

# MANUAL CLAMPING ACCESSORIES

## Manual Clamping Accessory Overview



Flat-Tip Bonded  
Neoprene Spindle – Inch



Large Diameter Padded  
Swivel Foot Spindle – Inch



Neoprene Caps



Special Neoprene  
Caps



Metric Flat-Tip Bonded  
Neoprene Spindle – Metric



Swivel Foot  
Spindle



Polyurethane Caps



Cone-Tip  
Polyurethane Caps



Round Bonded  
Neoprene Spindle – Metric



Hex Head  
Spindle



Bolt Retainers



Flanged Washers



Cone-Tip Bonded  
Neoprene Spindle – Metric



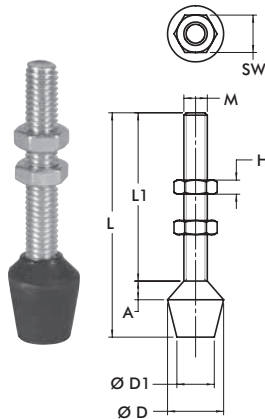
Plunger-matic  
Assemblies



Adapters and  
Extensions

### Flat-Tip Bonded Neoprene Spindle – Inch

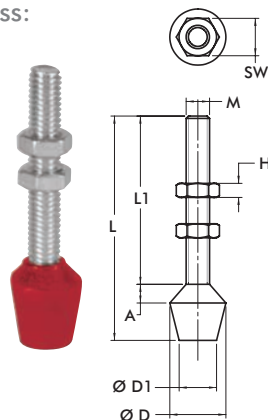
- Black neoprene, hardness: 70-80 Shore A
- Temperature Range: -20°C to 100°C [-22°F to 212°F]
- Oil resistant, LABS (silicone) free
- Includes jam nuts
- Stainless steel versions available upon request



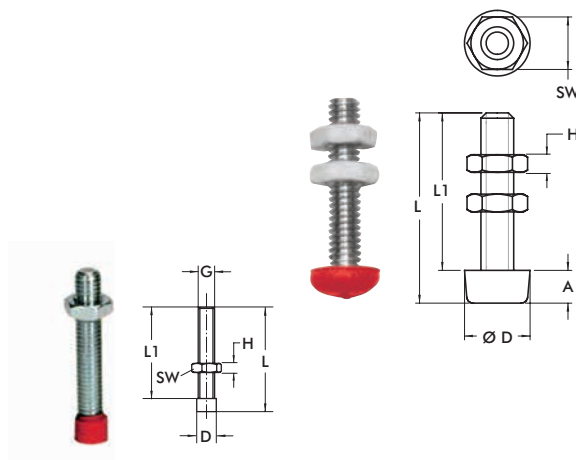
| Part No. | M       | L               | L1              | SW             | H             | A             | ØD             | ØD1            |
|----------|---------|-----------------|-----------------|----------------|---------------|---------------|----------------|----------------|
| 102208   | #8-32   | [1.25]<br>31,8  | [0.94]<br>23,8  | [0.34]<br>8,7  | [0.13]<br>3,2 | [0.06]<br>1,6 | [0.56]<br>14,3 | [0.44]<br>11,1 |
| 105208   |         | [1.00]<br>25,4  | [0.69]<br>17,4  |                |               |               |                |                |
| 201208   | #10-32  | [1.38]<br>35,1  | [1.01]<br>25,5  | [0.38]<br>9,5  | [0.16]<br>4   | [0.13]<br>3,2 | [0.63]<br>16   | [0.47]<br>12   |
| 202208   |         | [1.63]<br>41,4  | [1.08]<br>27,4  |                |               |               |                |                |
| 215208   | 1/4-20  | 2.13<br>54,1    | [1.58]<br>40,1  | [0.44]<br>11,1 | [0.16]<br>4   | [0.13]<br>3,3 | [0.66]<br>16,8 | [0.50]<br>12,7 |
| 424208   |         | [1.50]<br>38,1  | [1.12]<br>28,5  |                |               |               |                |                |
| 431208   |         | [1.00]<br>25,4  | [0.62]<br>15,8  |                |               |               |                |                |
| 225208   | 5/16-18 | [2.25]<br>57,2  | [1.54]<br>39,1  | [0.50]<br>12,7 | [0.19]<br>4,8 | [0.20]<br>5   | [0.83]<br>21   | [0.55]<br>14   |
| 507208   |         | [3.00]<br>76,2  | [2.29]<br>58,2  |                |               |               |                |                |
| 240208   | 3/8-16  | [3.25]<br>82,6  | [2.31]<br>58,5  | [0.56]<br>14,3 | [0.22]<br>5,6 | [0.20]<br>5   | [1.02]<br>26   | [0.79]<br>20   |
| 527208   |         | [3.50]<br>88,9  | [2.50]<br>63,5  |                |               |               |                |                |
| 235208   |         | [5.75]<br>146,1 | [4.77]<br>121,1 |                |               |               |                |                |
| 247208   | 1/2-13  | [3.87]<br>98,3  | [2.73]<br>69,3  | [0.75]<br>19,1 | [0.31]<br>7,9 | [0.28]<br>7   | [1.18]<br>30   | [0.95]<br>24   |
| 267208   | 5/8-11  | [5.00]<br>127   | [3.63]<br>92,1  | [0.94]<br>23,8 | [0.38]<br>9,5 | [0.38]<br>9,5 | [1.38]<br>35,1 | [1.00]<br>25,4 |

### Flat-Tip Bonded Neoprene Spindle – Metric

- Red neoprene, hardness: 80-85 Shore A
- Temperature Range: -20°C to 100°C [-22°F to 212°F]
- Oil resistant, LABS (silicone) free
- Includes jam nuts



| Part No.  | M   | L              | L1             | SW           | H             | A             | ØD             | ØD1            |
|-----------|-----|----------------|----------------|--------------|---------------|---------------|----------------|----------------|
| 431208-M  | M6  | [1.00]<br>25,4 | [0.6]<br>15,8  | [0.39]<br>10 | [0.13]<br>3,2 | [0.13]<br>3,3 | [0.66]<br>16,8 | [0.66]<br>16,8 |
| 424208-M  |     | [1.63]<br>41,3 | [1.25]<br>31,7 |              |               |               |                |                |
| 202208-M  |     | [1.73]<br>44   | [1.18]<br>30   |              |               |               |                |                |
| 215208-M  |     | [2.13]<br>54   | [1.57]<br>40   |              |               |               |                |                |
| 225208-M  | M8  | [2.09]<br>53   | [1.38]<br>35   | [0.51]<br>13 | [0.16]<br>4   | [0.20]<br>5   | [0.83]<br>21   | [0.55]<br>14   |
| 2007208-M |     | [2.48]<br>63   | [1.77]<br>45   |              |               |               |                |                |
| 507208-M  |     | [3.27]<br>83   | [2.56]<br>65   |              |               |               |                |                |
| 240208-M  | M10 | [3.11]<br>79   | [2.17]<br>55   | [0.67]<br>17 | [0.20]<br>5   | [0.28]<br>7   | [1.02]<br>26   | [0.78]<br>20   |
| 235208-M  |     | [4.72]<br>120  | [3.74]<br>95   |              |               |               |                |                |
| 247208-M  | M12 | [4.02]<br>102  | [2.87]<br>73   | [0.75]<br>19 | [0.24]<br>6   | [0.28]<br>7   | [1.18]<br>30   | [0.94]<br>24   |



| Part No.  | M      | L              | L1             | SW             | H             | A             | ØD             |
|-----------|--------|----------------|----------------|----------------|---------------|---------------|----------------|
| 205208-M  | M4     | [0.87]<br>22   | [0.79]<br>20   | [0.28]<br>7    | [0.09]<br>2,2 | [0.11]<br>2,8 | [0.32]<br>8    |
| 201208-M  |        | [1.26]<br>32   | [1.18]<br>30   |                |               |               |                |
| 305208-M  | M5     | [1.14]<br>29   | [0.98]<br>25   | [0.32]<br>8    | [0.11]<br>2,7 | [0.20]<br>5   | [0.39]<br>10   |
| 213208-M  |        | [1.34]<br>34   | [1.18]<br>30   |                |               |               |                |
| 2013208-M |        | [1.54]<br>39   | [1.38]<br>35   |                |               |               |                |
| 307208-M  | M8     | [1.69]<br>43   | [1.38]<br>35   | [0.51]<br>13   | [0.16]<br>4   | [0.35]<br>9   | [0.75]<br>19   |
| 309208    | 3/8-16 | [2.74]<br>69,6 | [2.19]<br>55,6 | [0.56]<br>14,3 | [0.22]<br>5,6 | [0.55]<br>14  | [0.86]<br>21,8 |

| Part No.    | D           | L            | L1           | ØG |
|-------------|-------------|--------------|--------------|----|
| 213208-M-L① | [0.24]<br>6 | [1.34]<br>34 | [1.18]<br>30 | M5 |

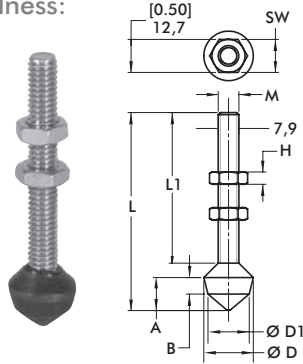
① Item is available upon request.

# SPINDLES

## Manual Clamping Accessories | Technical Information | Dimensions

### Cone-Tip Bonded Neoprene Spindle – Inch

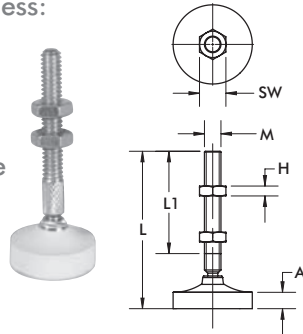
- Black neoprene, hardness: 70-80 Shore A
- Temperature Range: -20°C to 100°C [-22°F to 212°F]
- Oil resistant, LABS (silicone) free
- Includes jam nuts



| Part No. | M       | L               | L1              | SW             | H             | A              | B              | ØD             | ØD1            |
|----------|---------|-----------------|-----------------|----------------|---------------|----------------|----------------|----------------|----------------|
| 305208   | #10-32  | [1.50]<br>38,1  | [1.00]<br>25,4  | [0.38]<br>9,5  | [0.13]<br>3,3 | [0.38]<br>9,5  | [0.19]<br>4,8  | [0.56]<br>14,2 | [0.44]<br>11,2 |
| 213208   | 1/4-20  | [2.25]<br>57,2  | [1.56]<br>39,6  | [0.44]<br>11,2 | [0.16]<br>4,0 |                |                |                |                |
| 509208   | 5/16-18 | [3.00]<br>76,2  | [2.28]<br>57,9  | [0.50]<br>12,7 | [0.19]<br>4,8 | [0.50]<br>12,7 | [0.25]<br>6,4  | [0.75]<br>19,1 | [0.63]<br>16   |
| 519208   |         | [5.50]<br>139,7 | [4.75]<br>120,7 |                |               |                |                |                |                |
| 210208   | 3/8-16  | [3.50]<br>88,9  | [2.50]<br>63,5  | [0.56]<br>14,2 | [0.23]<br>5,8 | [0.75]<br>19,1 | [0.41]<br>10,4 | [0.88]<br>22,4 | [0.75]<br>19,1 |

### Large Diameter Padded Swivel Foot Spindle-Inch

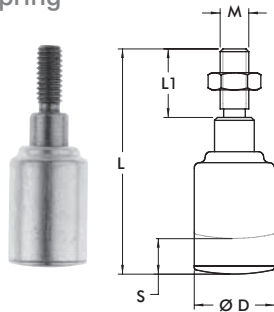
- White neoprene, hardness: 70-80 Shore A
- Temperature Range: -40°C to 105°C [-40°F to 220°F]
- Non-marking neoprene
- Includes jam nuts



| Part No. | M       | L              | L1             | SW             | H             | A           | ØD             | Swivel Angle |
|----------|---------|----------------|----------------|----------------|---------------|-------------|----------------|--------------|
| 207209   | 1/4-20  | [2.56]<br>65   | [1.56]<br>39,6 | [0.44]<br>11,2 | [0.16]<br>4   |             | [1.00]<br>25,4 | 14°          |
| 507209   | 5/16-18 | [2.98]<br>75,7 | [1.94]<br>49,3 | [0.50]<br>12,7 | [0.19]<br>4,8 | [0.31]<br>8 | [1.50]<br>38,1 | 24°          |
| 210209   | 3/8-16  | [3.56]<br>90,4 | [2.44]<br>62   | [0.56]<br>14,2 | [0.23]<br>5,8 |             | [2.00]<br>50,8 | 26°          |

### Plunger-matic Assemblies

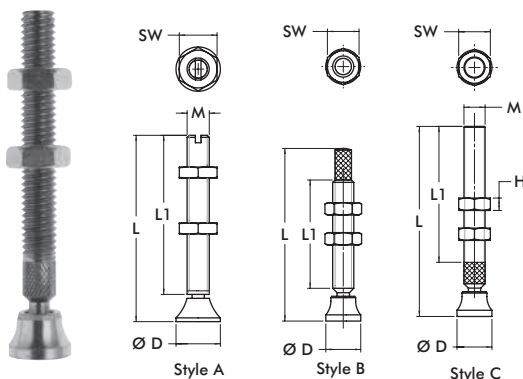
- For use with Straight Line Action clamps
- Internal compression spring compensates for variations in material thickness
- Zinc plated
- Includes jam nut



| Part No. | M       | L              | L1             | ØD             | Max. Compression S | Spring Constant [lb./in] N/mm | Max. Force [lb.] N |
|----------|---------|----------------|----------------|----------------|--------------------|-------------------------------|--------------------|
| 905      | 5/16-18 | [2.50]<br>63,5 | [0.75]<br>19,1 | [0.88]<br>22,2 | [0.19]<br>4,8      | [750]<br>131                  | [190]<br>845       |
| 905-M    | M8      |                |                |                |                    |                               |                    |
| 920      | 3/8-16  | [3.63]<br>92,2 | [1.13]<br>28,6 |                | [0.38]<br>[9,6]    | [822]<br>144                  | [308]<br>1370      |
| 920-M    | M10     |                |                |                |                    |                               |                    |

### Swivel Foot Spindle

- Includes jam nuts



| Part No. | M       | Style | L               | L1             | SW             | H             | ØD             | Swivel Angle |
|----------|---------|-------|-----------------|----------------|----------------|---------------|----------------|--------------|
| 207206-M | M6      | A     | [2.44]<br>62    | [2.13]<br>54   | [0.39]<br>10   | [0.13]<br>3,2 | [0.47]<br>12   | 30°          |
| 507206-M | M8      |       | [2.87]<br>73    | [2.46]<br>62,5 | [0.51]<br>13   | [0.16]<br>4   | [0.63]<br>16   |              |
| 468206-M | M10     | B     | [3.06]<br>77,8  | [2.00]<br>50,8 | [0.67]<br>17   | [0.20]<br>5   | [0.79]<br>20   | 24°          |
| 210206-M |         | A     | [3.31]<br>84    | [2.80]<br>71   |                |               |                |              |
| 250206-M | M12     | A     | [4.72]<br>120   | [4.13]<br>105  | [0.75]<br>19   | [0.24]<br>6   | [0.98]<br>25   | 30°          |
| 207206   | 1/4-20  | C     | [2.38]<br>60,5  | [1.56]<br>39,6 | [0.44]<br>11,2 | [0.16]<br>4   | [0.50]<br>12,7 | 14°          |
| 507206   | 5/16-18 |       | [2.75]<br>69,9  | [1.94]<br>49,3 | [0.50]<br>12,7 | [0.19]<br>4,8 | [0.56]<br>14,2 |              |
| 468206   | 3/8-16  | B     | [3.06]<br>77,7  | [1.92]<br>48,8 | [0.56]<br>14,2 | [0.23]<br>5,8 | [0.63]<br>16   | 26°          |
| 210206   |         | C     | [3.38]<br>85,9  | [2.41]<br>61,2 |                |               |                |              |
| 250206   | 1/2-13  | C     | [4.63]<br>117,6 | [3.44]<br>87,4 | [0.75]<br>19,1 | [0.31]<br>7,9 | [1.00]<br>25,4 | 24°          |

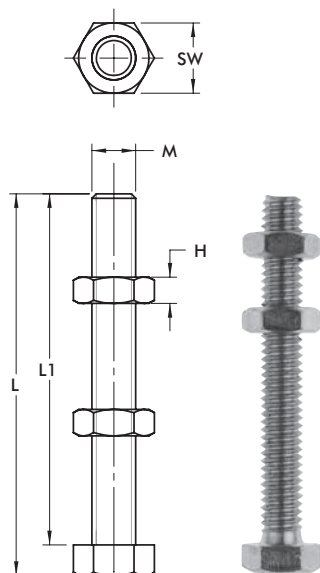
### Hex Head Spindle – Stainless Steel

- Includes Plain hexagonal head
- Includes Fully threaded
- Includes Stainless steel, type 303
- Includes jam nuts

| Part No. | M   | L              | L1           | SW             | H             | Part No. | M       | L              | L1             | SW             | H             |
|----------|-----|----------------|--------------|----------------|---------------|----------|---------|----------------|----------------|----------------|---------------|
| 205943-M | M4  | [0.89]<br>22   | [0.79]<br>20 | [0.28]<br>7    | [0.09]<br>2,2 | 205943   | #8-32   | [0.86]<br>21,8 | [0.75]<br>19,1 | [0.25]<br>6,4  | [0.13]<br>3,2 |
| 201943-M | M5  | [1.32]<br>33,5 | [1.18]<br>30 | [0.31]<br>8    | [0.11]<br>2,7 | 201943   | #10-32  | [1.37]<br>34,8 | [1.37]<br>34,8 | [0.31]<br>8    |               |
| 202916-M | M6  | [1.75]<br>44,4 | [1.57]<br>40 | [0.51]<br>12,8 | [0.13]<br>3,2 | 202943   | 1/4-20  | [1.67]<br>42,4 | [1.50]<br>38,1 | [0.44]<br>11,1 | [0.16]<br>4   |
| 202943-M | M6  | [1.73]<br>42,4 | [1.57]<br>40 | [0.39]<br>10   | [0.13]<br>3,2 | 207943   | 5/16-18 | [2.72]<br>69   | [2.50]<br>63,5 | [0.50]<br>12,7 | [0.19]<br>4,8 |
| 207943-M | M8  | [2.77]<br>70,3 | [2.56]<br>65 | [0.51]<br>13   | [0.16]<br>4   | 237943   | 3/8-16  | [2.75]<br>69,9 |                | [0.56]<br>14,2 | [0.22]<br>5,6 |
| 237943-M | M10 | [2.76]<br>70   | [2.56]<br>65 | [0.51]<br>13   | [0.16]<br>4   | 442943   | 5/16-18 | [1.97]<br>50,1 | [1.75]<br>44,5 | [0.50]<br>12,7 | [0.19]<br>4,8 |
| 325943-M | M12 | [2.87]<br>73   | [2.56]<br>65 | [0.75]<br>19   | [0.24]<br>6   |          |         |                |                |                |               |

### Hex Head Spindle

- Plain hexagonal head
- Fully threaded
- Zinc plated
- Includes jam nuts



| Part No. | M   | L              | L1            | SW           | H             | Part No. | M       | L               | L1              | SW             | H             |
|----------|-----|----------------|---------------|--------------|---------------|----------|---------|-----------------|-----------------|----------------|---------------|
| 305908-M | M5  | [1.32]<br>33,5 | [1.18]<br>30  | [0.31]<br>8  | [0.11]<br>2,7 | 105203*  | #8-32   | [0.86]<br>21,8  | [0.75]<br>19,1  | [0.25]<br>6,4  | [0.13]<br>3,3 |
| 205203-M | M6  | [1.93]<br>49   | [1.77]<br>45  | [0.39]<br>10 | [0.13]<br>3,2 | 305203   | #10-32  | [1.12]<br>28,4  | [1.00]<br>25,4  | [0.31]<br>8    |               |
| 461203-M |     | [1.20]<br>30,5 | [0.98]<br>25  |              |               | 205203   | 1/4-20  | [1.92]<br>48,8  | [1.75]<br>44,5  |                | [0.16]<br>4   |
| 441203-M | M8  | [1.99]<br>50,5 | [1.77]<br>45  | [0.51]<br>13 | [0.16]<br>4   | 202203   |         | [3.17]<br>80,5  | [3.00]<br>76,2  | [0.44]<br>11,2 |               |
| 207203-M |     | [2.97]<br>75,5 | [2.76]<br>70  |              |               | 461203   |         | [1.22]<br>31    | [1.00]<br>25,4  |                |               |
| 491203-M |     | [1.85]<br>47   | [1.57]<br>40  |              |               | 441203   | 5/16-18 | [1.97]<br>50    | [1.75]<br>44,5  | [0.50]<br>12,7 | [0.19]<br>4,8 |
| 210203-M | M10 | [3.03]<br>77   | [2.76]<br>70  | [0.67]<br>17 | [0.20]<br>5   | 207203   |         | [2.72]<br>69,1  | [2.50]<br>63,5  |                |               |
| 240203-M |     | [4.21]<br>107  | [3.94]<br>100 |              |               | 491203   |         | [1.75]<br>44,5  | [1.50]<br>38,1  |                |               |
| 220203-M | M12 | [3.46]<br>88   | [3.15]<br>80  | [0.75]<br>19 | [0.24]<br>6   | 210203   | 3/8-16  | [3.00]<br>76,2  | [2.75]<br>69,9  | [0.56]<br>14,2 | [0.23]<br>5,8 |
| 325203-M |     | [2.85]<br>72,5 | [2.56]<br>65  |              |               | 240203   |         | [4.25]<br>108   | [4.00]<br>101,6 |                |               |
| 250203-M | M16 | [4.33]<br>110  | [3.94]<br>100 | [0.94]<br>24 | [0.28]<br>7   | 527203   |         | [5.25]<br>133,4 | [5.00]<br>127   |                |               |
| 267203-M | M16 | [5.12]<br>130  | [4.72]<br>120 |              |               | 325203   |         | [2.84]<br>72,1  | [2.50]<br>63,5  |                |               |
|          |     |                |               |              |               | 220203   | 1/2-13  | [3.34]<br>84,8  | [3.00]<br>76,2  | [0.75]<br>19,1 | [0.31]<br>7,9 |
|          |     |                |               |              |               | 229203   |         | [3.84]<br>97,5  | [3.50]<br>88,9  |                |               |
|          |     |                |               |              |               | 250203   | 5/8-11  | [4.42]<br>101,6 | [4.00]<br>9,5   | [0.38]<br>9,5  |               |

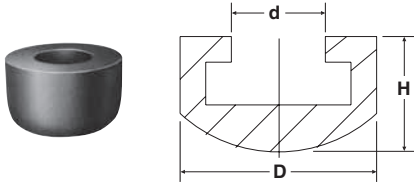
\*Material: nylon

# SPINDLE CAPS

Manual Clamping Accessories | Technical Information | Dimensions

## Neoprene Caps

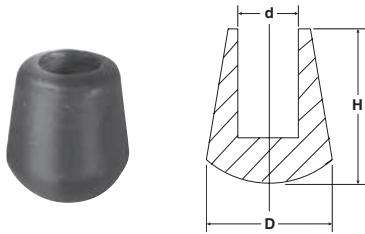
- Slip on head of hex-head spindles
- Hardness: 60-70 Shore A
- Temperature range:  
-40°C to 105°C [-40°F to 220°F]



| Part No. | D              | d              | H              | For Spindle Diameter |
|----------|----------------|----------------|----------------|----------------------|
| 215119   | [0.63]<br>16   | [0.25]<br>6,35 | [0.44]<br>11,1 | M6 or 1/4            |
| 225119   | [0.75]<br>19,1 | [0.31]<br>8    | [0.50]<br>12,7 | M8 or 5/16           |
| 235119   | [0.88]<br>22,3 | [0.38]<br>9,7  | [0.53]<br>13,5 | 3/8                  |

## Special Neoprene Caps

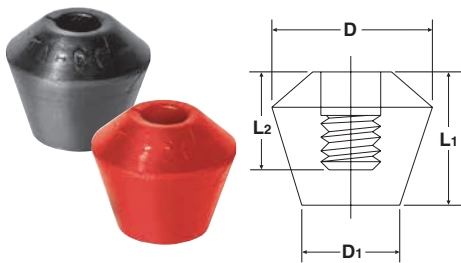
- Slip on threaded spindle rod
- Hardness: 60-70 Shore A
- Temperature range:  
-40°C to 105°C [-40°F to 220°F]



| Part No. | D              | d             | H              | For Spindle Diameter |
|----------|----------------|---------------|----------------|----------------------|
| 424107   | [0.44]<br>11,1 | [0.22]<br>5,6 | [0.44]<br>11,1 | M6 or 1/4            |
| 235110   | [0.72]<br>18,3 | [0.34]<br>8,6 | [0.88]<br>22,3 | M10 or 3/8           |

## Polyurethane Caps

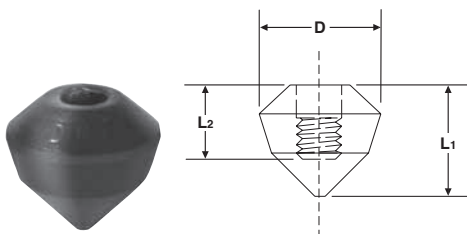
- Flat tip, internally threaded
- Hardness: 80 Shore A
- Temperature range:  
-70°C to 95°C [-90°F to 200°F]



| Part No. | D              | D1             | L1             | L2             | For Spindle Diameter | Color |
|----------|----------------|----------------|----------------|----------------|----------------------|-------|
| 215219   |                |                |                |                | 1/4-20               | Black |
| 215219-M | [0.79]<br>20   | [0.50]<br>12,7 | [0.69]<br>17,5 | [0.50]<br>12,7 | M6 x 1.0             | Red   |
| 225219   |                |                |                |                | 5/16-18              | Black |
| 225219-M |                |                |                |                | M8 x 1.25            | Red   |
| 235219   | [0.81]<br>20,5 | [0.63]<br>16   | [0.88]<br>22,3 | [0.63]<br>16   | 3/8-16               | Black |
| 235219-M |                |                |                |                | M10 x 1.5            | Red   |

## Polyurethane Caps – Cone-tip

- Cone tip, internally threaded
- Hardness: 80 Shore A
- Temperature range:  
-70°C to 95°C [-90°F to 200°F]



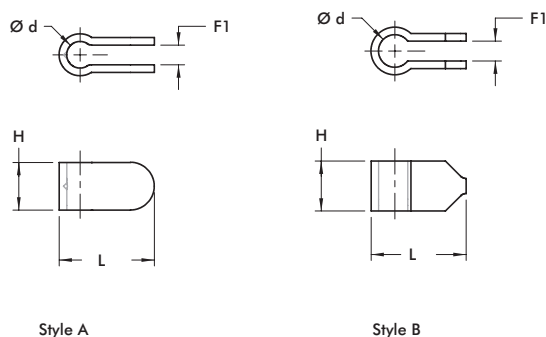
| Part No. | D              | L1             | L2             | For Spindle Diameter |
|----------|----------------|----------------|----------------|----------------------|
| 215319   |                | [0.75]<br>19,1 | [0.50]<br>12,7 | 1/4                  |
| 225319   | [0.81]<br>20,5 |                |                | 5/16                 |
| 235319   |                | [0.94]<br>23,9 | [0.63]<br>16   | 3/8                  |

# BOLT RETAINERS, WASHERS

Manual Clamping Accessories | Technical Information | Dimensions

## Bolt Retainers –

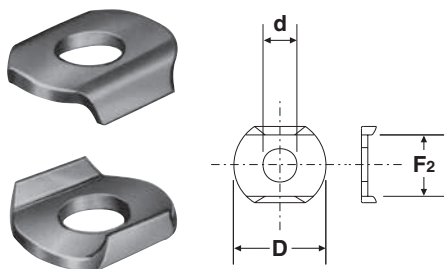
- For use with clamps featuring U-bar and open bar clamping arms



| Part No.  | L              | H              | Ød             | F1            | For Spindle Diameter | Style      |   |
|-----------|----------------|----------------|----------------|---------------|----------------------|------------|---|
| 207105    | [1.23]<br>31,3 | [0.63]<br>16   | [0.34]<br>8,7  | [0.28]<br>7,1 | M8 or 5/16           | A          |   |
| 207107    | [1.41]<br>35,4 |                | [0.32]<br>8,2  | [0.24]<br>6   |                      | B          |   |
| 207105-M  | [1.26]<br>32   |                |                |               |                      |            |   |
| 210114    | [1.50]<br>38,1 | [0.75]<br>19,1 | [0.53]<br>13,5 | [0.31]<br>8   | M10 or 3/8           | A          |   |
| 210114-M  | [1.49]<br>38   | [0.78]<br>20   | [0.51]<br>13   |               |                      | B          |   |
| 110122    | [1.88]<br>47,8 | [1.00]<br>25,4 | [0.57]<br>14,4 | [0.38]<br>9,5 | M12 or 1/2           | A          |   |
| 247110    | [1.63]<br>41,4 | [0.88]<br>22,3 | [0.56]<br>14,2 | [0.38]<br>9,7 |                      | B          |   |
| 247110-M  | [1.61]<br>41   | [0.87]<br>22,2 | [0.57]<br>14,4 |               |                      | A          |   |
| 250121    | [1.88]<br>47,8 | [1.00]<br>25,4 | [0.64]<br>16,3 |               |                      |            |   |
| 205105    | [1.25]<br>31,8 | [0.50]<br>12,7 | [0.28]<br>7,2  | [0.20]<br>5,1 | M6 or 1/4            | A          |   |
| 2002115-E | [0.97]<br>24,6 |                | [0.26]<br>6,6  | [0.23]<br>5,8 |                      |            |   |
| 2007115-E | [1.26]<br>32   | [0.75]<br>19,1 | [0.34]<br>8,6  |               |                      | M8 or 5/16 | B |
| 2010115-E | [1.58]<br>40,1 | [1.13]<br>28,7 | [0.41]<br>10,4 | [0.32]<br>8,1 | M10 or 3/8           |            |   |

## Flanged Washers –

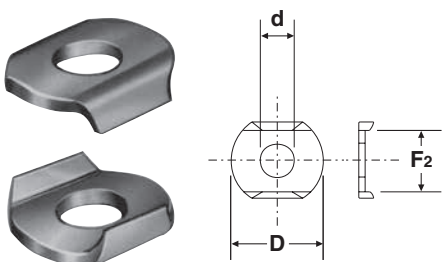
- For use with clamps featuring U-bar and open bar clamping arms
- Zinc plated



| Part No. | ØD             | Ød             | F2             | For Spindle Diameter |
|----------|----------------|----------------|----------------|----------------------|
| 105106   | [0.44]<br>11,2 | [0.17]<br>4,3  | [0.33]<br>8,3  | M4 or #8             |
| 102111   | [0.56]<br>14,2 | [0.20]<br>5,1  | [0.38]<br>9,6  | M5 or #10            |
| 215105   | [0.69]<br>17,5 | [0.26]<br>6,7  | [0.50]<br>12,7 | M6 or 1/4            |
| 507107   | [0.88]<br>22,4 | [0.33]<br>8,4  | [0.59]<br>15   | M8 or 5/16           |
| 235106   | [1.00]<br>25,4 | [0.41]<br>10,5 | [0.75]<br>19,1 | M10 or 3/8           |
| 247109   | [1.26]<br>32   | [0.53]<br>13,5 | [0.91]<br>23,2 | M12 or 1/2           |
| 267102   | [1.44]<br>36,5 | [0.66]<br>16,8 | [1.03]<br>26,2 | M16 or 5/8           |

## Flanged Washers-Stainless Steel

- For use with clamps featuring U-bar and open bar clamping arms



| Part No. | ØD             | Ød             | F2             | For Spindle Diameter |
|----------|----------------|----------------|----------------|----------------------|
| 105906   | [0.44]<br>11,2 | [0.17]<br>4,3  | [0.33]<br>8,3  | M4 or #8             |
| 102911   | [0.56]<br>14,2 | [0.20]<br>5,1  | [0.38]<br>9,6  | M5 or #10            |
| 215905   | [0.69]<br>17,5 | [0.26]<br>6,7  | [0.50]<br>12,7 | M6 or 1/4            |
| 507907   | [0.88]<br>22,4 | [0.33]<br>8,4  | [0.60]<br>15,2 | M8 or 5/16           |
| 235906   | [1.00]<br>25,4 | [0.41]<br>10,5 | [0.75]<br>19,1 | M10 or 3/8           |

# ADAPTERS & EXTENSIONS

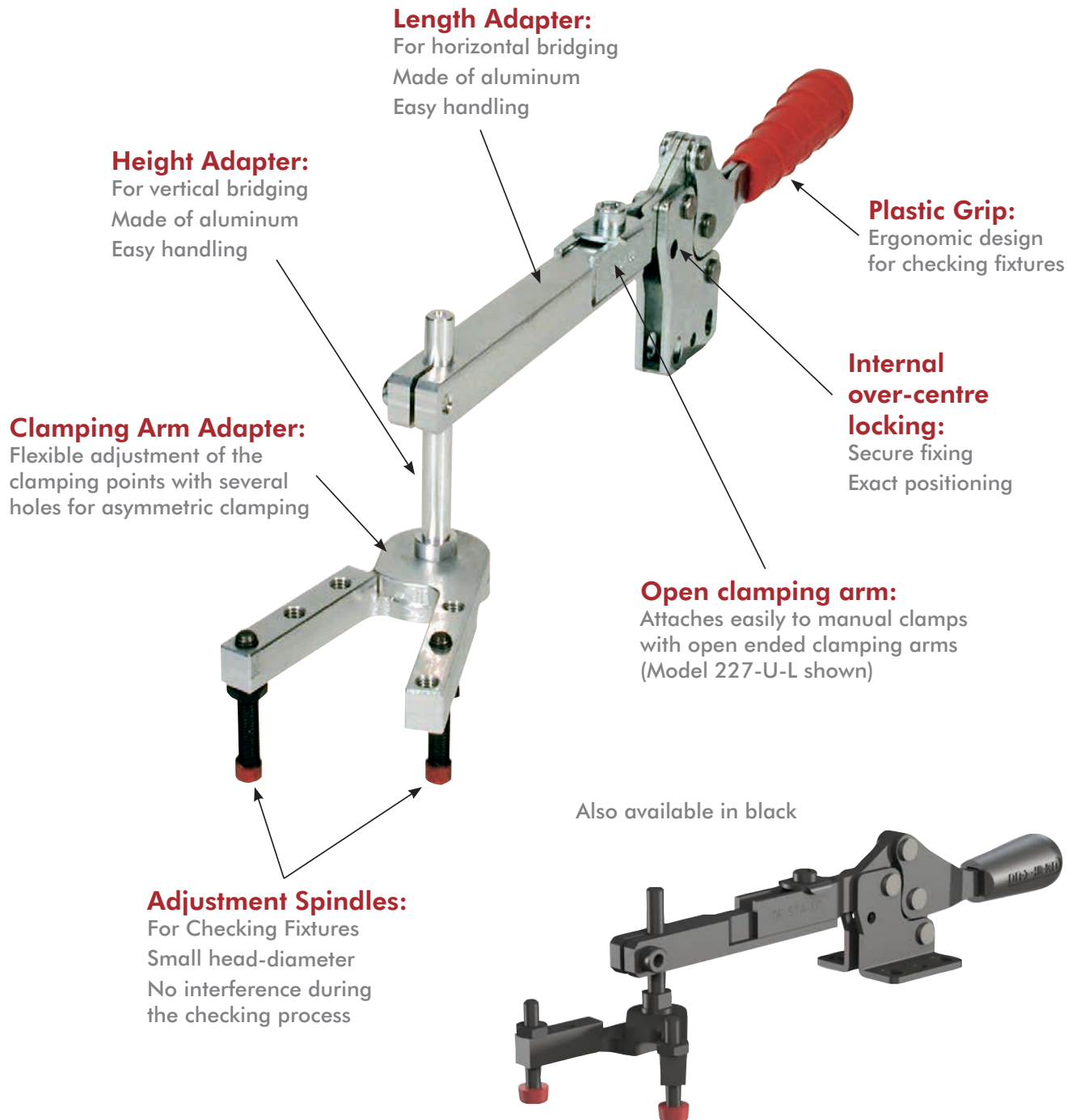
## Manual Clamping Accessories | Product Overview

### Features:

- Provides flexible adjustment of length and height
- Mounts to manual clamp models that feature open clamping arms
- Lightweight aluminum

### Application Areas:

- Checking fixtures
- Areas requiring multiple clamping points

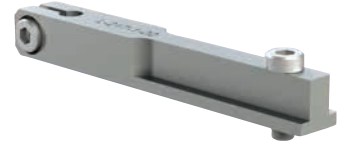
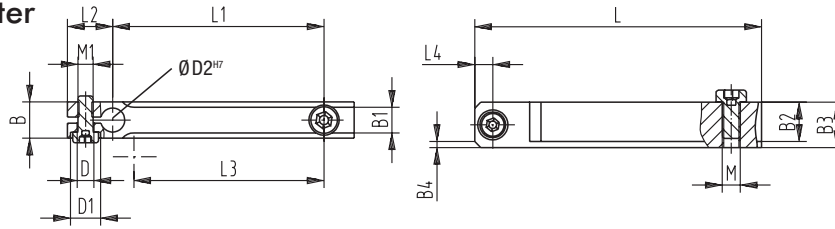




# ADAPTERS & EXTENSIONS

## Manual Clamping Accessories | Dimensions

### Length Adapter

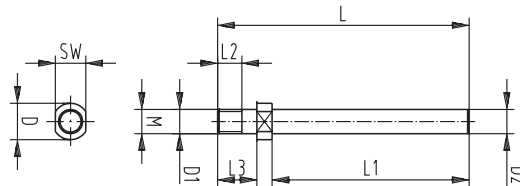


| Model no.             | Length adapter | B            | B1<br>+0, -1  | B2           | B3           | B4     | D Ø           | D1 Ø         | D2 <sup>H7</sup> | L             | L1<br>±0,2    | L2           | L3           | L4          | M  | M1 |
|-----------------------|----------------|--------------|---------------|--------------|--------------|--------|---------------|--------------|------------------|---------------|---------------|--------------|--------------|-------------|----|----|
| 213-U-L / 213-UB-L    | L-213-1-01 ①   | [0.39]       | [0.22]        | [0.31]       | [0.39]       | 2x 45° | [0.22]        | --           |                  | [1.97]<br>50  | [1.18]<br>30  | [0.47]       | [0.79]       | [0.20]      | M4 | M5 |
| 2013-U / 2013-UB      | L-213-1-02 ①   | 10           | 5,5           | 8            | 10           |        | 5,5           |              |                  | [3.54]<br>90  | [2.76]<br>70  | 12           | 20           | 5           |    |    |
| 2013-UR / 2013-UBR    |                |              |               |              |              |        |               |              |                  |               |               |              |              |             |    |    |
| 202-U-L / 202-UB-L    | L-217-1-01 ①   |              |               |              |              |        |               |              | [0.24]<br>6      | [2.17]<br>55  | [1.18]<br>30  |              | [1.30]<br>33 |             |    |    |
| 217-U-L / 217-UB-L    |                |              |               |              |              |        |               |              |                  |               |               |              |              |             |    |    |
| 2002-U-L / 2002-UB-L  | L-217-1-02 ①   |              | [0.26]<br>6,5 | [0.35]<br>9  | [0.47]<br>12 | 2x 45° | [0.22]<br>5,5 |              |                  | [3.74]<br>95  | [2.76]<br>70  |              |              |             | M5 | M5 |
| 2017-U / 2017-UB      | L-217-1-03 ①   |              |               |              |              |        |               |              |                  | [5.31]<br>135 | [4.33]<br>110 |              | [1.89]<br>48 |             |    |    |
| 2017-UR / 2017-UBR    |                |              |               |              |              |        |               |              |                  |               |               |              |              |             |    |    |
| 207-U-L / 207-UB-L    | L-227-1-01 ①   | [0.47]<br>12 |               |              |              |        |               | [0.39]<br>10 |                  | [2.17]<br>55  | [1.18]<br>30  | [0.59]<br>15 | [1.30]<br>33 | [0.24]<br>6 |    |    |
| 227-U-L / 227-UB-L    |                |              |               |              |              |        |               |              |                  |               |               |              |              |             |    |    |
| 2007-U-LS / 2007-U-LS | L-227-1-02 ①   |              | [0.33]<br>8,5 | [0.51]<br>13 | [0.59]<br>15 | 2x 45° | [0.22]<br>5,5 |              | [0.31]<br>8      | [3.74]<br>95  | [2.76]<br>70  |              |              |             | M6 | M5 |
| 2027-U / 2027-UB      | L-227-1-03 ①   |              |               |              |              |        |               |              |                  | [5.31]<br>135 | [4.33]<br>110 |              | [2.87]<br>73 |             |    |    |
| 2027-UR / 2027-UBR    | L-227-1-04 ①   |              |               |              |              |        |               |              |                  | [6.89]<br>175 | [5.91]<br>150 |              |              |             |    |    |

① Available upon request.

Also available in Black. Add -BLK to part number.

### Height Adapter



| Model no.              | Height adapter | D Ø          | D1 Ø<br>f7  | D2<br>f7     | L            | L1           | L2          | L3           | SW           | M  |
|------------------------|----------------|--------------|-------------|--------------|--------------|--------------|-------------|--------------|--------------|----|
| 213-U-L / 213-UB-L     | L-213-2-01 ①   |              | [0.20]<br>5 | [0.24]<br>6  | [2.05]<br>52 | [1.38]<br>35 |             |              |              | M5 |
| 2013-U / 2013-UB       | L-213-2-02 ①   |              |             |              | [3.23]<br>82 | [2.56]<br>65 |             |              |              |    |
| 2013-UR / 2013-UBR     |                |              |             |              |              |              |             |              |              |    |
| 202-U-L / 202-UB-L     |                | [0.39]<br>10 |             |              |              |              |             | [0.47]<br>12 | [0.31]<br>8  |    |
| 217-U-L / 217-UB-L     | L-217-2-01 ①   |              | [0.24]<br>6 | [0.24]<br>6  | [2.05]<br>52 | [1.38]<br>35 |             |              |              | M6 |
| 2002-U-LS / 2002-UB-LS |                |              |             |              |              |              |             |              |              |    |
| 2017-U / 2017-UB       | L-217-2-02 ①   |              |             |              | [3.23]<br>82 | [2.56]<br>65 | [0.31]<br>8 |              |              |    |
| 2017-UR / 2017-UBR     |                |              |             |              |              |              |             |              |              |    |
| 207-U-L / 207-UB-L     |                |              |             |              |              |              |             |              |              |    |
| 227-U-L / 227-UB-L     | L-227-2-01 ①   | [0.31]<br>8  | [0.31]<br>8 | [0.31]<br>88 | [2.09]<br>53 | [1.38]<br>35 |             | [0.51]<br>13 | [0.39]<br>10 | M8 |
| 2007-U-LS / 2007-U-LS  |                |              |             |              |              |              |             |              |              |    |
| 2027-U / 2027-UB       | L-227-2-02 ①   |              |             |              | [3.23]<br>82 | [2.56]<br>65 |             |              |              |    |
| 2027-UR / 2027-UBR     |                |              |             |              |              |              |             |              |              |    |

① Available upon request.

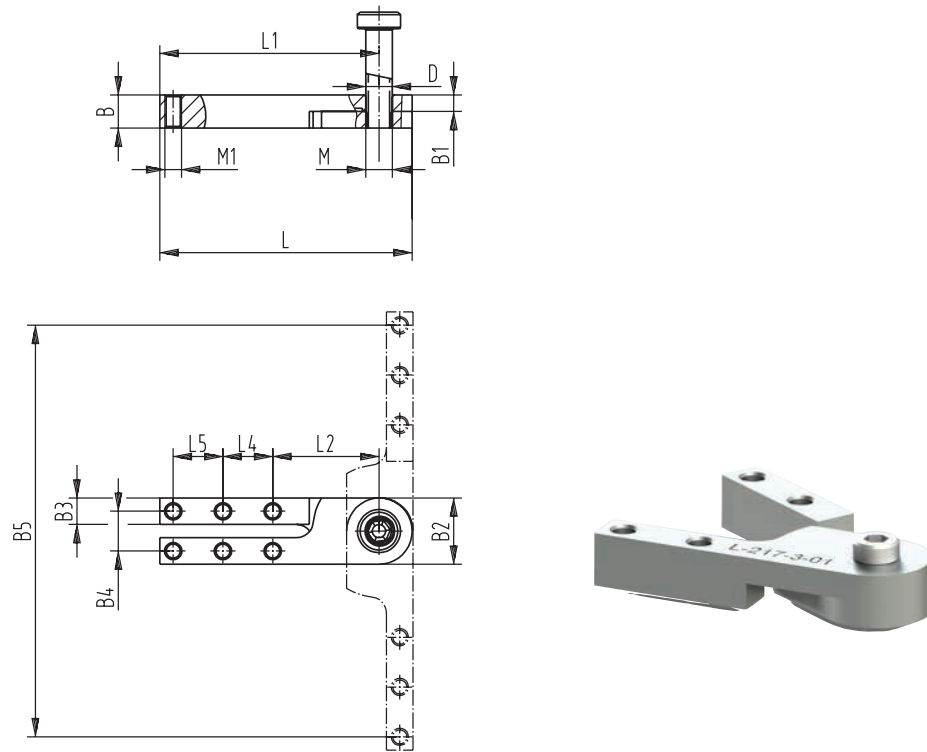
Also available in Black. Add -BLK to part number.



# ADAPTERS & EXTENSIONS

## Manual Clamping Accessories | Dimensions

### Clamping Arm Adapter



| Model no.                                                                                                    | Clamping arm adapter | B            | B1          | B2           | B3          | B4           | B5           | DØ<br>H7    | L            | L1           | L2           | L4           | L5           | L6           | M  | M1 |
|--------------------------------------------------------------------------------------------------------------|----------------------|--------------|-------------|--------------|-------------|--------------|--------------|-------------|--------------|--------------|--------------|--------------|--------------|--------------|----|----|
| 213-U-L / 213-UB-L<br>2013-U / 2013-UB<br>2013-UR / 2013-UBR                                                 | L-213-3-01 ⓘ         |              |             |              |             |              |              | [0.20]<br>5 |              |              |              |              | -            |              | M5 | M5 |
| 202-U-L / 202-UB-L<br>217-U-L / 217-UB-L<br>2002-U-LS / 2002-UB-LS<br>2017-U / 2017-UB<br>2017-UR / 2017-UBR | L-217-3-01 ⓘ         | [0.39]<br>10 | [0.20]<br>5 | [0.79]<br>20 | [0.31]<br>8 | [0.47]<br>12 | [3.70]<br>94 | [0.24]<br>6 | [2.40]<br>61 | [2.01]<br>51 | [1.26]<br>32 | [0.59]<br>15 | -            | [0.39]<br>10 | M6 | M5 |
| 207-U-L / 207-UB-L<br>227-U-L / 227-UB-L<br>2007-U-LS / 2007-UB-LS<br>2027-U / 2027-UB<br>2027-UR / 2027-UBR | L-227-3-01 ⓘ         |              |             |              |             |              | 4.88<br>124  | [0.31]<br>8 | [2.99]<br>76 | [2.60]<br>66 |              |              | [0.59]<br>15 |              | M8 | M5 |

ⓘ Available upon request.

Also available in Black. Add -BLK to part number.

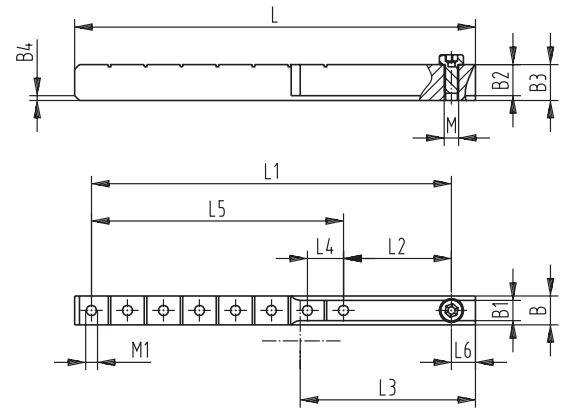
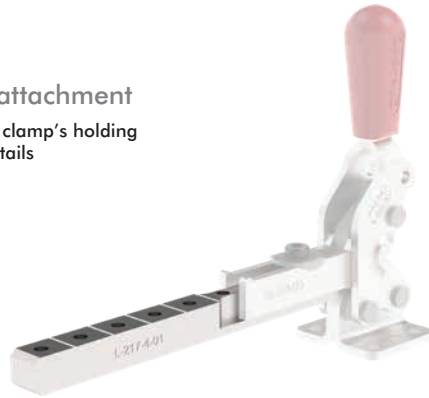
# ADAPTERS & EXTENSIONS

## Manual Clamping Accessories | Dimensions

### Arm Extension:

- Easily cut to length
- Drilled & tapped for spindle attachment

Note: adding arm extension will reduce the clamp's holding capacity. Refer to Technical Appendix for details



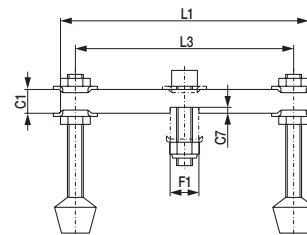
| Model no.                                                                                                    | Extension link | B            | B1<br>+0, -, 1 | B2           | B3           | B4        | L<br>±0,2     | L1            | L2           | L3           | L4           | L5            | L6           | M  | M1 |
|--------------------------------------------------------------------------------------------------------------|----------------|--------------|----------------|--------------|--------------|-----------|---------------|---------------|--------------|--------------|--------------|---------------|--------------|----|----|
| 213-U-L / 213-UB-L<br>2013-U / 2013-UB<br>2013-UR / 2013-UBR                                                 | L-213-4-01 ⓘ   | [0.39]<br>10 | [0.22]<br>5,5  | [0.31]<br>8  | [0.39]<br>10 | 2x<br>45° | [3.35]<br>85  | [2.76]<br>70  | [0.87]<br>22 | [0.79]<br>20 | [0.47]<br>12 | [1.89]<br>48  | [0.31]<br>8  | M4 | M5 |
| 202-U-L / 202-UB-L<br>217-U-L / 217-UB-L<br>2002-U-LS / 2002-UB-LS<br>2017-U / 2017-UB<br>2017-UR / 2017-UBR | L-217-4-01 ⓘ   | [0.47]<br>12 | [0.26]<br>6,5  | [0.35]<br>9  | [0.47]<br>12 | 2x<br>45° | [5.00]<br>127 | [4.33]<br>110 | [1.38]<br>35 | [1.89]<br>48 | [0.59]<br>15 | [2.95]<br>75  | [0.39]<br>10 | M5 | M5 |
| 207-U-L / 207-UB-L<br>227-U-L / 227-UB-L<br>2007-U-LS / 2007-UB-LS<br>2027-U / 2027-UB<br>2027-UR / 2027-UBR | L-227-4-01 ⓘ   |              | [0.33]<br>8,5  | [0.51]<br>13 | [0.59]<br>15 | 2x<br>45° | [6.57]<br>167 | [5.91]<br>150 | [1.77]<br>45 | [2.87]<br>73 |              | [4.13]<br>105 | [0.39]<br>10 | M6 | M5 |

ⓘ Available upon request.

Also available in Black. Add -BLK to part number.

### Cross Arm Set

- 1 x cross arm
- 2 x adjustment spindles with neoprene thrust pads vulcanized, resin-free, inc.
- 2 x fastening nuts
- 4 x flange washers
- 1 x screw incl. 1 x fastening nut, self-locking



| Model no. | For Models with U Arms | C1           | C7          | F            | F1             | L1            | L3            | Adjustable Spindles |
|-----------|------------------------|--------------|-------------|--------------|----------------|---------------|---------------|---------------------|
| 207426-Q  | 207, 225, 227          | [0.47]<br>12 | [0.12]<br>3 | [0.31]<br>35 | [0.57]<br>14,5 | [4.92]<br>125 | [4.33]<br>110 | 507208-M            |
| 210440-Q  | 210, 235, 237          | [0.63]<br>16 | [0.16]<br>4 | [0.43]<br>11 | [0.75]<br>19   | [5.87]<br>149 | [5.12]<br>130 | 240208-M            |