

COILSPRING

高たわみ用強力ばね TR

●規格仕様

外径 (mm)	内径 (mm)	自由長 (mm)	ばね定数		自由長×40.0%		自由長×45.0%		自由長×50.0%		カタログ No.
					100 万回		50 万回		30 万回		
			(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)	
14.5	9.0	20	10.90	{1.11}	8.0	88.3 {9.0}	9.0	98.1 {10.0}	10.0	107.9 {11.0}	TR 14.5 × 20
		25	8.72	{0.89}	10.0		11.3		12.5		25
		30	7.27	{0.74}	12.0		13.5		15.0		30
		35	6.23	{0.64}	14.0		15.8		17.5		35
		40	5.45	{0.56}	16.0		18.0		20.0		40
		45	4.84	{0.49}	18.0		20.3		22.5		45
		50	4.36	{0.44}	20.0		22.5		25.0		50
		55	3.96	{0.40}	22.0		24.8		27.5		55
		60	3.63	{0.37}	24.0		27.0		30.0		60
		65	3.35	{0.34}	26.0		29.3		32.5		65
		70	3.11	{0.32}	28.0		31.5		35.0		70
		75	2.91	{0.30}	30.0		33.8		37.5		75
		80	2.73	{0.28}	32.0		36.0		40.0		80
		90	2.42	{0.25}	36.0		40.5		45.0		90
		100	2.18	{0.22}	40.0		45.0		50.0		100
125	1.74	{0.18}	50.0	56.3	62.5	125					
17.0	11.0	25	14.82	{1.51}	10.0	147.1 {15.0}	11.3	166.7 {17.0}	12.5	186.3 {19.0}	TR 17 × 25
		30	12.35	{1.26}	12.0		13.5		15.0		30
		35	10.58	{1.08}	14.0		15.8		17.5		35
		40	9.26	{0.94}	16.0		18.0		20.0		40
		45	8.23	{0.84}	18.0		20.3		22.5		45
		50	7.41	{0.76}	20.0		22.5		25.0		50
		55	6.74	{0.69}	22.0		24.8		27.5		55
		60	6.17	{0.63}	24.0		27.0		30.0		60
		65	5.70	{0.58}	26.0		29.3		32.5		65
		70	5.29	{0.54}	28.0		31.5		35.0		70
		75	4.94	{0.50}	30.0		33.8		37.5		75
		80	4.63	{0.47}	32.0		36.0		40.0		80
		90	4.12	{0.42}	36.0		40.5		45.0		90
		100	3.70	{0.38}	40.0		45.0		50.0		100
		125	2.96	{0.30}	50.0		56.3		62.5		125
150	2.47	{0.25}	60.0	67.5	75.0	150					
21.0	13.0	30	13.80	{1.41}	12.0	166.7 {17.0}	13.5	186.3 {19.0}	15.0	205.9 {21.0}	TR 21 × 30
		35	11.83	{1.21}	14.0		15.8		17.5		35
		40	10.35	{1.06}	16.0		18.0		20.0		40
		45	9.20	{0.94}	18.0		20.3		22.5		45
		50	8.28	{0.84}	20.0		22.5		25.0		50
		55	7.53	{0.77}	22.0		24.8		27.5		55
		60	6.90	{0.70}	24.0		27.0		30.0		60
		65	6.37	{0.65}	26.0		29.3		32.5		65
		70	5.91	{0.60}	28.0		31.5		35.0		70
		75	5.52	{0.56}	30.0		33.8		37.5		75
		80	5.18	{0.53}	32.0		36.0		40.0		80
		90	4.60	{0.47}	36.0		40.5		45.0		90
		100	4.14	{0.42}	40.0		45.0		50.0		100
		125	3.31	{0.34}	50.0		56.3		62.5		125
		150	2.76	{0.28}	60.0		67.5		75.0		150

①：自由長×50.0%を超えるたわみでは使用しないでください。

②：設置の際には、初期圧を掛けてください。

N (ニュートン) = Kgf (キログラム) × 9.80665

荷重 (N) = ばね定数 (N/mm) × たわみ (mm)

●規格仕様

外径 (mm)	内径 (mm)	自由長 (mm)	ばね定数		自由長×40.0%		自由長×45.0%		自由長×50.0%		カタログ No.					
			(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)						
26.0	16.5	30	26.87	{2.74}	12.0	323.6 {33.0}	13.5	362.8 {37.0}	15.0	402.1 {41.0}	TR 26 × 30					
		35	23.03	{2.35}	14.0		15.8		17.5		35					
		40	20.16	{2.06}	16.0		18.0		20.0		40					
		45	17.92	{1.83}	18.0		20.3		22.5		45					
		50	16.12	{1.64}	20.0		22.5		25.0		50					
		55	14.66	{1.49}	22.0		24.8		27.5		55					
		60	13.44	{1.37}	24.0		27.0		30.0		60					
		65	12.40	{1.26}	26.0		29.3		32.5		65					
		70	11.52	{1.17}	28.0		31.5		35.0		70					
		75	10.75	{1.10}	30.0		33.8		37.5		75					
		80	10.08	{1.03}	32.0		36.0		40.0		80					
		90	8.96	{0.91}	36.0		40.5		45.0		90					
		100	8.06	{0.82}	40.0		45.0		50.0		100					
		110	7.33	{0.75}	44.0		49.5		55.0		110					
		125	6.45	{0.66}	50.0		56.3		62.5		125					
		150	5.37	{0.55}	60.0		67.5		75.0		150					
		175	4.61	{0.47}	70.0		78.8		87.5		175					
		200	4.03	{0.41}	80.0		90.0		100.0		200					
		32.0	21.0	40	25.06		{2.56}		16.0		402.1 {41.0}	18.0	451.1 {46.0}	20.0	500.1 {51.0}	TR 32 × 40
				45	22.28		{2.27}		18.0			20.3		22.5		45
50	20.05			{2.04}	20.0	22.5	25.0	50								
60	16.71			{1.70}	24.0	27.0	30.0	60								
70	14.32			{1.46}	28.0	31.5	35.0	70								
80	12.53			{1.28}	32.0	36.0	40.0	80								
90	11.14			{1.14}	36.0	40.5	45.0	90								
100	10.02			{1.02}	40.0	45.0	50.0	100								
110	9.11			{0.93}	44.0	49.5	55.0	110								
125	8.02			{0.82}	50.0	56.3	62.5	125								
150	6.68			{0.68}	60.0	67.5	75.0	150								
175	5.73			{0.58}	70.0	78.8	87.5	175								
200	5.01			{0.51}	80.0	90.0	100.0	200								
250	4.01			{0.41}	100.0	112.5	125.0	250								
300	3.34	{0.34}	120.0	135.0	150.0	300										
39.0	26.0	40	27.24	{2.78}	16.0	431.5 {44.0}	18.0	490.3 {50.0}	20.0	539.4 {55.0}	TR 39 × 40					
		45	24.21	{2.47}	18.0		20.3		22.5		45					
		50	21.79	{2.22}	20.0		22.5		25.0		50					
		60	18.16	{1.85}	24.0		27.0		30.0		60					
		70	15.57	{1.59}	28.0		31.5		35.0		70					
		80	13.62	{1.39}	32.0		36.0		40.0		80					
		90	12.11	{1.23}	36.0		40.5		45.0		90					
		100	10.90	{1.11}	40.0		45.0		50.0		100					
		110	9.91	{1.01}	44.0		49.5		55.0		110					
		125	8.72	{0.89}	50.0		56.3		62.5		125					
		150	7.26	{0.74}	60.0		67.5		75.0		150					
		175	6.23	{0.63}	70.0		78.8		87.5		175					
		200	5.45	{0.56}	80.0		90.0		100.0		200					
		250	4.36	{0.44}	100.0		112.5		125.0		250					
		300	3.63	{0.37}	120.0		135.0		150.0		300					
		46.0	32.0	50	24.41		{2.49}		20.0		490.3 {50.0}	22.5	549.2 {56.0}	25.0	608.0 {62.0}	TR 46 × 50
60	20.34			{2.07}	24.0	27.0	30.0	60								
70	17.43			{1.78}	28.0	31.5	35.0	70								
80	15.26			{1.56}	32.0	36.0	40.0	80								
90	13.56			{1.38}	36.0	40.5	45.0	90								
100	12.20			{1.24}	40.0	45.0	50.0	100								
110	11.09			{1.13}	44.0	49.5	55.0	110								
125	9.76			{1.00}	50.0	56.3	62.5	125								
150	8.14			{0.83}	60.0	67.5	75.0	150								
175	6.97			{0.71}	70.0	78.8	87.5	175								
200	6.10			{0.62}	80.0	90.0	100.0	200								
250	4.88			{0.50}	100.0	112.5	125.0	250								
300	4.07			{0.41}	120.0	135.0	150.0	300								


①：自由長×50.0%を超えるたわみでは使用しないでください。

②：設置の際には、初期圧を掛けてください。

 N (ニュートン) = Kgf (キログラム) × 9.80665

荷重 (N) = ばね定数 (N/mm) × たわみ (mm)

	Order	形式
	注文例	例 TR14.5 × 20

	Delivery	2日目着
	納期	(又は2日目発送)