



Now Available From Stock!

S/S 17-7 PH CH-900
Stock Compression Spring Catalog

Alloy Spring Products



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Alloy Spring Productions

SPRING PRODUCTS INTERNATIONAL
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The need by industry for a better stock spring is now answered! Available for immediate shipment from stock: The Ultimate precision stocking program of S/S (17-7PH) CH-900 compression springs are now here. S/S (17-7) PH CH-900 Spring Tempered and Age Hardened to the highest possible physical properties. AMS 5673/ AISI631/ MIL-W-46078 – German Werkstoff NR. 1.568 (Table1) ASTM-A313

General Information about S/S 17/7 PH-CH900 Springs:

Corrosion Resistant

S/S 17-7 exhibits good corrosion resistance in most environments generally Superior to regular martensitic Stainless grades.

Strength:

S/S 17-7 being precipitation hardenable allows the Alloy to attain strengths approaching valve quality type carbon and Alloy Materials.

Heat Resistance:

Maintains excellent physical properties up to 550°F and can be used up to 700°F with some load loss due to thermal Relaxation.

Industrial Uses:

Springs made from S/S 17-7 have been the work horse for Aircraft, Aerospace, Valve Industry and Compressor Industries for many years.

Manufacturing Information:

All of our stock S/S(17-7) Compression Springs are Manufactured to the highest repeatable quality standards; by a separate division of our parent company Exper - Tech Products Co. Inc. World class customer service is our goal and Motto.

Non- Stock Items:

Even though we have tried to put together a complete stock list of straight compression springs there are always needs for items that may not be in the catalog. This is why having total committed support of our own Spring Manufacturing Division, we can fill any need for Springs that might occur. That is: Tapered and Barrel shaped Compression, Torsion, Extension, Bellville Washers, Wave Springs, Curved Washer and Stamped Flat Springs. In any Alloy or finish that you may need!

Engineering and Tolerance Information

Standard Nomenclature & Structure:

Free Length (Unloaded)

Range	Tolerance
.375" – 1.000"	+/- .015
1.001" – 2.250"	+/- .025
2.251" – 3.500"	+/- .045
3.501" – 4.500"	+/- .055
4.501" – 5.500"	+/- .065

Outside Diameter O.D.

O.D.'s are specified to fit a hole-size and a minimum clearance of .005 is maintained when the spring is deflected to solid, as the hole size increases the clearance increases up to .050"

Load at Solid Length

Approximate load when spring is fully compressed to solid length

Load @ Solid is +/- 10%

Rate (Expressed #/ Inch)

This is the Springs Constant if Deflected or traveled 1.0" Spring Rate is +/- 10%

Wire Size

Wire size is not listed and is reference only.

Solid Length

(When all coils are closed together by compressing)
Solid length is +/- 10%

Note: Not Specified attained by subtracting the travel from the free length.

Travel or Total Deflection

Approximate travel from Free Length to Solid length
Travel +/- 10%

Spring Life *

Static Service:

If used with no more than 60% of available travel approximately 1,000,000 cycles can be obtained.

Dynamic Service:

If used with no more than 30% of Available travel approximately 1,000,000 Cycles can be obtained.

Note: We make no claim or Warranty With regard to Spring life. This information is solely based on known engineering and Design Information and is an attempt to aid the user in his or her application only.

How to Determine Spring Rate

To help select spring Requirement from stock list, follow this example

1. Example:

Load required is 20lbs. force and movement or travel is 1/2" (.500") Spring must fit in a 1/2" (.500") hole and over a 5/16" (.312") Rod.

First Load = 20 #

Travel/Deflection = .500" (1/2")

$$\text{Rate} = \frac{\text{Load}}{(\text{Travel}) \text{ Deflection}} = \frac{20}{.50} = 40$$

Therefore: Rate = 40 #/ Inch

Then Find 1/2" (.500") hole size and look under Light, Medium or Heavy and find 40 #/ Inch Rate – Stock Number C500-175M. Additionally this stock number C500-175M Works over a 5/16" (.312") Rod, will travel (Deflect) Approximately .894" and yield a total Load of 36.5lbs. approx. at solid length, and is 1.75" long in the free position.

Conversion English / Metric

To Convert:

From: To: Multiply by:

Pounds #/(IN) Newtons (N)/(mm) x .1754
Inch Millimeter

Millimeters (mm) Inches (In) x .03937

Pound (#) Newtons (N) x 4.4482

°F (Fahrenheit) °C (Centigrade) $\frac{F^{\circ} - 32}{1.8} = C^{\circ}$

Explanation of formula for F° → C°
Take Fahrenheit in degrees ° and subtract - 32° then divide by 1.8; The result will equal Centigrade.

For Centigrade to Fahrenheit:

$$C^{\circ} \times 1.8 + 32 = F^{\circ}$$

To do this multiply Degrees C° by 1.8 then Add 32 to the results for F° (Degrees Fahrenheit.)

HELP

If you or your Engineering Department require help, with fit or requirement, we will be glad to assist with Design help or part recommendation.

Spring Selection Note

When selecting a Spring Load Requirement; remember that you may use the next smaller O.D. Spring or the next larger Rod Size Spring. The selection guide is set – up so as there is an in between load or Rate one size up or one size down. Nominal O.D. and I.D. of Spring changes .030 -.050 inch from one hole or rod size to the next. In most cases a suitable fit can be found for almost any Load or Rate Range Desired.

Series

“Stacking Spring in series, end to end.” This can be done when a longer length is required. (* 1)

In series stacked on top of each other the spring rate is reduced; But the Deflection or travel is increased Times the number of Springs.

The Rate resultant would be:

$$\frac{\text{Rate}}{\text{No. Of Springs}} = \text{New Rate}$$

NOTE: The Total load would remain the same as one Spring

The Deflection or Travel becomes:

$$(\text{No. Of Springs}) \times (\text{Travel}) = \text{New Total Travel(defl.)}$$

Parallel

When Springs are grouped side by side or in a cluster, the travel or deflection remain the same as one spring; But the load increases in direct proportion to the number of springs in the cluster.

$$(\text{No. of Springs}) \times (\text{Load @ Solid}) = \text{New Load @ Solid}$$

Maximum Recommended Travel

For reasonable life expectancy and dependable load performance it is not recommend to consistently deflect or travel the spring more than 85% of the maximum travel.

1)* It is recommended that stacked springs be guided on O.D. or I.D.

Corrosive Environments

Highly Corrosive environments are outside the scope of stock springs. We suggest that you contact us about custom springs made from Inconel, Titanium, or other suitable material for highly corrosive environments.

Temperature

This is an area that our product is exceptionally well suited for.

Heat

Up to 550° F with minor Load Loss

Up to 700° F with measurable Load Loss

Cold

Cryogenic Application usable down to -325° F

Warranty – All parts are warranted against manufacturing defects. We will replace at our expense, freight prepaid to our customer any part returned with-in 60 Days; that has failed in any way due to normal use. Our liability is limited to the replacement of the part that we provided; that was found to be defective due to the manufacturing process that is under our control.

Chemical And Physical Properties Of 17-7 PH Cond. CH-900

Chemistry

Carbon	0.09 MAX
Manganese	1.00 MAX
Phosphorus	0.041 MAX
Sulphur	0.03 MAX
Silicon	1.00 MAX
Chromium	16.00-18.00
Nickel	6.50-7.75
Aluminum	0.75-1.50

“ S/S 17-7 PH is magnetic in all conditions.”

Physical Tensile Strengths

Wire Diameter

CH-900

*Tensile Range X 1000 PSI

.018 - .028	340 – 360
.030 - .041	320 – 350
.042 - .051	310 – 340
.052 - .062	305 – 335
.063 - .072	297 – 327
.074 - .086	292 – 322
.090 - .100	279 – 309
.106 - .130	272 – 302
.148 - .162	256 – 286
.181 - .207	252 – 282
.218 - .250	248 – 262

* Nominal Tensile Range

Short Time Typical Mechanical Properties at Elevated Temperature. Percent Tensile Relaxtion and Probable Percent Load Loss.

Temp.° F	Percent Tensile Drop	Percent Load Loss
200°	4 %	2 %
300°	8 %	4 %
400°	10 %	5 %
500°	12 %	6 %
600°	15 %	7.5 %
700°	17 %	8.5 %

Note: Percent load loss is based on full load at 50 % Maximum corrected stress on the Spring element. Load loss at elevated Temperatures varies depending on stress applied verses time and temperature.

Ordering Information

Through the selection catalog find the spring Number under the Hole Size Required or by rod diameter to work over. Determine by the length required; Then select the duty – That is: Light (L) Medium (M) or Heavy (H)

Example:

Compression



Part # C 5 0 0 – 1 2 5 - X ← Replace the (X) with (L) (M) (H)

↑ ↑
Hole Size Length
(.500") (1.25")

Terms of Sales

1. All Terms are C.O.D. with Shipping Charges added
2. If your needs are repetitive and you need to buy in volume an account of net 30 days can be set – up. This will require credit and business information and can be accomplished in 7 – 10 working days. This account status requires invoicing in amounts greater than \$100.00 U.S. Currency.
3. Major Credit Cards are accepted.

Non - Stock Needs

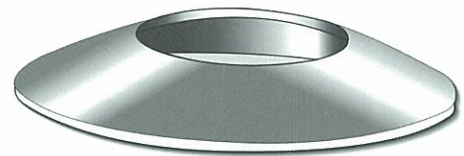
Non – Stock Items – If you have need for special Springs or Parts See the back of our Price List for non-stock Custom Spring Specification Sheet. Just copy the spec sheet, fill it out and fax or mail to us with your name, day time phone and Fax Numbers and quantity required.



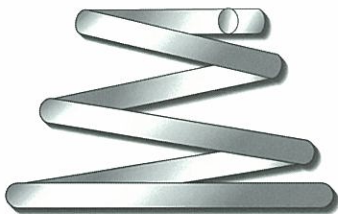
Torsion Springs



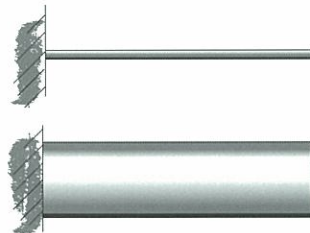
Extension Springs



Bellville Springs



Tapered and Barrel Springs



Curved and Flat Parts



Wave Washers

Warranty

All parts are warranted against manufacturing defects. We will replace at our expense, Freight pre-paid to our customer any part returned within 60 days; that has failed in any way due to normal use.

Our liability is limited to the replacement of the part that we provided; that was found to be defective due to the manufacturing process that is under our control.

Alloy Spring Products Credit Application

If your needs are repetitive and you need to buy in volume an account of net 30 days can be set - up. This account status requires invoicing in the amounts greater than \$100.00 U.S. Currency. Setting up a net 30 day account will require the following information and the process will take 7 - 10 business days. After filling out this form you may mail or fax this information to

P: 936-825-3573

F: 936-825-6385

Customer Name: _____ Contact: _____

Address: _____

City/State: _____

Phone #: _____ Fax#: _____

Bank Reference:

Name of Bank: _____ Account # or Contact: _____

Address: _____ City/State: _____

Contact Person: _____ Phone #: _____

Trade Reference:

Company: _____ Account # or Contact: _____

Address: _____ City/State: _____

Phone #: _____ Fax #: _____

Company: _____ Account # or Contact: _____

Address: _____ City/State: _____

Phone #: _____ Fax #: _____

Company: _____ Account # or Contact: _____

Address: _____ City/State: _____

Phone #: _____ Fax #: _____

Company: _____ Account # or Contact: _____

Address: _____ City/State: _____

Phone #: _____ Fax #: _____

Years in Business: _____

Primary Contact: _____

Purchase Order Required yes ☐ no ☐



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HOLE SIZE			1/8" .125" 3.17mm				ROD SIZE								1/16" .063 IN 1.6 mm			
			LIGHT SPRING				MEDIUM SPRING				HEAVY SPRING							
PART NUMBER	FREE	LENGTH	RATE	LOAD	TRAVEL	PRICE	RATE	LOAD	TRAVEL	PRICE	RATE	LOAD	TRAVEL	PRICE				
REPLACE (X) WITH L,M,H	IN	mm	# INCH	#@ SOLID	TO SOLID	CODE	#/ INCH	#@SOLID	TO SOLID	CODE	#/ INCH	#@ SOLID	TO SOLID	CODE				
C125-37-X	.375	9.52	18	3.5	.19	P1	46	6.5	.13	P1	N/A	N/A	N/A	N/A				
C125-43-X	.438	11.11	15.5	3.5	.23	P1	40	6.5	.16	P1	N/A	N/A	N/A	N/A				
C125-50-X	.50	12.7	13	3.5	.25	P1	35	6.5	.18	P1	N/A	N/A	N/A	N/A				
C125-56-X	.563	14.29	11.5	3.5	.29	P1	31	6.5	.21	P1	N/A	N/A	N/A	N/A				
C125-62-X	.625	15.88	11	3.5	.33	P1	28	6.5	.23	P1	N/A	N/A	N/A	N/A				
C125-68-X	.688	17.46	9.5	3.5	.36	P1	25	6.5	.26	P1	N/A	N/A	N/A	N/A				
C125-75-X	.75	19.05	8.5	3.5	.40	P1	23	6.5	.28	P1	N/A	N/A	N/A	N/A				
C125-100-X	1	25.4	6.4	3.5	.54	P1	16.7	6.5	.39	P1	N/A	N/A	N/A	N/A				

HOLE SIZE			5/32" .156" 3.96mm				ROD SIZE								3/32" .093 IN 2.36mm			
			LIGHT SPRING				MEDIUM SPRING				HEAVY SPRING							
PART NUMBER	FREE	LENGTH	RATE	LOAD	TRAVEL	PRICE	RATE	LOAD	TRAVEL	PRICE	RATE	LOAD	TRAVEL	PRICE				
REPLACE (X) WITH L,M,H	IN	mm	#/ INCH	#@SOLID	TO SOLID	CODE	#/ INCH	#@ SOLID	TO SOLID	CODE	#/ INCH	#@ SOLID	TO SOLID	CODE				
C156-50-X	.50	12.7	N/A	N/A	N/A	N/A	12.5	3.25	.25	P1	26	5.5	.21	P1				
C156-56-X	.563	14.29	N/A	N/A	N/A	N/A	11.2	3.25	.29	P1	22	5.3	.24	P1				
C156-62-X	.625	15.88	N/A	N/A	N/A	N/A	10.16	3.25	.32	P1	20	5.6	.28	P1				
C156-68-X	.688	17.46	N/A	N/A	N/A	N/A	9.1	3.25	.36	P1	18	5.5	.30	P1				
C156-75-X	.75	19.05	N/A	N/A	N/A	N/A	8.13	3.25	.40	P1	16.5	5.6	.34	P1				
C156-81-X	.813	20.65	N/A	N/A	N/A	N/A	7.56	3.25	.43	P1	15	5.6	.37	P1				
C156-93-X	.938	23.82	N/A	N/A	N/A	N/A	6.5	3.25	.50	P1	13.5	5.9	.44	P1				
C156-100-X	1	25.4	N/A	N/A	N/A	N/A	6.1	3.25	.53	P1	12	5.6	.46	P1				

HOLE SIZE			3/16" .188 4.77mm				ROD SIZE								7/64" .110 IN 2.8mm			
			LIGHT SPRING				MEDIUM SPRING				HEAVY SPRING							
PART NUMBER	FREE	LENGTH	RATE	LOAD	TRAVEL	PRICE	RATE	LOAD	TRAVEL	PRICE	RATE	LOAD	TRAVEL	PRICE				
REPLACE (X) WITH L,M,H	IN	mm	#/ INCH	#@ SOLID	TO SOLID	CODE	#/ INCH	#@ SOLID	TO SOLID	CODE	#/ INCH	#@ SOLID	TO SOLID	CODE				
C188-50-X	.50	12.7	8	2.5	.31	P1	19	5.4	.28	P1	45.5	10	.22	P1				
C188-56-X	.563	14.29	7.14	2.5	.35	P1	16.5	5.4	.32	P1	41.5	10	.24	P1				
C188-68-X	.688	17.46	5.81	2.5	.43	P1	13.6	5.4	.39	P1	32	10	.31	P1				
C188-75-X	.75	19.05	5.2	2.5	.48	P1	12	5.4	.45	P1	29	10	.34	P1				
C188-87-X	.875	22.22	4.5	2.5	.56	P1	10.4	5.4	.52	P1	24.3	10	.41	P1				
C188-100-X	1	25.4	3.85	2.5	.65	P1	9.2	5.4	.59	P1	21.8	10	.46	P1				
C188-112-X	1.125	28.58	3.45	2.5	.73	P1	8	5.4	.68	P1	19.5	10	.51	P1				
C188-125-X	1.25	31.75	3.1	2.5	.82	P1	7	5.4	.77	P1	17.2	10	.58	P1				


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HOLE SIZE			7/32" .219"				5.56mm				ROD SIZE				1/8" .125 IN				3.175mm			
			LIGHT SPRING				MEDIUM SPRING				HEAVY SPRING											
PART NUMBER	FREE	LENGTH	RATE	LOAD	TRAVEL	PRICE	RATE	LOAD	TRAVEL	PRICE	RATE	LOAD	TRAVEL	PRICE								
REPLACE (x) WITH L,M,H	IN	mm	#/ INCH	#@ SOLID	TO SOLID	CODE	#/ INCH	#@ SOLID	TO SOLID	CODE	#/ INCH	#@ SOLID	TO SOLID	CODE								
C219-50-X	.50	12.7	10	3	.30	P2	22.4	4.7	.21	P2	40	7.6	.19	P1								
C219-62-X	.625	15.88	8.1	3	.38	P2	17.6	4.7	.27	P2	31	7.6	.24	P1								
C219-75-X	.75	19.05	6.5	3	.46	P3	14.2	4.7	.33	P2	25.3	7.6	.30	P2								
C219-88-X	.875	22.22	5.5	3	.55	P3	12.1	4.7	.39	P2	21.1	7.6	.36	P2								
C219-100-X	1	25.4	4.8	3	.63	P3	10.5	4.7	.45	P2	18.5	7.6	.41	P3								
C219-125-X	1.25	31.75	3.8	3	.79	P4	8.3	4.7	.57	P3	14.4	7.6	.53	P4								

HOLE SIZE			1/4" .250"				6.35mm				ROD SIZE				9/64" .140 IN				3.57mm			
			LIGHT SPRING				MEDIUM SPRING				HEAVY SPRING											
PART NUMBER	FREE	LENGTH	RATE	LOAD	TRAVEL	PRICE	RATE	LOAD	TRAVEL	PRICE	RATE	LOAD	TRAVEL	PRICE								
REPLACE (x) WITH L,M,H	IN	mm	#/ INCH	#@ SOLID	TO SOLID	CODE	#/ INCH	#@ SOLID	TO SOLID	CODE	#/ INCH	#@ SOLID	TO SOLID	CODE								
C250-62-X	.625	15.88	8.1	3.6	.43	P2	36.6	11	.31	P3	67.4	17	.25	P2								
C250-75-X	.75	19.05	6.8	3.6	.52	P2	29.7	11	.37	P3	57.2	17	.30	P2								
C250-87-X	.875	22.22	5.8	3.6	.61	P2	25	11	.44	P3	46.3	17	.37	P2								
C250-100-X	1	25.40	4.9	3.6	.71	P2	21.5	11	.51	P3	39.5	17	.43	P2								
C250-112-X	1.125	28.58	4.4	3.6	.80	P2	18.9	11	.58	P3	35.2	17	.48	P2								
C250-125-X	1.25	31.75	3.9	3.6	.90	P3	16.9	11	.65	P4	31.2	17	.54	P2								
C250-137-X	1.375	34.92	3.6	3.6	.99	P3	15.3	11	.72	P4	29	17	.59	P3								
C250-150-X	1.5	38.10	3.3	3.6	1.08	P4	13.9	11	.79	P5	26.5	17	.64	P3								

HOLE SIZE			5/16" .313"				7.93mm				ROD SIZE				3/16" .187 IN				4.76mm			
			LIGHT SPRING				MEDIUM SPRING				HEAVY SPRING											
PART NUMBER	FREE	LENGTH	RATE	LOAD	TRAVEL	PRICE	RATE	LOAD	TRAVEL	PRICE	RATE	LOAD	TRAVEL	PRICE								
REPLACE (x) WITH L,M,H	IN	mm	#/ INCH	#@ SOLID	TO SOLID	CODE	#/ INCH	#@ SOLID	TO SOLID	CODE	#/ INCH	#@ SOLID	TO SOLID	CODE								
C313-62-X	.625	15.88	9	4.3	.47	P1	44	14.5	.33	P2	82	23	.28	P2								
C313-75-X	.75	19.05	7.5	4.3	.57	P2	35	14.5	.41	P2	65.7	23	.35	P2								
C313-87-X	.875	22.22	6.3	4.3	.68	P2	30	14.5	.48	P2	56	23	.41	P3								
C313-100-X	1	25.4	5.5	4.3	.77	P2	26	14.5	.57	P2	48	23	.48	P3								
C313-112-X	1.125	28.58	4.8	4.3	.87	P2	23	14.5	.65	P3	42	23	.55	P3								
C313-125-X	1.25	31.75	4.3	4.3	1.0	P2	20	14.5	.74	P3	37	23	.61	P3								
C313-150-X	1.5	38.1	3.5	4.3	1.2	P2	16.8	14.5	.86	P4	30.7	23	.75	P3								
C313-175-X	1.75	44.45	3.1	4.3	1.41	P3	14.2	14.5	1.01	P5	26.2	23	.88	P4								



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HOLE SIZE			3/8" .375"				9.52mm				ROD SIZE				15/64" .234"				5.94mm			
			LIGHT SPRING				MEDIUM SPRING				HEAVY SPRING											
PART NUMBER	FREE	LENGTH	RATE	LOAD	TRAVEL	PRICE	RATE	LOAD	TRAVEL	PRICE	RATE	LOAD	TRAVEL	PRICE								
REPLACE (x) WITH L,M,H	IN	mm	#/ INCH	#@ SOLID	TO SOLID	CODE	#/ INCH	#@ SOLID	TO SOLID	CODE	#/ INCH	#@ SOLID	TO SOLID	CODE								
C375-75-X	.75	19.05	6	3.58	.62	P2	25	11.5	.46	P2	99	29	.29	P2								
C375-87-X	.875	22.22	5	3.58	.72	P2	20.9	11.5	.55	P2	85	29	.34	P2								
C375-100-X	1	25.4	4.4	3.58	.81	P2	18	11.5	.64	P3	71	29	.41	P2								
C375-112-X	1.125	28.58	3.7	3.58	.94	P2	16	11.5	.72	P3	63.1	29	.46	P3								
C375-125-X	1.25	31.75	3.4	3.58	1.05	P2	14	11.5	.81	P3	56	29	.52	P4								
C375-150-X	1.5	38.1	2.8	3.58	1.28	P2	11.6	11.5	.99	P4	45.6	29	.64	P4								
C375-175-X	1.75	44.45	2.4	3.58	1.49	P3	9.9	11.5	1.16	P4	38.7	29	.75	P4								
C375-200-X	2	50.8	2	3.58	1.70	P3	8.6	11.5	1.34	P4	33.7	29	0.86	P5								

HOLE SIZE			13/32" .406"				10.31mm				ROD SIZE				17/64" .266 IN				6.75mm			
			LIGHT SPRING				MEDIUM SPRING				HEAVY SPRING											
PART NUMBER	FREE	LENGTH	RATE	LOAD	TRAVEL	PRICE	RATE	LOAD	TRAVEL	PRICE	RATE	LOAD	TRAVEL	PRICE								
REPLACE (x) WITH L,M,H	IN	mm	#/ INCH	#@ SOLID	TO SOLID	CODE	#/ INCH	#@ SOLID	TO SOLID	CODE	#/ INCH	#@ SOLID	TO SOLID	CODE								
C406-75-X	.750	19.05	20.8	10	.48	P2	35.7	15	.42	P3	N/A	N/A	N/A	N/A								
C406-87-X	.875	22.22	17.8	10	.56	P2	30	15	.50	P3	N/A	N/A	N/A	N/A								
C406-100-X	1	25.4	15.4	10	.65	P2	25.8	15	.58	P3	N/A	N/A	N/A	N/A								
C406-112-X	1.125	28.58	13.7	10	.73	P2	22.7	15	.66	P3	N/A	N/A	N/A	N/A								
C406-125-X	1.25	31.75	12.2	10	.82	P3	20.3	15	.74	P3	N/A	N/A	N/A	N/A								
C406-150-X	1.5	38.1	10	10	1.00	P3	16.7	15	.90	P4	N/A	N/A	N/A	N/A								
C406-175-X	1.75	44.45	8.5	10	1.18	P4	14.2	15	1.06	P4	N/A	N/A	N/A	N/A								
C406-200-X	2	50.8	7.3	10	1.37	P4	12.3	15	1.22	P5	N/A	N/A	N/A	N/A								

HOLE SIZE			7/16" .438"				11.11mm				ROD SIZE				9/32" .281 IN				7.13mm			
			LIGHT SPRING				MEDIUM SPRING				HEAVY SPRING											
PART NUMBER	FREE	LENGTH	RATE	LOAD	TRAVEL	PRICE	RATE	LOAD	TRAVEL	PRICE	RATE	LOAD	TRAVEL	PRICE								
REPLACE (x) WITH L,M,H	IN	mm	#/ INCH	#@ SOLID	TO SOLID	CODE	#/ INCH	#@ SOLID	TO SOLID	CODE	#/ INCH	#@ SOLID	TO SOLID	CODE								
C438-75-X	.750	19.05	18	9	.50	P2	60	24	.40	P2	129	40	.31	P2								
C438-87-X	.875	22.22	15.3	9	.59	P2	50	24	.48	P2	105	40	.38	P3								
C438-100-X	1	25.4	13	9	.69	P2	43	24	.56	P3	93	40	.43	P4								
C438-112-X	1.125	28.58	11.5	9	.78	P3	37.5	24	.64	P4	81	40	.49	P5								
C438-125-X	1.25	31.75	10.3	9	.87	P3	33.4	24	.72	P4	72.7	40	.55	P5								
C438-150-X	1.5	38.1	8.5	9	1.06	P3	27.6	24	.87	P5	58.8	40	.68	P6								
C438-175-X	1.75	44.45	7.2	9	1.25	P4	23.3	24	1.03	P6	50	40	.80	P7								
C438-200-X	2	50.8	6.25	9	1.44	P4	20.2	24	1.19	P8	43	40	.93	P8								


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HOLE SIZE			15/32" .469"				11.91mm				ROD SIZE				5/16" .297 IN				7.54mm	
			LIGHT SPRING				MEDIUM SPRING				HEAVY SPRING									
PART NUMBER	FREE	LENGTH	RATE	LOAD	TRAVEL	PRICE	RATE	LOAD	TRAVEL	PRICE	RATE	LOAD	TRAVEL	PRICE						
REPLACE (x) WITH L,M,H	IN	mm	#/ INCH	#@ SOLID	TO SOLID	CODE	#/ INCH	#@ SOLID	TO SOLID	CODE	#/ INCH	#@ SOLID	TO SOLID	CODE						
C469-75-X	.750	19.05	11.5	6	.52	P3	26	12	.46	P3	118	39	.33	P3						
C469-87-X	.875	22.22	9.7	6	.62	P3	22	12	.55	P3	97.5	39	.40	P3						
C469-100-X	1	25.4	8.4	6	.72	P3	18.8	12	.64	P3	83	39	.47	P4						
C469-125-X	1.25	31.75	6.6	6	.91	P3	15	12	.81	P4	64	39	.61	P4						
C469-150-X	1.5	38.1	5.5	6	1.10	P3	12.1	12	.99	P4	53	39	.74	P5						
C469-175-X	1.75	44.45	4.6	6	1.30	P4	10.3	12	1.17	P5	45	39	.87	P6						
C469-200-X	2	50.8	4	6	1.49	P5	9	12	1.36	P6	38.6	39	1.01	P6						

HOLE SIZE			1/2" .500"				12.7mm				ROD SIZE				5/16" .312 IN				7.9mm	
			LIGHT SPRING				MEDIUM SPRING				HEAVY SPRING									
PART NUMBER	FREE	LENGTH	RATE	LOAD	TRAVEL	PRICE	RATE	LOAD	TRAVEL	PRICE	RATE	LOAD	TRAVEL	PRICE						
REPLACE (x) WITH L,M,H	IN	mm	#/ INCH	#@ SOLID	TO SOLID	CODE	#/ INCH	#@ SOLID	TO SOLID	CODE	#/ INCH	#@ SOLID	TO SOLID	CODE						
C500-87-X	.875	22.22	36.5	19	.52	P3	88	36	.41	P4	193	65	.34	P5						
C500-100-X	1	25.4	31	19	.61	P4	75	36	.48	P5	165	65	.39	P6						
C500-125-X	1.25	31.75	24.5	19	.78	P4	58	36	.62	P5	125	65	.52	P6						
C500-150-X	1.5	38.1	20	19	.95	P5	47	36	.76	P6	102.5	65	.63	P7						
C500-175-X	1.75	44.45	16.8	19	1.12	P6	40	36	.90	P6	86.5	65	.750	P7						
C500-200-X	2	50.8	14.8	19	1.28	P6	35	36	1.03	P7	74.2	65	.87	P8						
C500-225-X	2.25	57.15	13	19	1.46	P7	30	36	1.2	P8	65.5	65	.99	P8						
C500-250-X	2.5	63.5	11.5	19	1.65	P8	27	36	1.33	P9	58	65	1.12	P9						

HOLE SIZE			9/16" .562"				14.27mm				ROD SIZE				3/8" .375"				9.5mm	
			LIGHT SPRING				MEDIUM SPRING				HEAVY SPRING									
PART NUMBER	FREE	LENGTH	RATE	LOAD	TRAVEL	PRICE	RATE	LOAD	TRAVEL	PRICE	RATE	LOAD	TRAVEL	PRICE						
REPLACE (x) WITH L,M,H	IN	mm	#/ INCH	#@ SOLID	TO SOLID	CODE	#/ INCH	#@ SOLID	TO SOLID	CODE	#/ INCH	#@ SOLID	TO SOLID	CODE						
C562-87-X	.875	22.22	29	16	.55	P3	50	25	.50	P4	129	48	.37	P4						
C562-100-X	1	25.4	25	16	.64	P3	43	25	.58	P4	111	48	.43	P4						
C562-125-X	1.25	31.75	19	16	.83	P3	33	25	.75	P4	87	48	.52	P5						
C562-150-X	1.5	38.1	16	16	1.00	P4	27	25	.92	P5	70	48	.68	P6						
C562-175-X	1.75	44.45	13.5	16	1.18	P5	23	25	1.09	P5	60	48	.80	P6						
C562-200-X	2	50.8	11.7	16	1.36	P5	20	25	1.25	P6	51	48	.94	P7						
C562-225-X	2.25	57.15	10.3	16	1.55	P6	17.75	25	1.41	P7	44	48	1.09	P8						
C562-250-X	2.5	63.5	9.3	16	1.72	P6	15.8	25	1.58	P8	40	48	1.20	P9						



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HOLE SIZE			5/8" .625"				15.87mm				ROD SIZE				25/64" .391"				9.93mm			
			LIGHT SPRING				MEDIUM SPRING				HEAVY SPRING											
PART NUMBER	FREE	LENGTH	RATE	LOAD	TRAVEL	PRICE	RATE	LOAD	TRAVEL	PRICE	RATE	LOAD	TRAVEL	PRICE								
REPLACE (x) WITH L,M,H	IN	mm	#/ INCH	#@ SOLID	TO SOLID	CODE	#/ INCH	#@ SOLID	TO SOLID	CODE	#/ INCH	#@ SOLID	TO SOLID	CODE								
C625-100-X	1	25.4	16.8	12	.71	P3	58	30	.52	P5	180	70	.39	P6								
C625-125-X	1.25	31.75	13	12	.92	P4	45	30	.66	P5	140	70	.50	P7								
C625-150-X	1.5	38.1	10.7	12	1.12	P4	37	30	.81	P6	113	70	.62	P7								
C625-175-X	1.75	44.45	9.1	12	1.32	P4	31.2	30	.96	P6	93.4	70	.75	P9								
C625-200-X	2	50.8	7.9	12	1.52	P5	27	30	1.11	P7	81.4	70	.86	P9								
C625-225-X	2.25	57.15	7	12	1.72	P5	23.8	30	1.26	P8	71	70	.99	P10								
C625-250-X	2.5	63.5	6.25	12	1.92	P6	21.3	30	1.41	P9	63	70	1.1	P10								
C625-275-X	2.75	69.85	5.7	12	2.12	P7	19.1	30	1.57	P10	57.4	70	1.22	P11								

HOLE SIZE			11/16" .688"				17.46mm				ROD SIZE				15/32" .468"				11.87mm			
			LIGHT SPRING				MEDIUM SPRING				HEAVY SPRING											
PART NUMBER	FREE	LENGTH	RATE	LOAD	TRAVEL	PRICE	RATE	LOAD	TRAVEL	PRICE	RATE	LOAD	TRAVEL	PRICE								
REPLACE (x) WITH L,M,H	IN	mm	#/ INCH	#@ SOLID	TO SOLID	CODE	#/ INCH	#@ SOLID	TO SOLID	CODE	#/ INCH	#@ SOLID	TO SOLID	CODE								
C688-100-X	1	25.4	21	15.5	.70	P6	40	25	.62	P6	82.5	42	.51	P6								
C688-125-X	1.25	31.75	17.1	15.5	.90	P6	31	25	.81	P7	62.7	42	.67	P7								
C688-150-X	1.5	38.1	14	15.5	1.10	P7	25	25	.99	P7	51	42	.82	P7								
C688-175-X	1.75	44.45	11.9	15.5	1.30	P7	21.5	25	1.16	P7	43.3	42	.97	P7								
C688-200-X	2	50.8	10.3	15.5	1.50	P8	18.6	25	1.34	P7	37	42	1.13	P8								
C688-225-X	2.25	57.15	9.1	15.5	1.70	P8	16.4	25	1.52	P8	33	42	1.27	P8								
C688-250-X	2.5	63.5	8.2	15.5	1.89	P9	14.6	25	1.71	P8	29.3	42	1.43	P9								
C688-275-X	2.75	69.85	7.4	15.5	2.09	P9	13.25	25	1.89	P9	26.5	42	1.58	P10								

HOLE SIZE			3/4" .750"				19.05mm				ROD SIZE				1/2" .500 IN				12.7mm			
			LIGHT SPRING				MEDIUM SPRING				HEAVY SPRING											
PART NUMBER	FREE	LENGTH	RATE	LOAD	TRAVEL	PRICE	RATE	LOAD	TRAVEL	PRICE	RATE	LOAD	TRAVEL	PRICE								
REPLACE (x) WITH L,M,H	IN	mm	#/ INCH	#@ SOLID	TO SOLID	CODE	#/ INCH	#@ SOLID	TO SOLID	CODE	#/ INCH	#@ SOLID	TO SOLID	CODE								
C750-100-X	1	25.4	24	15.5	.65	P6	68	39	.57	P7	237	90	.38	P8								
C750-125-X	1.25	31.75	19	15.5	.82	P6	53	39	.74	P8	180	90	.51	P8								
C750-150-X	1.5	38.1	15	15.5	1.03	P6	43	39	.91	P8	145	90	.62	P8								
C750-175-X	1.75	44.45	13	15.5	1.20	P6	36	39	1.08	P8	120	90	.75	P9								
C750-200-X	2	50.8	11	15.5	1.39	P7	31	39	1.26	P9	105	90	.86	P9								
C750-225-X	2.25	57.15	10	15.5	1.52	P7	27.3	39	1.43	P10	91	90	.99	P10								
C750-250-X	2.5	63.5	9	15.5	1.73	P7	24.5	39	1.60	P11	80.4	90	1.12	P11								
C750-275-X	2.75	69.85	8	15.5	1.94	P8	22	39	1.78	P12	73	90	1.23	P12								


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HOLE SIZE			13/16" .812" 20.62mm				ROD SIZE 9/16" .562 IN 14.27mm							
			LIGHT SPRING				MEDIUM SPRING				HEAVY SPRING			
PART NUMBER	FREE	LENGTH	RATE	LOAD	TRAVEL	PRICE	RATE	LOAD	TRAVEL	PRICE	RATE	LOAD	TRAVEL	PRICE
REPLACE (x) WITH L,M,H	IN	mm	#/ INCH	#@ SOLID	TO SOLID	CODE	#/ INCH	#@ SOLID	TO SOLID	CODE	#/ INCH	#@ SOLID	TO SOLID	CODE
C812-100-X	1	25.4	28	16	.57	P8	76.5	34.5	.45	P8	166	75	.45	P9
C812-125-X	1.25	31.75	22	16	.73	P8	60	34.5	.58	P9	123	75	.61	P10
C812-150-X	1.5	38.1	18	16	.89	P8	47.3	34.5	.73	P10	100	75	.75	P10
C812-175-X	1.75	44.45	15	16	1.05	P8	40.1	34.5	.86	P10	84	75	.89	P10
C812-200-X	2	50.8	13	16	1.22	P9	34.8	34.5	.99	P11	73	75	1.03	P10
C812-250-X	2.5	63.5	10.5	16	1.55	P10	27.6	34.5	1.25	P12	56	75	1.34	P11
C812-300-X	3	76.2	8.5	16	1.87	P11	22.6	34.5	1.53	P13	47	75	1.60	P12

HOLE SIZE			7/8" .875" 22.22mm				ROD SIZE 19/32" .594 IN 15.06mm							
			LIGHT SPRING				MEDIUM SPRING				HEAVY SPRING			
PART NUMBER	FREE	LENGTH	RATE	LOAD	TRAVEL	PRICE	RATE	LOAD	TRAVEL	PRICE	RATE	LOAD	TRAVEL	PRICE
REPLACE (x) WITH L,M,H	IN	mm	#/ INCH	#@ SOLID	TO SOLID	CODE	#/ INCH	#@ SOLID	TO SOLID	CODE	#/ INCH	#@ SOLID	TO SOLID	CODE
C875-100-X	1	25.4	24	16	.67	P7	81	42	.52	P8	153	72	.47	P8
C875-125-X	1.25	31.75	18	16	.89	P7	62	42	.68	P10	116	72	.62	P10
C875-150-X	1.5	38.1	15	16	1.08	P8	50	42	.84	P10	92	72	.78	P10
C875-200-X	2	50.8	11	16	1.48	P8	36.2	42	1.16	P10	66	72	1.10	P10
C875-250-X	2.5	63.5	8.5	16	1.89	P8	28.5	42	1.49	P11	51.5	72	1.40	P11
C875-300-X	3	76.2	7	16	2.27	P9	23.3	42	1.81	P12	42	72	1.72	P12

HOLE SIZE			1" 1.00" 25.4mm				ROD SIZE 21/32" .656 IN 16.66mm							
			LIGHT SPRING				MEDIUM SPRING				HEAVY SPRING			
PART NUMBER	FREE	LENGTH	RATE	LOAD	TRAVEL	PRICE	RATE	LOAD	TRAVEL	PRICE	RATE	LOAD	TRAVEL	PRICE
REPLACE (x) WITH L,M,H	IN	mm	#/ INCH	#@ SOLID	TO SOLID	CODE	#/ INCH	#@ SOLID	TO SOLID	CODE	#/ INCH	#@ SOLID	TO SOLID	CODE
C1000-150-X	1.5	38.1	38	37	.96	P9	82	65	.79	P10	200	120	.60	P15
C1000-175-X	1.75	44.45	32	37	1.16	P10	69	65	.95	P11	168	120	.71	P16
C1000-200-X	2	50.8	28	37	1.34	P11	59	65	1.11	P12	146	120	.82	P17
C1000-250-X	2.5	63.5	21.5	37	1.72	P12	46	65	1.43	P12	111	120	1.08	P19
C1000-300-X	3	76.2	17.7	37	2.09	P13	37.6	65	1.73	P13	90.2	120	1.33	P19
C1000-350-X	3.5	88.9	15	37	2.47	P14	32	65	2.03	P15	77.4	120	1.55	P20



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HOLE SIZE			1 1/8" 1.125" 28.57mm				ROD SIZE 3/4" .750 IN 19.05mm							
			LIGHT SPRING				MEDIUM SPRING				HEAVY SPRING			
PART NUMBER	FREE	LENGTH	RATE	LOAD	TRAVEL	PRICE	RATE	LOAD	TRAVEL	PRICE	RATE	LOAD	TRAVEL	PRICE
REPLACE (x) WITH L,M,H	IN	mm	#/ INCH	#@ SOLID	TO SOLID	CODE	#/ INCH	#@ SOLID	TO SOLID	CODE	#/ INCH	#@ SOLID	TO SOLID	CODE
C1125-175-X	1.75	44.45	28	34	1.21	P11	62	67	1.09	P12	118	102	.87	P14
C1125-200-X	2	50.8	24	34	1.41	P12	53	67	1.27	P13	100	102	1.00	P15
C1125-250-X	2.5	63.5	19.1	34	1.78	P12	41	67	1.63	P14	78	102	1.30	P16
C1125-300-X	3	76.2	15.7	34	2.17	P13	34	67	1.98	P15	64	101	1.57	P17
C1125-350-X	3.5	88.9	13.2	34	2.56	P14	28.6	67	2.34	P16	53	101	1.84	P18
C1125-400-X	4	101.6	11.6	34	2.93	P15	24.8	67	2.7	P17	46	100	2.13	P19

HOLE SIZE			1 1/4" 1.250" 31.75mm				ROD SIZE 7/8" .875 IN 22.22mm							
			LIGHT SPRING				MEDIUM SPRING				HEAVY SPRING			
PART NUMBER	FREE	LENGTH	RATE	LOAD	TRAVEL	PRICE	RATE	LOAD	TRAVEL	PRICE	RATE	LOAD	TRAVEL	PRICE
REPLACE (x) WITH L,M,H	IN	mm	#/ INCH	#@ SOLID	TO SOLID	CODE	#/ INCH	#@ SOLID	TO SOLID	CODE	#/ INCH	#@ SOLID	TO SOLID	CODE
C1250-175-X	1.75	44.45	71	72	1.02	P13	140	121	.86	P18	206	160	.77	P19
C1250-200-X	2	50.8	62	72	1.16	P14	120	121	1.01	P18	178	160	.90	P19
C1250-250-X	2.5	63.5	46.8	72	1.54	P15	93	121	1.27	P18	133	160	1.16	P20
C1250-300-X	3	76.2	38	72	1.9	P16	75	121	1.56	P21	110	160	1.46	P21
C1250-350-X	3.5	88.9	32.3	72	2.23	P17	63	121	1.85	P22	91	160	1.68	P22
C1250-400-X	4	101.6	28	72	2.57	P19	55	121	2.15	P23	79	160	1.95	P23

HOLE SIZE			1 1/2" 1.5" 38.1mm				ROD SIZE 1" 1.00 IN 25.4mm							
			LIGHT SPRING				MEDIUM SPRING				HEAVY SPRING			
PART NUMBER	FREE	LENGTH	RATE	LOAD	TRAVEL	PRICE	RATE	LOAD	TRAVEL	PRICE	RATE	LOAD	TRAVEL	PRICE
REPLACE (x) WITH L,M,H	IN	mm	#/ INCH	#@ SOLID	TO SOLID	CODE	#/ INCH	#@ SOLID	TO SOLID	CODE	#/ INCH	#@ SOLID	TO SOLID	CODE
C1500 -200-X	2	50.8	84.7	100	1.18	P19	172	165	.96	P23	250	220	.89	P25
C1500-250-X	2.5	63.5	65.6	100	1.52	P19	131	165	1.26	P24	194	220	1.13	P25
C1500-300-X	3	76.2	53	100	1.875	P20	106.5	165	1.55	P25	159	220	1.38	P26
C1500-350-X	3.5	88.9	44	100	2.24	P21	90	165	1.84	P26	135	220	1.64	P26
C1500-400-X	4	101.6	38.6	100	2.59	P22	77.5	165	2.13	P27	116	220	1.90	P27
C1500-450-X	4.5	114.3	34	100	2.94	P23	68	165	2.43	P28	102	220	2.15	P28
C1500-500-X	5	127	30.4	100	3.29	P24	61	165	2.69	P29	92	220	2.40	P29



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HOLE SIZE			1 3/4" 1.75"				44.45 mm				ROD SIZE				1 1/8" 1.125 IN				28.57 mm			
			LIGHT SPRING				MEDIUM SPRING				HEAVY SPRING											
PART NUMBER	FREE	LENGTH	RATE	LOAD	TRAVEL	PRICE	RATE	LOAD	TRAVEL	PRICE	RATE	LOAD	TRAVEL	PRICE								
REPLACE (x) WITH L,M,H	IN	mm	# / INCH	#@ SOLID	TO SOLID	CODE	# / INCH	#@ SOLID	TO SOLID	CODE	#/ INCH	#@ SOLID	TO SOLID	CODE								
C1750-225-X	2.25	57.15	153	180	1.17	P23	260	250	.96	P27	500	400	.80	P30								
C1750-250-X	2.5	63.5	133	180	1.35	P24	227	250	1.10	P28	435	400	.92	P31								
C1750-300-X	3	76.2	107	180	1.67	P25	184	250	1.36	P29	348	400	1.15	P32								
C1750-350-X	3.5	88.9	91	180	1.97	P26	154	250	1.62	P30	294	400	1.36	P32								
C1750-400-X	4	101.6	78	180	2.29	P26	133	250	1.88	P30	252	400	1.59	P33								
C1750-450-X	4.5	114.3	68.7	180	2.62	P27	116	250	2.15	P31	221	400	1.81	P33								
C1750-500-X	5	127	61.5	180	2.93	P28	104	250	2.41	P32	196	400	2.04	P34								
C1750-550-X	5.5	139.7	55.5	180	3.24	P29	93	250	2.68	P33	176	400	2.27	P34								

HOLE SIZE			2" 2.0"				50.8mm				ROD SIZE				1 3/8" 1.375 IN				34.92 mm			
			LIGHT SPRING				MEDIUM SPRING				HEAVY SPRING											
PART NUMBER	FREE	LENGTH	RATE	LOAD	TRAVEL	PRICE	RATE	LOAD	TRAVEL	PRICE	RATE	LOAD	TRAVEL	PRICE								
REPLACE (x) WITH L,M,H	IN	mm	# / INCH	#@ SOLID	TO SOLID	CODE	# / INCH	#@ SOLID	TO SOLID	CODE	#/ INCH	#@SOLID	TO SOLID	CODE								
C2000-225-X	2.25	57.15	116	150	1.29	P26	168	200	1.19	P27	368	365	.99	P33								
C2000-250-X	2.5	63.5	103	150	1.46	P26	146	200	1.36	P27	315	365	1.14	P34								
C2000-300-X	3	76.2	84	150	1.79	P27	118	200	1.69	P28	252	365	1.27	P35								
C2000-350-X	3.5	88.9	71	150	2.1	P27	99	200	2.02	P29	214	365	1.71	P36								
C2000-400-X	4	101.6	60.5	150	2.46	P28	85	200	2.34	P30	183	365	2.00	P37								
C2000-450-X	4.5	114.3	53	150	2.82	P29	74	200	2.67	P30	160	365	2.28	P37								
C2000-500-X	5	127	48	150	3.15	P29	66	200	3.00	P31	142	365	2.57	P38								
C2000-550-X	5.5	139.7	43	150	3.46	P30	60	200	3.32	P33	138	365	2.64	P38								

Order Form

Name and/or Co. Name: _____

Shipping Address: _____

City: _____ State _____ Zip Code: _____

Telephone# _____ Fax# _____

Stock Number:

Qty: _____

Qty: _____

Qty: _____

Qty: _____

Qty: _____

Qty: _____

Qty: _____

Qty: _____

Qty: _____

Qty: _____

Qty: _____

Qty: _____

Qty: _____

Qty: _____

Qty: _____

Qty: _____

Method of Payment:

☐ C.O.D. via UPS

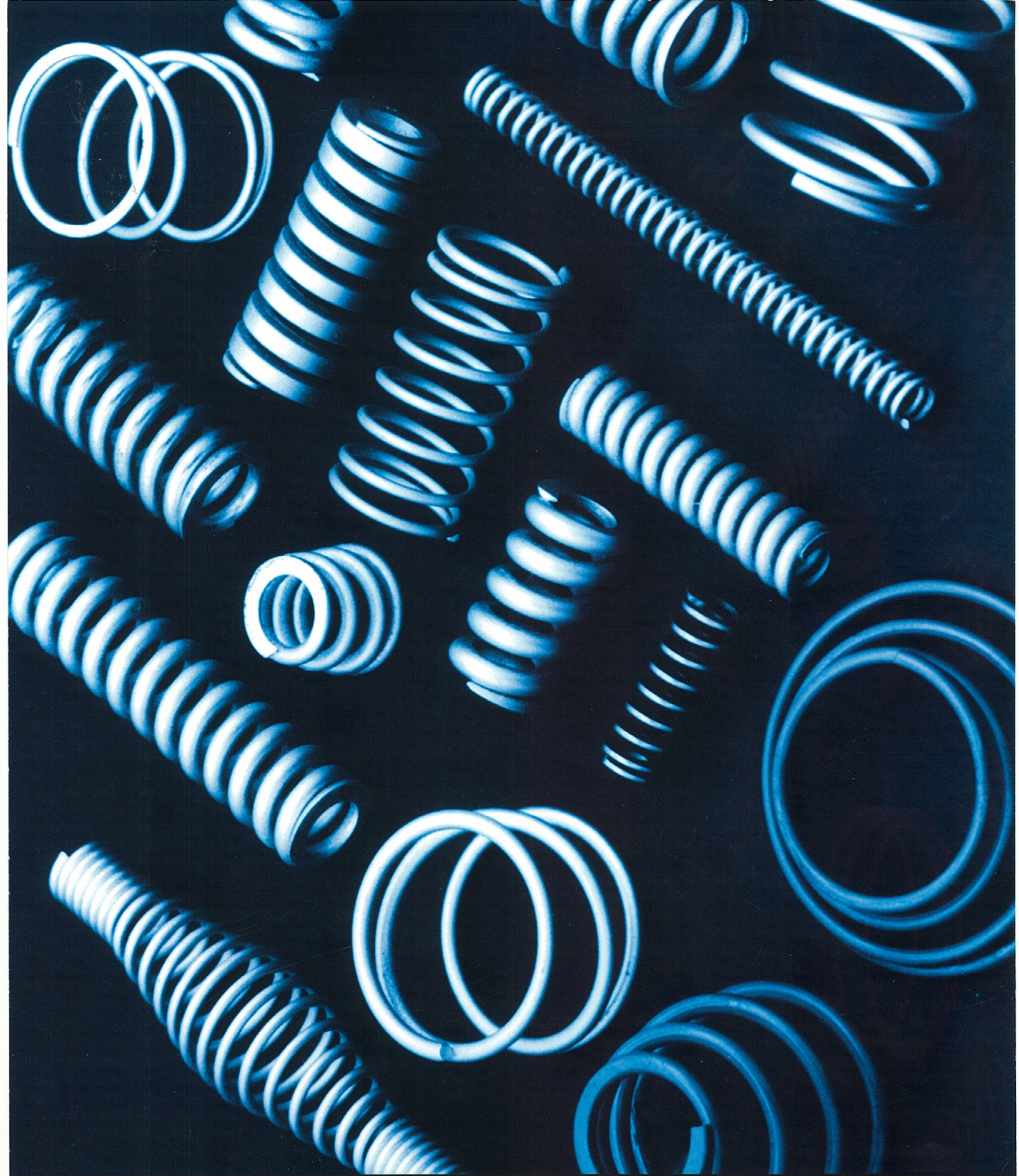
☐ Credit Card

☐ C.O.D. Parcel Post

☐ Open Account (* See Credit application on pg 5*)

Card _____ Exp. Date _____

Number _____ Signature _____



***Alloy Spring
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