
2.3 & 2.6		4	
3	4.5		

d1	h6	d2	k + 0.2
3.1 to 3.4	-0.008	4.5	0.5
3.5 to 3.9		5	
4.0 to 4.4		5.5	
4.5 to 4.9		6	
5.0 to 5.4		6.5	
5.5 to 5.9		7	
6	8	1.5	
6.1 to 6.4	9		
6.5 to 7.0	10		
7.5 to 8.0	11		
8.5 to 9.0	12		
9.5 to 10.0	13		
10.5 to 11.0	14		
11.5 to 12.0	15		
12.5 to 13.0	16		
13.5 to 14.0	17		
14.5 to 15.0	18		
15.15 to 16.0	19		

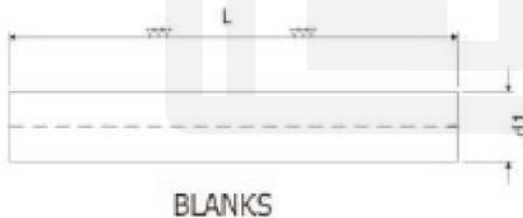


PIERCING PUNCHES STEP TYPE.

Raw material : High speed steel
shank: HRC 64 ± 2 Head 45 ± 2
Surface Finish: $0.3 - 0.4 \mu\text{m}$



Step punches are manufactured against specific inquiry. customers are requested to provide clear drawing for the same.



BLANKS

HSS HARDENED & GROUND BLANKS

Material : HSS M2 (6/5/2)

Hardness : $60^\circ - 62^\circ$ HRC

Size Available (d_1): 0.9mm to 6mm in step of 0.1mm

Length: 50mm, 75 mm and available as per customers requirement.

Also available as per drawing

- ~HSS punches blade type, square type, oblong type, without head in different length
- ~HSS punches specially for PCB, Tooth brush model etc. in length of 27, 30, 35 & 50mm
- ~Solid Carbide Blanks



Polyurethane Elastomers

Hardness: A 90 ± 4



SR.NO	TUBES				
	OD	X	ID	X	LENGTH (L)
	MM		MM		MM
1	18	x	8	x	300
2	20	x	8	x	300
3	22	x	8	x	300
4	25	x	8,10	x	300
5	30	x	10,12	x	300
6	32	x	13	x	300
7	40	x	10,12	x	300
8	50	x	12,15	x	300
9	60	x	17	x	300
10	63	x	17	x	300
11	70	x	21	x	300
12	80	x	21	x	300
13	90	x	21	x	300
14	100	x	21	x	300

SR.NO	Solid rounds		
	Dia	x	length
	mm		mm
1	6	x	150
2	8	x	100,150
3	10	x	100,150
4	12	x	300
5	16	x	300
6	18	x	300
7	20	x	300
8	22	x	300
9	25	x	300
10	30	x	300
11	32	x	300
12	40	x	300
13	50	x	300
14	60	x	300
15	63	x	300
16	70	x	300
17	80	x	300
18	90	x	300
19	100	x	300

- 1.High load bearing capacity
- 2.high impact resistance
- 3.resistance to oil
- 4.high life expectancy
- 5.high abrasion resistance

POLYURETHANE SHEETS:

300MM X 300MM X 3,4,5,6,8,10,12,16,20,

25,30,35,40,45,50,55MM thick : Available Ex-stock

POLYURETHANE FLATS & SQUARE:

Available on request.