



SANKYO OILLESS INDUSTRY

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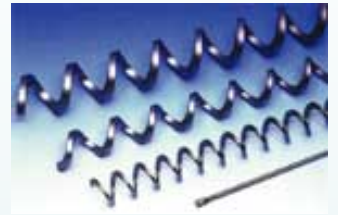
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Visit us at www.sankyo-oilless-usa.com

ISO Springs



TOHATSU
SPRINGS



JIS Springs



- Tohatsu ISO & JIS Springs are the most durable in the market.
- Tohastu springs meet a tolerance of maximum load of +/- 10%.
- Can make any custom or special requests

Tohatsu ISO Springs

Tohatsu is the No. 1 manufacturer of JIS springs in the Asian market. Consequently, we have developed Tohatsu ISO springs with many advantages compared to other springs that meet the ISO10243

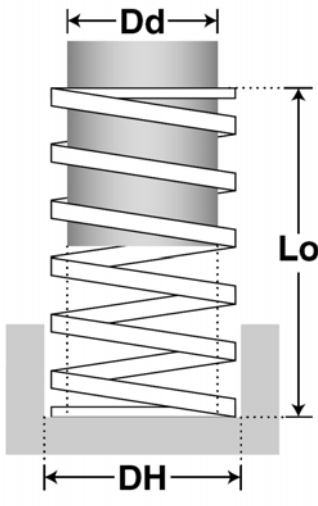
Tohatsu JIS Standard

The Tohatsu JIS Standard springs contribute to reducing the entire die size by adopting flat lines, and also standardized springs as die parts in our excellent product line. These are now trusted by users as standard products for press dies.

Deflection	25%Lo	30%Lo	35%Lo	40%Lo
Spring Life (Strokes)	3,000,000	1,500,000	500,000	200,000

Example of Durability : TJL (Light Load)

ISO10243 STD Spring



Example order: **TJL** **10** - **25** (**M** **DH** - **Lo**)

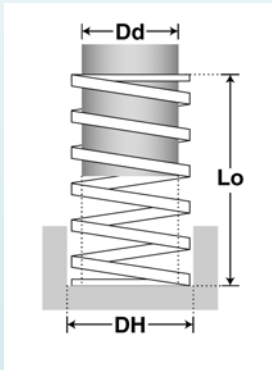
Light Loads-Green			
Model M	DH (mm)	Dd (mm)	Free Length Lo (mm)
TJL 10 -xx	10	5	25~305
TJL 12.5 -xx	12.5	6.3	25~305
TJL 16 -xx	16	8	25~305
TJL 20 -xx	20	10	25~305
TJL 25 -xx	25	12.5	25~305
TJL 32 -xx	32	16	38~305
TJL 40 -xx	40	20	51~305
TJL 50 -xx	50	25	64~305
TJL 63 -xx	63	38	76~305

Medium Loads-Blue			
Model M	DH (mm)	Dd (mm)	Free Length Lo (mm)
TJM 10 -xx	10	4.8	25~305
TJM 12.5 -xx	12.5	6.3	25~305
TJM 16 -xx	16	8	25~305
TJM 20 -xx	20	10	25~305
TJM 25 -xx	25	12.5	25~305
TJM 32 -xx	32	16	38~305
TJM 40 -xx	40	20	51~305
TJM 50 -xx	50	25	64~305
TJM 63 -xx	63	38	76~305

Heavy Loads-Red			
Model M	DH (mm)	Dd (mm)	Free Length Lo (mm)
TJH 10 -xx	10	4.8	25~305
TJH 12.5 -xx	12.5	6.3	25~305
TJH 16 -xx	16	8	25~305
TJH 20 -xx	20	10	25~305
TJH 25 -xx	25	12.5	25~305
TJH 32 -xx	32	16	38~305
TJH 40 -xx	40	20	51~305
TJH 50 -xx	50	25	64~305
TJH 63 -xx	63	38	76~305

Extra Heavy Loads-Yellow			
Model M	DH (mm)	Dd (mm)	Free Length Lo (mm)
TJB 10 -xx	10	5	25~305
TJB 12.5 -xx	12.5	6.3	25~305
TJB 16 -xx	16	8	25~305
TJB 20 -xx	20	11	25~305
TJB 25 -xx	25	12.5	25~305
TJB 32 -xx	32	16	38~305
TJB 40 -xx	40	22	51~305
TJB 50 -xx	50	27.5	64~305
TJB 63 -xx	63	38	76~305

JIS STD Spring



Example order: **TF** **10** - **25** (**M** **DH** - **Lo**)

Lightest Loads-Yellow			
Model M	DH (mm)	Dd (mm)	Free Length Lo (mm)
TF 8 -xx	8	4	10~80
TF 10 -xx	10	5	20~90
TF 12 -xx	12	6	20~90
TF 14 -xx	14	7	25~100
TF 16 -xx	16	8	25~125
TF 18 -xx	18	9	25~125
TF 20 -xx	20	11	25~150
TF 22 -xx	22	11	25~150
TF 25 -xx	25	13.5	25~200
TF 27 -xx	27	13.5	25~200
TF 30 -xx	30	16	25~200
TF 35 -xx	35	19	40~200
TF 40 -xx	40	22	40~300
TF 50 -xx	50	27.5	50~500
TF 60 -xx	60	33	60~500
TF 70 -xx	70	38.5	70~350

Light Loads-Blue			
Model M	DH (mm)	Dd (mm)	Free Length Lo (mm)
TL 8 -xx	8	4	10~80
TL 10 -xx	10	5	20~90
TL 12 -xx	12	6	20~90
TL 14 -xx	14	7	25~100
TL 16 -xx	16	8	25~125
TL 18 -xx	18	9	25~125
TL 20 -xx	20	10	25~150
TL 22 -xx	22	11	25~150
TL 25 -xx	25	12.5	25~200
TL 27 -xx	27	13.5	25~200
TL 30 -xx	30	15	25~200
TL 35 -xx	35	17.5	40~200
TL 40 -xx	40	20	40~300
TL 50 -xx	50	25	50~500
TL 60 -xx	60	30	60~500
TL 70 -xx	70	38.5	70~350

Middle Range Loads-Red			
Model M	DH (mm)	Dd (mm)	Free Length Lo (mm)
TM 8 -xx	8	4	10~80
TM 10 -xx	10	5	20~90
TM 12 -xx	12	6	20~90
TM 14 -xx	14	7	25~100
TM 16 -xx	16	8	25~125
TM 18 -xx	18	9	25~125
TM 20 -xx	20	10	25~150
TM 22 -xx	22	11	25~150
TM 25 -xx	25	12.5	25~200
TM 27 -xx	27	13.5	25~200
TM 30 -xx	30	15	25~200
TM 35 -xx	35	17.5	40~200
TM 40 -xx	40	20	40~300
TM 50 -xx	50	25	50~350
TM 60 -xx	60	30	60~350
TM 70 -xx	70	38.5	70~350

Heavy Loads-Green			
Model M	DH (mm)	Dd (mm)	Free Length Lo (mm)
TH 8 -xx	8	4	10~80
TH 10 -xx	10	5	20~90
TH 12 -xx	12	6	20~90
TH 14 -xx	14	7	25~100
TH 16 -xx	16	8	25~125
TH 18 -xx	18	9	25~125
TH 20 -xx	20	10	25~150
TH 22 -xx	22	11	25~150
TH 25 -xx	25	12.5	25~200
TH 27 -xx	27	13.5	25~200
TH 30 -xx	30	15	25~200
TH 35 -xx	35	17.5	40~200
TH 40 -xx	40	20	40~300
TH 50 -xx	50	25	50~350
TH 60 -xx	60	30	60~350
TH 70 -xx	70	38.5	70~350

Extremely Heavy Loads-Brown			
Model M	DH (mm)	Dd (mm)	Free Length Lo (mm)
TB 8 -xx	8	4	10~80
TB 10 -xx	10	5	20~90
TB 12 -xx	12	6	20~90
TB 14 -xx	14	7	25~100
TB 16 -xx	16	8	25~125
TB 18 -xx	18	9	25~125
TB 20 -xx	20	10	25~150
TB 22 -xx	22	11	25~150
TB 25 -xx	25	12.5	25~200
TB 27 -xx	27	13.5	25~200
TB 30 -xx	30	15	25~200
TB 35 -xx	35	17.5	40~200
TB 40 -xx	40	20	40~300
TB 50 -xx	50	25	50~350
TB 60 -xx	60	30	60~350
TB 70 -xx	70	38.5	70~350

For additional information visit www.tohatsu-springs.co.jp/english

Visit our website at www.sankyo-oilless-usa.com

Register for CAD download access or view our new product showcases and application sections.

Email our sales department sales@sankyo-usa.net or tech support at support@sankyo-usa.net