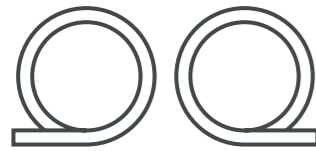


How to Measure Torsion Springs in 4 Steps

1. Wind

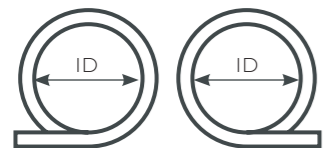


Left-Wind Right-Wind

2. Wire Size

LENGTH OF 10 COILS	LENGTH OF 20 COILS	WIRE SIZE	LENGTH OF 10 COILS	LENGTH OF 20 COILS	WIRE SIZE
1-1/4"	2-1/2"	.125	3-1/16"	6-1/8"	.306
1-3/8"	2-3/4"	.135	3-1/8"	6-1/4"	.312
1-7/16"	2-7/8"	.142	3-3/16"	6-3/8"	.319
1-1/2"	3"	.148	3-5/16"	6-5/8"	.331
1-9/16"	3-1/8"	.156	3-7/16"	6-7/8"	.343
1-5/8"	3-1/4"	.162	3-9/16"	7-1/4"	.362
1-11/16"	3-3/8"	.170	3-3/4"	7-1/2"	.375
1-3/4"	3-1/2"	.177	3-15/16"	7-7/8"	.393
1-7/8"	3-3/4"	.187	4-1/16"	8-1/8"	.406
1-15/16"	3-7/8"	.192	4-7/32"	8-1/4"	.421
2-1/16"	4-1/8"	.207	4-5/16"	8-5/8"	.430
2-3/16"	4-3/8"	.218	4-3/8"	8-3/4"	.437
2-1/4"	4-1/2"	.225	4-17/32"	9-1/8"	.453
2-5/16"	4-11/16"	.234	4-9/8"	9-1/4"	.461
2-7/16"	4-7/8"	.243	4-11/16"	9-3/8"	.468
2-1/2"	5"	.250	4-7/8"	9-3/4"	.490
2-5/8"	5-1/4"	.262	5"	10"	.500
2-3/4"	5-1/2"	.273	5-5/16"	10-5/8"	.531
2-13/16"	5-5/8"	.283	5-3/8"	11-1/4"	.562
2-7/8"	5-3/4"	.289	6-1/4"	12-1/2"	.625
2-15/16"	5-7/8"	.295			

3. Inside Diameter (ID)



1" to 10" Inside Diameters

4. Length



Technical Support

Our team of experts is available to help answer any questions you may have when it comes to garage door springs. If you need assistance with engineering a spring to fit your application, we are happy to take care of this.

Get Our APP: IDC Spring Calculator

Converting and engineering springs, calculating extension pull and finding IPPT is now easier!



idcspring.com

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Spring Material Types

Oil Tempered



- Wire Diameters .148 – .625
- All oil tempered springs are available cut-to-length or bulk snakes

Oil-tempered springs deliver strength and durability that is absolutely necessary when creating a garage door. There are few better options when you need springs to support heavy equipment. Despite their many benefits, oil-tempered wire springs remain an affordable choice.

Galvanized



- Wire Diameters .192 – .406
- All galvanized springs are available cut-to-length or bulk snakes

Galvanized springs provide an aesthetically appealing look to your garage build. They also come with great durability and the zinc within the galvanized coating allows the spring to remain rust free.

Black Coated



- Wire Diameters .148 – .406
- All black coated springs are available cut-to-length or bulk snakes

Black coated springs fight off rust and also hold their tension extremely well allowing your door to operate in balance for a long lifespan.

Square Wire



- Dimensions available .312 – .437
- All square wire springs are available cut-to-length or bulk snakes

Square wire is great for heavy commercial doors where duplex springs or standard torsion, duplex assemblies or dual-shaft assemblies are not an option. Square wire provides the strength to lift and lower those heavy doors.

Spring Construct Types

Torsion

Extension

Holmes One-Piece

Understanding Part Numbers

Part numbers for one-piece door springs use these codes to indicate End Types, Wire Size, Spring Length and whether a Connector is included.

PART NUMBER	END TYPE	WIRE SIZE	LENGTH	CONNECTOR INCLUDED
P928C	P	9	28"	C
SL728C	SL	7	28"	C
C328C	C	3	28"	C

Weight Chart for E900 Hardware Sets

Use this handy chart to determine the correct type and quantity of springs based on the weight of the door.

DOOR WEIGHT (LBS.)	END TYPE	WIRE SIZE
Up to 75	2	P928C
90 to 150	2	P728C
105 to 175	2	P528C
125 to 250	2	P328C
150 to 300	4	P728C
200 to 350	4	P528C

Obsolete with Replacement

SPRING TYPE	SPRING LENGTH	SPRING WIRE	REPLACE WITH
P715.S	15.5	0.177	NONE
P726	28	0.177	NONE
SL528	28	0.207	P528
SL530	30	0.207	P530
SL532	32	0.207	P532
SLR729L	29	0.177	SL729L*
SLR730L	30	0.177	SL730L*
SLR730S	30	0.177	SL730*
SLR730Y	30	0.177	SL730L*

* Special Order

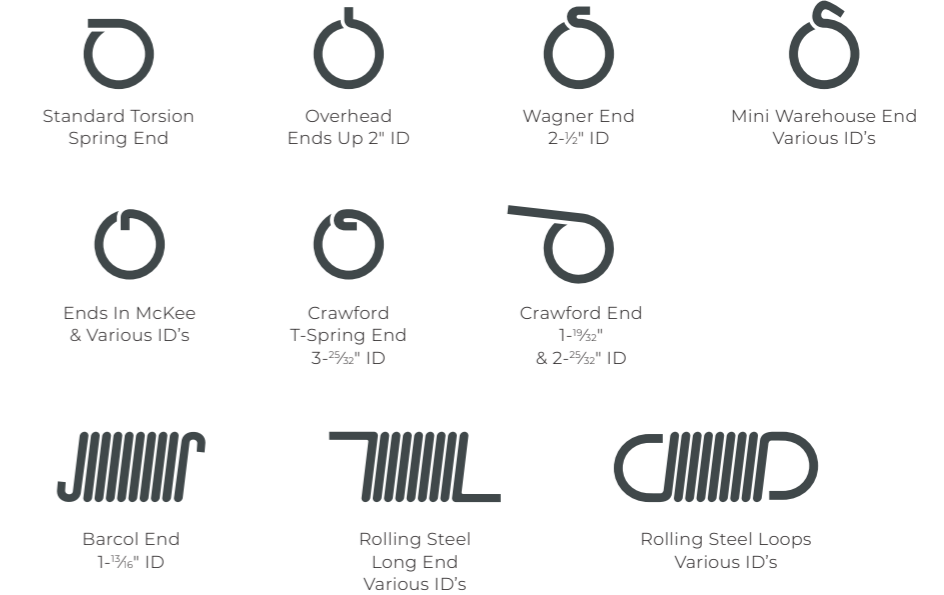
Balance King

The Balance King is designed for carriage style and residential doors to help with upward and downward travel when the top portion of the door is heavier than the bottom portion. The result is a completely balanced garage door that opens easily and closes safely and smoothly.

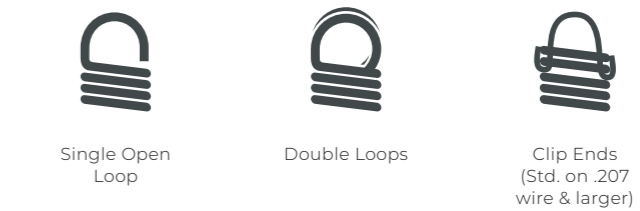


Spring End Types

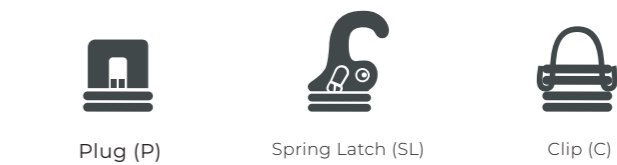
Torsion Spring Ends



Extension Spring Ends



Holmes One-Piece Spring Ends



Formulas

- Number of Coils × Wire Size = Spring Length
- OD – (2x Wire Size) = ID
- Number of Turns × Wire Size = Amount of Spring Growth
- Spring Length in Inches / Number of Coils = Wire Size
- Total IPPT of Door's Spring / Cable Drum Multiplier = Door Weight
- (Door Weight × Hi Moment Arm) / Number of Turns = Required IPPT
- Door Height / 2 = Stretch of Extension Spring