### Simplex Roller Chains

<table>
<thead>
<tr>
<th>Cat No.†</th>
<th>Pitch P</th>
<th>Inside Width b max. mm</th>
<th>Roller Dia. d max. mm</th>
<th>Pin Dia. d max. mm</th>
<th>Plate Depth g max. mm</th>
<th>Con Pin Ext. k max. mm</th>
<th>Transverse Pitch e max. mm</th>
<th>Bearing Area cm²</th>
<th>Tensile Strength N</th>
<th>Approx Weight kg/m</th>
</tr>
</thead>
<tbody>
<tr>
<td>04 B–1</td>
<td>⁸⁄₃₂ inch</td>
<td>5.72</td>
<td>6.35</td>
<td>3.28</td>
<td>8.3</td>
<td>32.8</td>
<td>22</td>
<td>0.07</td>
<td>3,000</td>
<td>0.12</td>
</tr>
<tr>
<td>05 B–1</td>
<td>⁹⁄₃₂ inch</td>
<td>7.75</td>
<td>8.51</td>
<td>4.45</td>
<td>11.9</td>
<td>54.4</td>
<td>22</td>
<td>0.11</td>
<td>4,000</td>
<td>0.18</td>
</tr>
<tr>
<td>06 B–1</td>
<td>¹¹⁄₃₂ inch</td>
<td>11.68</td>
<td>12.07</td>
<td>5.72</td>
<td>16.1</td>
<td>60.8</td>
<td>22</td>
<td>0.28</td>
<td>9,100</td>
<td>0.41</td>
</tr>
<tr>
<td>08 B–1</td>
<td>¹³⁄₃₂ inch</td>
<td>17.02</td>
<td>15.88</td>
<td>8.28</td>
<td>21.1</td>
<td>67.6</td>
<td>22</td>
<td>0.50</td>
<td>16,200</td>
<td>0.70</td>
</tr>
<tr>
<td>10 B–1</td>
<td>¹⁵⁄₃₂ inch</td>
<td>25.40</td>
<td>25.40</td>
<td>14.63</td>
<td>33.3</td>
<td>101.5</td>
<td>22</td>
<td>0.87</td>
<td>32,000</td>
<td>1.36</td>
</tr>
<tr>
<td>20 B–1</td>
<td>¹⁷⁄₃₂ inch</td>
<td>30.99</td>
<td>27.94</td>
<td>15.90</td>
<td>37.0</td>
<td>123.0</td>
<td>22</td>
<td>1.40</td>
<td>100,000</td>
<td>5.53</td>
</tr>
</tbody>
</table>

† Cat No. equates to ISO 606 Chain ref. except where indicated, which are chains to factory std.

### Duplex Roller Chains

### Triplex Roller Chains

### Spares for Std. Chains

- **Pin Unit** *(Rivetting Outer Links)*
  - Available all sizes of chain.
  - Press fit unit to connect chains for maximum performance.
  - Part Ref. 79

- **Roller Unit** *(Inner Link)*
  - Available all sizes of chain to connect chain length or manufacture of special build chains.
  - Part Ref. 77

- **Connecting Link** *(Spring Clip Type)*
  - Standard all chains to 1 inch pin should be assembled with open end away from running direction of chain.
  - Part Ref. 76
American Standard Precision
Roller Chains

Conforming to ANSI B29.1 and ISO 606*

Straight Sideplate Roller Chains
Bush (Rollerless) Chains

Conforming to ANSI B29.1 and ISO 606*

Detachable Chains
Spares for Std. Chains

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### Standard Series Chains

(Complying to ANSI B29.1)

- ANSI and ISO 606 covers Standard Series Chains only

- ANSI 25 and 35 are Bush Chains to ISO 1395

#### Heavy Series and High Endurance Chains

Morse High Strength Roller Chains are designed to meet the instantaneous peak loading requirements of all applications ranging from rugged construction equipment to elevated personnel carriers.

There are two series of chains, both operate on standard ANSI sprocket.

- The ‘H’ series have link plates of hardened pins for additional strength where very high shock loads are encountered.

- The ‘H’ series have link plates of hardened pins for additional strength where very high shock loads are encountered.

#### Straight Side Plate Chains

Provide increased bearing area for conveying applications, when sliding on guides. Operate on std. ANSI sprockets.

#### Bush Chains

Standard ANSI Simplex chains assembled without rollers for reduced weight. Used on slow speed drives and lifting equipment such as, fork lift trucks.

#### Detachable Chains

Detachable Chain can be supplied for chains of ⅝” pitch and above, in standard series, heavy series and high endurance series, add suffix ‘C’ to Part No. - e.g. 2” Pitch Triplex Detachable Chain - Ref. 160 - 3C.

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### Tables

#### Standard Series Chains

<table>
<thead>
<tr>
<th>ANSI No.</th>
<th>Pitch</th>
<th>Pin</th>
<th>Cotter</th>
<th>Connecting Link</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/8</td>
<td>1/2</td>
<td>1/2</td>
<td>1/2</td>
<td>1/2</td>
</tr>
<tr>
<td>3/32</td>
<td>1/2</td>
<td>1/2</td>
<td>1/2</td>
<td>1/2</td>
</tr>
</tbody>
</table>

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### Diagrams

- Standard Roller Chains
- Straight Sideplate Roller Chains
- Bush (Rollerless) Chains

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### Index

- Part Ref. 79
- Part Ref. 77
- Part Ref. 76
- Part Ref. 75
- Part Ref. 74
- Part Ref. 73
- Part Ref. 72
- Part Ref. 71
- Part Ref. 70
- Part Ref. 69
- Part Ref. 68
- Part Ref. 67
- Part Ref. 66
- Part Ref. 65
- Part Ref. 64
- Part Ref. 63
- Part Ref. 62
- Part Ref. 61
- Part Ref. 60
- Part Ref. 59
- Part Ref. 58
- Part Ref. 57
- Part Ref. 56
- Part Ref. 55
- Part Ref. 54
- Part Ref. 53
- Part Ref. 52
- Part Ref. 51
- Part Ref. 50
- Part Ref. 49
- Part Ref. 48
- Part Ref. 47
- Part Ref. 46
- Part Ref. 45
- Part Ref. 44
- Part Ref. 43
- Part Ref. 42
- Part Ref. 41
- Part Ref. 40
- Part Ref. 39
- Part Ref. 38
- Part Ref. 37
- Part Ref. 36
- Part Ref. 35
- Part Ref. 34
- Part Ref. 33
- Part Ref. 32
- Part Ref. 31
- Part Ref. 30
- Part Ref. 29
- Part Ref. 28
- Part Ref. 27
- Part Ref. 26
- Part Ref. 25
- Part Ref. 24
- Part Ref. 23
- Part Ref. 22
- Part Ref. 21
- Part Ref. 20
- Part Ref. 19
- Part Ref. 18
- Part Ref. 17
- Part Ref. 16
- Part Ref. 15
- Part Ref. 14
- Part Ref. 13
- Part Ref. 12
- Part Ref. 11
- Part Ref. 10
- Part Ref. 9
- Part Ref. 8
- Part Ref. 7
- Part Ref. 6
- Part Ref. 5
- Part Ref. 4
- Part Ref. 3
- Part Ref. 2
- Part Ref. 1

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### Footnotes

*ISO 606 covers Standard Series Chains only

** ANSI 25 and 35 are Bush Chains to ISO 1395

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### Notes

- ANSI 25 and 35 are Bush Chains to ISO 1395

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### Additional Information

- ANSI 25 and 35 are Bush Chains to ISO 1395

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### References

- ANSI 25 and 35 are Bush Chains to ISO 1395

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### Contact Information

- Email sales@crossmorse.com
- Fax +44 (0) 121 360 0155
- Tel +44 (0) 121 360 0155

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### Abbreviations

- ANSI
- ISO
American Standard Precision Roller Chains
Multi-Strand Constructions
Conforming to ANSI B29.1 and ISO 606*

Duplicates and Triples specifications with certified approval. All chains available to full A.P.I.

**ISO 606 covers Duplex and Triples specifications with certified approval.**

All dimensions in mm.

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### Duplex Chains

- **1) Bush diameter.**
- **2) Inside Width.**
- **3) Roller Diameter.**
- **4) Pin Diameter.**
- **5) Plate Diameter.**
- **6) Transverse Pitch.**
- **7) Rivet Pin Length.**
- **8) Length to Cotter Pin.**
- **9) Bearing Area.**
- **10) Tensile Strength.**
- **11) Weight Approx.**

<table>
<thead>
<tr>
<th>ANSI No.</th>
<th>Pitch</th>
<th>Width</th>
<th>Diameter</th>
<th>Length</th>
<th>Material</th>
</tr>
</thead>
<tbody>
<tr>
<td>25-2</td>
<td>3/8</td>
<td>5.33</td>
<td>11.8</td>
<td>13.8</td>
<td>3.8</td>
</tr>
<tr>
<td>35-2</td>
<td>1/2</td>
<td>7.95</td>
<td>15.8</td>
<td>21.4</td>
<td>1.2</td>
</tr>
</tbody>
</table>

**Duplex Chains**

- • 25-2 & 35-2 Bush Chains to ISO 1395

1) Bush diameter.

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### Triples Chains

- **1) Bush diameter.**
- **2) Inside Width.**
- **3) Roller Diameter.**
- **4) Pin Diameter.**
- **5) Plate Diameter.**
- **6) Transverse Pitch.**
- **7) Rivet Pin Length.**
- **8) Length to Cotter Pin.**
- **9) Bearing Area.**
- **10) Tensile Strength.**
- **11) Weight Approx.**

<table>
<thead>
<tr>
<th>ANSI No.</th>
<th>Pitch</th>
<th>Width</th>
<th>Diameter</th>
<th>Length</th>
<th>Material</th>
</tr>
</thead>
<tbody>
<tr>
<td>100-2</td>
<td>1/4</td>
<td>3.18</td>
<td>6.40</td>
<td>7.9</td>
<td>0.33</td>
</tr>
<tr>
<td>120-2</td>
<td>3/8</td>
<td>4.77</td>
<td>9.0</td>
<td>11.9</td>
<td>0.54</td>
</tr>
</tbody>
</table>

**Triples Chains**

- • 25-3 & 35-3 Bush Chains to ISO 1395

1) Bush diameter.

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### Quadruplex Chains

- **1) Bush diameter.**
- **2) Inside Width.**
- **3) Roller Diameter.**
- **4) Pin Diameter.**
- **5) Plate Diameter.**
- **6) Transverse Pitch.**
- **7) Rivet Pin Length.**
- **8) Length to Cotter Pin.**
- **9) Bearing Area.**
- **10) Tensile Strength.**
- **11) Weight Approx.**

<table>
<thead>
<tr>
<th>ANSI No.</th>
<th>Pitch</th>
<th>Width</th>
<th>Diameter</th>
<th>Length</th>
<th>Material</th>
</tr>
</thead>
<tbody>
<tr>
<td>100-4</td>
<td>1/4</td>
<td>3.18</td>
<td>6.40</td>
<td>7.9</td>
<td>0.33</td>
</tr>
<tr>
<td>120-4</td>
<td>3/8</td>
<td>4.77</td>
<td>9.0</td>
<td>11.9</td>
<td>0.54</td>
</tr>
</tbody>
</table>

**Quadruplex Chains**

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### Quintuplex Chains

- **1) Bush diameter.**
- **2) Inside Width.**
- **3) Roller Diameter.**
- **4) Pin Diameter.**
- **5) Plate Diameter.**
- **6) Transverse Pitch.**
- **7) Rivet Pin Length.**
- **8) Length to Cotter Pin.**
- **9) Bearing Area.**
- **10) Tensile Strength.**
- **11) Weight Approx.**

<table>
<thead>
<tr>
<th>ANSI No.</th>
<th>Pitch</th>
<th>Width</th>
<th>Diameter</th>
<th>Length</th>
<th>Material</th>
</tr>
</thead>
<tbody>
<tr>
<td>100-5</td>
<td>1/4</td>
<td>3.18</td>
<td>6.40</td>
<td>7.9</td>
<td>0.33</td>
</tr>
<tr>
<td>120-5</td>
<td>3/8</td>
<td>4.77</td>
<td>9.0</td>
<td>11.9</td>
<td>0.54</td>
</tr>
</tbody>
</table>

**Quintuplex Chains**

- **22**

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### Sextuplex Chains

- **1) Bush diameter.**
- **2) Inside Width.**
- **3) Roller Diameter.**
- **4) Pin Diameter.**
- **5) Plate Diameter.**
- **6) Transverse Pitch.**
- **7) Rivet Pin Length.**
- **8) Length to Cotter Pin.**
- **9) Bearing Area.**
- **10) Tensile Strength.**
- **11) Weight Approx.**

<table>
<thead>
<tr>
<th>ANSI No.</th>
<th>Pitch</th>
<th>Width</th>
<th>Diameter</th>
<th>Length</th>
<th>Material</th>
</tr>
</thead>
<tbody>
<tr>
<td>100-6</td>
<td>1/4</td>
<td>3.18</td>
<td>6.40</td>
<td>7.9</td>
<td>0.33</td>
</tr>
<tr>
<td>120-6</td>
<td>3/8</td>
<td>4.77</td>
<td>9.0</td>
<td>11.9</td>
<td>0.54</td>
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</tbody>
</table>

**Sextuplex Chains**

- **23**

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### Detachable Chains

Detachable Chain can be supplied for chains 1/8" pitch and above. Add suffix 'C' to Part No.- e.g. Ref 160-3C for 2" pitch Triples Detachable Chain

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