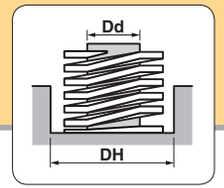
ISO ばね　極重荷重

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 たわみ (mm)	荷重 N {kgf}	自由長 ×20% 150万回 たわみ (mm)	荷重 N {kgf}	自由長 ×22.5% 50万回 たわみ (mm)	荷重 N {kgf}	自由長 ×25% 20万回 たわみ (mm)	荷重 N {kgf}	たわみ限界 (mm)	Catalog No.	DH (mm)	自由長 L (mm)
	36.8 {3.75}	4.3		5.0		5.6		6.3		7.8			25
	28.8 {2.93}	5.4		6.4		7.2		8.0		10.1			32
	24.2 {2.46}	6.5		7.6		8.6		9.5		12.0			38
	20.9 {2.13}	7.5		8.8		9.9		11.0		14.1			44
5	18.0 {1.83}	8.7	156 {15.9}	10.2	184 {18.8}	11.5	207 {21.1}	12.8	230 {23.5}	16.4		10	51
	14.4 {1.46}	10.9		12.8		14.4		16.0		21.0			64
	12.1 {1.23}	12.9		15.2		17.1		19.0		24.8			76
	10.3 {1.05}	15.1		17.8		20.0		22.3		29.3			89
	9.0 {0.91}	17.3		20.4		23.0		25.5		33.9			102
	3.0 {0.30}	51.9		61.0		68.6		76.3		101.1			305
	57.6 {5.87}	4.3		5.0		5.6		6.3		7.0			25
	45.0 {4.59}	5.4		6.4		7.2		8.0		9.5			32
	37.9 {3.86}	6.5		7.6		8.6		9.5		11.6			38
	32.7 {3.33}	7.5		8.8		9.9		11.0		13.3			44
	28.2 {2.87}	8.7		10.2		11.5		12.8		15.7			51
	22.5 {2.29}	10.9	245 {25}	12.8	288 {29.4}	14.4	324 {33}	16.0	360 {36.7}	20.1		12.5	64
6.3	18.9 {1.92}	12.9		15.2		17.1		19.0		24.1			76
	16.2 {1.65}	15.1		17.8		20.0		22.3		28.5			89
	14.1 {1.43}	17.3		20.4		23.0		25.5		32.9			102
	12.5 {1.27}	19.6		23.0		25.9		28.8		37.2			115
	4.7 {0.47}	51.9		61.0		68.6		76.3		99.9			305
	112.0 {11.42}	4.3		5.0		5.6		6.3		7.0			25
	87.5 {8.92}	5.4		6.4		7.2		8.0		9.6			32
	73.7 {7.51}	6.5		7.6		8.6		9.5		11.0			38
	63.6 {6.48}	7.5		8.8		9.9		11.0		13.1	TJB		44
	54.9 {5.59}	8.7		10.2		11.5		12.8		15.4			51
	43.8 {4.46}	10.9	476 {48.6}	12.8	560 {57.1}	14.4	630 {64.3}	16.0	700 {71.4}	19.7		16	64
8	36.8 {3.75}	12.9		15.2		17.1		19.0		23.8			76
	31.5 {3.21}	15.1		17.8		20.0		22.3		26.3			89
	27.5 {2.80}	17.3		20.4		23.0		25.5		60.4			102
	24.3 {2.47}	19.6		23.0		25.9		28.8		34.2			115
	22.0 {2.24}	21.6		25.4		28.6		31.8		38.2			127
	9.2 {0.93}	51.9		61.0		68.6		76.3		93.8			305
	240.0 {24.48}	4.3		5.0		5.6		6.3		6.5			25
	187.5 {19.12}	5.4		6.4		7.2		8.0		8.8			32
	157.9 {16.10}	6.5		7.6		8.6		9.5		9.9			38
	136.4 {13.91}	7.5		8.8		9.9		11.0		11.6			44
	117.6 {11.99}	8.7		10.2		11.5		12.8		14.2			51
	93.8 {9.56}	10.9		12.8		14.4		16.0		17.9			64
	78.9 {8.04}	12.9		15.2		17.1		19.0		20.3			76
	67.4 {6.87}	15.1	1020 {104}	17.8	1200 {122.4}	20.0	1350 {137.7}	22.3	1500 {153}	23.8		20	89
	58.8 {5.99}	17.3		20.4		23.0		25.5		28.2			102
10	52.2 {5.32}	19.6		23.0		25.9		28.8		31.8			115
	47.2 {4.81}	21.6		25.4		28.6		31.8		35.6			127
	43.2 {4.40}	23.6		27.8		31.3		34.8		39.4			139
	39.5 {4.02}	25.8		30.4		34.2		38.0		42.9			152
	33.7 {3.43}	30.3		35.6		40.1		44.5		51.4			178
	29.6 {3.01}	34.5		40.6		45.7		50.8		59.0			203
	19.7 {2.00}	51.9		61.0		68.6		76.3		89.6			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下さい。

Dd (mm)	ばね定数 N/mm (kgf/mm)	自由長 ×17% 300万回 たわみ (mm)	荷重 N {kgf}	自由長 ×20% 150万回 たわみ (mm)	荷重 N {kgf}	自由長 ×22.5% 50万回 たわみ (mm)	荷重 N {kgf}	自由長 ×25% 20万回 たわみ (mm)	荷重 N {kgf}	たわみ限界 (mm)	Catalog No.	DH (mm)	自由長 L (mm)
	312.5 {31.87}	5.4		6.4		7.2		8.0		8.5			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
12.5	98.0 {9.99}	17.3	1700 {173.4}	20.4	2000 {204}	23.0	2250 {229.5}	25.5	2500 {255}	28.3		25	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
	421.1 {42.95}	6.5		7.6		8.6		9.5		10.0			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	TJB		102
	139.1 {14.18}	19.6		23.0		25.9		28.8		30.4			115
16	126.0 {12.85}	21.6	2720 {277.4}	25.4	3200 {326.4}	28.6	3600 {367.2}	31.8	4000 {408}	34.9		32	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
20	204.7 {20.87}	21.6	4420 {450.8}	25.4	5200 {530.4}	28.6	5850 {596.7}	31.8	6500 {663}	34.5		40	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

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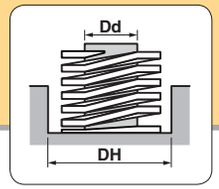
ISO ばね　極重荷重

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 たわみ (mm)	荷重 N {kgf}	自由長 ×20% 150 万回 たわみ (mm)	荷重 N {kgf}	自由長 ×22.5% 50 万回 たわみ (mm)	荷重 N {kgf}	自由長 ×25% 20 万回 たわみ (mm)	荷重 N {kgf}	たわみ限界 (mm)	Catalog No.	DH (mm)	自由長 L (mm)
	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
	315.0 {32.13}	21.6	6800	25.4	8000	28.6	9000	31.8	10000	34.5			127
25	287.8 {29.35}	23.6	{693.6}	27.8	{816}	31.3	{918}	34.8	{1020}	37.9		50	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	TJB		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
	503.9 {51.39}	21.6	10880	25.4	12800	28.6	14400	31.8	16000	34.1			127
	421.1 {42.95}	25.8	{1109.8}	30.4	{1305.6}	34.2	{1468.8}	38.0	{1632}	40.3		63	152
38	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.	DH	–	L
TJB	50	–	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下さい。

⚠ 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。

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