

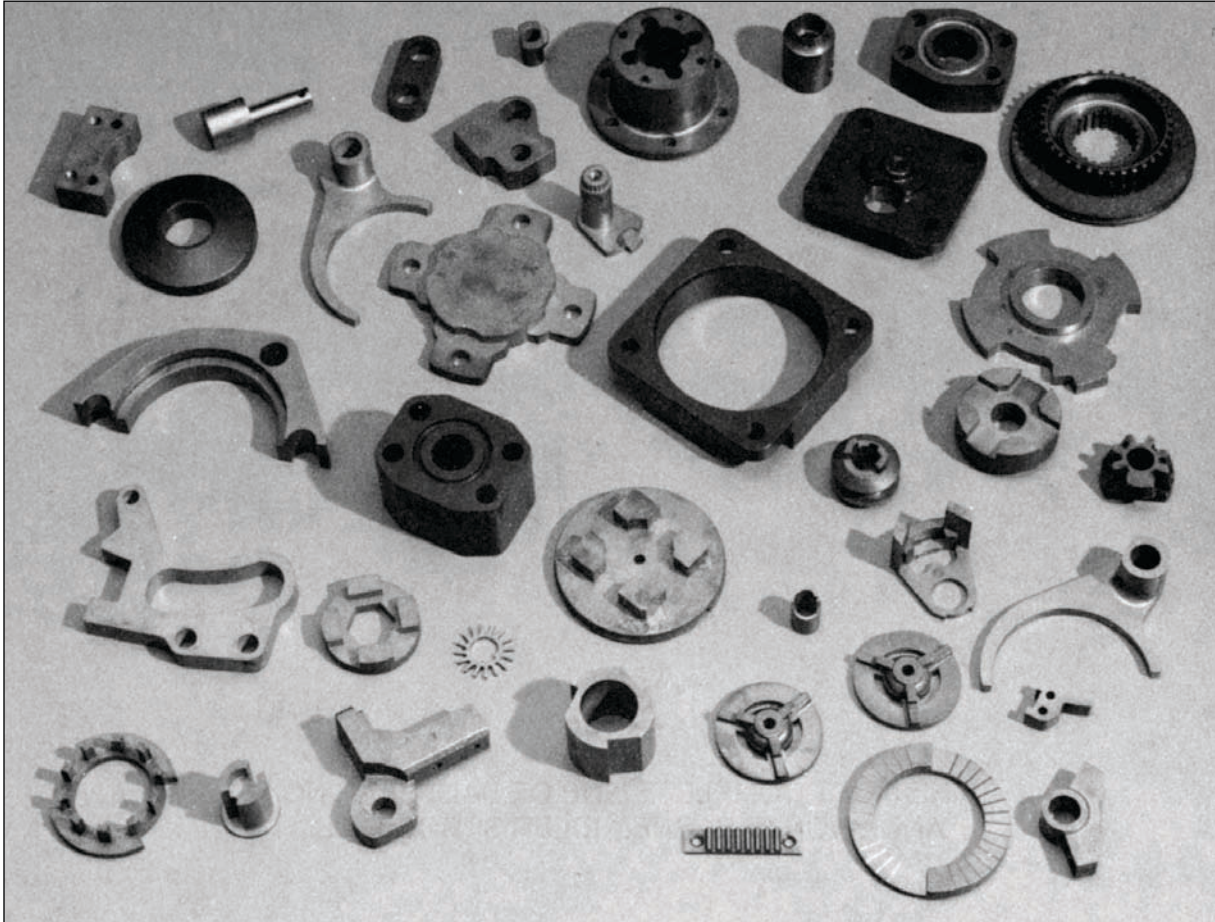


SPECIALTY PRODUCTS

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## Made To Order Specialty Products

*Martin*



**SPLIT S820 SPROCKET**



**TAPER BUSHED  
ADJUSTABLE HUB**



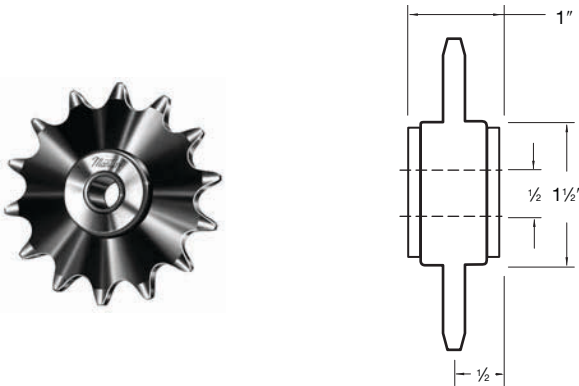
**SPECIAL BEARING  
HOUSING**



*Martin* Semi-Steel 800 Series Conveyor Sprockets are  
Available for All your Flat Top Chain Needs.

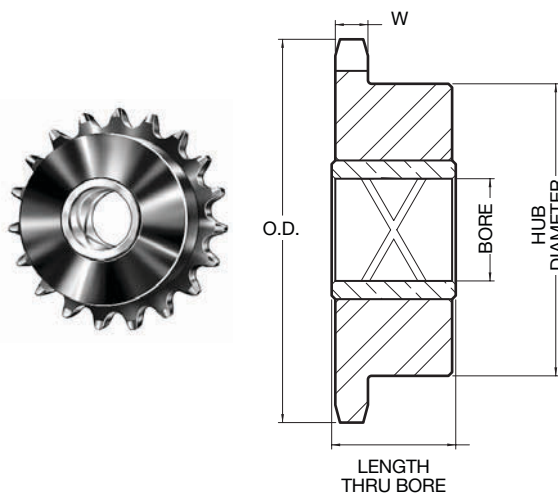


The Most Complete Line of  
Idler Sprockets.

**Martin****Idler  
Sprockets****Bronze Bushed Type****Bronze Bushed Idler Sprockets**

| No. Teeth | Catalog Number | Chain Size | O.D. | Stock Bore | Wt. Lbs. |
|-----------|----------------|------------|------|------------|----------|
| 20        | 31E20          | 35         | 2.60 | 1/2"       | .46      |
| 15        | 41E15          | 41-40      | 2.65 | 1/2"       | .50      |
| 15        | 51E15          | 50         | 3.32 | 1/2"       | .70      |
| 14        | 61E14          | 60-60H     | 3.74 | 1/2"       | .92      |

Above idlers have oil impregnated sintered bronze bearings and are mounted on steel journals. Idler RPM to 2500. Radial load rating to 50 pounds.

**Bronze Bearing Type****Bronze Bearing Idler Sprocket**

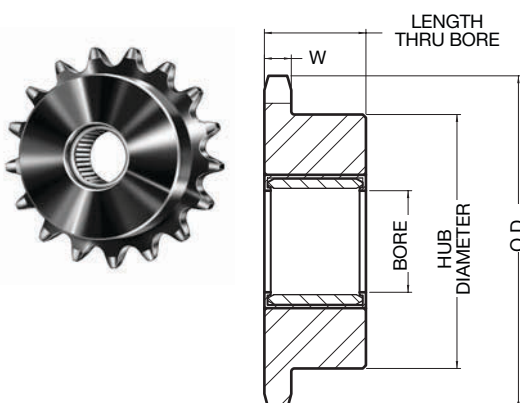
| No. Teeth | Catalog Number | Bearing Type | Chain Size | O.D. | Stock Bore | Length Thru Bore | W     | Hub Diameter | Wt. Lbs. |
|-----------|----------------|--------------|------------|------|------------|------------------|-------|--------------|----------|
| 15        | 35BR15 1/2     | Bronze       | 35         | 1.99 | 1/2"       | 0.94             | 0.168 | 1.35         | 0.30     |
| 21        | 35BR21 7/8     | Bronze       | 35         | 2.71 | 7/8"       | 1.06             | 0.168 | 2.00         | 0.75     |
| 13        | 41BR13 1/2     | Bronze       | 41         | 2.33 | 1/2"       | 0.94             | 0.227 | 1.56         | 0.50     |
| 19        | 41BR19 7/8     | Bronze       | 41         | 3.29 | 7/8"       | 1.06             | 0.227 | 2.50         | 1.00     |
| 13        | 40BR13 1/2     | Bronze       | 40         | 2.33 | 1/2"       | 0.94             | 0.284 | 1.56         | 0.50     |
| 19        | 40BR19 7/8     | Bronze       | 40         | 3.29 | 7/8"       | 1.06             | 0.284 | 2.50         | 1.25     |
| 13        | 50BR13 1/2     | Bronze       | 50         | 2.91 | 1/2"       | 0.94             | 0.343 | 1.87         | 0.90     |
| 17        | 50BR17 7/8     | Bronze       | 50         | 3.72 | 7/8"       | 1.06             | 0.343 | 2.62         | 1.50     |
| 15        | 60BR15 7/8     | Bronze       | 60         | 3.98 | 7/8"       | 1.06             | 0.459 | 2.62         | 1.75     |
| 17        | 60BR17 1 1/8   | Bronze       | 60         | 4.46 | 1 1/8"     | 1.56             | 0.459 | 3.25         | 2.75     |
| 15        | 80BR15 1 1/8   | Bronze       | 80         | 5.30 | 1 1/8"     | 1.56             | 0.575 | 3.50         | 4.25     |

7/8" & 1-1/8" bore have double loop grease groove.

**Radial Load Capacity in Pounds at Various  
Speeds Needle Bearings**

| Idler Size  | RPM  |      |      |      |      |      |
|-------------|------|------|------|------|------|------|
|             | 100  | 500  | 1000 | 1500 | 2000 | 2500 |
| 1/2" Bore   | 1021 | 630  | 512  | 453  | 416  | 389  |
| 1" Bore     | 2751 | 1698 | 1379 | 1221 | 1120 | 1048 |
| 1-1/2" Bore | 6306 | 3891 | 3160 | 2798 | 2567 | —    |

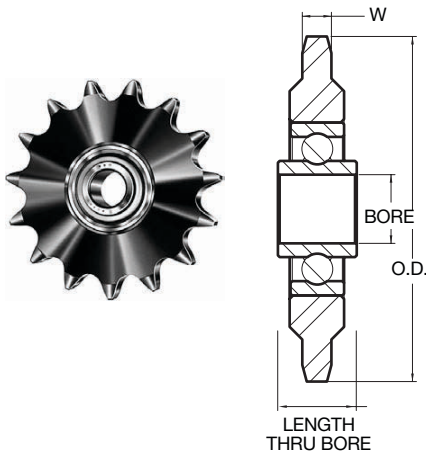
Ratings shown above are based on an average bearing life of 2500 hours.

**Needle Bearing Type****Needle Bearing Idler Sprocket - Hardened Teeth**

| No. Teeth | Catalog Number | Bearing Type | Chain Size | O.D. | Stock Bore | Length Thru Bore | W     | Hub Diameter | Wt. Lbs. |
|-----------|----------------|--------------|------------|------|------------|------------------|-------|--------------|----------|
| 19        | 25NB19H 1/2    | Needle       | 25         | 1.65 | 0.50       | 0.75             | 0.110 | 1.22         | 0.10     |
| 13        | 35NB13H 1/2    | Needle       | 35         | 1.75 | 0.50       | 0.75             | 0.168 | 1.18         | 0.20     |
| 19        | 35NB19H 1      | Needle       | 35         | 2.47 | 1.00       | 1.00             | 0.168 | 1.84         | 0.50     |
| 19        | 41NB19H 1      | Needle       | 41         | 3.29 | 1.00       | 1.00             | 0.227 | 2.50         | 1.00     |
| 19        | 40NB19H 1      | Needle       | 40         | 3.29 | 1.00       | 1.00             | 0.284 | 2.50         | 1.10     |
| 17        | 50NB17H 1      | Needle       | 50         | 3.72 | 1.00       | 1.00             | 0.343 | 2.25         | 1.30     |
| 17        | 60NB17H 1      | Needle       | 60         | 4.46 | 1.00       | 1.00             | 0.459 | 3.00         | 2.60     |
| 13        | 80NB13H 1      | Needle       | 80         | 4.66 | 1.00       | 1.25             | 0.575 | 2.63         | 2.90     |
| 11        | 100NB11H 1 1/2 | Needle       | 100        | 5.01 | 1.50       | 1.88             | 0.692 | 3.56         | 3.60     |
| 11        | 120NB11H 1 1/2 | Needle       | 120        | 6.01 | 1.50       | 2.13             | 0.924 | 3.56         | 7.00     |
| 11        | 140NB11H 1 1/2 | Needle       | 140        | 7.01 | 1.50       | 2.25             | 0.924 | 4.25         | 10.90    |
| 9         | 160NB9H 1 1/2  | Needle       | 160        | 6.70 | 1.50       | 2.25             | 1.156 | 3.63         | 9.60     |

# Idler Sprockets

## Ball Bearing Type



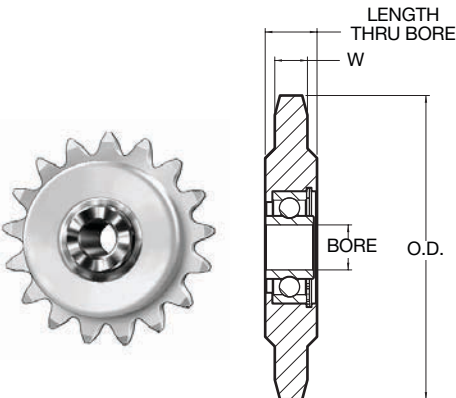
## Ball Bearing Idler Sprocket - Hardened Teeth

| No. Teeth | Discontinued Part Number | Catalog Number | Bearing Type | Chain Size | O.D. | Stock Bore | Length Thru Bore | W     | Wt. Lbs. |
|-----------|--------------------------|----------------|--------------|------------|------|------------|------------------|-------|----------|
| 20        |                          | 25BB20 3/8 *   | Ball         | 25         | 1.73 | 0.394      | 0.35             | 0.110 | 0.10     |
| 19        |                          | 35BB19H 3/8    | Ball         | 35         | 2.47 | 0.394      | 0.38             | 0.168 | 0.35     |
| 19        |                          | 35BB19H 1/2    | Ball         | 35         | 2.47 | 0.510      | 0.72             | 0.168 | 0.35     |
| 20        | 35BB20H                  | 35BB20H 5/8    | Ball         | 35         | 2.59 | 0.638      | 0.72             | 0.168 | 0.38     |
| 18        |                          | 41BB18H 1/2    | Ball         | 41         | 3.14 | 0.510      | 0.72             | 0.227 | 0.51     |
| 18        |                          | 41BB18H 5/8    | Ball         | 41         | 3.14 | 0.638      | 0.72             | 0.227 | 0.51     |
| 17        | 40BB17H                  | 40BB17H 5/8    | Ball         | 40         | 2.97 | 0.638      | 0.72             | 0.284 | 0.52     |
| 18        |                          | 40BB18H 1/2    | Ball         | 40         | 3.14 | 0.510      | 0.72             | 0.284 | 0.53     |
| 18        | 40BB18H                  | 40BB18H 5/8    | Ball         | 40         | 3.14 | 0.638      | 0.72             | 0.284 | 0.53     |
| 25        |                          | 40BB25H 5/8    | Ball         | 40         | 4.26 | 0.638      | 0.72             | 0.284 | 0.90     |
| 35        |                          | 40BB35H 5/8    | Ball         | 40         | 5.86 | 0.638      | 0.72             | 0.284 | 1.77     |
| 48        |                          | 40BB48H 5/8    | Ball         | 40         | 7.93 | 0.638      | 0.72             | 0.284 | 3.37     |
| 15        | 50BB15H                  | 50BB15H 5/8    | Ball         | 50         | 3.32 | 0.638      | 0.72             | 0.343 | 0.75     |
| 17        |                          | 50BB17H 1/2    | Ball         | 50         | 3.72 | 0.510      | 0.72             | 0.343 | 0.78     |
| 17        | 50BB17H                  | 50BB17H 5/8    | Ball         | 50         | 3.72 | 0.638      | 0.72             | 0.343 | 0.78     |
| 25        |                          | 50BB25H 3/4    | Ball         | 50         | 5.32 | 0.750      | 0.61             | 0.343 | 1.66     |
| 39        |                          | 50BB39H 3/4    | Ball         | 50         | 8.12 | 0.750      | 0.61             | 0.343 | 4.09     |
| 12        |                          | 60BB12H 5/8    | Ball         | 60         | 3.25 | 0.638      | 0.72             | 0.459 | 0.72     |
| 13        | 60BB13H                  | 60BB13H 5/8    | Ball         | 60         | 3.49 | 0.638      | 0.72             | 0.459 | 0.76     |
| 15        |                          | 60BB15H 1/2    | Ball         | 60         | 3.98 | 0.510      | 0.72             | 0.459 | 1.06     |
| 15        | 60BB15H                  | 60BB15H 5/8    | Ball         | 60         | 3.98 | 0.638      | 0.72             | 0.459 | 1.06     |
| 17        |                          | 60BB17H 5/8    | Ball         | 60         | 4.46 | 0.638      | 0.72             | 0.459 | 1.10     |
| 12        | 80BB12H                  | 80BB12H 3/4    | Ball         | 80         | 4.33 | 0.750      | 0.61             | 0.575 | 1.50     |

Note: .394 Stock Bore is +.000 -.0003; .510 Stock Bore is +.005 -.000; .638 Stock Bore is +.005 -.000; .750 Stock Bore is +.005 -.000. Discontinued Part Numbers will be replaced with Catalog Number when existing inventory is exhausted.

\* Unhardened Teeth

## Non-Metallic Teeth -Ball Bearing Type



## Ball Bearing Idler Sprockets - Non Metallic Teeth

| No. Teeth | Catalog Number | Bearing Type | Chain Size | O.D. | Stock Bore | Length Thru Bore | W     | Wt. Lbs. |
|-----------|----------------|--------------|------------|------|------------|------------------|-------|----------|
| 17        | 40BB17NM 1/2   | Ball         | 40         | 2.97 | 0.510      | 0.72             | 0.284 | 0.24     |
| 18        | 40BB18NM 5/8   | Ball         | 40         | 3.14 | 0.638      | 0.72             | 0.284 | 0.23     |
| 17        | 50BB17NM 1/2   | Ball         | 50         | 3.72 | 0.510      | 0.72             | 0.343 | 0.29     |
| 18        | 50BB18NM 5/8   | Ball         | 50         | 3.92 | 0.638      | 0.72             | 0.343 | 0.29     |
| 15        | 60BB15NM 1/2   | Ball         | 60         | 3.98 | 0.510      | 0.72             | 0.459 | 0.32     |
| 16        | 60BB16NM 5/8   | Ball         | 60         | 4.22 | 0.638      | 0.72             | 0.459 | 0.33     |
| 12        | 80BB12NM 3/4   | Ball         | 80         | 4.33 | 0.750      | 0.61             | 0.575 | 0.44     |

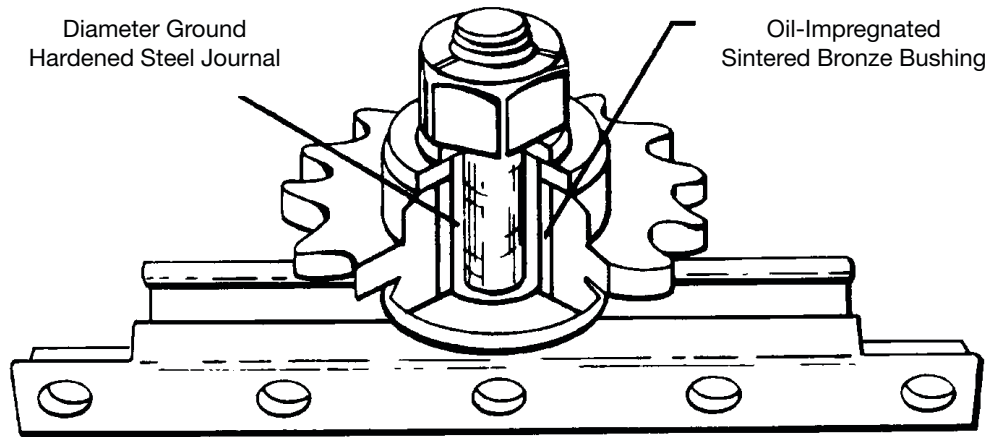
Note: .510 Stock Bore is +.005 -.000; .638 Stock Bore is +.005 -.000;

.750 Stock Bore is +.005 -.000

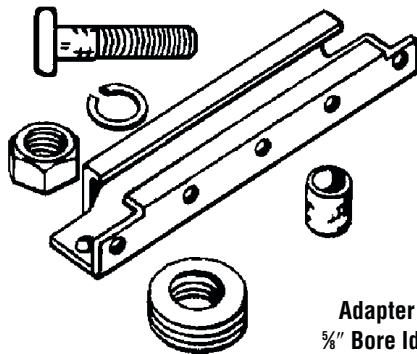
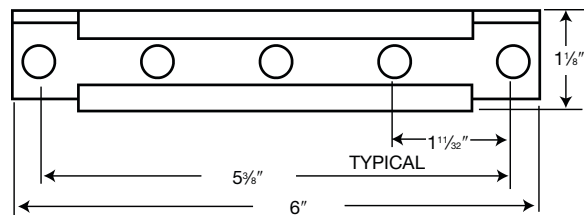
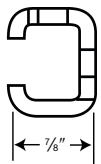
## Radial Load Capacity in Pounds at Various Speeds Ball Bearings

| Idler Size       | RPM  |     |      |      |      |      |
|------------------|------|-----|------|------|------|------|
|                  | 100  | 500 | 1000 | 1500 | 2000 | 2500 |
| 3/8" Bore        | 620  | 363 | 288  | 252  | 229  | 212  |
| 1/2" & 5/8" Bore | 800  | 460 | 360  | 320  | 290  | 270  |
| 3/4" Bore        | 1290 | 755 | 600  | 523  | 478  | 440  |

Ratings shown above are based on an average bearing life of 2500 hours.

**Martin****Idler  
Sprockets****Chain Tightener  
(Less Idler Sprocket)**

NO. E-5006

Adapter for  
5/8" Bore IdlerAttachment Bolts Not  
FurnishedAttachments Holes  
for 5/16" Bolts

*Martin* Chain Tighteners are economical to use . . . they provide everything needed for a quick, easy installation . . . they save time and money . . . there is no need to design, procure or custom make and assemble separate parts . . . they accommodate mounting in several different positions . . . parallel or at 90° to the mounting surface . . . as cantilever or attached each end.

**Features of *Martin* Idlers**

Smooth-running, oil-impregnated, sintered bronze, extra-duty bearing press-fitted in sprocket. Steel journal case hardened . . . for maximum resistance to wear . . . diameter ground surface for free running under load.

Steel sprockets used in *Martin* Idlers . . . are accurately machined (not stamped) the same as sprockets normally supplied for power transmission use.

## 800 Series Conveyor Sprockets



# *Martin* Series 800 Conveyor Sprockets Manufactured From High Quality Semi-Steel



**815 Solid Face  
with Guide Ring Holes  
for Straight Running Chains**

THE NEW  
"QRS"  
SPLIT



**820 Grooved Face for  
Straight Running Chain**

PAT. # 4,964,842

**Split  
815/820 Solid and Grooved Face  
with Guide Ring Holes  
Steel and Thermoplastic**



**821 Heavy Duty  
for Wide Hinged Chain  
Straight Running**



**880 and 882 Single Duty  
for Side Flex Chains**



**881 for Side Flex Chain**

Sprockets for 815, 820, and 881 are all double duty. Sprockets with odd numbers of teeth are recommended for longer wear since a given tooth engages the chain every other revolution. Sprockets with 19, 21, 23, and 25 teeth are preferred. Sprockets with even number of teeth should be advanced one tooth periodically to attain even wear.

*Martin*

## 800 Series Split Conveyor Sprockets

### *Martin* “QRS®” Split Sprocket

#### Series 815/820 Split Sprockets for Flat Top Conveyor Chains

Split Sprockets Manufactured  
from Steel and Thermoplastic Material  
Stocked in 21, 23, 25, and 27 Tooth Sizes

*Martin*'s **Quick Replacement Split Sprocket** eliminates the time consuming and costly dismounting of shafts and pillow blocks to remove worn sprockets — all that's required is a wrench

“QRS” Split Thermoplastic Sprocket Advantages:  
Lightweight — Service Temp. to 300°F — Low Temp. Toughness  
— Excellent Resistance to Oils, Grease, Soaps, and Detergents  
— Outstanding Abrasion and Impact Resistance

Available with solid and grooved face  
and furnished with rust resistant plated steel bolts and nuts

Split (plated carbon steel and stainless) Guide Rings  
available, if necessary, for easy assembly



Proudly made in the U.S.A.

PAT. # 4,964,842

Call your *Martin* Distributor

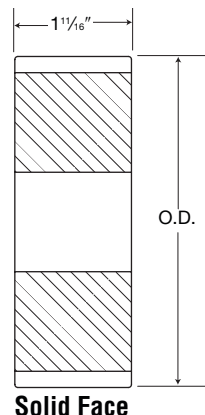
VISIT OUR WEBSITE AT [WWW.CLARKTR.COM](http://WWW.CLARKTR.COM)

# Split Steel and Thermoplastic Stock Bore

## Series 815 Sprockets — Split Steel

| Catalog Number | No. Teeth |           | Pitch Diameter†   | Outside Diameter† | Bore†                   |              | Weight        |
|----------------|-----------|-----------|-------------------|-------------------|-------------------------|--------------|---------------|
|                | Actual    | Effective |                   |                   | Stock                   | Maximum      |               |
| QRS815A21      | 21        | 10%       | 5.089<br>(129.26) | 5.12<br>(130.0)   | $\frac{3}{4}$<br>(19.1) | 1½<br>(38.1) | 5.0<br>(2.27) |
| QRS815A23      | 23        | 11%       | 5.560<br>(141.22) | 5.59<br>(142.0)   | $\frac{3}{4}$<br>(19.1) | 1½<br>(38.1) | 5.6<br>(2.54) |
| QRS815A25      | 25        | 12%       | 6.032<br>(153.21) | 6.07<br>(154.2)   | $\frac{3}{4}$<br>(19.1) | 1½<br>(38.1) | 6.6<br>(3.0)  |
| QRS815A27      | 27        | 13%       | 6.504<br>(165.20) | 6.56<br>(166.6)   | $\frac{3}{4}$<br>(19.1) | 1½<br>(38.1) | 7.8<br>(3.54) |

★ NOTE: Supplied with  $\frac{3}{16}$  - 18 standard setscrew @ 90° to split.



## Series 815 Sprockets — Split Thermoplastic

| Catalog Number | No. Teeth |           | Pitch Diameter†   | Outside Diameter† | Bore†                   |              | Weight        |
|----------------|-----------|-----------|-------------------|-------------------|-------------------------|--------------|---------------|
|                | Actual    | Effective |                   |                   | Stock                   | Maximum      |               |
| QRS815A21P     | 21        | 10%       | 5.089<br>(129.26) | 5.12<br>(130.0)   | $\frac{3}{4}$<br>(19.1) | 1½<br>(38.1) | .94<br>(.43)  |
| QRS815A23P     | 23        | 11%       | 5.560<br>(141.22) | 5.59<br>(142.0)   | $\frac{3}{4}$<br>(19.1) | 1½<br>(38.1) | 1.00<br>(.45) |
| QRS815A25P     | 25        | 12%       | 6.032<br>(153.21) | 6.07<br>(154.2)   | $\frac{3}{4}$<br>(19.1) | 1½<br>(38.1) | 1.10<br>(.50) |
| QRS815A27P     | 27        | 13%       | 6.504<br>(165.20) | 6.56<br>(166.6)   | $\frac{3}{4}$<br>(19.1) | 1½<br>(38.1) | 1.25<br>(.57) |

Thermoplastic temperature operating range -20°F to +300°F

★ NOTE: Supplied with  $\frac{3}{16}$  - 18 plated setscrew @ 90° to split.



PAT. #4,964,842

## Series 820 Sprockets — Split Steel

| Catalog Number | No. Teeth |           | Pitch Diameter†   | Outside Diameter† | Bore†                   |              | Weight        |
|----------------|-----------|-----------|-------------------|-------------------|-------------------------|--------------|---------------|
|                | Actual    | Effective |                   |                   | Stock                   | Maximum      |               |
| QRS820A21      | 21        | 10%       | 5.089<br>(129.26) | 5.12<br>(130.0)   | $\frac{3}{4}$<br>(19.1) | 1½<br>(38.1) | 5.0<br>(2.27) |
| QRS820A23      | 23        | 11%       | 5.560<br>(141.22) | 5.59<br>(142.0)   | $\frac{3}{4}$<br>(19.1) | 1½<br>(38.1) | 5.6<br>(2.54) |
| QRS820A25      | 25        | 12%       | 6.032<br>(153.21) | 6.07<br>(154.2)   | $\frac{3}{4}$<br>(19.1) | 1½<br>(38.1) | 6.6<br>(3.0)  |
| QRS820A27      | 27        | 13%       | 6.504<br>(165.20) | 6.56<br>(166.6)   | $\frac{3}{4}$<br>(19.1) | 1½<br>(38.1) | 7.8<br>(3.54) |

★ NOTE: Supplied with  $\frac{3}{16}$  - 18 standard setscrew @ 90° to split.



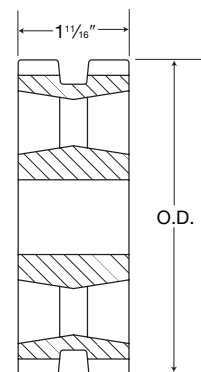
## Series 820 Sprockets — Split Thermoplastic

| Catalog Number | No. Teeth |           | Pitch Diameter†   | Outside Diameter† | Bore†                   |              | Weight        |
|----------------|-----------|-----------|-------------------|-------------------|-------------------------|--------------|---------------|
|                | Actual    | Effective |                   |                   | Stock                   | Maximum      |               |
| QRS820A21P     | 21        | 10%       | 5.089<br>(129.26) | 5.12<br>(130.0)   | $\frac{3}{4}$<br>(19.1) | 1½<br>(38.1) | .94<br>(.43)  |
| QRS820A23P     | 23        | 11%       | 5.560<br>(141.22) | 5.59<br>(142.0)   | $\frac{3}{4}$<br>(19.1) | 1½<br>(38.1) | 1.00<br>(.45) |
| QRS820A25P     | 25        | 12%       | 6.032<br>(153.21) | 6.07<br>(154.2)   | $\frac{3}{4}$<br>(19.1) | 1½<br>(38.1) | 1.10<br>(.50) |
| QRS820A27P     | 27        | 13%       | 6.504<br>(165.20) | 6.56<br>(166.6)   | $\frac{3}{4}$<br>(19.1) | 1½<br>(38.1) | 1.25<br>(.57) |

★ NOTE: Supplied with  $\frac{3}{16}$  - 18 plated setscrew @ 90° to split.

† Inches/mm

For Guide Ring Specifications See page A-12



Grooved Face

*Martin*

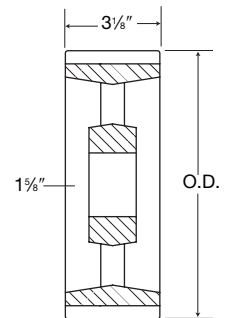
# 800 Series Conveyor Sprockets

## Series 821 Sprockets — Semi-Steel — Stock Bore

| Catalog Number | No. Teeth |           | Pitch Diameter†   | Outside Diameter† | Bore†       |              | Weight       |
|----------------|-----------|-----------|-------------------|-------------------|-------------|--------------|--------------|
|                | Actual    | Effective |                   |                   | Stock       | Maximum      |              |
| 821A21         | 21        | 10½       | 5.089<br>(129.26) | 5.12<br>(130.1)   | 1<br>(25.4) | 1¾<br>(44.5) | 6.7<br>(3.0) |
| 821A23         | 23        | 11½       | 5.560<br>(141.22) | 5.59<br>(142.0)   | 1<br>(25.4) | 1¾<br>(44.5) | 7<br>(3.2)   |
| 821A25         | 25        | 12½       | 6.032<br>(153.21) | 5.07<br>(154.2)   | 1<br>(25.4) | 1¾<br>(44.5) | 7.3<br>(3.3) |
| 821A27         | 27        | 13½       | 6.504<br>(165.20) | 6.56<br>(166.6)   | 1<br>(25.4) | 1¾<br>(44.5) | 7.6<br>(3.4) |
| 821A29         | 29        | 14½       | 6.978<br>(177.24) | 7.05<br>(179.1)   | 1<br>(25.4) | 1¾<br>(44.5) | 8.0<br>(3.6) |

NOTE: † Inches/mm

821 Series also runs with 815 H chain.

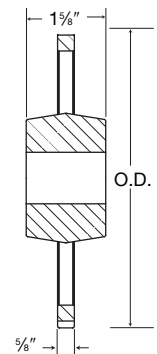


## Series 880 Sprockets — Semi-Steel — Stock Bore

| Catalog Number | No. Teeth |           | Pitch Diameter†   | Outside Diameter† | Bore†       |              | Weight       |
|----------------|-----------|-----------|-------------------|-------------------|-------------|--------------|--------------|
|                | Actual    | Effective |                   |                   | Stock       | Maximum      |              |
| 880C9•         | 9         | 9         | 4.386<br>(111.40) | 4.33<br>(110.0)   | ¾<br>(19.1) | 1¾<br>(44.5) | 2.8<br>(1.3) |
| 880C10         | 10        | 10        | 4.854<br>(123.29) | 4.82<br>(122.4)   | ¾<br>(19.1) | 1¾<br>(31.8) | 3.2<br>(1.4) |
| 880C11         | 11        | 11        | 5.324<br>(135.22) | 5.31<br>(134.9)   | ¾<br>(19.1) | 1¾<br>(44.5) | 3.4<br>(1.5) |
| 880C12         | 12        | 12        | 5.796<br>(147.22) | 5.80<br>(147.3)   | ¾<br>(19.1) | 1¾<br>(44.5) | 3.6<br>(1.6) |
| 880C15         | 15        | 15        | 7.215<br>(182.26) | 7.26<br>(184.4)   | ¾<br>(19.1) | 1¾<br>(44.5) | 4.2<br>(1.9) |

NOTE: • Block Body – Other sizes are arm body

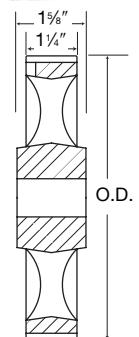
† Inches/mm



## Series 881 Sprockets — Semi-Steel — Stock Bore

| Catalog Number | No. Teeth |           | Pitch Diameter†   | Outside Diameter† | Bore†       |              | Weight       |
|----------------|-----------|-----------|-------------------|-------------------|-------------|--------------|--------------|
|                | Actual    | Effective |                   |                   | Stock       | Maximum      |              |
| 881C21         | 21        | 10½       | 5.089<br>(129.26) | 5.120<br>(130.05) | ¾<br>(19.1) | 1¾<br>(44.5) | 4.2<br>(1.9) |
| 881C23         | 23        | 11½       | 5.560<br>(141.22) | 5.590<br>(141.99) | ¾<br>(19.1) | 1¾<br>(44.5) | 4.6<br>(2.1) |
| 881C25         | 25        | 12½       | 6.032<br>(153.21) | 6.070<br>(154.18) | ¾<br>(19.1) | 1¾<br>(44.5) | 5.0<br>(2.3) |

NOTE: † Inches/mm



A-9

# 800 Series Conveyor Sprockets



## Series 820 Sprockets — Semi-Steel — Stock Bore

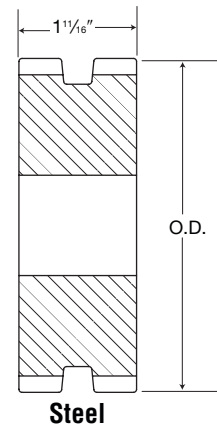
| Catalog Number | No. Teeth |           | Pitch Diameter†   | Outside Diameter† | Bore†       |              | Weight         |
|----------------|-----------|-----------|-------------------|-------------------|-------------|--------------|----------------|
|                | Actual    | Effective |                   |                   | Stock       | Maximum      |                |
| 820A13B•       | 13        | 6½        | 3.228<br>(81.99)  | 3.11<br>(79.0)    | ¾<br>(19.1) | 1¼<br>(31.8) | 2.4<br>(1.1)   |
| 820A15B•       | 15        | 7½        | 3.688<br>(93.68)  | 3.63<br>(92.2)    | ¾<br>(19.1) | 1¼<br>(31.8) | 3.6<br>(1.6)   |
| 820A17B•       | 17        | 8½        | 4.153<br>(105.49) | 4.12<br>(104.7)   | ¾<br>(19.1) | 1⅞<br>(42.9) | 4.7<br>(2.1)   |
| 820A19         | 19        | 9½        | 4.620<br>(117.35) | 4.61<br>(117.1)   | ¾<br>(19.1) | 1¼<br>(31.8) | 3.1<br>(1.5)   |
| 820A20         | 20        | 10        | 4.854<br>(123.29) | 4.86<br>(123.4)   | ¾<br>(19.1) | 1¼<br>(31.8) | 3.8<br>(1.7)   |
| 820A21         | 21        | 10½       | 5.089<br>(129.26) | 5.12<br>(130.0)   | ¾<br>(19.1) | 1¼<br>(44.5) | 4.6<br>(2.1)   |
| 820A21B•       | 21        | 10½       | 5.089<br>(129.26) | 5.12<br>(130.0)   | ¾<br>(19.1) | 2½<br>(63.5) | 7.1<br>(3.3)   |
| 820A22         | 22        | 11        | 5.324<br>(135.23) | 5.35<br>(135.9)   | ¾<br>(19.1) | 1¼<br>(44.5) | 4.2<br>(1.9)   |
| 820A23         | 23        | 11½       | 5.560<br>(141.22) | 5.59<br>(142.0)   | ¾<br>(19.1) | 1¼<br>(44.5) | 5.3<br>(2.4)   |
| 820A24         | 24        | 12        | 5.796<br>(147.22) | 5.83<br>(148.1)   | ¾<br>(19.1) | 1¼<br>(44.5) | 4.4<br>(2.0)   |
| 820A25         | 25        | 12½       | 6.032<br>(153.21) | 6.07<br>(154.2)   | ¾<br>(19.1) | 2<br>(50.8)  | 5.6<br>(2.4)   |
| 820A25B•       | 25        | 12½       | 6.032<br>(153.21) | 6.07<br>(154.2)   | ¾<br>(19.1) | 3⅞<br>(81.0) | 9.6<br>(4.4)   |
| 820A27         | 27        | 13½       | 6.504<br>(165.20) | 6.56<br>(166.6)   | ¾<br>(19.1) | 2<br>(50.8)  | 6.5<br>(2.8)   |
| 820A29         | 29        | 14½       | 6.978<br>(177.24) | 7.05<br>(179.1)   | ¾<br>(19.1) | 2<br>(50.8)  | 6.8<br>(3.1)   |
| 820A31         | 31        | 15½       | 7.452<br>(189.28) | 7.53<br>(191.3)   | ¾<br>(19.1) | 2<br>(50.8)  | 6.9<br>(3.1)   |
| 820A41         | 41        | 20½       | 9.826<br>(249.58) | 9.93<br>(252.2)   | ¾<br>(19.1) | 2½<br>(64)   | 16.00<br>(7.1) |

NOTE: • Block Body — Other sizes are arm body

† Inches/mm

Max. bore shown is with Standard Keyway and Setscrew.

820 Series stocked grooved. (Guide ring holes in 21, 23, 25, and 27 tooth sizes can be provided upon request).

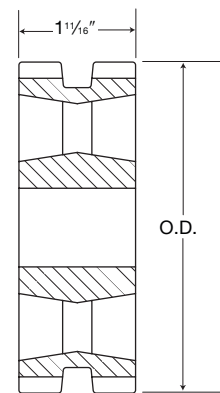


Steel

## Series 820 Sprockets — Semi-Steel — Bored to Size

| Catalog Number | Inch/Metric<br>Stock Finished Bores With Standard Keyway and Setscrew |           |            |            |
|----------------|-----------------------------------------------------------------------|-----------|------------|------------|
| 820BS19        | 1" (25.4)                                                             |           |            |            |
| 820BS21        | 1" (25.4)                                                             |           |            |            |
| 820BS23        | ¾" (22.2)                                                             | 1" (25.4) | 1⅞" (30.2) | 1¼" (31.8) |
| 820BS25        | 1" (25.4)                                                             |           | 1⅞" (30.2) | 1¼" (31.8) |
| 820BS27        | 1" (25.4)                                                             |           |            |            |

Stock grooved without guide ring holes. All arm body.



Cast

**Martin****800 Series  
Conveyor Sprockets****Series 815 Sprockets — Semi-Steel — Stock Bore**

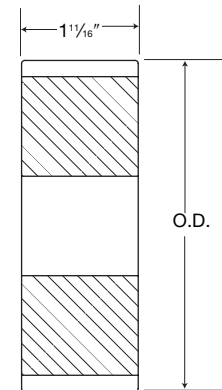
| Catalog Number | No. Teeth |           | Pitch Diameter†   | Outside Diameter† | Bore†       |              | Weight         |
|----------------|-----------|-----------|-------------------|-------------------|-------------|--------------|----------------|
|                | Actual    | Effective |                   |                   | Stock       | Maximum      |                |
| 815A13B•       | 13        | 6½        | 3.228<br>(81.99)  | 3.11<br>(79.0)    | ¾<br>(19.1) | 1¼<br>(31.8) | 2.4<br>(1.1)   |
| 815A15B•       | 15        | 7½        | 3.688<br>(93.68)  | 3.63<br>(92.2)    | ¾<br>(19.1) | 1¼<br>(31.8) | 3.6<br>(1.6)   |
| 815A17B•       | 17        | 8½        | 4.153<br>(105.49) | 4.12<br>(104.7)   | ¾<br>(19.1) | 1⅝<br>(42.9) | 4.7<br>(2.1)   |
| 815A19         | 19        | 9½        | 4.620<br>(117.35) | 4.61<br>(117.1)   | ¾<br>(19.1) | 1¼<br>(31.8) | 3.1<br>(1.5)   |
| 815A20         | 20        | 10        | 4.854<br>(123.29) | 4.86<br>(123.4)   | ¾<br>(19.1) | 1¼<br>(31.8) | 3.8<br>(1.7)   |
| 815A21         | 21        | 10½       | 5.089<br>(129.26) | 5.12<br>(130.0)   | ¾<br>(19.1) | 1¼<br>(44.5) | 4.6<br>(2.1)   |
| 815A21B•       | 21        | 10½       | 5.089<br>(129.26) | 5.12<br>(130.0)   | ¾<br>(19.1) | 2½<br>(63.5) | 7.1<br>(3.3)   |
| 815A22         | 22        | 11        | 5.324<br>(135.23) | 5.35<br>(135.9)   | ¾<br>(19.1) | 1¼<br>(44.5) | 4.2<br>(1.9)   |
| 815A23         | 23        | 11½       | 5.560<br>(141.22) | 5.59<br>(142.0)   | ¾<br>(19.1) | 1¼<br>(44.5) | 5.3<br>(2.4)   |
| 815A24         | 24        | 12        | 5.796<br>(147.22) | 5.83<br>(148.1)   | ¾<br>(19.1) | 1¼<br>(44.5) | 4.4<br>(2.0)   |
| 815A25         | 25        | 12½       | 6.032<br>(153.21) | 6.07<br>(154.2)   | ¾<br>(19.1) | 2<br>(50.8)  | 5.6<br>(2.4)   |
| 815A25B•       | 25        | 12½       | 6.032<br>(153.21) | 6.07<br>(154.2)   | ¾<br>(19.1) | 3⅝<br>(81.0) | 9.6<br>(4.4)   |
| 815A27         | 27        | 13½       | 6.504<br>(165.20) | 6.56<br>(166.6)   | ¾<br>(19.1) | 2<br>(50.8)  | 6.5<br>(2.8)   |
| 815A29         | 29        | 14½       | 6.978<br>(177.24) | 7.05<br>(179.1)   | ¾<br>(19.1) | 2<br>(50.8)  | 6.8<br>(3.1)   |
| 815A31         | 31        | 15½       | 7.452<br>(189.28) | 7.53<br>(191.3)   | ¾<br>(19.1) | 2<br>(50.8)  | 6.9<br>(3.1)   |
| 815A41         | 41        | 20½       | 9.826<br>(249.58) | 9.93<br>(252.2)   | ¾<br>(19.1) | 2½<br>(64)   | 16.00<br>(7.1) |

NOTE: • Block Body — Other sizes are arm body

† Inches/mm

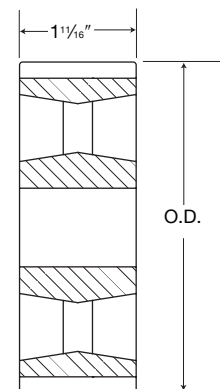
Max. bore shown is with Standard Keyway and Setscrew.

815 Series stocked not grooved, with guide ring holes.

**Series 815 Sprockets — Semi-Steel — Bored to Size**

| Catalog Number | Inch/Metric<br>Stock Finished Bores With Standard Keyway and Setscrew |           |            |            |            |
|----------------|-----------------------------------------------------------------------|-----------|------------|------------|------------|
|                |                                                                       |           |            |            |            |
| 815BS19        |                                                                       | 1" (25.4) |            |            |            |
| 815BS21        |                                                                       | 1" (25.4) |            |            |            |
| 815BS23        | ⅞" (22.2)                                                             | 1" (25.4) | 1⅝" (28.6) | 1⅜" (30.2) | 1¼" (31.8) |
| 815BS25        |                                                                       | 1" (25.4) |            | 1⅜" (30.2) | 1¼" (31.8) |
| 815BS27        |                                                                       | 1" (25.4) |            |            |            |

Stock not grooved but with guide ring holes. All arm body.

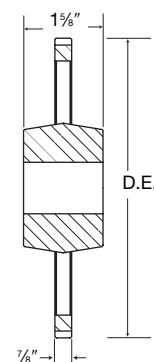


# Series 800 Conveyor Sprockets

## Series 882 Sprockets — Semi-Steel — Stock Bore

| Catalog Number | No. Teeth |           | Pitch Diameter†   | Outside Diameter† | Bore†       |              | Weight       |
|----------------|-----------|-----------|-------------------|-------------------|-------------|--------------|--------------|
|                | Actual    | Effective |                   |                   | Stock       | Maximum      |              |
| 882C9          | 9         | 9         | 4.386<br>(111.40) | 4.430<br>(112.5)  | ¾<br>(19.1) | 1¾<br>(44.5) | 3.8<br>(1.8) |
| 882C10         | 10        | 10        | 4.854<br>(123.29) | 4.920<br>(125.0)  | ¾<br>(19.1) | 1¾<br>(44.5) | 4.2<br>(1.9) |
| 882C11         | 11        | 11        | 5.325<br>(135.25) | 5.410<br>(137.40) | ¾<br>(19.1) | 1¾<br>(44.5) | 4.4<br>(2.1) |
| 882C12★        | 12        | 12        | 5.796<br>(147.21) | 5.90<br>(149.90)  | ¾<br>(19.1) | 1¾<br>(44.5) | 4.6<br>(2.2) |

NOTE: ★ Arm Body — Other sizes are block body  
† Inches/mm



## 815 Guide Rings — Steel and Stainless Steel

| Catalog Number★ | O.D.<br>Inches<br>(mm) | Thick<br>Inches<br>(mm) | Weight<br>Per Set |
|-----------------|------------------------|-------------------------|-------------------|
| GR15-16         | 3.62                   | ⅞                       | .23               |
| GR15-16SS       | (91.9)                 | (1.6)                   | (.10)             |
| GR17-18         | 4.11                   | ⅞                       | .26               |
| GR17-18SS       | (104.4)                | (1.6)                   | (.120)            |
| GR19-20         | 4.58                   | ⅞                       | .37               |
| GR19-20SS       | (116.3)                | (3.2)                   | (.17)             |
| GR21-22         | 5.09                   | ⅞                       | .44               |
| GR21-22SS       | (129.3)                | (3.2)                   | (.20)             |
| GR23-24         | 5.56                   | ⅞                       | .46               |
| GR23-24SS       | (141.2)                | (3.2)                   | (.21)             |
| GR25-26         | 6.04                   | ⅞                       | .47               |
| GR25-26SS       | (153.4)                | (3.2)                   | (.21)             |
| GR27-28         | 6.53                   | ⅞                       | .53               |
| GR27-28SS       | (165.9)                | (3.2)                   | (.24)             |
| GR29-30         | 7.02                   | ⅞                       | .56               |
| GR29-30SS       | (178.3)                | (3.2)                   | (.25)             |
| GR31-32         | 7.50                   | ⅞                       | .67               |
| GR31-32SS       | (190.5)                | (3.2)                   | (.30)             |
| GR41-42         | 9.89                   | ⅞                       | .92               |
| GR41-42SS       | (251.2)                | (3.2)                   | (.42)             |

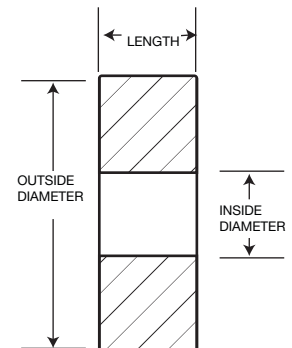
★ Carbon Steel  
Stainless Steel

**Martin****Semi-Finished  
Weld-On Hubs****Stock Semi-Finished Weld-On Hubs**

| Catalog No. | Dimensions       |        |                 | Approx. Wt. Lbs. |
|-------------|------------------|--------|-----------------|------------------|
|             | Outside Diameter | Length | Inside Diameter |                  |
| 225-28-19   | 2 1/4            | 7/8    | 1 1/2           | .9               |
| 225-28-23   | 2 1/4            | 7/8    | 2 1/2           | .9               |
| 225-32-00   | 2 1/4            | 1      | —               | 1.1              |
| 250-30-00   | 2 1/2            | 1 1/8  | —               | 1.3              |
| 250-40-00   | 2 1/2            | 1 1/4  | —               | 1.7              |
| 300-25-19   | 3                | 2 1/2  | 1 1/2           | 1.2              |
| 300-30-23   | 3                | 1 1/8  | 2 1/2           | 1.6              |
| 300-30-30   | 3                | 1 1/8  | 1 1/8           | 1.6              |
| 300-32-00   | 3                | 1      | —               | 2.0              |
| 300-38-00   | 3                | 1 1/8  | —               | 2.4              |
| 300-40-30   | 3                | 1 1/4  | 1 1/8           | 2.3              |
| 325-25-19   | 3 1/4            | 2 1/2  | 1 1/2           | 1.8              |
| 325-30-23   | 3 1/4            | 1 1/8  | 2 1/2           | 2.1              |
| 350-30-00   | 3 1/2            | 1 1/8  | —               | 2.6              |
| 350-34-00   | 3 1/2            | 1 1/8  | —               | 2.9              |
| 350-38-00   | 3 1/2            | 1 3/8  | —               | 3.2              |
| 356-28-23   | 3 3/8            | 7/8    | 2 1/2           | 2.4              |
| 356-28-30   | 3 3/8            | 7/8    | 1 1/8           | 2.3              |
| 356-31-23   | 3 3/8            | 3/4    | 2 1/2           | 2.6              |
| 375-30-00   | 3 3/4            | 1 1/8  | —               | 2.9              |
| 375-30-30   | 3 3/4            | 1 1/8  | 1 1/8           | 2.8              |
| 375-45-30   | 3 3/4            | 1 1/2  | 1 1/8           | 4.1              |
| 400-26-00   | 4                | 1 3/8  | —               | 2.9              |
| 400-26-23   | 4                | 1 3/8  | 2 1/2           | 2.8              |
| 400-26-30   | 4                | 1 3/8  | 1 1/8           | 2.7              |
| 400-31-30   | 4                | 3/4    | 1 1/8           | 3.3              |
| 400-32-23   | 4                | 1      | 2 1/2           | 3.5              |
| 400-36-00   | 4                | 1 1/8  | —               | 3.5              |
| 400-48-30   | 4                | 1 1/2  | 1 1/8           | 5.1              |
| 425-26-00   | 4 1/4            | 1 3/8  | —               | 3.3              |
| 425-26-30   | 4 1/4            | 1 3/8  | 1 1/8           | 3.1              |
| 425-30-30   | 4 1/4            | 1 3/8  | 1 1/8           | 3.6              |
| 425-38-30   | 4 1/4            | 1 3/8  | 1 1/8           | 4.5              |
| 425-42-40   | 4 1/4            | 1 1/8  | 1 1/4           | 4.8              |
| 425-45-30   | 4 1/4            | 1 1/2  | 1 1/8           | 5.4              |
| 425-50-40   | 4 1/4            | 1 1/8  | 1 1/4           | 5.7              |
| 450-34-00   | 4 1/2            | 1 1/8  | —               | 4.8              |
| 450-36-40   | 4 1/2            | 1 1/8  | 1 1/4           | 4.7              |
| 450-44-40   | 4 1/2            | 1 1/8  | 1 1/4           | 5.7              |
| 450-44-48   | 4 1/2            | 1 1/8  | 1 1/2           | 5.7              |
| 450-48-48   | 4 1/2            | 1 1/2  | 1 1/2           | 6.0              |
| 475-12-40   | 4 3/4            | 3/4    | 1 1/4           | 1.8              |
| 475-22-30   | 4 3/4            | 1 1/8  | 1 1/8           | 3.3              |
| 475-22-40   | 4 3/4            | 1 1/8  | 1 1/4           | 3.3              |
| 475-26-40   | 4 3/4            | 1 3/8  | 1 1/4           | 4.0              |
| 475-30-30   | 4 3/4            | 1 3/8  | 1 1/8           | 4.5              |
| 475-36-00   | 4 3/4            | 1 1/8  | —               | 5.7              |
| 475-36-30   | 4 3/4            | 1 1/8  | 1 1/8           | 5.5              |
| 475-44-48   | 4 3/4            | 1 1/8  | 1 1/2           | 6.2              |
| 475-48-38   | 4 3/4            | 1 1/2  | 1 1/8           | 7.0              |
| 475-48-40   | 4 3/4            | 1 1/2  | 1 1/4           | 7.0              |
| 475-50-00   | 4 3/4            | 1 1/8  | —               | 7.8              |
| 475-50-40   | 4 3/4            | 1 1/8  | 1 1/4           | 7.8              |
| 475-54-00   | 4 3/4            | 1 1/8  | —               | 8.5              |
| 500-42-40   | 5                | 1 1/8  | 1 1/4           | 6.8              |
| 500-50-00   | 5                | 1 1/8  | —               | 8.7              |
| 500-50-40   | 5                | 1 1/8  | 1 1/4           | 8.7              |
| 500-58-40   | 5                | 1 1/8  | 1 1/4           | 9.5              |
| 500-58-48   | 5                | 1 1/8  | 1 1/2           | 9.4              |
| 525-24-32   | 5 1/4            | 3/4    | 1               | 4.4              |
| 525-34-00   | 5 1/4            | 1 1/8  | —               | 6.5              |
| 525-36-40   | 5 1/4            | 1 1/8  | 1 1/4           | 6.5              |
| 525-42-00   | 5 1/4            | 1 1/8  | —               | 8.1              |
| 525-48-40   | 5 1/4            | 1 1/2  | 1 1/4           | 8.7              |
| 525-48-48   | 5 1/4            | 1 1/2  | 1 1/2           | 8.7              |
| 525-62-32   | 5 1/4            | 1 1/8  | 1               | 11.5             |
| 525-72-32   | 5 1/4            | 2 1/4  | 1               | 13.3             |
| 550-34-00   | 5 1/2            | 1 1/8  | —               | 7.2              |
| 550-44-40   | 5 1/2            | 1 1/8  | 1 1/4           | 8.6              |
| 550-44-48   | 5 1/2            | 1 1/8  | 1 1/2           | 8.6              |

| Catalog No. | Dimensions       |        |                 | Approx. Wt. Lbs. |
|-------------|------------------|--------|-----------------|------------------|
|             | Outside Diameter | Length | Inside Diameter |                  |
| 550-48-40   | 5 1/2            | 1 1/2  | 1 1/4           | 9.3              |
| 550-48-48   | 5 1/2            | 1 1/2  | 1 1/2           | 9.3              |
| 550-58-40   | 5 1/2            | 1 1/8  | 1 1/4           | 11.6             |
| 550-58-48   | 5 1/2            | 1 1/8  | 1 1/2           | 11.6             |
| 550-64-48   | 5 1/2            | 2      | 1 1/2           | 12.5             |
| 575-24-32   | 5 3/4            | 3/4    | 1               | 5.4              |
| 575-32-00   | 5 3/4            | 1      | —               | 7.4              |
| 575-42-00   | 5 3/4            | 1      | —               | 9.7              |
| 575-42-48   | 5 3/4            | 1 1/8  | 1 1/2           | 9.7              |
| 575-44-36   | 5 3/4            | 1 1/8  | 1 1/2           | 10.9             |
| 575-52-00   | 5 3/4            | 1 1/8  | —               | 12.0             |
| 575-52-48   | 5 3/4            | 1 1/8  | 1 1/2           | 12.0             |
| 575-72-32   | 5 3/4            | 2 1/4  | 1               | 16.1             |
| 600-41-48   | 6                | 1 1/2  | 1 1/2           | 9.6              |
| 600-46-48   | 6                | 1 1/4  | 1 1/2           | 10.8             |
| 600-52-48   | 6                | 1 1/8  | 1 1/2           | 12.2             |
| 600-58-48   | 6                | 1 1/8  | 1 1/2           | 13.6             |
| 600-62-00   | 6                | 1 1/8  | —               | 15.5             |
| 600-62-40   | 6                | 1 1/8  | 1 1/4           | 15.5             |
| 600-62-48   | 6                | 1 1/8  | 1 1/2           | 15.5             |
| 600-68-48   | 6                | 2 1/4  | 1 1/2           | 16.0             |
| 600-80-48   | 6                | 2 1/2  | 1 1/2           | 18.8             |
| 625-16-40   | 6 1/4            | 1/2    | 1 1/4           | 4.4              |
| 625-16-48   | 6 1/4            | 1/2    | 1 1/4           | 4.4              |
| 625-24-32   | 6 1/4            | 3/4    | 1               | 6.4              |
| 625-24-40   | 6 1/4            | 3/4    | 1 1/4           | 6.4              |
| 625-24-48   | 6 1/4            | 3/4    | 1 1/2           | 6.4              |
| 625-28-48   | 6 1/4            | 7/8    | 1 1/2           | 7.2              |
| 625-30-48   | 6 1/4            | 1 1/8  | 1 1/2           | 8.1              |
| 625-32-40   | 6 1/4            | 1      | 1 1/4           | 8.3              |
| 625-34-48   | 6 1/4            | 1 1/8  | 1 1/2           | 9.3              |
| 625-38-40   | 6 1/4            | 1 1/8  | 1 1/4           | 10.0             |
| 625-38-48   | 6 1/4            | 1 1/8  | 1 1/2           | 9.7              |
| 625-48-48   | 6 1/4            | 1 1/2  | 1 1/2           | 12.3             |
| 625-52-48   | 6 1/4            | 1 1/2  | 1 1/2           | 13.3             |
| 625-68-48   | 6 1/4            | 2 1/4  | 1 1/2           | 17.4             |
| 625-80-32   | 6 1/4            | 2 1/2  | 1               | 21.1             |
| 650-44-00   | 6 1/2            | 1 1/8  | —               | 12.9             |
| 650-44-48   | 6 1/2            | 1 1/8  | 1 1/2           | 12.9             |
| 650-52-48   | 6 1/2            | 1 1/8  | 1 1/2           | 14.5             |
| 650-72-48   | 6 1/2            | 2 1/4  | 1 1/2           | 20.0             |
| 650-96-48   | 6 1/2            | 3      | 1 1/2           | 26.7             |
| 675-36-40   | 6 3/4            | 1 1/8  | 1 1/4           | 11.0             |
| 675-38-48   | 6 3/4            | 1 1/8  | 1 1/2           | 11.4             |
| 675-44-48   | 6 3/4            | 1 1/8  | 1 1/2           | 13.3             |
| 675-61-48   | 6 3/4            | 1 1/2  | 1 1/2           | 19.4             |
| 675-72-48   | 6 3/4            | 2 1/4  | 1 1/2           | 21.7             |
| 675-94-40   | 6 3/4            | 2 1/8  | 1 1/2           | 28.3             |
| 700-24-48   | 7                | 3/4    | 1 1/2           | 8.2              |
| 700-26-48   | 7                | 1 1/8  | 1 1/2           | 8.9              |
| 700-28-48   | 7                | 7/8    | 1 1/2           | 8.9              |
| 700-30-48   | 7                | 1 1/8  | 1 1/2           | 9.2              |
| 700-32-48   | 7                | 1      | 1 1/2           | 9.8              |
| 700-36-48   | 7                | 1 1/8  | 1 1/2           | 12.3             |
| 700-38-48   | 7                | 1 1/8  | 1 1/2           | 13.0             |
| 700-44-48   | 7                | 1 1/8  | 1 1/2           | 14.3             |
| 700-52-48   | 7                | 1 1/8  | 1 1/2           | 16.9             |
| 700-58-48   | 7                | 1 1/8  | 1 1/2           | 18.9             |
| 700-61-48   | 7                | 1 1/2  | 1 1/2           | 19.8             |
| 700-62-48   | 7                | 1 1/8  | 1 1/2           | 21.1             |
| 700-68-48   | 7                | 2 1/4  | 1 1/2           | 22.1             |
| 700-112-48  | 7                | 3 1/2  | 1 1/2           | 36.4             |
| 725-36-40   | 7 1/4            | 1 1/8  | 1 1/4           | 12.8             |
| 725-94-40   | 7 1/4            | 2 1/8  | 1 1/4           | 33.3             |
| 750-24-48   | 7 1/2            | 3/4    | 1 1/2           | 9.0              |
| 750-44-48   | 7 1/2            | 1 1/8  | 1 1/2           | 16.5             |
| 750-50-48   | 7 1/2            | 1 1/8  | 1 1/2           | 18.8             |
| 750-58-48   | 7 1/2            | 1 1/8  | 1 1/2           | 21.8             |
| 750-66-48   | 7 1/2            | 2 1/8  | 1 1/2           | 24.8             |
| 750-68-48   | 7 1/2            | 2 1/2  | 1 1/2           | 25.5             |

| Catalog No. | Dimensions       |        |                 | Approx. Wt. Lbs. |
|-------------|------------------|--------|-----------------|------------------|
|             | Outside Diameter | Length | Inside Diameter |                  |
| 750-70-48   | 7 1/2            | 2 1/8  | 1 1/2           | 26.3             |
| 750-72-48   | 7 1/2            | 2 1/4  | 1 1/2           | 27.0             |
| 750-74-48   | 7 1/2            | 2 1/8  | 1 1/2           | 18.5             |
| 750-84-48   | 7 1/2            | 2 1/2  | 1 1/2           | 31.5             |
| 750-94-48   | 7 1/2            | 2 1/8  | 1 1/2           | 35.0             |
| 775-36-48   | 7 3/4            | 1 1/8  | 1 1/2           | 23.0             |
| 775-58-48   | 7 3/4            | 1 1/8  | 1 1/2           | 25.0             |
| 775-66-48   | 7 3/4            | 2 1/8  | 1 1/2           | 26.0             |
| 775-74-48   | 7 3/4            | 2 1/8  | 1 1/2           | 31.0             |
| 775-94-48   | 7 3/4            | 2 1/8  | 1 1/2           | 36.0             |
| 800-54-48   | 8                | 1 1/8  | 1 1/2           | 23.2             |
| 800-62-48   | 8                | 1 1/8  | 1 1/2           | 26.6             |
| 800-72-48   | 8                | 2 1/4  | 1 1/2           | 30.9             |
| 800-78-48   | 8                | 2 1/8  | 1 1/2           | 33.5             |
| 800-112-48  | 8                | 3 1/2  | 1 1/2           | 48.1             |
| 850-50-48   | 8 1/2            | 1 1/8  | 1 1/2           | 24.3             |
| 850-52-48   | 8 1/2            | 1 1/8  | 1 1/2           | 24.3             |
| 850-72-48   | 8 1/2            | 2 1/4  | 1 1/2           | 35.0             |
| 850-84-48   | 8 1/2            | 2 1/8  | 1 1/2           | 40.8             |
| 850-124-48  | 8 1/2            | 3 1/4  | 1 1/2           | 50.0             |
| 900-58-48   | 9                | 1 1/8  | 1 1/2           | 32.0             |
| 900-60-48   | 9                | 1 1/8  | 1 1/2           | 32.9             |
| 900-72-48   | 9                | 2 1/4  | 1 1/2           | 39.4             |
| 900-112-48  | 9                | 3 1/2  | 1 1/2           | 61.3             |
| 950-52-188  | 9 1/2            | 1 1/8  | 5 1/2           | 20.2             |
| 950-54-48   | 9 1/2            | 1 1/8  | 1 1/2           | 33.1             |
| 950-60-188  | 9 1/2            | 1 1/8  | 5 1/2           | 23.3             |
| 950-60-48   | 9 1/2            | 1 1/8  | 1 1/2           | 36.8             |
| 950-66-48   | 9 1/2            | 2 1/8  | 1 1/2           | 40.4             |
| 950-70-188  | 9 1/2            | 2 1/2  | 5 1/2           | 27.5             |
| 950-70-48   | 9 1/2            | 2 1/8  | 1 1/2           | 44.0             |
| 950-74-188  | 9 1/2            | 2 1/8  | 5 1/2           | 28.7             |
| 950-74-48   | 9 1/2            | 2 1/8  | 1 1/2           | 45.3             |
| 950-78-188  | 9 1/2            | 2 1/8  | 5 1/2           | 30.3             |
| 950-78-48   | 9 1/2            | 2 1/8  | 1 1/2           | 49.0             |
| 950-80-48   | 9 1/2            | 2 1/8  | 1 1/2           | 49.0             |
| 950-82-188  | 9 1/2            | 2 1/8  | 5 1/2           | 31.8             |
| 950-82-48   | 9 1/2            | 2 1/8  | 1 1/2           | 50.2             |
| 950-86-188  | 9 1/2            | 2 1/8  | 5 1/2           | 33.4             |
| 950-86-48   | 9 1/2            | 2 1/8  | 1 1/2           | 54.0             |
| 950-88-48   | 9 1/2            | 2 1/8  | 1 1/2           | 53.9             |
| 950-96-48   | 9 1/2            | 3      | 1 1/2           | 58.7             |
| 100-80-48   | 10               | 2 1/2  | 1 1/2           | 54.4             |
| 100-100-48  | 10               | 3 1/4  | 1 1/2           | 68.0             |
| 100-116-48  | 10               | 3 1/4  | 1 1/2           | 78.8             |
| 100-124-48  | 10               | 3 1/4  | 1 1/2           | 84.3             |
| 105-56-200  | 10 1/2           | 1 1/8  | 6 1/2           | 27.8             |
| 105-58-200  | 10 1/2           | 1 1/8  | 6 1/2           | 28.7             |
| 105-100-200 | 10 1/2           | 3 1/8  | 6 1/2           | 49.6             |
| 105-106-200 | 10 1/2           | 3 1/8  | 6 1/2           | 52.5             |
| 110-128-48  | 11               | 4      | 1 1/2           | 105.7            |



## Custom Capabilities Forgings & Castings



### Forgings

Know how garnered through decades provides unsurpassed benefit for the industrial user of custom forgings. This includes all phases in the forging process - die design and engineering, forging, coining, heat treating, and polishing.

Hammers ranging in size from 1,000 to 5,000 pounds produce finished parts from a few ounces to 50 pounds. Various alloys, the use of multi-cavity dies, expansive capacity, and secondary machining capability enable *Martin* to deliver near 100% density requirements in a cost effective manner.

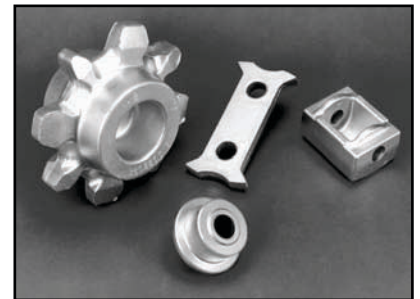
**Application:** Counter weight on unit handling equipment.

**Problem:** Parts were being milled in-house from purchased burned plate. Process was expensive, but low volumes had prevented consideration of alternate methods of manufacture.

**Solution:** Instead of utilizing their expensive CNC milling equipment on relatively low-tech part, *Martin* designed a simple die for a forged part, which worked well for medium quantity production runs. When compared to sourcing costs, production time, and scrap, the forged part was less expensive than the milled part. The real savings has resulted from the enhanced utilization of the CNC milling equipment for other, more profitable work.



One of the many hammers capable of producing forgings up to 50 lbs.



### Castings

Operating its own foundry enables *Martin* to provide its customers with quality assurance, quick lead times, and application engineering assistance on cast and ductile iron parts.

With an upper range of 96" in diameter and 10,000 pounds, our own pattern shop, and streamlined access to secondary machining, *Martin's* comprehensive capabilities serve a broad spectrum of industrial uses.

**Application:** Conveyor.

**Problem:** Redesign of equipment required flywheel and synchronous drive to be used in more compact area. The two separate components had clearance problems.

**Solution:** *Martin* designed a one piece casting which allowed machining of a duplex drive to fit in tight area. Equipment is more compact, one final part rather than two saves costs, and installation time is reduced.





## Custom Capabilities Sintered Metal

### Sintered Metal

Commonly associated with large quantity runs of fairly simple products, the sintered metal process also effectively addresses small quantities for many complex and multi-level parts where intricate machining or milling was required. Smooth surface finishes, self-lubrication, and tolerance repeatability are just a few of the attributes resulting from this technology. Using a wide range of alloys, *Martin* produces custom sintered parts for many industries and applications.

**Application:** Timing plate on an agricultural implement.

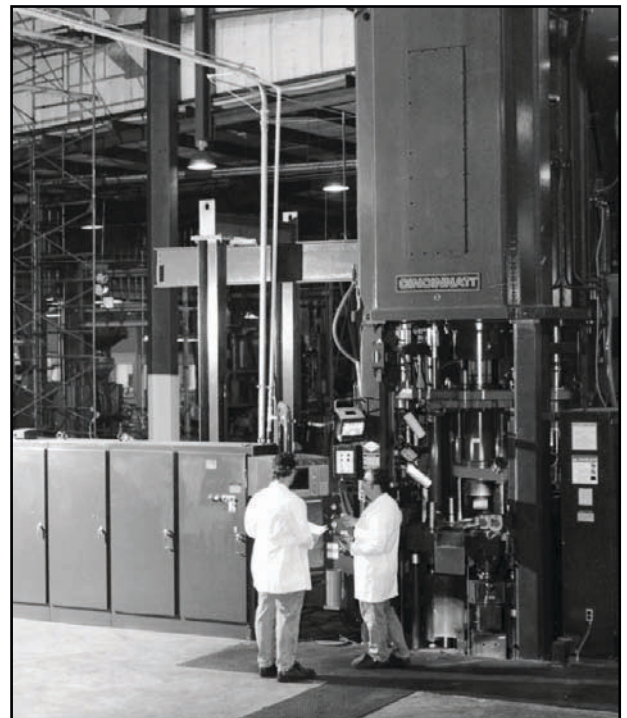
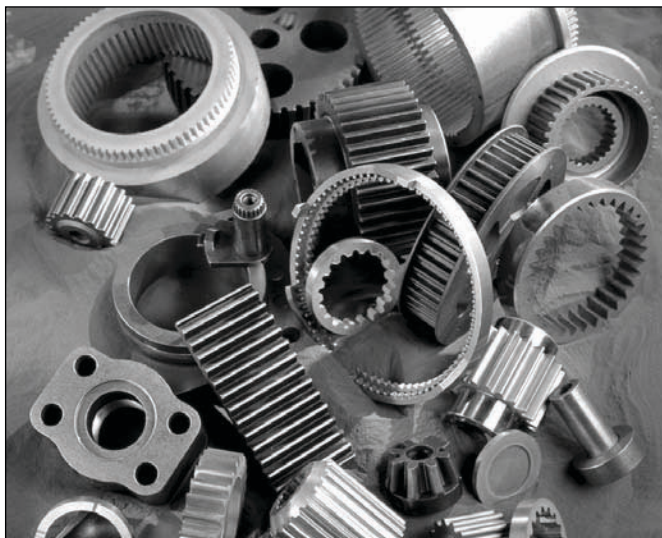
**Problem:** Production of parts required several steps. Purchase of disc blanks . . . Initial rough machining . . . Drilling holes . . . Milling slots and teeth . . . Application of rust inhibitor . . . Use of several outside sources.

All these factors led to inconsistent tolerances, difficulty in coordination of lead times, scrapped parts and production interruptions.

**Solution:** *Martin* reviewed sample parts and prints. *Martin* met with OEM engineering and service personnel to better understand the application. The *Martin* sintered component reduced the total cost of each part by an average of 54%, slashed acquisition costs and allowed for deliveries using staged release dates.



*Sintered metal is an excellent choice for a wide variety of products especially those with irregular shapes that would be difficult to manufacture using conventional methods.*

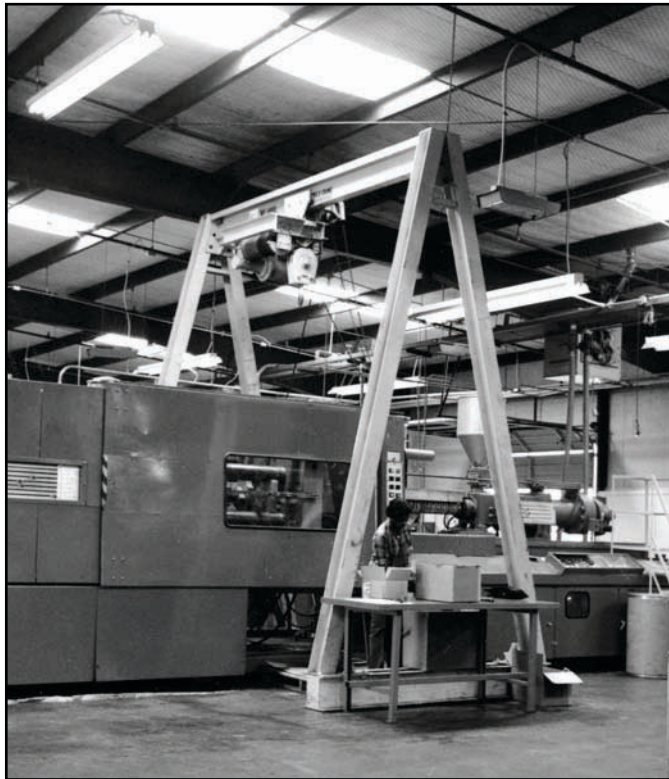


*Presses delivering more than 880 tons of pressure form parts from bronze, iron, copper, manganese, etc.*

VISIT OUR WEBSITE AT [WWW.CLARKTR.COM](http://WWW.CLARKTR.COM)

## Custom Capabilities Injection Molding

*Martin*



One of the many injection molding machines used to manufacture a variety of products.



*Martin* manufactures plastic products for both power transmission and non-power transmission applications.

### Injection Molding

Since the inception of our line of injection molded plastic components, *Martin* has emerged as a leading supplier of cost effective non-metallic products.

A combination of polymers are used to achieve desired wear, corrosion resistance, and color characteristics. Injection molded plastic is also advantageous in non-sparking and sanitary applications.

While the final form of most components is achieved directly from the press, *Martin* is able to perform secondary machining on molded parts if necessary.

**Application:** Packaging equipment.

**Problem:** A sticky product required cleaning with a caustic solution which led to corrosion based fatigue of a threaded collar. In addition, high maintenance costs in the field were encountered due to difficulty of replacing the seized collar.

**Solution:** A *Martin* manufactured part made of glass filled nylon was produced. The *Martin* part withstood constant exposure to the caustic solution and prevented the seizing of threads which provided a longer part life. Unit price was reduced by approximately 34%, warranty claims dropped significantly and the user logo stamped on the part aided in capturing replacement part sales.

