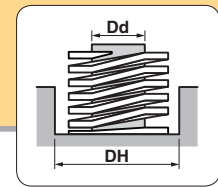


# ISO ばね 極重荷重 TJB EXTREMELY HEAVY LOADS ISO 10243

## COIL SPRING



Dd (mm)	ばね定数		自由長×17% 300万回		自由長×20% 150万回		自由長×22.5% 50万回		自由長×25% 20万回		たわみ 限界 (mm)	Catalog No.	DH (mm)	自由長 L (mm)
	N/mm (kgf/mm)	たわみ (mm)	荷重 N (kgf)	たわみ (mm)	荷重 N (kgf)	たわみ (mm)	荷重 N (kgf)	たわみ (mm)	荷重 N (kgf)					
5	36.8 {3.75}	4.3	5.0	5.6	6.3	7.8					25	10	10	25
	28.8 {2.93}	5.4	6.4	7.2	8.0	10.1					32			32
	24.2 {2.46}	6.5	7.6	8.6	9.5	12.0					38			38
	20.9 {2.13}	7.5	8.8	9.9	11.0	14.1					44			44
	18.0 {1.83}	8.7	10.2	11.5	12.8	16.4					51			51
	14.4 {1.46}	10.9	12.8	14.4	16.0	21.0					64			64
	12.1 {1.23}	12.9	15.2	17.1	19.0	24.8					76			76
	10.3 {1.05}	15.1	17.8	20.0	22.3	29.3					89			89
	9.0 {0.91}	17.3	20.4	23.0	25.5	33.9					102			102
	3.0 {0.30}	51.9	61.0	68.6	76.3	101.1					305			305
6.3	57.6 {5.87}	4.3	5.0	5.6	6.3	7.0					25	12.5	12.5	25
	45.0 {4.59}	5.4	6.4	7.2	8.0	9.5					32			32
	37.9 {3.86}	6.5	7.6	8.6	9.5	11.6					38			38
	32.7 {3.33}	7.5	8.8	9.9	11.0	13.3					44			44
	28.2 {2.87}	8.7	10.2	11.5	12.8	15.7					51			51
	22.5 {2.29}	10.9	12.8	14.4	16.0	20.1					64			64
	18.9 {1.92}	12.9	15.2	17.1	19.0	24.1					76			76
	16.2 {1.65}	15.1	17.8	20.0	22.3	28.5					89			89
	14.1 {1.43}	17.3	20.4	23.0	25.5	32.9					102			102
	12.5 {1.27}	19.6	23.0	25.9	28.8	37.2					115			115
4.7 {0.47}	51.9	61.0	68.6	76.3	99.9					305	305			
8	112.0 {11.42}	4.3	5.0	5.6	6.3	7.0					25	16	16	25
	87.5 {8.92}	5.4	6.4	7.2	8.0	9.6					32			32
	73.7 {7.51}	6.5	7.6	8.6	9.5	11.0					38			38
	63.6 {6.48}	7.5	8.8	9.9	11.0	13.1	TJB				44			44
	54.9 {5.59}	8.7	10.2	11.5	12.8	15.4					51			51
	43.8 {4.46}	10.9	12.8	14.4	16.0	19.7					64			64
	36.8 {3.75}	12.9	15.2	17.1	19.0	23.8					76			76
	31.5 {3.21}	15.1	17.8	20.0	22.3	26.3					89			89
	27.5 {2.80}	17.3	20.4	23.0	25.5	30.4					102			102
	24.3 {2.47}	19.6	23.0	25.9	28.8	34.2					115			115
22.0 {2.24}	21.6	25.4	28.6	31.8	38.2					127	127			
9.2 {0.93}	51.9	61.0	68.6	76.3	93.8					305	305			
10	240.0 {24.48}	4.3	5.0	5.6	6.3	6.5					25	20	20	25
	187.5 {19.12}	5.4	6.4	7.2	8.0	8.8					32			32
	157.9 {16.10}	6.5	7.6	8.6	9.5	9.9					38			38
	136.4 {13.91}	7.5	8.8	9.9	11.0	11.6					44			44
	117.6 {11.99}	8.7	10.2	11.5	12.8	14.2					51			51
	93.8 {9.56}	10.9	12.8	14.4	16.0	17.9					64			64
	78.9 {8.04}	12.9	15.2	17.1	19.0	20.3					76			76
	67.4 {6.87}	15.1	17.8	20.0	22.3	23.8					89			89
	58.8 {5.99}	17.3	20.4	23.0	25.5	28.2					102			102
	52.2 {5.32}	19.6	23.0	25.9	28.8	31.8					115			115
47.2 {4.81}	21.6	25.4	28.6	31.8	35.6					127	127			
43.2 {4.40}	23.6	27.8	31.3	34.8	39.4					139	139			
39.5 {4.02}	25.8	30.4	34.2	38.0	42.9					152	152			
33.7 {3.43}	30.3	35.6	40.1	44.5	51.4					178	178			
29.6 {3.01}	34.5	40.6	45.7	50.8	59.0					203	203			
19.7 {2.00}	51.9	61.0	68.6	76.3	89.6					305	305			

Dd (mm)	ばね定数		自由長×17% 300万回		自由長×20% 150万回		自由長×22.5% 50万回		自由長×25% 20万回		たわみ 限界 (mm)	Catalog No.	DH (mm)	自由長 L (mm)
	N/mm (kgf/mm)	たわみ (mm)	荷重 N (kgf)	たわみ (mm)	荷重 N (kgf)	たわみ (mm)	荷重 N (kgf)	たわみ (mm)	荷重 N (kgf)					
12.5	312.5 {31.87}	5.4	6.4	7.2	8.0						8.5	25	25	32
	263.2 {26.84}	6.5	7.6	8.6	9.5						10.4			38
	227.3 {23.18}	7.5	8.8	9.9	11.0						12.3			44
	196.1 {20.00}	8.7	10.2	11.5	12.8						14.4			51
	156.3 {15.94}	10.9	12.8	14.4	16.0						18.5			64
	131.6 {13.42}	12.9	15.2	17.1	19.0						22.3			76
	112.4 {11.46}	15.1	17.8	20.0	22.3						26.6			89
	98.0 {9.99}	17.3	20.4	23.0	25.5						28.3			102
	87.0 {8.87}	19.6	23.0	25.9	28.8						31.9			115
	78.7 {8.02}	21.6	25.4	28.6	31.8						35.9			127
71.9 {7.33}	23.6	27.8	31.3	34.8						38.9	139			
65.8 {6.71}	25.8	30.4	34.2	38.0						43.0	152			
56.2 {5.73}	30.3	35.6	40.1	44.5						50.8	178			
49.3 {5.02}	34.5	40.6	45.7	50.8						57.4	203			
43.7 {4.45}	38.9	45.8	51.5	57.3						65.1	229			
32.8 {3.34}	51.9	61.0	68.6	76.3						87.6	305			
16	421.1 {42.95}	6.5	7.6	8.6	9.5						10.0	32	32	38
	363.6 {37.08}	7.5	8.8	9.9	11.0						11.5			44
	313.7 {31.99}	8.7	10.2	11.5	12.8						13.9			51
	250.0 {25.50}	10.9	12.8	14.4	16.0						17.8			64
	210.5 {21.47}	12.9	15.2	17.1	19.0						20.0			76
	179.8 {18.33}	15.1	17.8	20.0	22.3						24.1			89
	156.9 {16.00}	17.3	20.4	23.0	25.5						27.3			102
	139.1 {14.18}	19.6	23.0	25.9	28.8						30.4			115
	126.0 {12.85}	21.6	25.4	28.6	31.8						34.9			127
	115.1 {11.74}	23.6	27.8	31.3	34.8						37.9			139
105.3 {10.74}	25.8	30.4	34.2	38.0						41.0	152			
89.9 {9.16}	30.3	35.6	40.1	44.5						49.3	178			
78.8 {8.03}	34.5	40.6	45.7	50.8						55.9	203			
69.9 {7.12}	38.9	45.8	51.5	57.3						65.1	229			
63.0 {6.42}	43.2	50.8	57.2	63.5						70.8	254			
52.5 {5.35}	51.9	61.0	68.6	76.3						85.6	305			
509.8 {51.99}	8.7	10.2	11.5	12.8						13.2	51			
406.3 {41.44}	10.9	12.8	14.4	16.0						17.8	64			
342.1 {34.89}	12.9	15.2	17.1	19.0						20.3	76			
292.1 {29.79}	15.1	17.8	20.0	22.3						24.5	89			
254.9 {25.99}	17.3	20.4	23.0	25.5						27.3	102			
226.1 {23.06}	19.6	23.0	25.9	28.8						31.6	115			
204.7 {20.87}	21.6	25.4	28.6	31.8						34.5	127			
187.1 {19.08}	23.6	27.8	31.3	34.8						38.3	139			
171.1 {17.45}	25.8	30.4	34.2	38.0						41.9	152			
146.1 {14.90}	30.3	35.6	40.1	44.5						49.1	178			
128.1 {13.06}	34.5	40.6	45.7	50.8						56.7	203			
113.5 {11.57}	38.9	45.8	51.5	57.3						64.3	229			
102.4 {10.44}	43.2	50.8	57.2	63.5						70.7	254			
85.2 {8.69}	51.9	61.0	68.6	76.3						85.2	305			

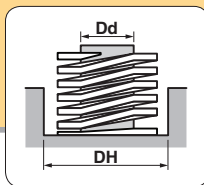
Order  Catalog No.  DH  -  L

TJB 10 - 25

\* 1N=0.1daN=0.102kg 1mm=0.0394in.  
 ▲ たわみ限界について  
 密着長に近いたわみになります。  
 参考値になりますのでご注意ください。

# ISO ばね 極重荷重 TJB EXTREMELY HEAVY LOADS ISO 10243

## COIL SPRING



Dd (mm)	ばね定数 N/mm (kgf/mm)	自由長 × 17% 300 万回		自由長 × 20% 150 万回		自由長 × 22.5% 50 万回		自由長 × 25% 20 万回		たわみ 限界 (mm)	Catalog No.	DH (mm)	自由長 L (mm)
		たわみ (mm)	荷重 N (kgf)	たわみ (mm)	荷重 N (kgf)	たわみ (mm)	荷重 N (kgf)	たわみ (mm)	荷重 N (kgf)				
	625.0 {63.75}	10.9		12.8		14.4		16.0		16.3			64
	526.3 {53.68}	12.9		15.2		17.1		19.0		19.4			76
	449.4 {45.83}	15.1		17.8		20.0		22.3		23.4			89
	392.2 {40.00}	17.3		20.4		23.0		25.5		26.3			102
	347.8 {35.47}	19.6		23.0		25.9		28.8		30.2			115
25	315.0 {32.13}	21.6	6800 {693.6}	25.4	8000 {816}	28.6	9000 {918}	31.8	10000 {1020}	34.5	TJB	50	127
	287.8 {29.35}	23.6		27.8		31.3		34.8		37.9			139
	263.2 {26.84}	25.8		30.4		34.2		38.0		42.0			152
	224.7 {22.91}	30.3		35.6		40.1		44.5		50.6			178
	197.0 {20.09}	34.5		40.6		45.7		50.8		58.5			203
	174.7 {17.81}	38.9		45.8		51.5		57.3		67.1			229
	157.5 {16.06}	43.2		50.8		57.2		63.5		75.2			254
	131.1 {13.37}	51.9		61.0		68.6		76.3		92.4			305
	842.1 {85.89}	12.9		15.2		17.1	*	*	17.7				76
	719.1 {73.34}	15.1		17.8		20.0	*	*	21.5				89
	627.5 {64.00}	17.3		20.4		23.0		25.5		26.3			102
	556.5 {56.76}	19.6		23.0		25.9		28.8		29.8			115
38	503.9 {51.39}	21.6	10880 {1109.8}	25.4	12800 {1305.6}	28.6	14400 {1468.8}	31.8	16000 {1632}	34.1	TJB	63	127
	421.1 {42.95}	25.8		30.4		34.2		38.0		40.3			152
	359.6 {36.67}	30.3		35.6		40.1		44.5		47.5			178
	315.3 {32.16}	34.5		40.6		45.7		50.8		55.5			203
	279.5 {28.50}	38.9		45.8		51.5		57.3		62.7			229
	252.0 {25.70}	43.2		50.8		57.2		63.5		69.9			254
	209.8 {21.39}	51.9		61.0		68.6		76.3		86.5			305



Order

Catalog No.

TJB

DH

50

L

64

\* 1N=0.1daN=0.102kg 1mm=0.0394in.



たわみ限界について  
密着長に近いたわみになります。  
参考値になりますのでご注意ください。



DH が 63 に限り  
25%ストローク時の  
耐久回数目安は 10 万回です。