



TOHATSU ISO STANDARD SPENDS





Referência	Diam.	Diam.	Compr.	Constante	25% do co 3milhõe estim	s ciclos	30% do co 1,5milhões estima	de ciclos	35% do cor 500mil estima	ciclos	40% do co 200mil estim	ciclos	Compressă Total (mm)
	do Furo (mm)	do Pino (mm)	Total (mm)	Elástica (N/mm)	Deflexão	Carga	Deflexão	Carga	Deflexão	Carga	Deflexão	Carga	(mm)
TJL10-25			25	12.0	6.3		7.5		8.8		10.0		10.5
TJL10-32			32	9.4	8.0		9.6		11.2		12.8		13.4
TJL10-38			38	7.9	9.5		11.4		13.3		15.2		16.0
TJL10-44			44	6.8	11.0		13.2		15.4		17.6		18.5
TJL10-51	10.0	5.0	51	5.9	12.8		15.3		17.9		20.4		21.4
TJL10-64	+0.58mm	+0mm	64	4.7	16.0	75	19.2	90	22.4	105	25.6	120	26.9
TJL10-76	-Omm	-0.58 mm	76	3.9	19.0		22.8		26.6		30.4		31.9
TJL10-89			89	3.4	22.3		26.7		31.2		35.6		37.4
TJL10-102			102	2.9	25.5		30.6		35.7		40.8		42.8
TJL10-305			305	1.0	76.3		91.5		106.8		122.0		128.1
TJL12.5-25			25	24.0	6.3		7.5		8.8		10.0		10.5
TJL12.5-32			32	18.8	8.0		9.6		11.2		12.8		13.4
TJL12.5-38			38	15.8	9.5		11.4		13.3		15.2		16.0
TJL12.5-44			44	13.6	11.0		13.2		15.4		17.6		18.5
TJL12.5-51	12.5	6.3	51	11.8	12.8		15.3		17.9		20.4		21.4
TJL12.5-64	+0.7mm	+0mm	64	9.4	16.0	150	19.2	180	22.4	210	25.6	240	26.9
TJL12.5-76	-O.7mm	-0.58mm	76	7.9	19.0	.50	22.8		26.6	-10	30.4	2.10	31.9
TJL12.5-89	0.11111	0.0011111	89	6.7	22.3		26.7		31.2		35.6		37.4
TJL12.5-102			102	5.9	25.5		30.6		35.7		40.8		42.8
TJL12.5-115			115	5.2	28.8		34.5		40.3		46.0		48.3
TJL12.5-305			305	2.0	76.3		91.5		106.8		122.0		128.1
TJL16-25			25	30.0	6.3		7.5		8.8		10.0		10.5
TJL16-32			32	23.4	8.0		9.6		11.2		12.8		13.4
TJL16-32			38	19.7	9.5		11.4		13.3		15.2		16.0
TJL16-44			44	17.0	11.0		13.2		15.4		17.6		18.5
TJL16-44			51	14.7	12.8		and the second second				20.4		and the second second
TJL16-64	16.0	8.0	64	11.7	16.0	188	15.3		17.9 22.4		25.6		21.4
	+0.7mm	+0mm -0.58mm			19.0		19.2	225	and the latest and th	263		300	and the second second
TJL16-76	-O mm		76	9.9	22.3		22.8		26.6		30.4	K-1-1-1-1-1	31.9
TJL16-89	30.000000		89	8.4	100000000000000000000000000000000000000		26.7		31.2		10000000		37.4
TJL16-102			102	7.4	25.5		30.6		35.7		40.8		42.8
TJL16-115			115	6.5	28.8		34.5		40.3		46.0		48.3
TJL16-127			127	5.9	31.8		38.1		44.5		50.8		53.3
TJL16-305			305	2.5	76.3		91.5		106.8		122.0		128.1
TJL20-25			25	60.0	6.3		7.5		8.8		10.0		10.5
TJL20-32			32	46.9	8.0		9.6		11.2		12.8		13.4
TJL20-38			38	39.5	9.5		11.4		13.3		15.2		16.0
TJL20-44			44	34.1	11.0		13.2		15.4		17.6		18.5
TJL20-51			51	29.4	12.8		15.3		17.9		20.4		21.4
TJL20-64			64	23.4	16.0		19.2		22.4		25.6		26.9
TJL20-76	20.0	10.0	76	19.7	19.0		22.8		26.6		30.4		31.9
TJL20-89	+0.84mm	+0mm	89	16.9	22.3	375	26.7	450	31.2	525	35.6	600	37.4
TJL20-102	-O mm	-0.58 mm	102	14.7	25.5		30.6		35.7		40.8		42.8
TJL20-115		0.00.	115	13.0	28.8		34.5		40.3		46.0		48.3
TJL20-127			127	11.8	31.8		38.1		44.5		50.8		53.3
TJL20-139			139	10.8	34.8		41.7		48.7		55.6		58.4
TJL20-152			152	9.9	38.0		45.6		53.2		60.8		63.8
TJL20-178			178	8.4	44.5		53.4		62.3		71.2		74.8
TJL20-203			203	7.4	50.8		60.9		71.1		81.2		85.3
TJL20-305			305	4.9	76.3		91.5		106.8		122.0		128.1
TJL25-25			25	90.0	6.3		7.5	l i	8.8		10.0		10.5
TJL25-32			32	70.3	8.0		9.6		11.2		12.8		13.4
TJL25-38	25.0	12.5	38	59.2	9.5		11.4		13.3		15.2		16.0
TJL25-44	+0.84mm	+Omm	44	51.1	11.0	563	13.2	675	15.4	788	17.6	900	18.5
TJL25-51	-Omm	-0.7mm	51	44.1	12.8		15.3		17.9		20.4		21.4
TJL25-64			64	35.2	16.0		19.2		22.4		25.6		26.9
TJL25-76			76	29.6	19.0		22.8		26.6		30.4	1	31.9

Referência	Diam. do Furo	Diam. do Pino	Compr. Total	Constante Elástica	3milhõe	ompr. total es ciclos nados	30% do co 1,5milhões estim	de ciclos	35% do co 500mil estima	ciclos	40% do co 200mil estim	ciclos	Compressă Total (mm)
	(mm)	(mm)	(mm)	(N/mm)	Deflexão	Carga	Deflexão	Carga	Deflexão	Carga	Deflexão	Carga	
TJL25-89			89	25.3	22.3		26.7		31.2		35.6		37.4
TJL25-102			102	22.1	25.5		30.6		35.7		40.8		42.8
TJL25-115			115	19.6	28.8		34.5		40.3		46.0		48.3
TJL25-127	25.0	12.5	127	17.7	31.8		38.1		44.5		50.8		53.3
TJL25-139	+0.84mm	+0mm	139	16.2	34.8	563	41.7	675	48.7	788	55.6	900	58.4
TJL25-152	-0.04 mm	-0.7 mm	152	14.8	38.0	303	45.6	0/5	53.2	700	60.8	300	63.8
TJL25-178	0.000	0.17	178	12.6	44.5		53.4		62.3		71.2		74.8
TJL25-203			203	11.1	50.8		60.9		71.1		81.2		85.3
TJL25-229			229	9.8	57.3		68.7		80.2		91.6		96.2
TJL25-305 TJL32-38			305	7.4 92.1	76.3 9.5		91.5		106.8		122.0		128.1
TJL32-44			44	79.5	11.0		13.2		15.4		17.6		18.5
TJL32-51			51	68.6	12.8		15.3		17.9		20.4		21.4
TJL32-64			64	54.7	16.0		19.2		22.4		25.6		26.9
TJL32-76			76	46.1	19.0		22.8		26.6		30.4		31.9
TJL32-89			89	39.3	22.3		26.7		31.2		35.6		37.4
TJL32-102			102	34.3	25.5		30.6		35.7		40.8		42.8
TJL32-115	32.0	16.0	115	30.4	28.8		34.5	4.000	40.3		46.0	4 (00	48.3
TJL32-127	+ 1 mm	+0mm	127	27.6	31.8	875	38.1	1,050	44.5	1,225	50.8	1,400	53.3
TJL32-139	-Omm	-0.7 mm	139	25.2	34.8		41.7		48.7		55.6		58.4
TJL32-152			152	23.0	38.0		45.6		53.2		60.8		63.8
TJL32-178			178	19.7	44.5		53.4		62.3		71.2		74.8
TJL32-203			203	17.2	50.8		60.9	(71.1		81.2		85.3
TJL32-229			229	15.3	57.3		68.7		80.2		91.6		96.2
TJL32-254			254	13.8	63.5		76.2		88.9		101.6		106.7
TJL32-305			305	11.5	76.3		91.5		106.8		122.0		128.1
TJL40-51			51	98.0	12.8		15.3		17.9		20.4		21.4
TJL40-64			64	78.1	16.0		19.2		22.4		25.6		26.9
TJL40-76 TJL40-89			76 89	65.8 56.2	19.0		22.8 26.7		26.6		30.4 35.6		31.9
TJL40-89			102	49.0	25.5		30.6		31.2 35.7		40.8		37.4 42.8
TJL40-102			115	43.5	28.8		34.5		40.3		46.0		48.3
TJL40-113	40.0	20.0	127	39.4	31.8		38.1	1,500	44.5		50.8		53.3
TJL40-139	+1 mm	+0mm	139	36.0	34.8	1,250	41.7		48.7	1,750	55.6	2,000	58.4
TJL40-152	-0 mm	-0.84mm	152	32.9	38.0		45.6		53.2		60.8		63.8
TJL40-178			178	28.1	44.5		53.4		62.3		71.2		74.8
TJL40-203			203	24.6	50.8		60.9		71.1		81.2		85.3
TJL40-229			229	21.8	57.3	,	68.7		80.2		91.6		96.2
TJL40-254			254	19.7	63.5		76.2		88.9		101.6		106.7
TJL40-305			305	16.4	76.3		91.5		106.8		122.0		128.1
TJL50-64			64	156.3	16.0		19.2		22.4		25.6		26.9
TJL50-76			76	131.6	19.0		22.8		26.6		30.4		31.9
TJL50-89			89	112.4	22.3		26.7		31.2		35.6		37.4
TJL50-102			102	98.0	25.5		30.6		35.7		40.8		42.8
TJL50-115	50.0	25.0	115	87.0	28.8		34.5		40.3		46.0		48.3
TJL50-127 TJL50-139	50.0	25.0 +0mm	127	78.7 71.9	31.8	2 500	38.1	3 000	44.5	3 500	50.8	4.000	53.3
TJL50-139 TJL50-152	+ 1 mm -0 mm	+0mm -0.84mm	152	65.8	38.0	2,500	41.7 45.6	3,000	48.7 53.2	3,500	55.6 60.8	4,000	58.4 63.8
TJL50-152 TJL50-178	-011111	-0.04mil	178	56.2	44.5		53.4		62.3		71.2		74.8
TJL50-178			203	49.3	50.8		60.9		71.1		81.2		85.3
TJL50-229			229	43.7	57.3		68.7		80.2		91.6		96.2
TJL50-254			254	39.4	63.5		76.2		88.9		101.6		106.7
TJL50-305			305	32.8	76.3		91.5		106.8		122.0		128.1
TJL63-76			76	197.4	19.0		22.8		26.6		30.4		31.9
TJL63-89			89	168.5	22.3		26.7		31.2		35.6		37.4
TJL63-102			102	147.1	25.5		30.6		35.7		40.8		42.8
TJL63-115			115	130.4	28.8		34.5		40.3		46.0		48.3
TJL63-127	63.0	38.0	127	118.1	31.8		38.1		44.5		50.8		53.3
TJL63-152	+1.2mm	+0mm	152	98.7	38.0	3,750	45.6	4,500	53.2	5,250	60.8	6,000	63.8
TJL63-178	-0 mm	-0.1mm	178	84.3	44.5		53.4		62.3		71.2		74.8
TJL63-203			203	73.9	50.8		60.9		71.1		81.2		85.3
TJL63-229			229	65.5	57.3		68.7		80.2		91.6		96.2
TJL63-254			254	59.1	63.5		76.2		88.9		101.6		106.7
TJL63-305			305	49.2	76.3		91.5		106.8		122.0		128.1

TOHATSU ISO STANDARD Springs





Referência	Diam.	Diam.	Compr.	Constante	25% do co 3milhõe estim	s ciclos	30% do co 1,5milhões estima	de ciclos	33,75% do c 500mil estima	ciclos	37.5% do c 200mil estim	ciclos	Compressão Total
recercion	do Furo (mm)	do Pino (mm)	Total (mm)	Elástica (N/mm)	Deflexão	Carga	Deflexão	Carga	Deflexão	Carga	Deflexão	Carga	(mm)
TJM10-25			25	18.1	6.3		7.5		8.4		9.4		9.9
TJM10-32			32	14.2	8.0		9.6		10.8		12.0		12.6
TJM10-38			38	11.9	9.5		11.4		12.8		14.3		15.0
TJM10-44		200	44	10.3	11.0		13.2		14.9		16.5		17.4
TJM10-51	10.0	5.0	51	8.9	12.8	.72	15.3		17.2		19.1		20.1
TJM10-64	+0.58mm	+0mm	64	7.1	16.0	113	19.2	136	21.6	153	24.0	170	25.3
TJM10-76	-0 mm	-0.58mm	76	6.0	19.0		22.8		25.7		28.5		30.0
TJM10-89			89	5.1	22.3		26.7		30.0		33.4		35.2
TJM10-102			102	4.4	25.5		30.6		34.4		38.3		40.3
TJM10-305			305	1.5	76.3		91.5		102.9		114.4		120.5
TJM12.5-25			25	32.0	6.3		7.5		8.4		9.4		9.9
TJM12.5-32			32	25.0	8.0		9.6		10.8		12.0		12.6
TJM12.5-38			38	21.1	9.5		11.4		12.8		14.3		15.0
TJM12.5-44			44	18.2	11.0		13.2		14.9		16.5		17.4
TJM12.5-51	12.5	6.3	51	15.7	12.8		15.3		17.2		19.1		20.1
TJM12.5-64	+0.7mm	+0mm	64	12.5	16.0	200	19.2	240	21.6	270	24.0	300	25.3
TJM12.5-76	-Omm	-0.58mm	76	10.5	19.0	200	22.8	240	25.7	270	28.5	000	30.0
TJM12.5-89	-0.00	-0.50111111	89	9.0	22.3		26.7		30.0		33.4		35.2
TJM12.5-09			102	7.8	25.5		30.6		34.4		38.3		40.3
TJM12.5-102			115	7.0	28.8		Contract of the Landson		38.8		43.1		A STATE OF THE PARTY OF THE PAR
TJM12.5-115			305	2.6	76.3		34.5		102.9				45.4
THE RESERVE AND ADDRESS OF THE PARTY OF THE			25		6.3		91.5				114.4		120.5
TJM16-25				53.3	100		7.5		8.4		9.4		9.9
TJM16-32			32	41.7	8.0		9.6		10.8		12.0		12.6
TJM16-38			38	35.1	9.5		11.4		12.8		14.3		15.0
TJM16-44			44	30.3	11.0		13.2		14.9		16.5		17.4
TJM16-51	16.0	8.0	51	26.1	12.8		15.3		17.2		19.1		20.1
TJM16-64	+0.7mm	+0mm -0.58mm	64	20.8	16.0	333 19.2 22.8 26.7		400	21.6	450	24.0	500	25.3
TJM16-76	-Omm		76	17.5	19.0		100000000000000000000000000000000000000	1000000	25.7	(0.770)	28.5	(2000)	30.0
TJM16-89	674740	Barrio Carrio	89	15.0	22.3		1.75		30.0		33.4		35.2
TJM16-102			102	13.1	25.5		30.6		34.4		38.3		40.3
TJM16-115			115	11.6	28.8		34.5		38.8		43.1		45.4
TJM16-127			127	10.5	31.8		38.1		42.9		47.6		50.2
TJM16-305			305	4.4	76.3		91.5		102.9		114.4		120.5
TJM20-25			25	85.3	6.3		7.5		8.4		9.4		9.9
TJM20-32			32	66.7	8.0		9.6		10.8		12.0		12.6
TJM20-38			38	56.1	9.5		11.4		12.8		14.3		15.0
TJM20-44			44	48.5	11.0		13.2		14.9		16.5		17.4
TJM20-51			51	41.8	12.8		15.3		17.2		19.1		20.1
TJM20-64			64	33.3	16.0		19.2		21.6		24.0		25.3
TJM20-76	20.0	10.0	76	28.1	19.0		22.8		25.7		28.5		30.0
TJM20-89	Transfer and the		89	24.0	22.3	533	26.7	640	30.0	720	33.4	900	35.2
TJM20-102	+0.84mm	+0mm	102	20.9	25.5	533	30.6	640	34.4	720	38.3	800	40.3
TJM20-115	-Omm	-0.58mm	115	18.6	28.8		34.5		38.8		43.1	1	45.4
TJM20-127			127	16.8	31.8		38.1		42.9		47.6		50.2
TJM20-139			139	15.3	34.8		41.7		46.9		52.1	1	54.9
TJM20-152			152	14.0	38.0		45.6		51.3		57.0		60.0
TJM20-178			178	12.0	44.5		53.4		60.1		66.8		70.3
TJM20-203			203	10.5	50.8		60.9		68.5		76.1		80.2
TJM20-305			305	7.0	76.3		91.5		102.9		114.4		120.5
TJM25-25			25	128.0	6.3		7.5		8.4		9.4		9.9
TJM25-32			32	100.0	8.0		9.6		10.8		12.0		12.6
TJM25-38	25.0	12.5	38	84.2	9.5		11.4		12.8		14.3		15.0
TJM25-44	W 000 St0 St	A PERCONAL	44	72.7	11.0	800	13.2	960	14.9	1 000	16.5	1 200	17.4
TJM25-44 TJM25-51	+0.84mm	+0mm	51	62.7	12.8	000	15.3	900	17.2	1,080	19.1	1,200	20.1
TJM25-64	-O mm	-0.7mm	64	50.0	16.0		19.2		21.6		24.0		25.3
				7.7.7.	1,777				100000000000000000000000000000000000000				100000000000000000000000000000000000000
TJM25-76			76	42.1	19.0		22.8		25.7	-	28.5	10	30.0

Referência	Diam. do Furo	Diam. do Pino	Compr. Total	Constante Elástica	3milhõe	ompr. total es ciclos nados	30% do co 1,5milhões estim	de ciclos	33,75% do o 500mil estima	cíclos	37.5% do c 200mill estim	ciclos	Compress Total (mm)
	(mm)	(mm)	(mm)	(N/mm)	Deflexão	Carga	Deflexão	Carga	Deflexão	Carga	Deflexão	Carga	
TJM25-89			89	36.0	22.3		26.7		30.0		33.4		35.2
TJM25-102			102	31.4	25.5		30.6		34.4		38.3		40.3
TJM25-115			115	27.8	28.8		34.5		38.8		43.1		45.4
TJM25-127	05.0	10.5	127	25.2	31.8	į.	38.1		42.9		47.6	1	50.2
TJM25-139	25.0	12.5	139	23.0	34.8	000	41.7	000	46.9	1.000	52.1	1 200	54.9
TJM25-152	+0.84 mm	+0mm	152	21.1	38.0	800	45.6	960	51.3	1,080	57.0	1,200	60.0
TJM25-178	-Omm	-0.7 mm	178	18.0	44.5		53.4		60.1		66.8		70.3
TJM25-203			203	15.8	50.8		60.9		68.5		76.1	1	80.2
TJM25-229			229	14.0	57.3	l,	68.7		77.3		85.9	1	90.5
TJM25-305			305	10.5	76.3		91.5		102.9		114.4		120.5
TJM32-38			38	154.4	9.5		11.4		12.8		14.3		15.0
TJM32-44			44	133.3	11.0		13.2		14.9		16.5		17.4
TJM32-51			51	115.0	12.8		15.3		17.2		19.1		20.1
TJM32-64			64	91.7	16.0		19.2		21.6		24.0		25.3
TJM32-76			76	77.2	19.0		22.8		25.7		28.5		30.0
TJM32-89			89	65.9	22.3		26.7		30.0		33.4		35.2
TJM32-102	32.0	16.0	102	57.5	25.5		30.6		34.4		38.3		40.3
TJM32-115	+ 1 mm	+0mm	115	51.0	28.8	1,467	34.5	1,760	38.8	1,980	43.1	2,200	45.4
TJM32-127	-Omm	-0.7 mm	127	46.2	31.8	HOMESTAL .	38.1	1000000	42.9	A SECTION	47.6	100.1	50.2
TJM32-139	E-ASMINE.	S. A. William	139	42.2	34.8		41.7		46.9		52.1		54.9
TJM32-152			152	38.6	38.0		45.6 53.4		51.3		57.0		60.0
TJM32-178 TJM32-203			178 203	33.0 28.9	44.5 50.8		60.9		60.1		66.8 76.1		70.3
TJM32-203			229	25.6	57.3		68.7		68.5 77.3		85.9		80.2 90.5
TJM32-254			254	23.1	63.5		76.2		85.7		95.3		100.3
TJM32-305			305	19.2	76.3		91.5		102.9		114.4		120.5
TJM40-51			51	156.9	12.8		15.3		17.2		19.1		20.1
TJM40-64			64	125.0	16.0		19.2		21.6		24.0		25.3
TJM40-76		1	76	105.3	19.0		22.8		25.7		28.5		30.0
TJM40-89			89	89.9	22.3		26.7		30.0		33.4		35.2
TJM40-102			102	78.4	25.5		30.6		34.4		38.3		40.3
TJM40-115			115	69.6	28.8		34.5		38.8		43.1		45.4
TJM40-127	40.0	20.0	127	63.0	31.8		38.1		42.9		47.6		50.2
TJM40-139	+1 mm	+0mm	139	57.6	34.8	2,000	41.7	2,400	46.9	2,700	52.1	3,000	54.9
TJM40-152	-0 mm	-0.84mm	152	52.6	38.0		45.6		51.3		57.0		60.0
TJM40-178			178	44.9	44.5		53.4		60.1		66.8		70.3
TJM40-203			203	39.4	50.8		60.9		68.5		76.1		80.2
TJM40-229			229	34.9	57.3		68.7		77.3		85.9		90.5
TJM40-254			254	31.5	63.5		76.2		85.7		95.3		100.3
TJM40-305			305	26.2	76.3		91.5		102.9		114.4		120.5
TJM50-64			64	208.3	16.0		19.2		21.6		24.0		25.3
TJM50-76			76	175.4	19.0		22.8		25.7		28.5		30.0
TJM50-89			89	149.8	22.3		26.7		30.0		33.4		35.2
TJM50-102			102	130.7	25.5		30.6		34.4		38.3		40.3
TJM50-115			115	115.9	28.8		34.5		38.8		43.1		45.4
TJM50-127	50.0	25.0	127	105.0	31.8		38.1		42.9		47.6		50.2
TJM50-139	+ 1 mm	+0mm	139	95.9	34.8	3,333	41.7	4,000	46.9	4,500	52.1	5,000	54.9
TJM50-152	-Omm	-0.84mm	152	87.7	38.0		45.6		51.3		57.0		60.0
TJM50-178			178	74.9	44.5		53.4		60.1		66.8		70.3
TJM50-203			203	65.7	50.8		60.9		68.5		76.1		80.2
TJM50-229			229	58.2	57.3		68.7		77.3		85.9		90.5
TJM50-254			254	52.5	63.5		76.2		85.7		95.3		100.3
TJM50-305			305	43.7	76.3		91.5		102.9		114.4		120.5
TJM63-76			76	280.7	19.0		22.8		25.7		28.5		30.0
TJM63-89			89	239.7	22.3		26.7		30.0		33.4		35.2
TJM63-102			102	209.2	25.5		30.6		34.4		38.3		40.3
TJM63-115	00.0		115	185.5	28.8		34.5		38.8		43.1		45.4
TJM63-127	63.0	38.0	127	168.0	31.8	E 000	38.1	6 400	42.9	7 200	47.6	0,000	50.2
TJM63-152	+1.2mm	+0mm -0.1mm	152	140.4	38.0 44.5	5,333	45.6	6,400	51.3	7,200	57.0	8,000	60.0
TJM63-178	-Omm	-U.1mm	178	119.9	50.8		53.4		60.1		66.8		70.3
TJM63-203 TJM63-229			203	105.1 93.2	57.3		60.9 68.7		68.5 77.3		76.1 85.9		90.5
TJM63-254			254	84.0	63.5		76.2		85.7		95.3		100.3
100-204			305	69.9	76.3		91.5		102.9		114.4		120.5

TOHATSU ISO STANDARD SPCINGS





Referência	Diam.	Diam.	Compr.	Constante	20% do co 3milhõe estim	ompr. total es ciclos nados	25% do co 1,5milhões estima	de ciclos	27.5% do co 500mil estima	ciclos	30% do co 200mil estim	ciclos	Compressão Total
100000000000000000000000000000000000000	do Furo (mm)	do Pino (mm)	Total (mm)	Elástica (N/mm)	Deflexão	Carga	Deflexão	Carga	Deflexão	Carga	Deflexão	Carga	(mm)
TJH10-25			25	26.7	5.0		6.3		6.9		7.5		8.0
TJH10-32			32	20.8	6.4		8.0		8.8		9.6	1	10.2
TJH10-38			38	17.5	7.6		9.5		10.5		11.4		12.2
TJH10-44	40.0		44	15.2	8.8		11.0		12.1		13.2		14.1
TJH10-51	10.0	5.0	51	13.1	10.2	400	12.8	4.07	14.0	400	15.3		16.3
TJH10-64	+0.58mm	+0mm	64	10.4	12.8	133	16.0	167	17.6	183	19.2	200	20.5
TJH10-76	-0 mm	-0.58 mm	76	8.8	15.2		19.0		20.9		22.8		24.3
TJH10-89			89	7.5	17.8		22.3		24.5		26.7		28.5
TJH10-102			102	6.5	20.4		25.5		28.1		30.6		32.6
TJH10-305			305	2.2	61.0		76.3		83.9		91.5		97.6
TJH12.5-25			25	44.0	5.0		6.3		6.9		7.5		8.0
TJH12.5-32			32	34.4	6.4		8.0		8.8		9.6		10.2
TJH12.5-38			38	28.9	7.6		9.5		10.5		11.4		12.2
TJH12.5-44			44	25.0	8.8		11.0		12.1		13.2		14.1
TJH12.5-51	12.5	6.3	51	21.6	10.2		12.8		14.0		15.3		16.3
TJH12.5-64	+0.7mm	+Omm	64	17.2	12.8	220	16.0	275	17.6	303	19.2	330	20.5
TJH12.5-76	-Omm	-0.58mm	76	14.5	15.2		19.0	25755	20.9		22.8	200	24.3
TJH12.5-89	33777		89	12.4	17.8	1	22.3		24.5		26.7		28.5
TJH12.5-102			102	10.8	20.4		25.5		28.1		30.6		32.6
TJH12.5-115			115	9.6	23.0	1	28.8		31.6		34.5		36.8
TJH12.5-305			305	3.6	61.0		76.3		83.9		91.5		97.6
TJH16-25			25	80.0	5.0		6.3		6.9		7.5		8.0
TJH16-32			32	62.5	6.4		8.0		8.8		9.6		10.2
TJH16-38			38	52.6	7.6		9.5		10.5		11.4		12.2
TJH16-44			44	45.5	8.8		11.0		12.1		13.2		14.1
TJH16-51			51	39.2	10.2	400	12.8		14.0		15.3		16.3
TJH16-64	16.0	8.0	64	31.3	12.8		16.0		17.6		19.2		20.5
TJH16-76	+0.7mm	+0mm	76	26.3	15.2		19.0	500	20.9	550	22.8	600	24.3
TJH16-89	-Omm	-0.58mm	89	22.5	17.8		22.3		24.5		26.7		28.5
TJH16-102			102	19.6	20.4		25.5		28.1		30.6		32.6
TJH16-115			115	17.4	23.0		28.8		31.6		34.5		36.8
TJH16-127	1		127	15.7	25.4		31.8		34.9		38.1		40.6
TJH16-305			305	6.6	61.0		76.3		83.9		91.5	1	97.6
TJH20-25			25	160.0	5.0		6.3		6.9		7.5		8.0
TJH20-23			32	125.0	6.4		8.0		8.8		9.6	1	10.2
TJH20-32 TJH20-38			38	105.3	7.6		9.5		10.5		11.4		12.2
TJH20-44			10.700	14 (3) (3) (3)	10000		0.7000		136733		21/05/22	1	100000
TJH20-44 TJH20-51			44 51	90.9 78.4	8.8 10.2		11.0		12.1		13.2		14.1
TJH20-64			64	62.5	12.8		12.8 16.0		14.0		19.2		16.3
			7.7	200	100000000000000000000000000000000000000		0.000		1.10.11.11.11.11.11.11.11.11.11.11.11.11				
TJH20-76	20.0	10.0	76	52.6	15.2		19.0		20.9		22.8		24.3
TJH20-89 TJH20-102	+0.84mm	+0mm	89	44.9 39.2	17.8	800	22.3	1,000	24.5	1,100	26.7 30.6	1,200	28.5 32.6
	-Omm	-0.58mm	102	W/1500		1300000	25.5		28.1			2 3 2 3 1 6 5	
TJH20-115	TWO CALL	Control Control Control	115	34.8	23.0		28.8		31.6		34.5		36.8
TJH20-127			127	31.5	25.4		31.8		34.9		38.1		40.6
TJH20-139			139	28.8	27.8		34.8		38.2		41.7		44.5
TJH20-152			152	26.3	30.4		38.0		41.8		45.6		48.6
TJH20-178			178	22.5	35.6		44.5		49.0		53.4		57.0
TJH20-203			203	19.7	40.6		50.8		55.8		60.9		65.0
TJH20-305			305	13.1	61.0		76.3		83.9		91.5		97.6
TJH25-25			25	266.7	5.0		6.3		6.9		7.5		8.0
TJH25-32			32	208.3	6.4		8.0		8.8		9.6		10.2
TJH25-38	25.0	12.5	38	175.4	7.6		9.5		10.5		11.4		12.2
TJH25-44	+0.84mm	+0mm	44	151.5	8.8	1,333	11.0	1,667	12.1	1,833	13.2	2,000	14.1
TJH25-51	-Omm	-0.7mm	51	130.7	10.2	14455	12.8	(10000)	14.0		15.3		16.3
TJH25-64			64	104.2	12.8		16.0		17.6		19.2		20.5
TJH25-76			76	87.7	15.2		19.0		20.9		22.8		24.3
TJH25-89			89	74.9	17.8		22.3		24.5		26.7		28.5

TOHATSU ISO STANDARD Springs





Referência	Diam. do Furo	Diam. do Pino	Compr. Total	Constante Elástica	20% do c 3milhõe estin	ompr. total es ciclos nados	25% do co 1,5milhões estim	de ciclos	27.5% do co 500mil estima	ciclos	30% do co 200mil estim	ciclos	Compressão Total (mm)
	(mm)	(mm)	(mm)	(N/mm)	Deflexão	Carga	Deflexão	Carga	Deflexão	Carga	Deflexão	Carga	
TJH25-102			102	65.4	20.4		25.5		28.1		30.6		32.6
TJH25-115			115	58.0	23.0		28.8		31.6		34.5		36.8
TJH25-127			127	52.5	25.4		31.8		34.9		38.1		40.6
TJH25-139	25.0	12.5	139	48.0	27.8		34.8	1000000000	38.2		41.7		44.5
TJH25-152	+0.84mm	+0mm	152	43.9	30.4	1,333	38.0	1,667	41.8	1,833	45.6	2,000	48.6
TJH25-178	-Omm	-0.7mm	178	37.5	35.6		44.5		49.0		53.4		57.0
TJH25-203			203	32.8	40.6		50.8		55.8		60.9		65.0
TJH25-229			229	29.1	45.8		57.3		63.0		68.7		73.3
TJH25-305			305	21.9	61.0		76.3		83.9		91.5		97.6
TJH32-38			38	298.2	7.6		9.5		10.5		11.4		12.2
TJH32-44			44	257.6	8.8		11.0		12.1		13.2		14.1
TJH32-51			51	222.2	10.2		12.8		14.0		15.3		16.3
TJH32-64			64	177.1	12.8		16.0		17.6		19.2		20.5
TJH32-76			76	149.1	15.2		19.0		20.9		22.8		24.3
TJH32-89			89	127.3	17.8		22.3		24.5		26.7		28.5
TJH32-102	32.0	16.0	102	111.1	20.4		25.5		28.1		30.6		32.6
TJH32-115	+1 mm	+0mm	115	98.6	23.0	2,267	28.8	2,833	31.6	3,117	34.5	3,400	36.8
TJH32-127	-Omm	-0.7 mm	127	89.2	25.4		31.8	8	34.9		38.1		40.6
TJH32-139	0000		139	81.5	27.8		34.8		38.2		41.7		44.5
TJH32-152			152	74.6	30.4		38.0		41.8		45.6		48.6
TJH32-178			178	63.7	35.6		44.5		49.0		53.4		57.0
TJH32-203			203	55.8	40.6		50.8		55.8		60.9		65.0
TJH32-229			229	49.5	45.8		57.3		63.0		68.7		73.3
TJH32-254			254	44.6	50.8		63.5		69.9		76.2		81.3
TJH32-305			305	37.2	61.0		76.3		83.9		91.5		97.6
TJH40-51			51	326.8	10.2		12.8		14.0		15.3		16.3
TJH40-64			64 76	260.4	12.8 15.2		16.0 19.0		17.6 20.9		19.2 22.8		20.5
TJH40-76			89	187.3	17.8		22.3		24.5		26.7		24.3
TJH40-89 TJH40-102			102	163.4	20.4		25.5		28.1		30.6		32.6
			115	144.9	23.0		28.8		31.6		34.5		36.8
TJH40-115 TJH40-127	40.0	20.0	127	131.2	25.4		31.8		34.9		38.1		40.6
TJH40-127	+1 mm	+0mm	139	119.9	27.8	3,333	34.8	4,167	38.2	4,583	41.7	5,000	44.5
TJH40-152	-0 mm	-0.84mm	152	109.6	30.4		38.0		41.8		45.6		48.6
TJH40-178			178	93.6	35.6		44.5		49.0		53.4		57.0
TJH40-203			203	82.1	40.6		50.8		55.8		60.9		65.0
TJH40-229			229	72.8	45.8		57.3		63.0		68.7		73.3
TJH40-254			254	65.6	50.8		63.5		69.9		76.2		81.3
TJH40-305			305	54.6	61.0		76.3		83.9		91.5		97.6
TJH50-64			64	390.6	12.8		16.0		17.6		19.2		20.5
TJH50-76			76	328.9	15.2		19.0		20.9		22.8		24.3
TJH50-89			89	280.9	17.8		22.3		24.5		26.7		28.5
TJH50-102			102	245.1	20.4		25.5		28.1		30.6		32.6
TJH50-115			115	217.4	23.0		28.8		31.6		34.5		36.8
TJH50-127	50.0	25.0	127	196.9	25.4		31.8		34.9		38.1		40.6
TJH50-139	+1 mm	+0mm	139	179.9	27.8	5,000	34.8	6,250	38.2	6.875	41.7	7,500	44.5
TJH50-152	-Omm	-0.84mm	152	164.5	30.4		38.0	51636	41.8		45.6	16/1055	48.6
TJH50-178	SESSIVIE.	3233//UIC	178	140.4	35.6		44.5		49.0		53.4		57.0
TJH50-203			203	123.2	40.6		50.8		55.8		60.9		65.0
TJH50-229			229	109.2	45.8		57.3		63.0		68.7		73.3
TJH50-254			254	98.4	50.8		63.5		69.9		76.2		81.3
TJH50-305			305	82.0	61.0		76.3		83.9		91.5		97.6

Brohatsu iso standard Springs





Referência	Diam. do Furo	Diam. do Pino	Compr. Total	Constante Elástica	3milhõe	ompr. total es ciclos nados	20% do co 1,5milhões estima	de ciclos	22.5% do co 500mil estima	ciclos	25% do co 200mil estim	l ciclos	Compressã Total (mm)
	(mm)	(mm)	(mm)	(N/mm)	Deflexão	Carga	Deflexão	Carga	Deflexão	Carga	Deflexão	Carga	
TJB10-25			25	36.8	4.3		5.0		5.6		6.3		6.8
TJB10-32			32	28.8	5.4		6.4		7.2		8.0		8.6
TJB10-38			38	24.2	6.5		7.6		8.6		9.5		10.3
TJB10-44	100		44	20.9	7.5		8.8		9.9		11.0		11.9
TJB10-51	10.0	5.0	51	18.0	8.7	450	10.2	104	11.5	207	12.8	220	13.8
TJB10-64	+0.58mm	+0mm	64	14.4	10.9	156	12.8	184	14.4	207	16.0	230	17.3
TJB10-76	-Omm	-0.58mm	76	12.1	12.9		15.2		17.1		19.0		20.5
TJB10-89			89	10.3	15.1		17.8		20.0		22.3		24.0
TJB10-102			102	9.0	17.3		20.4		23.0		25.5		27.5
TJB10-305			305	3.0	51.9		61.0		68.6		76.3		82.4
TJB12.5-25			25	57.6	4.3		5.0		5.6		6.3		6.8
TJB12.5-32			32	45.0	5.4		6.4		7.2		8.0		8.6
TJB12.5-38			38	37.9	6.5		7.6		8.6		9.5		10.3
TJB12.5-44			44	32.7	7.5		8.8		9.9		11.0		11.9
TJB12.5-51	12.5	6.3	51	28.2	8.7		10.2		11.5		12.8		13.8
TJB12.5-64	+0.7mm	+Omm	64	22.5	10.9	245	12.8	288	14.4	324	16.0	360	17.3
TJB12.5-76	-Omm	-0.58mm	76	18.9	12.9	05,125	15.2		17.1		19.0		20.5
TJB12.5-89	THE REAL PROPERTY.		89	16.2	15.1		17.8		20.0		22.3		24.0
TJB12.5-102			102	14.1	17.3		20.4		23.0		25.5		27.5
TJB12.5-115			115	12.5	19.6		23.0		25.9		28.8		31.1
TJB12.5-305			305	4.7	51.9		61.0		68.6		76.3		82.4
TJB16-25			25	112.0	4.3		5.0		5.6		6.3		6.8
TJB16-32			32	87.5	5.4		6.4		7.2		8.0		8.6
TJB16-38			38	73.7	6.5		7.6		8.6		9.5		10.3
TJB16-44			44	63.6	7.5		8.8		9.9		11.0		11.9
TJB16-51			51	54.9	8.7		10.2		11.5		12.8		13.8
TJB16-64	16.0	8.0	64	43.8	10.9		12.8		14.4		16.0		17.3
TJB16-76	+0.7mm	+0 mm	76	36.8	12.9	476		560	17.1	630	19.0	700	20.5
TJB16-89	-Omm	-0.58 mm	89	31.5	15.1		15.2 17.8 20.4		20.0		22.3		24.0
TJB16-102			102	27.5	17.3				23.0		25.5		27.5
TJB16-115			115	24.3	19.6		23.0		25.9		28.8		31.1
TJB16-113			127	22.0	21.6		25.4		28.6		31.8		34.3
TJB16-305			305	9.2	51.9				68.6		76.3		82.4
TJB20-25			25	240.0	4.3		61.0 5.0		5.6		6.3		6.8
			1000	100000000000000000000000000000000000000	15.29				100000		200		
TJB20-32			32	187.5	5.4		6.4		7.2		8.0		8.6
TJB20-38 TJB20-44			44	157.9	6.5 7.5		7.6		8.6		9.5		10.3
			7.974	136.4	1,000		8.8		9.9		11.0		11.9
TJB20-51 TJB20-64			51 64	117.6 93.8	8.7 10.9		10.2		11.5		12.8 16.0		13.8
			100	7377.337	100000000000000000000000000000000000000						1000000		17.3
TJB20-76	20.0	10.0	76	78.9	12.9		15.2		17.1		19.0		20.5
TJB20-89	+0.84 mm	+0mm	89	67.4	15.1	1,020	17.8	1,200	20.0	1,350	22.3	1,500	24.0
TJB20-102	-Omm	-0.58mm	102	58.8	17.3		20.4		23.0		25.5		27.5
TJB20-115	- Andrews		115	52.2	19.6		23.0		25.9		28.8		31.1
TJB20-127			127	47.2	21.6		25.4		28.6		31.8		34.3
TJB20-139			139	43.2	23.6		27.8		31.3		34.8		37.5
TJB20-152			152	39.5	25.8		30.4		34.2		38.0		41.0
TJB20-178			178	33.7	30.3		35.6		40.1		44.5		48.1
TJB20-203			203	29.6	34.5		40.6		45.7		50.8		54.8
TJB20-305			305	19.7	51.9		61.0		68.6		76.3		82.4
TJB25-32			32	312.5	5.4		6.4		7.2		8.0		8.6
TJB25-38			38	263.2	6.5		7.6		8.6		9.5		10.3
TJB25-44	25.0	12.5	44	227.3	7.5		8.8		9.9		11.0		11.9
TJB25-51	+0.84 mm	+0 mm	51	196.1	8.7	1,700	10.2	2,000	11.5	2,250	12.8	2,500	13.8
TJB25-64	-Omm	-0.7mm	64	156.3	10.9	1,100	12.8	2,000	14.4	2,200	16.0	2,000	17.3
TJB25-76		O. F mind	76	131.6	12.9		15.2		17.1		19.0		20.5
TJB25-89			89	112.4	15.1		17.8		20.0		22.3		24.0
TJB25-102			102	98.0	17.3		20.4		23.0		25.5		27.5

TOHATSU ISO STANDARD Springs





Referência	Diam. do Furo	Diam. do Pino	Compr. Total	Constante	17% do co 3milhõe estim	s ciclos	20% do co 1,5milhões estima	de ciclos	22.5% do co 500mil estima	ciclos	25% do co 200mil estim	ciclos	Compressão Total (mm)
	(mm)	(mm)	(mm)	Elástica (N/mm)	Deflexão	Carga	Deflexão	Carga	Deflexão	Carga	Deflexão	Carga	yang.
TJB25-115			115	87.0	19.6		23.0		25.9		28.8		31.1
TJB25-127			127	78.7	21.6		25.4		28.6		31.8		34.3
TJB25-139	05.0	40.5	139	71.9	23.6		27.8		31.3		34.8		37.5
TJB25-152	25.0	12.5	152	65.8	25.8	. ===	30.4		34.2	0.050	38.0	0.500	41.0
TJB25-178	+0.84 mm	+0mm	178	56.2	30.3	1,700	35.6	2,000	40.1	2,250	44.5	2,500	48.1
TJB25-203	-Omm	-0.7 mm	203	49.3	34.5		40.6		45.7		50.8		54.8
TJB25-229			229	43.7	38.9		45.8		51.5		57.3		61.8
TJB25-305			305	32.8	51.9		61.0		68.6		76.3		82.4
TJB32-38			38	421.1	6.5		7.6		8.6		9.5		10.3
TJB32-44			44	363.6	7.5		8.8		9.9		11.0		11.9
TJB32-51			51	313.7	8.7		10.2		11.5		12.8		13.8
TJB32-64			64	250.0	10.9		12.8		14.4		16.0		17.3
TJB32-76			76	210.5	12.9		15.2		17.1		19.0		20.5
TJB32-89			89	179.8	15.1		17.8		20.0		22.3		24.0
TJB32-102	20.0	100	102	156.9	17.3		20.4		23.0		25.5		27.5
TJB32-115	32.0	16.0	115	139.1	19.6	0.700	23.0	2 200	25.9	2 000	28.8	4.000	31.1
TJB32-127	+1 mm	+0mm	127	126.0	21.6	2,720	25.4	3,200	28.6	3,600	31.8	4,000	34.3
TJB32-139	-0 mm	-0.7 mm	139	115.1	23.6		27.8		31.3		34.8		37.5
TJB32-152			152	105.3	25.8		30.4		34.2		38.0		41.0
TJB32-178			178	89.9	30.3		35.6		40.1		44.5		48.1
TJB32-203			203	78.8	34.5		40.6		45.7		50.8		54.8
TJB32-229			229	69.9	38.9		45.8		51.5		57.3		61.8
TJB32-254			254	63.0	43.2		50.8		57.2		63.5		68.6
TJB32-305			305	52.5	51.9		61.0		68.6		76.3		82.4
TJB40-51			51	509.8	8.7		10.2		11.5		12.8		13.8
TJB40-64			64	406.3	10.9		12.8		14.4		16.0		17.3
TJB40-76			76	342.1	12.9		15.2		17.1		19.0		20.5
TJB40-89			89	292.1	15.1		17.8		20.0		22.3		24.0
TJB40-102			102	254.9	17.3		20.4		23.0		25.5		27.5
TJB40-115	40.0	20.0	115	226.1	19.6		23.0		25.9		28.8		31.1
TJB40-127		+0mm	127	204.7	21.6	4.420	25.4	5,200	28.6	5,850	31.8	6.500	34.3
TJB40-139	+ 1 mm - 0 mm	CONTRACTOR OF THE PARTY OF THE	139	187.1	23.6	4,420	27.8	5,200	31.3	5,050	34.8	0,500	37.5
TJB40-152	-Umm	-0.84mm	152	171.1	25.8		30.4		34.2		38.0		41.0
TJB40-178			178	146.1	30.3		35.6		40.1		44.5		48.1
TJB40-203			203	128.1	34.5		40.6		45.7		50.8		54.8
TJB40-229			229	113.5	38.9		45.8		51.5		57.3		61.8
TJB40-254			254	102.4	43.2		50.8		57.2		63.5		68.6
TJB40-305			305	85.2	51.9		61.0		68.6		76.3		82.4
TJB50-64			64	625.0	10.9		12.8		14.4		16.0		17.3
TJB50-76			76	526.3	12.9		15.2		17.1		19.0		20.5
TJB50-89			89	449.4	15.1		17.8		20.0		22.3		24.0
TJB50-102			102	392.2	17.3		20.4		23.0		25.5		27.5
TJB50-115			115	347.8	19.6		23.0		25.9		28.8		31.1
TJB50-127	50.0	25.0	127	315.0	21.6		25.4		28.6		31.8		34.3
TJB50-139	+ 1 mm	+0 mm	139	287.8	23.6	6,800	27.8	8,000	31.3	9,000	34.8	10,000	37.5
TJB50-152	-Omm	-0.84mm	152	263.2	25.8		30.4		34.2		38.0		41.0
TJB50-178			178	224.7	30.3		35.6		40.1		44.5		48.1
TJB50-203			203	197.0	34.5		40.6		45.7		50.8		54.8
TJB50-229			229	174.7	38.9		45.8		51.5		57.3		61.8
TJB50-254			254	157.5	43.2		50.8		57.2		63.5		68.6
TJB50-305			305	131.1	51.9		61.0		68.6		76.3		82.4

TOHATSU

Especificações Originais



Referência	Diam. do Furo		Compr. Total	Constante	20% do compr. total 3milhões ciclos estimados		25% do compr. total 1,5milhões de ciclos estimados		27.5% do co 500mil estima	ciclos	30% do co 200mil estim	ciclos	Compressão Total (mm)
	(mm)	(mm)	(mm)	Elástica (N/mm)	Deflexão	Carga	Deflexão	Carga	Deflexão	Carga	Deflexão	Carga	(11111)
TJH63-76			76	526.3	15.2		19.0		20.9		22.8		24.3
TJH63-89			89	449.4	17.8		22.3		24.5		26.7	12,000	28.5
TJH63-102			102	392.2	20.4		25.5	10,000	28.1		30.6		32.6
TJH63-115		38.0	115	347.8	23.0		28.8		31.6		34.5		36.8
TJH63-127	63.0		127	315.0	25.4		31.8		34.9	11,000	38.1		40.6
TJH63-152	+1.2mm	+0mm	152	263.2	30.4	8,000	38.0		41.8		45.6		48.6
TJH63-178	-Omm	-0.1mm	178	224.7	35.6		44.5		49.0		53.4		57.0
TJH63-203			203	197.0	40.6		50.8		55.8		60.9		65.0
TJH63-229			229	174.7	45.8		57.3		63.0		68.7		73.3
TJH63-254			254	157.5	50.8		63.5		69.9		76.2		81.3
TJH63-305			305	131.1	61.0		76.3		83.9		91.5		97.6

	Diam. do Furo		1 2 1	Constante	17% do compr. total 3milhões ciclos estimados		20% do compr. total 1,5milhões de ciclos estimados		22.5% do co 500mil estima	ciclos	25% do co 200mil estim	ciclos	Compressão Total (mm)
	(mm)	(mm)	(mm)	Elástica (N/mm)	u u		Deflexão	Carga	Deflexão	Carga	Deflexão	Carga	()
TJB63-76			76	842.1	12.9		15.2		17.1		*	*	18.6
TJB63-89			89	719.1	15.1		17.8		20.0		aje .	*	21.8
TJB63-102			102	627.5	17.3		20.4	23.0		25.5	100	27.5	
TJB63-115			115	556.5	19.6		23.0	12,800	25.9		28.8	16,000	31.1
TJB63-127	63.0	38.0	127	503.9	21.6		25.4		28.6	14,400	31.8		34.3
TJB63-152	+1.2mm	+Omm	152	421.1	25.8	10,880	30.4		34.2		38.0		41.0
TJB63-178	-Omm	-0.1mm	178	359.6	30.3		35.6		40.1		44.5		48.1
TJB63-203	1000000		203	315.3	34.5		40.6		45.7		50.8		54.8
TJB63-229			229	279.5	38.9		45.8	51.5		57.3		61.8	
TJB63-254			254	252.0	43.2		50.8		57.2		63.5		68.6
TJB63-305			305	209.8	51.9	1	61.0		68.6		76.3	-	82.4

Esta linha de produtos foi desenvolvida com o objetivo de dar opções mais amplas aos projetistas.

Produtos que complementam nossa linha



MOLAS NORMA JIS Fabricação TOHATSU



CILINDROS DE NITROGÊNIO Fabricação AZOL-GÁS



CARRINHOS CUNHA Fabricação AZOL-GÁS

Caso haja int<mark>eresse nos pro</mark>dutos acima entre em contato conosco

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