Abbey Clamps is a division of Pinstructure Ltd.

Pinstructure has been manufacturing and distributing Clips and Clamps since 1999 and due to the increasing demand for off the shelf supply of quality clamping products Abbey Clamps was formed to give focus to this range.

We are pleased to offer a comprehensive clamping programme which includes;

- A complete range of Worm Drive Clamps 5mm, 8mm, 9mm, 12mm, 13mm and 16mm bandwidths pressed and slotted styles. Mild Steel, Stainless 430, 304 and 316 grades right through to Titanium materials.
- Bolt Clamps – MIKALOR, again a range of materials and 18mm up to 28mm bandwidths.
- O Clips – Double and Single eared in both steel and stainless.
- Quick Release, Quick Connect, Tri-Torque clips together with a considerable range of solid steel (Stainless and Mild steel plated) band clips e.g. Saddle – Full and Half and ‘P’ clips.

We try to make all lines available from stock and offer real people contact for information and advice which makes technical queries quickly resolveable.

All are available in standard pack, bulk pack or packed in plastic assortments boxes within our FACTORAX range of selected assortments.

If you cannot locate the part you are seeking but feel it is likely related to other parts then please drop us an email or contact us directly. We have a wealth of experience in the field and if it is not available from our considerable stocks we will most likely be able to advise an alternative or look to manufacture to your specific requirements.

Our minimum order is £20.00 (GBP) with a carriage paid level for UK mainland standard deliveries of £100.00. Any carriage charges will be advised should they be applicable.

We pride ourselves on our extensive stocked range and service, if your current clamp provider is not offering these qualities then we would be pleased to speak to you about your current and ongoing clips and clamps requirements.

We look forward to working with you.
Leave the M42 at junction 2, follow the road into REDDITCH for approximately 1.5 miles. At the first roundabout in Redditch turn right (signposted Enfield Industrial Estate). Continue straight over the traffic lights and after approximately 200 yards turn left into the Enfield Industrial Estate. Take the second turn right and we are the second unit on your left. All collections will be taken at the front of the building and all deliveries should be made at the rear of the building.
“A Kaleidoscope of Klamps”
# Contents

<table>
<thead>
<tr>
<th>Section</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Bolt Clamps</strong></td>
<td></td>
</tr>
<tr>
<td>T-Bolt</td>
<td>6</td>
</tr>
<tr>
<td>Single Bolt Heavy Duty W1, W2, W4</td>
<td>6, 7, 8</td>
</tr>
<tr>
<td>Constant Tension</td>
<td>9</td>
</tr>
<tr>
<td>Double &amp; Triple Bolt</td>
<td>10</td>
</tr>
<tr>
<td>‘U’ Bolts</td>
<td>11</td>
</tr>
<tr>
<td>‘V’ Bands</td>
<td>12</td>
</tr>
<tr>
<td>Bolt Clamps - Mini</td>
<td>13</td>
</tr>
<tr>
<td>Bolt Clamps - Double Wire, Spiral Wrap Hose Clamp</td>
<td>13, 14</td>
</tr>
<tr>
<td>Display racks &amp; selected Assortments</td>
<td>15</td>
</tr>
<tr>
<td><strong>Worm Drive Clamps</strong></td>
<td>18, 19</td>
</tr>
<tr>
<td>Embossed band 9 &amp; 12mm, W1, W2, W4 &amp; W5</td>
<td></td>
</tr>
<tr>
<td>Thumbscrew</td>
<td>20</td>
</tr>
<tr>
<td>Slotted band 8mm, 13mm &amp; 16mm (including Tri-Torque)</td>
<td>21, 22, 23</td>
</tr>
<tr>
<td>Quick Release</td>
<td>24, 25, 26</td>
</tr>
<tr>
<td>Clamps to order</td>
<td>26</td>
</tr>
<tr>
<td>Constant Tension</td>
<td>26, 27, 28</td>
</tr>
<tr>
<td>Display Racks, Fitting Tools and Selected Assortments</td>
<td>29</td>
</tr>
<tr>
<td><strong>‘P’ Clips &amp; Saddle Clamps</strong></td>
<td>32</td>
</tr>
<tr>
<td>‘P’1/2” Band, Mild Steel and Stainless</td>
<td></td>
</tr>
<tr>
<td>‘P’ DIN 3016, 12, 15, 20 &amp; 25mm band, Mild Steel and Stainless</td>
<td>33</td>
</tr>
<tr>
<td>‘P’ Nylon</td>
<td>34</td>
</tr>
<tr>
<td>‘P’Clips to order</td>
<td>34, 35</td>
</tr>
<tr>
<td>Saddle Clamps to order</td>
<td>39</td>
</tr>
<tr>
<td>Saddle Clamps – Full, Half and Twin</td>
<td>36, 37, 38</td>
</tr>
<tr>
<td>Selected Assortments</td>
<td>35</td>
</tr>
<tr>
<td><strong>Self Closing and Ear Clamps</strong></td>
<td>42, 43</td>
</tr>
<tr>
<td>Self Clamping, Wire &amp; Band</td>
<td></td>
</tr>
<tr>
<td>Ear Clips, Double</td>
<td>44, 45</td>
</tr>
<tr>
<td>Ear Clips, Single</td>
<td>46</td>
</tr>
<tr>
<td>Ear Clips with Insert</td>
<td>47</td>
</tr>
<tr>
<td>Ear Plus</td>
<td>48</td>
</tr>
<tr>
<td>Tool Clips</td>
<td>48, 49</td>
</tr>
<tr>
<td>Selected Assortments and Pincers</td>
<td>43, 49</td>
</tr>
<tr>
<td><strong>Banding &amp; Ties</strong></td>
<td>52</td>
</tr>
<tr>
<td>Long length PLAIN banding</td>
<td></td>
</tr>
<tr>
<td>Long length SLOTTED banding</td>
<td>53</td>
</tr>
<tr>
<td>Nylon Ties and Mounts</td>
<td>53, 54</td>
</tr>
<tr>
<td>Stainless Ties</td>
<td>55</td>
</tr>
<tr>
<td>Multi Clip</td>
<td>56, 57</td>
</tr>
</tbody>
</table>
‘Bolt Clamps’

Introduction

Using a nut and bolt for diametrical adjustment enables greater band tension and together with the wider band gives the heavy duty clamps a powerful advantage over a worm drive.

Single Bolt/Double Bolt:
In general terms the single bolt clamp will give all the clamping power of a double bolt version so that the single bolt design is our main supply. There are occasions where the double bolt design may have an advantage e.g. on the very large diameter applications and in particular where large amounts of adjustments are desirable, so that we do offer these also to order. Of particular value is the swivel bridge which allows great flexibility during assembly and this design is just one part of this “made to measure” attitude which has driven this clamp to the top of its class.

The “T” Bolt is the first step up in strength and though not widely used in the UK we are slowly introducing these into our stock as demand arises.

Other clamps in our bolt adjustment range are the Double Wire and Mini Clamp range both of which have niche applications and despite what we have said above regarding strength and power these clamps take advantage of the bolt tensioning to achieve fine tension adjustment. Additional special application clamps include the proprietery ‘spiral wrap hose clamp’ and the ‘U’ bolt.
Bolt Clamps Series 78

“T” Bolt Clamps

This range is a significant step up from the worm drive in strength though it is not widely used in the UK so that we do not stock in depth and mainly produce to order.

Bandwidth: 3/4”.

High Pressure Heavy Duty Bolt Clamps

These Industry standard clamps are produced for us by MIKALOR of Spain, who developed this concept from early ideals.

We offer from stock in three material grades:

- W1 Mild Steel band with 8.8 bolt, zinc CR3 plated.
- W2 430 Stainless band, 8.8 bolt zinc CR3 plated.
- W4 304 Stainless band, 302 Stainless bolt.

This style of clamp can also be offered in W5 – 316 Stainless Steel.
## Bolt Clamps Series 78

Heavy duty / High Pressure Single Bolt Clamps

### Size range W2 and W4

<table>
<thead>
<tr>
<th>Dia.</th>
<th>Bolt</th>
<th>Recommended Max. Torque Nm</th>
<th>Bandwidth mm</th>
<th>Bridge mm</th>
</tr>
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<tbody>
<tr>
<td>17-19</td>
<td>M6</td>
<td>10</td>
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**W2 – Series A78**

Ease of fitting and quality in design has been core to the development of this powerful clamp. For applications where the appearance is to be appreciated as well as its performance.

**W4 – Series D78**

Ease of fitting and quality in design has been core to the development of this powerful clamp. For applications where the appearance is to be appreciated as well as its performance.

### Materials:

Bolt Clamps Series 78

Heavy duty / High Pressure Single Bolt Clamps

<table>
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<tr>
<th>Dia. Range</th>
<th>Bolt</th>
<th>Recommended Max. Torque Nm</th>
<th>Bandwidth mm</th>
<th>Bridge mm</th>
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<td>240-252</td>
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Material: W1
Bolt: 8.8 Carbon Steel.
Band & Bridge: Mild Steel.
Washer & Trunnions: Mild Steel.
Finish: Zinc plated.

This clamp demonstrates strong performance in waste, mining and agricultural industries where fit and forget is a valuable attribute.
Bolt Clamps Series 78

Heavy duty / High Pressure

This range would not be complete without a “breathing version” i.e. temperature compensating.

**Series C78**

CONSTANT TENSION

Band & Bridge:  430 Stainless Steel.
Screw:  8.8 grade Steel Plated.
Washers & Trunions:  304 Stainless Steel.

This heavy duty clamp incorporates a series of Stainless Steel Disc Springs in the bolt tensioning mechanism allowing the clamp to expand/contract with temperature variations and vibration. The clamp has all the advantages of the models detailed on the previous pages so that applications as diverse as heavy diesel engines, marine and discharge operations can all be dealt with, where expansion/contraction would allow other clamps to leak.

Available sizes 25 to 210mm.

We also offer a ‘breathing version’ in our Worm Drives, see pages 27 & 28.
Bolt Clamps Series 78

Heavy duty / High Pressure

Developed Models:

Double & Triple Bolt

Our expertise enables us to offer 2 and 3 bolt versions and extremely large diameters.
Bolt Clamps Series 78

‘U’ Bolt Clamps

Series U78

This style of clamp is very useful when other elements need to be attached.

Specification: Mild Steel zinc plated

<table>
<thead>
<tr>
<th>Nominal</th>
<th>Suggested Range</th>
<th>Nut</th>
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<tbody>
<tr>
<td>26mm</td>
<td>25.4 - 26.6</td>
<td>M8</td>
</tr>
<tr>
<td>28mm</td>
<td>27.3 - 28.7</td>
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</tr>
<tr>
<td>32mm</td>
<td>31.2 - 32.8</td>
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<td>35mm</td>
<td>34.2 - 35.8</td>
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<tr>
<td>38mm</td>
<td>37.1 - 38.9</td>
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<tr>
<td>41mm</td>
<td>40.0 - 42.0</td>
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<td>43mm</td>
<td>41.9 - 44.1</td>
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<td>45mm</td>
<td>43.8 - 46.2</td>
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<td>48mm</td>
<td>46.8 - 49.2</td>
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<td>51mm</td>
<td>49.7 - 52.3</td>
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<td>54mm</td>
<td>52.6 - 55.4</td>
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<tr>
<td>58mm</td>
<td>56.5 - 59.5</td>
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<tr>
<td>64mm</td>
<td>62.5 - 65.5</td>
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</tbody>
</table>

Other sizes including larger M10 bolt constructions are being introduced as demand arises.
Bolt Clamps Series 78

‘V’ Band Clamps

Series V78

The purpose of the V clamp is to pull together and seal two circular flanges. Useful in stressful positions and fluctuating temperatures this is a reliable clamp when used in union with the correct flanges.

They have wide application in many industries, including: Exhausts, Filter, Aerospace, Turbo Charger and Food processing.

Materials

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
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</thead>
<tbody>
<tr>
<td>Stainless Steel</td>
<td></td>
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<tr>
<td>Carbon Steel</td>
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<tr>
<td>A wide variety of finishes available</td>
<td></td>
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</tbody>
</table>

Clamps are manufactured to order offering a wide range of ‘V’ profiles together with a variety of fastening mechanisms.

Please enquire for further information.
Mini Hose Clamps
Also known as the Nut and Bolt, Fueline or Petrol Pipe Clip, this clip is tailored for small diameter constructions where wide adjustment span is not necessary.
Our standard clips have a 9mm bandwidth and are Carbon Steel bright zinc plated or complete. AISI 304 Stainless Steel.

Double Wire Bolt Adjustment
We offer 3 types………………..
Series G77
A very useful clip where concentrated clamping force is needed. They do not have a wide adjustment range – 3 to 6mm but the 5mm bolt transmits all its capacity to a fine contact area, and of course the smooth edges of the round wire are kind in application.

Series J77
Materials
<table>
<thead>
<tr>
<th>Type</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>G77</td>
<td>Galvanised Mild Steel</td>
</tr>
<tr>
<td>J77</td>
<td>H.T. wire zinc coated</td>
</tr>
<tr>
<td>Size</td>
<td>14 to 85mm</td>
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</tbody>
</table>

For number 3, please see over.

© Abbey Clamps

CALL +44 (0) 1527 68334   Fax +44 (0) 1527 65992
e-mail: sales@abbeyclamps.co.uk   Web: www.abbeyclamps.co.uk
Bolt Clamps Series 77

Double Wire Bolt Adjustment cont’d

**Series S77** - Spiral Wrap Hose Clamp
An alternative to our wide band bolt clamp.

Patent Pending
Application Number: GB1120632.3

**Spiral wrapped hose**

This has been a difficult product to connect and seal in the past but it has met its match in our Helix Coiled Clamp.

Made to measure clamps matching diameter with its helix pitch, these clamps give excellent sealing capacity. The clamp is made to give all around seal for almost two coils ensuring minimum leak paths.

Sizes available – almost any!
This is a new clamp for us so that we are adding sizes as demand grows.

<table>
<thead>
<tr>
<th>Hose O/D</th>
<th>Pitch / Part number</th>
</tr>
</thead>
<tbody>
<tr>
<td>53</td>
<td>0530-100</td>
</tr>
<tr>
<td>78</td>
<td>0780-125</td>
</tr>
<tr>
<td>103</td>
<td>1030-145</td>
</tr>
<tr>
<td>153</td>
<td>1530-195</td>
</tr>
</tbody>
</table>

Hose O/D is clamping dia. i.e dia in between spiral reinforcement.
Bolt Clamps

Display racks and Selected Assortments

Display rack containing 26 sizes:

<table>
<thead>
<tr>
<th>Size Range</th>
<th>Ave Qty</th>
</tr>
</thead>
<tbody>
<tr>
<td>17-19</td>
<td>51-55</td>
</tr>
<tr>
<td>19-21</td>
<td>55-59</td>
</tr>
<tr>
<td>21-23</td>
<td>59-63</td>
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<tr>
<td>23-25</td>
<td>63-68</td>
</tr>
<tr>
<td>25-27</td>
<td>68-73</td>
</tr>
<tr>
<td>27-29</td>
<td>73-79</td>
</tr>
<tr>
<td>29-31</td>
<td>79-85</td>
</tr>
<tr>
<td>31-34</td>
<td>85-91</td>
</tr>
<tr>
<td>34-37</td>
<td>91-97</td>
</tr>
<tr>
<td>37-40</td>
<td>97-104</td>
</tr>
<tr>
<td>40-43</td>
<td>104-112</td>
</tr>
<tr>
<td>43-47</td>
<td>112-121</td>
</tr>
<tr>
<td>47-51</td>
<td>121-130</td>
</tr>
</tbody>
</table>

Picture shows W2 (A78) 3 clips per size.

This eye catching display holds up to 78 clips.

Conversion kit available for the mild steel version.

Approx dimensions: 84 x 51 x 10cm.

Base dimensions: 50 x 30cm.

Sturdy, well presented backing with a reinforced steel frame.

Wall mountable or free standing.

Easy to dispense clips.

<table>
<thead>
<tr>
<th>Description</th>
<th>Box No.</th>
<th>Ave Qty</th>
</tr>
</thead>
<tbody>
<tr>
<td>Display rack</td>
<td>PA7872001</td>
<td>-</td>
</tr>
<tr>
<td>Display rack with W2 stainless clamps</td>
<td>PA7872002</td>
<td>78</td>
</tr>
<tr>
<td>Display rack with W4 stainless clamps</td>
<td>PD7872003</td>
<td>78</td>
</tr>
<tr>
<td>Display rack with W1 clamps (W1 sizes and quantity vary)</td>
<td>PB7872004</td>
<td>78</td>
</tr>
</tbody>
</table>
Introduction

The Worm drive clamps introduction for general use gave new insights into the measurement of clamping forces both needed and available to prevent leakages.

The Worm drive has been in engineering applications for many years previously but the use of it in band clamps gave considerable flexibility to the range of sizes one clamp could cover together with its ability to offer measured incremental effects.

The two widely used methods of creating the helix drive on the band of the clamps are EMBOSISING and SLOTTING. We offer both types as each offer advantages in specialist applications, together with personal preference of our customer.

Embossing produces a plain band giving full contact with the clamped surface.
Slotting enables slightly higher torque tightening values.

Evolving programme
On the standard mild steel clamp very little has changed since the introduction of the old BS5315 but a host of improvements are now available:

- Improved materials.
- Improved housing design.
- Improved finishes.
- Improved torque loadings.
- Many special characteristic designs.
Worm Drive Clamps Series 75 & 76

Embossed Band

We will begin with the DIN 3017 range.

Two bandwidths: 9mm and 12mm.

Five material choices:

<table>
<thead>
<tr>
<th>Band</th>
<th>Housing</th>
<th>Screw</th>
<th>Reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>Z/C Steel</td>
<td>Z/C Steel</td>
<td>Z/C Steel</td>
<td>W1</td>
</tr>
<tr>
<td>AISI 430</td>
<td>AISI 430</td>
<td>AISI 430</td>
<td>W2</td>
</tr>
<tr>
<td>AISI 430</td>
<td>AISI 430</td>
<td>AISI 430</td>
<td>W3</td>
</tr>
<tr>
<td>AISI 304</td>
<td>AISI 304</td>
<td>AISI 304</td>
<td>W4</td>
</tr>
<tr>
<td>AISI 316</td>
<td>AISI 316</td>
<td>AISI 316</td>
<td>W5</td>
</tr>
</tbody>
</table>

* Type W3 and W5 are usually made to order unless scheduled.

Z/C = Zinc coated.

Our most popular clamp is the type W2 which combines strength with appearance and this is the type we will normally supply unless otherwise specified.

Outline layout of 9 and 12mm band clamps.
### Worm Drive Clamps Series 75 & 76

#### Embossed Band

#### DIN 3017 Clamps

<table>
<thead>
<tr>
<th>Clamping diameter</th>
<th>Series 75</th>
<th>Series 76</th>
</tr>
</thead>
<tbody>
<tr>
<td>9mm band</td>
<td>W1</td>
<td>W2</td>
</tr>
<tr>
<td>8-12</td>
<td>2.5</td>
<td>3.0</td>
</tr>
<tr>
<td>10-16</td>
<td>3/8 – 5/8</td>
<td>MOO</td>
</tr>
<tr>
<td>12-20</td>
<td>1/2 - 3/4</td>
<td>OO</td>
</tr>
<tr>
<td>12-22</td>
<td>1/2 - 7/8</td>
<td>O</td>
</tr>
<tr>
<td>16-27</td>
<td>5/8 – 1.1/16</td>
<td>OX</td>
</tr>
<tr>
<td>20-32</td>
<td>3/4 - 1.1/4</td>
<td>1A</td>
</tr>
<tr>
<td>23-35</td>
<td>7/8 – 1.3/8</td>
<td>1</td>
</tr>
<tr>
<td>25-40</td>
<td>1 – 1.5/8</td>
<td>1X</td>
</tr>
<tr>
<td>32-50</td>
<td>1.1/4 – 2</td>
<td>2A</td>
</tr>
<tr>
<td>40-55</td>
<td>1.5/8 – 2.1/8</td>
<td>2</td>
</tr>
<tr>
<td>40-60</td>
<td>1.5/8 – 2.3/8</td>
<td>2X</td>
</tr>
<tr>
<td>50-70</td>
<td>2 – 2.3/4</td>
<td>3</td>
</tr>
<tr>
<td>60-80</td>
<td>2.3/8 – 3.1/8</td>
<td>3X</td>
</tr>
<tr>
<td>70-90</td>
<td>2.3/4 – 3.1/4</td>
<td>4</td>
</tr>
<tr>
<td>80-100</td>
<td>3.1/8 – 4</td>
<td>4X</td>
</tr>
<tr>
<td>90-110</td>
<td>3.1/2 – 4.3/8</td>
<td>5</td>
</tr>
<tr>
<td>100-120</td>
<td>4 – 4.3/4</td>
<td>5</td>
</tr>
<tr>
<td>110-130</td>
<td>4.3/8 – 5.1/8</td>
<td>6</td>
</tr>
<tr>
<td>120-140</td>
<td>4.3/4 – 5.1/8</td>
<td>6X</td>
</tr>
<tr>
<td>130-150</td>
<td>5.1/8 – 6</td>
<td>6X</td>
</tr>
<tr>
<td>140-160</td>
<td>5.7/8 – 6.3/8</td>
<td>7</td>
</tr>
<tr>
<td>150-170</td>
<td>6 – 6.3/4</td>
<td></td>
</tr>
<tr>
<td>160-180</td>
<td>6.3/8 – 7</td>
<td></td>
</tr>
<tr>
<td>170-190</td>
<td>6.3/4 – 7.1/2</td>
<td></td>
</tr>
<tr>
<td>180-200</td>
<td>7 – 7.7/8</td>
<td></td>
</tr>
<tr>
<td>190-210</td>
<td>7.1/2 – 8.1/4</td>
<td></td>
</tr>
<tr>
<td>200-220</td>
<td>7.7/8 – 8.5/8</td>
<td></td>
</tr>
<tr>
<td>210-230</td>
<td>8.1/4 – 9</td>
<td></td>
</tr>
<tr>
<td>220-240</td>
<td>8.5/8 – 9.1/2</td>
<td></td>
</tr>
<tr>
<td>230-250</td>
<td>9 – 9.7/8</td>
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<tr>
<td>240-260</td>
<td>9.1/2 – 10.1/4</td>
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<tr>
<td>260-280</td>
<td>10.1/4 – 11</td>
<td></td>
</tr>
<tr>
<td>290-310</td>
<td>11.3/8 – 12.1/4</td>
<td></td>
</tr>
</tbody>
</table>

It is best not to over tighten clamps. If difficulty is experienced in sealing a joint, we recommend using a wider band.

#### Recommended tightening torque – Newton millimetres

<table>
<thead>
<tr>
<th></th>
<th>Series 75</th>
<th></th>
<th>Series 76</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>W1 W2 W4 W5</td>
<td></td>
<td>W1 W2 W4 W5</td>
<td></td>
</tr>
<tr>
<td>8-12</td>
<td>2.5 3.0 3.0 3.0</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>10-16</td>
<td>3/8 – 5/8</td>
<td>MOO</td>
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<tr>
<td>12-20</td>
<td>1/2 - 3/4</td>
<td>OO</td>
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<tr>
<td>12-22</td>
<td>1/2 - 7/8</td>
<td>O</td>
<td></td>
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<tr>
<td>16-27</td>
<td>5/8 – 1.1/16</td>
<td>OX</td>
<td></td>
<td></td>
</tr>
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</tr>
<tr>
<td>25-40</td>
<td>1 – 1.5/8</td>
<td>1X</td>
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</tr>
<tr>
<td>32-50</td>
<td>1.1/4 – 2</td>
<td>2A</td>
<td></td>
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<tr>
<td>40-55</td>
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<tr>
<td>40-60</td>
<td>1.5/8 – 2.3/8</td>
<td>2X</td>
<td></td>
<td></td>
</tr>
<tr>
<td>50-70</td>
<td>2 – 2.3/4</td>
<td>3</td>
<td></td>
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</tr>
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<td>60-80</td>
<td>2.3/8 – 3.1/8</td>
<td>3X</td>
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<tr>
<td>70-90</td>
<td>2.3/4 – 3.1/4</td>
<td>4</td>
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<td></td>
</tr>
<tr>
<td>80-100</td>
<td>3.1/8 – 4</td>
<td>4X</td>
<td></td>
<td></td>
</tr>
<tr>
<td>90-110</td>
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<tr>
<td>100-120</td>
<td>4 – 4.3/4</td>
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<td>110-130</td>
<td>4.3/8 – 5.1/8</td>
<td>6</td>
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<tr>
<td>120-140</td>
<td>4.3/4 – 5.1/8</td>
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<td>130-150</td>
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<tr>
<td>140-160</td>
<td>5.7/8 – 6.3/8</td>
<td>7</td>
<td></td>
<td></td>
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<tr>
<td>150-170</td>
<td>6 – 6.3/4</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>160-180</td>
<td>6.3/8 – 7</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>170-190</td>
<td>6.3/4 – 7.1/2</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>180-200</td>
<td>7 – 7.7/8</td>
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<td></td>
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<tr>
<td>190-210</td>
<td>7.1/2 – 8.1/4</td>
<td></td>
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</tr>
<tr>
<td>200-220</td>
<td>7.7/8 – 8.5/8</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>210-230</td>
<td>8.1/4 – 9</td>
<td></td>
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<td></td>
</tr>
<tr>
<td>220-240</td>
<td>8.5/8 – 9.1/2</td>
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<tr>
<td>230-250</td>
<td>9 – 9.7/8</td>
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<tr>
<td>240-260</td>
<td>9.1/2 – 10.1/4</td>
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<tr>
<td>260-280</td>
<td>10.1/4 – 11</td>
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<td></td>
</tr>
<tr>
<td>290-310</td>
<td>11.3/8 – 12.1/4</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

For larger sizes please enquire, though our Quick release clamps are in stock (pages 24, 25 & 26).
**Worm Drive Clamps Series 76**

**Embossed Band cont’d**

**Series T76**

**Thumbscrew clamps**

- 12mm bandwidth
- Type DIN 3017

Outline layout of Thumbscrew Clamps.

A “soft feel” driver for frequent re-application.

Any size can be produced but we maintain stock of popular sizes.

---

**Worm Drive Clamps Series 325, 350, 611, 620, 850**

**Slotted Band**

This range is often referred to as the “American style” clamp.

Normal

Tri-Torque

Bandwidths 5/16” (8mm), 1/2” (12.7mm) and 5/8” (16mm).

For details see pages 21, 22 and 23.
Tiny and Tough 5/16 bandwidth

Designed for the many small applications where the larger clamp may be bulky or over specified. Also for those applications where a narrower band is valuable.

**Series T325**

Band & housing St.St.  
Screw plated Carbon Steel.

**Series T350**

All Stainless Steel construction.

We also offer small diameter “Nut and Bolt” clamps, see page 13.
Worm Drive Clamps Series 325, 350, 611, 620

Wider and stronger slotted band

Series T611 -
Band & housing 201/301 St.St
Screw Plated Carbon Steel.

Series T620 -
All Stainless Steel construction.
Bandwidth 1/2”.

A very useful all purpose range of clamps for general industry, Automotive and Marine applications.

The sizes covered by each clip are greater than the DIN 3017 range enabling reduced inventory.

<table>
<thead>
<tr>
<th>mm</th>
<th>Inch</th>
</tr>
</thead>
<tbody>
<tr>
<td>10-22</td>
<td>3/8 – 7/8</td>
</tr>
<tr>
<td>11-25</td>
<td>7/16 – 1</td>
</tr>
<tr>
<td>13-27</td>
<td>1/2 – 1.1/16</td>
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<tr>
<td>13-32</td>
<td>1/2 – 1.1/4</td>
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<td>18-38</td>
<td>11/16 – 1.1/2</td>
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<td>19-44</td>
<td>3/4 – 1.3/4</td>
</tr>
<tr>
<td>26-51</td>
<td>1 – 2</td>
</tr>
<tr>
<td>32-57</td>
<td>1.1/4 – 2.1/4</td>
</tr>
<tr>
<td>38-63</td>
<td>1.1/2 – 2.1/2</td>
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<tr>
<td>44-70</td>
<td>1.3/4 – 2.3/4</td>
</tr>
<tr>
<td>51-76</td>
<td>2 – 3</td>
</tr>
<tr>
<td>57-82</td>
<td>2.1/4 – 3.1/4</td>
</tr>
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<td>64-89</td>
<td>2.1/2 – 3.1/2</td>
</tr>
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<td>70-95</td>
<td>2.3/4 – 3.3/4</td>
</tr>
<tr>
<td>76-101</td>
<td>3 – 4</td>
</tr>
<tr>
<td>83-108</td>
<td>3.1/4 – 4.1/4</td>
</tr>
<tr>
<td>64-114</td>
<td>2.1/2 – 4.1/2</td>
</tr>
<tr>
<td>76-127</td>
<td>3 – 5</td>
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<td>89-140</td>
<td>3.1/2 – 5.1/2</td>
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<td>95-146</td>
<td>3.3/4 – 5.3/4</td>
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<tr>
<td>102-152</td>
<td>4 – 6</td>
</tr>
<tr>
<td>114-165</td>
<td>4.1/2 – 6.1/2</td>
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<tr>
<td>127-178</td>
<td>5 – 7</td>
</tr>
<tr>
<td>165-216</td>
<td>6.1/2 – 8.1/2</td>
</tr>
</tbody>
</table>

Larger sizes upon request. Also available in 316 Stainless Steel.

Outline layout of 1/2” band clamps.
Worm Drive Clamps T850

“Tri-Torque” – when strength matters

Series T850

Our Tri-Torque clamps have a 16mm band and reinforced housing which provides maximum engagement of screw to band. Designed for heavy duty and stubborn leakage applications and will also tackle many of the spiral wound hoses, and high pressure installations.

16mm (5/8”) band stainless construction 300 grade band and 410 screw.

<table>
<thead>
<tr>
<th>Clamping Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>mm</td>
</tr>
<tr>
<td>25-45</td>
</tr>
<tr>
<td>32-54</td>
</tr>
<tr>
<td>45-66</td>
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<td>57-79</td>
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<td>70-92</td>
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<td>121-143</td>
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<td>159-181</td>
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<td>172-193</td>
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<td>184-206</td>
</tr>
<tr>
<td>197-219</td>
</tr>
<tr>
<td>210-232</td>
</tr>
</tbody>
</table>

There are two types available lined and unlined, our main stock is of the lined type as shown below. They are made with a liner to offer a solid face to the inside diameter.
Worm Drive Clamps Series 76
Quick Release Hose Clamps - Slotted Band

Quick release style worm drive clamps are indispensable for installation in closed systems where the clamp must be disengaged to be applied. The swivel-action locking of screw to band makes both installation and removal fast and easy.

This is a first class answer to the ducting industry and is a most flexible clip. It quite happily wraps around awkward bundles and because of the range availability is a valuable cover-all clip to keep in maintenance departments. Available in two bandwidths.

<table>
<thead>
<tr>
<th>Part</th>
<th>Size</th>
<th>Material</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hex screw</td>
<td>5/16&quot; (8mm)</td>
<td>304 St.St.</td>
</tr>
<tr>
<td>Band</td>
<td>1/2&quot; (12.7/13mm)</td>
<td>301 St.St.</td>
</tr>
<tr>
<td>Housing</td>
<td></td>
<td>410 St.St.</td>
</tr>
</tbody>
</table>

We also stock certain sizes in plated carbon steel for applications where stainless steel may be unnecessary.

Series G76 1/2" band
### Series G76 continued

<table>
<thead>
<tr>
<th>Klamp part</th>
<th>Size (mm)</th>
<th>Size (inch)</th>
<th>Box qty</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Min</td>
<td>Max</td>
<td>Min</td>
</tr>
<tr>
<td>G76012</td>
<td>13</td>
<td>32</td>
<td>1/2</td>
</tr>
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<td>38</td>
<td>89</td>
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<td>216</td>
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<td>G76248</td>
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<td>406</td>
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<td>G76280</td>
<td>361</td>
<td>457</td>
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<td>G76344</td>
<td>44</td>
<td>558</td>
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</tr>
</tbody>
</table>

Because of it’s strap like qualities this clamp is useful on misshapen bundles where refitting is required, together with it’s well established use for sign strapping and awkward air conditioning applications.

A narrower band similar type is available, see page 26.
**Worm Drive Clamps Series 75**

**Quick Release Hose Clamps cont’d**

### Series C75 9mm Band

Our 9mm Quick Release Clamp has an embossed band with a smooth inside and rounded edges. Manufactured in W1 and W2 materials, this is a lightweight inexpensive clamp to be used in applications where our 1/2” Stainless Quick Release Clamps heavy duty nature is not required.

Available sizes: 25mm to 750mm.

Please enquire for further information.

### Clamps to Order

#### Worm Drive Hose Clamps

**Constant Tension**

This standard Worm Drive Hose clamp has an inner spring loaded insert ring which maintains constant pressure around the hose in cases of temperature variations or vibration.

Manufactured in complete 430 Stainless Steel (W3) guaranteeing leak proof hose assemblies.

**Titanium**

Manufactured in complete titanium this 12mm band clamp offers a light weight clip with high corrosion resistance.

It’s low weight is ideal for use in competitive engines and is considered to be a truely remarkable clamp.

For further information on both clamps, please contact us.
Worm Drive Clamps

“Constant Tension Clamps” – allowing joints to breathe

The Constant Tension Clamps are designed to deal with “cooling leakage”, this occurs when a hose assembly is subjected to a vigorous hot temperature causing expansion of the joint and whilst a normal hose clamp may expand to cope, the joint may come loose on cooling – similar conditions i.e. movement due to temperature changes, occur in very cold circumstances.

Two bandwidths: 14mm (9/16”) and 16mm (5/8”).
All Stainless construction 300 grade band and springs, 410 grade screw.

### Series T47

14mm (9/16”) band.
8mm (5/16”) screw.

<table>
<thead>
<tr>
<th>14mm band</th>
<th>Clamping range</th>
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<tbody>
<tr>
<td>14-27</td>
<td>9/16 - 1.1/16</td>
</tr>
<tr>
<td>16-32</td>
<td>5/8 - 1.1/4</td>
</tr>
<tr>
<td>21-38</td>
<td>13-16 - 1.1/2</td>
</tr>
<tr>
<td>20-44</td>
<td>13-16 - 1.3/4</td>
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<td>1.5/16 - 2.1/4</td>
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<tr>
<td>40-63</td>
<td>1.9/16 - 2.1/2</td>
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<td>46-70</td>
<td>1.13/16 - 2.3/4</td>
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<td>52-76</td>
<td>2.1/16 - 3</td>
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<td>59-82</td>
<td>2.5/16 - 3.1/4</td>
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<tr>
<td>65-89</td>
<td>2.9/16 - 3.1/2</td>
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</tbody>
</table>

A smooth inside wider band clamp for reliability in arduous conditions.
Worm Drive Clamps

“Constant Tension Clamps” cont’d

<table>
<thead>
<tr>
<th>Clamping range</th>
<th>mm</th>
<th>Inch</th>
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<td>25-45</td>
<td>1</td>
<td>1.3/4</td>
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<td>32-54</td>
<td>1.1/4</td>
<td>2.1/8</td>
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<td>45-67</td>
<td>1.3/4</td>
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<td>57-79</td>
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<td>3.1/8</td>
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<td>70-92</td>
<td>2.3/4</td>
<td>3.5/8</td>
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<td>83-105</td>
<td>3.1/4</td>
<td>4.1/8</td>
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<td>95-117</td>
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<td>5.1/8</td>
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<tr>
<td>121-143</td>
<td>4.3/4</td>
<td>5.5/8</td>
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<td>133-155</td>
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<td>6.1/8</td>
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<td>146-168</td>
<td>5.3/4</td>
<td>6.5/8</td>
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<tr>
<td>159-181</td>
<td>6.1/4</td>
<td>7.1/8</td>
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<td>172-193</td>
<td>6.3/4</td>
<td>7.5/8</td>
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<td>210-232</td>
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<td>9.1/8</td>
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</table>

These clamps have found favour with the large engine slower moving vehicles e.g. earth movers, trucks and tractors, due to the clips tenacity in tough conditions.

Other forms of Constant Tension Clamp e.g. Spring Band and Wire Clamps are detailed on pages 42 and 43.
Worm Drive Clamps

Tools, Display, Assortments

Tools > Flexidrivers

Two types available:
1. 7mm hexdrive.
2. 1/4” square drive with 4 sockets 6mm, 7mm, 8mm and 10mm.

Display > racks

Freestanding
Will hold approx 100 clamps, 8-12mm to 40-60mm, 9mm and 12mm bandwidth. Available in W1, W2 or W4 materials.

Workshop handy rack
Holds 20 clamps, 8-12mm to 60-80mm, 9mm bandwidth. Available in W1, W2 or W4 materials.

Assortments

<table>
<thead>
<tr>
<th>Description</th>
<th>Part No.</th>
<th>Ave. Qty</th>
</tr>
</thead>
<tbody>
<tr>
<td>9 &amp; 12mm 430 Stainless steel band, 8-12 to 50-70mm</td>
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</tr>
<tr>
<td>9mm 430 Stainless steel band, 8-12 to 25-40mm</td>
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<tr>
<td>9mm 430 Stainless steel band (bagged), 8-12 to 25-40mm</td>
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<td>9 &amp; 12mm 430 Stainless steel band, 8-12 to 32-50mm</td>
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<td>9 &amp; 12mm 430 Stainless steel band, 8-12 to 32-50mm plus Flexidriver</td>
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<td>9 &amp; 12mm band 304 Stainless steel, 8-12 to 32-50mm</td>
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Introduction:

This is one series of components which we have found particularly difficult to standardise, as it seems that every factory in the land have their own idea as to how it should be constructed. However we offer a substantial range of standard parts and before this century is out we look to make progress on the standardisation front.

We offer both lined and unlined clips though generally the ‘P’ clips are lined and saddle clamps unlined, nylon clamps do not normally need a liner.

Clearly we can produce any size and any shape but it is a component needing a certain amount of tooling per size/type so that small quantities of special dimensions or materials are not often cost-effective. Because of our considerable range of standard sizes we recommend you try to select one of these for your application as ‘making a special’ increases unit costs very considerably, generally it will be the case that you will need in excess of 20,000 pieces to get unit costs down near the level of our standard stock.
By far the most popular are our 1/2” band.

Assortments available, page 35.

For larger or intermediate sizes please contact us for further information.

<table>
<thead>
<tr>
<th>Klamp Part</th>
<th>D (mm)</th>
<th>t (mm)</th>
<th>Box Quantity</th>
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<td>A980700</td>
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<td>50</td>
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</table>

W1 = Series A98
W5 = Series D98
This very comprehensive range is sold throughout Europe.

Our DIN 3016 ‘P’ clips have reinforced band ends for extra strength to keep them firm where a high load is involved. They are available in the following configurations:

Bandwidths: 12, 15, 20 & 25mm.

Material: Mild Steel zinc plated
304 Stainless Steel.

Liner: Neoprene.

The part numbers within the tables are for our standard Mild Steel clips with liner. For Stainless Steel clips change the first letter to:

Bandwidths
12mm – H
15mm – K
20mm – M
25mm – T
e.g. St.St. 12mm bandwidth, 30mm diameter – H980300.

Clips marked with size.

To order: Assortments.
Clips without liner.
Other materials.
‘P’ Clips Series 98

Nylon adjustable
Series N98

Our Nylon series of six adjustable sizes do not require a liner, the product being sufficiently pliable to eliminate chafing or damage. They have serrated mating surfaces to assist positive location.

Bandwidth: 12.7mm (1/2").
Fixing hole: M5.
Colour: White.
Six sizes cover 34 applications which makes this a very useful clip in any toolbox.

Nylon Fixed size

We also offer Nylon ‘66’ P clips in black or white.
Sizes 5-38mm available from stock.
For further information, please enquire.

We are introducing a 16mm wide clip with rolled edge for applications where a liner is unnecessary.

Series B98

<table>
<thead>
<tr>
<th>D (mm)</th>
<th>Box Qty</th>
</tr>
</thead>
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<tr>
<td>5 - 6</td>
<td>200</td>
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<td>6 - 10</td>
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<td>14 - 22</td>
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<td>22 - 30</td>
<td>100</td>
</tr>
<tr>
<td>30 - 38</td>
<td>50</td>
</tr>
</tbody>
</table>

Bandwidth: 16mm.
Thickness: 0.6mm.
Finish: zinc plate.
Fixing: 8mm.

Stocks at this time: 5, 6, 8 & 10mm.
‘P’ Clips Series 98 and Assortments

To order

We also offer a useful collection of older standards and ‘specials’.

<table>
<thead>
<tr>
<th>Material: Mild Steel CR3 plating.</th>
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</table>

| 25mm band M12 fixing |
| 19mm band M8 or M10 fixing |
| 16mm band M6 fixing |

Non catalogued variations

<table>
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<tr>
<th>Description</th>
<th>Part No.</th>
<th>Ave. Qty</th>
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</thead>
<tbody>
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<tr>
<td>Mild steel, EPDM liner, 4-5mm to 38mm</td>
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<tr>
<td>Stainless steel, EPDM liner, 5mm to 25mm</td>
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<td>Stainless steel, EPDM liner, 5mm to 38mm</td>
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</tr>
<tr>
<td>Nylon ‘66’ Adjustable, 5-6mm to 30-38mm</td>
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</tr>
<tr>
<td>Nylon ‘66’ black and white, 5mm to 38mm</td>
<td>54462</td>
<td>103</td>
</tr>
</tbody>
</table>

Assortments

We would be happy to offer kits to your specification, please enquire.
Saddle Clamps Series 94

Half Saddle Clamps

This range of Full and Half Saddle clamps aid standardisation. For one or two articles:

**Series A94**

DIN Standard 72571.
Material: Mild Steel.
Finish: Zinc plated CR3.

We can offer clamps in Stainless steel to order.

**Series H94**

Heavy Duty

DIN Standard 1596.
Material: Mild Steel.
Finish: Zinc plated CR3.

---

### Klamp part Fits Articles Fixing hole Material Box qty

#### A940040-1

4

1

4.8

10 x 1

100

#### A940050-1

5

1

4.8

10 x 1

#### A940060-1

6

1

4.8

10 x 1

#### A940070-1

7

1

4.8

10 x 1

#### A940080-1

8

1

4.8

10 x 1

#### A940100-1

10

1

4.8

10 x 1

#### A940120-1

12

2

4.8

10 x 1

#### A940160-1

16

2

4.8

10 x 1

---

#### H940070

5.5 - 7

6.6

16 x 2

50

#### H940090

7 - 9

6.6

16 x 2

50

#### H940130

9.5 - 13

6.6

16 x 2

50

#### H940155

13 - 15.5

6.6

16 x 2

50

#### H940190

15.5 - 19

6.6

16 x 2

50

#### H940230

20 - 23

6.6

16 x 2

50

#### H940260

23 - 26

6.6

16 x 2

50

#### H940285

26 - 28.5

6.6

16 x 2

50

#### H940310

28.5 - 31

6.6

16 x 2

50

#### H940330

31 - 33

6.6

16 x 2

50
Saddle Clamps Series 94

Full Saddle Clamps

For one or two articles:

<table>
<thead>
<tr>
<th>Klamp part</th>
<th>Fits</th>
<th>Articles</th>
<th>Fixing hole</th>
<th>Material</th>
<th>Box qty</th>
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<td>2</td>
<td>4.8</td>
<td>10 x 1</td>
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<tr>
<td>C940050-2</td>
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<tr>
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<td></td>
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<td></td>
</tr>
<tr>
<td>C940100-2</td>
<td>10</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

This range extends to much larger diameters and multiple articles though largely made to order.

Specials abound in the product range

Clamps for 3 or more articles, heavy gauge materials to 50 x 5, Material types: aluminium, brass, copper etc. have all been tackled over time. Please send your drawings or samples for evaluation.
Saddle Clamps Series 94

**Twin Saddle Clamps**

<table>
<thead>
<tr>
<th>Klamp part</th>
<th>Fixing hole</th>
<th>Material</th>
<th>Box qty</th>
</tr>
</thead>
<tbody>
<tr>
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<td>10x1</td>
<td>100</td>
</tr>
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<td>E940060</td>
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<td></td>
</tr>
<tr>
<td>E940070</td>
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<tr>
<td>E970080</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>E940100</td>
<td></td>
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<td>E940180</td>
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</tr>
<tr>
<td>E940200</td>
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<tr>
<td>E940220</td>
<td></td>
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<td></td>
</tr>
</tbody>
</table>

**Series E94**

DIN Standard 72572.
Material: Mild Steel.
Finish: Zinc plated CR3.
Stainless Steel to order.

**Copper Saddle Clamps**

**Series K94**

Material: C101.
Finish: Self Colour.
Saddle Clamps Series 94

Specials

Materials available

- Aluminium
- Steel
- Copper
- Brass
- Stainless Steel
Introduction:

These clamps do not need added fastening devices as the closure mechanism is built in. They are both inexpensive and effective with distinct advantages over other designs.

Self Closing

This is the ‘breathing’ clamp par excellence as they are made from spring steel to allow for temperature changes in low pressure systems, there are two styles:

1. Made from flat strip – page 42.
2. Made from wire – page 43.

Ear Clamps

When the conversation turns to “tamper proof” the ear clamp range is first in the queue. From its early design it has been developed and improved many times, and we are now able to offer a wide range of styles and materials.
Self Closing Series 77

Increasingly the substantial variation of temperature in an application is a problem solved for these clips. They are very size specific, so that care must be taken to check hose type and diameter as the contraction of these clips is not adjustable. Both the flat metal version and the wire type have their place. Flat metal for the softer hose structure, they are clamps for medium to low pressure work as in heating systems and a pair of slip-joint pliers will cover most fitments.

Band Type

Series B77

We show below details of a small but popular part of the range held in stock for the convenience of middle volume users. The larger and heavier sizes tend to be more application specific and are produced to order.

<table>
<thead>
<tr>
<th>Klamp part</th>
<th>Diameter</th>
<th>b mm</th>
<th>a mm 0.05</th>
<th>s mm</th>
<th>Box qty</th>
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<tbody>
<tr>
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<td>6</td>
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<td>0.1</td>
<td>3</td>
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<tr>
<td>B770070</td>
<td>7</td>
<td>6.4</td>
<td>-0.1</td>
<td>3</td>
<td>0.5</td>
</tr>
<tr>
<td>B770080</td>
<td>8</td>
<td>7.4</td>
<td>+/-0.15</td>
<td>3</td>
<td>0.6</td>
</tr>
<tr>
<td>B770090</td>
<td>9</td>
<td>8.4</td>
<td>+/-0.15</td>
<td>3.5</td>
<td>0.6</td>
</tr>
<tr>
<td>B770100</td>
<td>10</td>
<td>9.3</td>
<td>+/-0.2</td>
<td>3.5</td>
<td>0.7</td>
</tr>
<tr>
<td>B770110</td>
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<td>10.3</td>
<td>+/-0.2</td>
<td>4</td>
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<tr>
<td>B770120</td>
<td>12</td>
<td>11.1</td>
<td>+/-0.2</td>
<td>4</td>
<td>0.7</td>
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<tr>
<td>B770140</td>
<td>14</td>
<td>12.9</td>
<td>+/-0.2</td>
<td>4</td>
<td>0.8</td>
</tr>
<tr>
<td>B770150</td>
<td>15</td>
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<td>+/-0.2</td>
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<tr>
<td>B770170</td>
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<td>+/-0.2</td>
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<td>0.8</td>
</tr>
<tr>
<td>B770200</td>
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<td>18.4</td>
<td>+/-0.4</td>
<td>3.2</td>
<td>0.8</td>
</tr>
</tbody>
</table>

These clips available up to 70mm diameter.
Self Closing Series 77

Wire type
Series C77

These wire constructed clamps have a wide acceptance in the Automotive industry which is testament to their cost-effectiveness and efficiency. Sizes to 75mm diameter are available but our volume stock is shown in the chart below.

<table>
<thead>
<tr>
<th>Klamp part</th>
<th>Ø Diameter mm</th>
<th>Min.</th>
<th>Max.</th>
<th>Nom.</th>
<th>w mm</th>
<th>h mm</th>
<th>r1 mm</th>
<th>r2 mm</th>
<th>Box qty</th>
<th>Colour</th>
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<td>7.50</td>
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<td>1.0</td>
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<td>10.6</td>
<td>8.0</td>
<td>250</td>
<td>Yellow</td>
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<tr>
<td>C770080</td>
<td>7.80</td>
<td>8.30</td>
<td>8.10</td>
<td>1.0</td>
<td>5.5</td>
<td>10.7</td>
<td>8.3</td>
<td>250</td>
<td>White</td>
<td></td>
</tr>
<tr>
<td>C770090</td>
<td>8.80</td>
<td>9.30</td>
<td>9.10</td>
<td>1.0</td>
<td>5.5</td>
<td>11.0</td>
<td>9.0</td>
<td>250</td>
<td>Yellow</td>
<td></td>
</tr>
<tr>
<td>C770100</td>
<td>9.80</td>
<td>10.40</td>
<td>10.10</td>
<td>1.2</td>
<td>6.3</td>
<td>13.5</td>
<td>10.5</td>
<td>250</td>
<td>Yellow</td>
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</tr>
<tr>
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<td>11.00</td>
<td>10.70</td>
<td>1.2</td>
<td>6.3</td>
<td>14.8</td>
<td>11.4</td>
<td>250</td>
<td>White</td>
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<td>11.60</td>
<td>12.30</td>
<td>11.90</td>
<td>1.5</td>
<td>7.3</td>
<td>16.4</td>
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</tr>
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<td>13.30</td>
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<td>7.3</td>
<td>17.0</td>
<td>14.0</td>
<td>250</td>
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<td>18.70</td>
<td>18.20</td>
<td>1.9</td>
<td>9.6</td>
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<td>17.7</td>
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<td>24.00</td>
<td>23.10</td>
<td>2.2</td>
<td>10.7</td>
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<td>31.5</td>
<td>26.5</td>
<td>100</td>
<td>White</td>
<td></td>
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</tbody>
</table>

For Self Clamping Double Wire Clips, please enquire.
We would be happy to offer kits to your specification, please enquire.
Ear Clips Series 74

The Double, 2 ear or ‘O’ clip is an inexpensive, easy assembly clip which has many applications in addition to its normal role of sealing hoses against loss of liquid, air or gases. Additionally we offer the 1 ear clip which though slightly more limited in scope, offers an excellent solution to certain clamping applications. Both types are available in mild steel zinc plated and stainless steel as standard.

Advantages:

• All burrs/sharp edges removed to prevent damage to application.
• Security, i.e. tamper proof, cost efficient.
• Speed & ease of assembly, aesthetically pleasing/compact & lightweight.
• Sealing pressure consistency, just as effective on metal to metal connections.

They have a wide application in manufacturing industries including:

• Agriculture
• Mining & construction
• Military
• Boat builders & aircraft
• Gas & chemical industries
• Medical equipment
• Welding equipment
• Commercial vehicle manufacturers
• Heating & ventilation
• Compressed air systems
• Caravan manufacturers
• Building & plumbing
• Plant spray equipment
• Vending machines

Ear clip pincers are most effective for fitting and removing clips.

Closure information:
Correctly closing the clip is paramount to achieve optimum sealing performance.

Selection of the correct size of clip is essential, choose a size approximately 0.4mm above the hose assembly.
The same principle applies to the single ear clip.
Ear Clips Series 74

Double Ear

<table>
<thead>
<tr>
<th>Klamp part</th>
<th>Size range</th>
<th>A (mm)</th>
<th>B (mm)</th>
<th>C (mm)</th>
<th>D (mm)</th>
<th>E (mm)</th>
<th>Box qty</th>
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<tbody>
<tr>
<td>A740050-007</td>
<td>5-7 1/4&quot;</td>
<td>7.3</td>
<td>4.3</td>
<td>6.0</td>
<td>11.0</td>
<td>0.6</td>
<td>200</td>
</tr>
<tr>
<td>A740070-009</td>
<td>7-9 5/16&quot;</td>
<td>9.3</td>
<td>4.8</td>
<td>6.0</td>
<td>13.5</td>
<td>0.8</td>
<td>200</td>
</tr>
<tr>
<td>A740090-011</td>
<td>9-11 3/8&quot;</td>
<td>11.3</td>
<td>5.3</td>
<td>6.5</td>
<td>17.0</td>
<td>0.8</td>
<td>200</td>
</tr>
<tr>
<td>A740100-012</td>
<td>10-12 7/16&quot;</td>
<td>12.3</td>
<td>5.5</td>
<td>6.5</td>
<td>18.0</td>
<td>0.9</td>
<td>200</td>
</tr>
<tr>
<td>A740110-013</td>
<td>11-13 1/2&quot;</td>
<td>13.3</td>
<td>5.8</td>
<td>6.5</td>
<td>19.0</td>
<td>0.9</td>
<td>200</td>
</tr>
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<td>6.3</td>
<td>7.0</td>
<td>21.5</td>
<td>1.0</td>
<td>100</td>
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<tr>
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<td>6.6</td>
<td>7.0</td>
<td>24.0</td>
<td>1.2</td>
<td>100</td>
</tr>
<tr>
<td>A740150-018</td>
<td>15-18 5/8&quot;</td>
<td>18.5</td>
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<td>7.5</td>
<td>25.0</td>
<td>1.2</td>
<td>100</td>
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<td>27.0</td>
<td>1.2</td>
<td>100</td>
</tr>
<tr>
<td>A740180-021</td>
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<td>7.9</td>
<td>8.0</td>
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<td>1.2</td>
<td>100</td>
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<tr>
<td>A740200-023</td>
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<td>31.0</td>
<td>1.3</td>
<td>100</td>
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<tr>
<td>A740220-025</td>
<td>22-25 15/16&quot;</td>
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<td>9.1</td>
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<td>33.0</td>
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<td>100</td>
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<tr>
<td>A740230-027</td>
<td>23-27 1&quot;</td>
<td>27.5</td>
<td>9.4</td>
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<td>50</td>
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<td>28-31 1.3/16&quot;</td>
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<td>42.0</td>
<td>1.4</td>
<td>50</td>
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<td>34-37 1.3/8&quot;</td>
<td>37.5</td>
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<td>43.5</td>
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</table>

**Mild Steel Zinc Plated**

**Series A74**
Manufactured according to: DIN 2393 C Rst 34-2-GBK.
Material: W1 Mild steel.
Chrome free zinc plated
Minimum thickness 8-10 microns.

**Stainless Steel**

**Series D74**
Manufactured according to: DIN 2463.
Material: W4 Stainless steel.
AISI 304.
**Ear Clips Series 74**

**Single Ear**

<table>
<thead>
<tr>
<th>Klamp part</th>
<th>Size range</th>
<th>A (mm)</th>
<th>B (mm)</th>
<th>C (mm)</th>
<th>D (mm)</th>
<th>E (mm)</th>
<th>Box qty</th>
</tr>
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<tbody>
<tr>
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<td>7-9</td>
<td>9.3</td>
<td>5.5</td>
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<td>13.0</td>
<td>0.8</td>
<td>100</td>
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<tr>
<td>C740080-010</td>
<td>8-10</td>
<td>10.3</td>
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<td>14.0</td>
<td>0.8</td>
<td>100</td>
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<tr>
<td>C740090-011</td>
<td>9-11</td>
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<td>6.5</td>
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<td>0.8</td>
<td>100</td>
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<td>C740100-012</td>
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**Series C74**

Manufactured according to: DIN 2393 C Rst 34-2-GBK.

Material:
W1 Mild steel
Chrome free zinc plated.
Minimum thickness 8-10 microns.

<table>
<thead>
<tr>
<th>Klamp part</th>
<th>Size range</th>
<th>A (mm)</th>
<th>B (mm)</th>
<th>C (mm)</th>
<th>D (mm)</th>
<th>E (mm)</th>
<th>Box qty</th>
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<td>13.0</td>
<td>0.8</td>
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<tr>
<td>E740080-010</td>
<td>8-10</td>
<td>10.3</td>
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<td>50</td>
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<td>E740090-011</td>
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<td>6.5</td>
<td>6.5</td>
<td>15.0</td>
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<tr>
<td>E740100-012</td>
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<td>0.8</td>
<td>50</td>
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<td>0.8</td>
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<td>E740120-014</td>
<td>12-14</td>
<td>14.3</td>
<td>8.0</td>
<td>7.0</td>
<td>18.5</td>
<td>0.8</td>
<td>50</td>
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<tr>
<td>E740130-015</td>
<td>13-15</td>
<td>15.3</td>
<td>8.0</td>
<td>7.0</td>
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<td>E740140-016</td>
<td>14-16</td>
<td>16.3</td>
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<td>E740150-017</td>
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<td>17.5</td>
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<td>E740160-018</td>
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<tr>
<td>E740180-020</td>
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<td>50</td>
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</tbody>
</table>

**Series E74**

Manufactured according to: DIN 2463.

Material:
W4 Stainless steel AISI 304.
Ear Clips Series 74

Single Ear with insert size

The single ear with insert has similar properties to the single ear clip but is improved due to the deployment of the ring. It is designed for clamping which involves soft/hard rubber or plastic materials. Used widely within the Automotive Industry, medical and with electrical & electronic components.

Why the insert?
Ease of compression when clamping soft materials - A small pressing stamped in the stainless steel insert ring ensures it maintains its shape while preventing the item you are clamping from extruding into the ear.

Further advantages over the single ear clip are: Insert bridges the gap below the clips ear & curled edges of the insert further protects the hose.

<table>
<thead>
<tr>
<th>Size range</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
<th>Box qty</th>
<th>Part Numbers</th>
</tr>
</thead>
<tbody>
<tr>
<td>7.5-8.5</td>
<td>9.3</td>
<td>5.5</td>
<td>6.0</td>
<td>13.0</td>
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<td>8.5</td>
<td>7.8</td>
<td>100</td>
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<td>8.0-9.5</td>
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<td>9.5</td>
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<td></td>
<td></td>
<td>M74301 S74402</td>
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<td>11.3</td>
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<td>6.5</td>
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<td></td>
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<td></td>
<td></td>
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**Series M74:**
Material: Mild Steel.
Finish: Zinc plated CR3.
Inner ring: Stainless 301.

**Series S74:**
Material: Stainless W4 AISI 304.
Inner ring: Stainless 301.
Ear Clips Series 74

**Ear Plus**

**Series G74**

304 Stainless Steel Ear Plus clamps are an economical solution for tamperproof applications. These are normally used as an alternative to the Single Ear Clamp offering a wider diameter range of all stainless construction.

They have a 7mm bandwidth with 0.6mm thickness. Sizes available are 12.3 to 69.5mm. Current stock availability is (mm): 13.3, 15.7, 16.2, 17.5, 18.5, 19.2, 24.1, 28.5, 30.1, 31.6, 36.1, 44.0.

This is a new clamp for us so that we are adding sizes as demand grows.

**Tool Clips**

**Series 27 & 28**

Our Holdit range is made in two stock types:
- Narrow Base (also known as open) - Series 27.
- Wide Base (also known as closed) - Series 28.

Materials:
- High Carbon Spring Steel Strip.
- Stainless Steel to order.

Finishes available:
- Bright zinc plated (as standard).
- Black or White powder coated.

**Narrow Base**

<table>
<thead>
<tr>
<th>Klamp part</th>
<th>Size (Metric)</th>
<th>Size (Inch)</th>
<th>H</th>
<th>BA</th>
<th>Box Quantity</th>
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<tbody>
<tr>
<td>A270060</td>
<td>6.35</td>
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<td>250</td>
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<tr>
<td>A270100</td>
<td>9.53</td>
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<td>8</td>
<td></td>
<td>250</td>
</tr>
<tr>
<td>A270120</td>
<td>12.7</td>
<td>1/2</td>
<td>6</td>
<td></td>
<td>250</td>
</tr>
<tr>
<td>A270160</td>
<td>15.88</td>
<td>5/8</td>
<td>4</td>
<td></td>
<td>250</td>
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<tr>
<td>A270200</td>
<td>19.05</td>
<td>3/4</td>
<td>4</td>
<td>100</td>
<td>W</td>
</tr>
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<td>A270250</td>
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<td>4</td>
<td>100</td>
<td>W</td>
</tr>
<tr>
<td>A270280</td>
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<td>100</td>
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</tr>
<tr>
<td>A270320</td>
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<td>4</td>
<td>100</td>
<td>W</td>
</tr>
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<td>A270380</td>
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<td>50</td>
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<td>A270450</td>
<td>44.45</td>
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<td>5</td>
<td>50</td>
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<td>A270500</td>
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<td>A270630</td>
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<td>3/16</td>
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</tr>
</tbody>
</table>

Note:
- PC*: Polycoated clips currently available at short notice, W: white, B: black.
- H: Clips up to 50mm have one fixing hole, larger sizes have two.
Ear Clips Series 27 & 28 and Assortments

Tool Clips cont.
Wide Base

<table>
<thead>
<tr>
<th>Pinco Part</th>
<th>Size Metric</th>
<th>Size Inch</th>
<th>H BA</th>
<th>Box Quantity</th>
<th>PC*</th>
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</thead>
<tbody>
<tr>
<td>A280060</td>
<td>6.35</td>
<td>1/4</td>
<td>8</td>
<td>100</td>
<td></td>
</tr>
<tr>
<td>A280100</td>
<td>9.53</td>
<td>3/8</td>
<td>8</td>
<td>100</td>
<td></td>
</tr>
<tr>
<td>A280120</td>
<td>12.7</td>
<td>1/2</td>
<td>6</td>
<td>100</td>
<td>W</td>
</tr>
<tr>
<td>A280160</td>
<td>15.88</td>
<td>5/8</td>
<td>4</td>
<td>100</td>
<td>B</td>
</tr>
<tr>
<td>A280200</td>
<td>19.05</td>
<td>3/4</td>
<td>4</td>
<td>100</td>
<td>B</td>
</tr>
<tr>
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<td>1</td>
<td>4</td>
<td>100</td>
<td>W/B</td>
</tr>
<tr>
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<td>4</td>
<td>100</td>
<td>W</td>
</tr>
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<td>100</td>
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</tr>
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<td>50</td>
<td>W</td>
</tr>
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<td>1 3/4</td>
<td>5</td>
<td>50</td>
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</tr>
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</table>

Series A28

Note:
PC*: Polycoated clips currently available at short notice, W: white, B: black.
H: Clips up to 50mm have one fixing hole, larger sizes have two.

Pincers and Assortments

Pincers

- End closing pincers
  - Description: End closing pincers
  - Part No.: 50221

- Side and end closing pincers
  - Description: Side and end closing pincers
  - Part No.: 50217

Assortments

<table>
<thead>
<tr>
<th>Description</th>
<th>Part No.</th>
<th>Ave.</th>
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<tbody>
<tr>
<td>Mild steel double ear clips</td>
<td>10148</td>
<td>75</td>
</tr>
<tr>
<td>Mild steel double ear clips &amp; end closing pincers</td>
<td>40400</td>
<td>137</td>
</tr>
<tr>
<td>Mild steel double ear clips &amp; end closing pincers</td>
<td>55455</td>
<td>168</td>
</tr>
<tr>
<td>Tool Clips, Wide Base, carbon steel zinc plated, 1/4&quot; to 1.1/2&quot;</td>
<td>54439</td>
<td>124</td>
</tr>
<tr>
<td>Tool Clips, Narrow Base, carbon steel zinc plated, 3/8&quot; to 1.1/2&quot;</td>
<td>54454</td>
<td>160</td>
</tr>
<tr>
<td>Tool Clips, Narrow Base, carbon steel zinc plated, 3/8&quot; to 1.1/2&quot; (bagged)</td>
<td>50449</td>
<td>100</td>
</tr>
</tbody>
</table>

Please enquire for stainless steel versions and single ear with or without insert. We would be happy to offer kits to your specification, please enquire.
Introduction:

Banding & Ties

From making unusual sized hose clamps to strapping signs to lamp posts BANDING & TIES are the “get out of jail free” card in the pack, and every organisation would do well to have access to one of the range for emergency purposes.

This was the original thinking behind many of the designs but most have now found an established use setting them in a category of their own.

We also offer a “cut to length” service together with additional end working for special applications.

The ties have moved on from the original plastic version though these have got longer and stronger. But with the introduction of the stainless tie a wide application field has been revealed. Care must be taken when fitting these standard ties as once fitted they can only be removed by cutting them off, though we do offer a few sizes of re-useable versions.
Banding Products

Plain Banding

Heavy Duty Long Length Stainless:

<table>
<thead>
<tr>
<th>Klamp part</th>
<th>Band width</th>
<th>Thickness</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Inch</td>
<td>Metric</td>
</tr>
<tr>
<td>Banding</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PD5901</td>
<td>3/8&quot;</td>
<td>10mm</td>
</tr>
<tr>
<td>PD5902</td>
<td>1/2&quot;</td>
<td>13mm</td>
</tr>
<tr>
<td>PD5903</td>
<td>5/8&quot;</td>
<td>16mm</td>
</tr>
<tr>
<td>PD5904</td>
<td>3/4&quot;</td>
<td>19mm</td>
</tr>
<tr>
<td>Buckles</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PD5901/1</td>
<td>3/8&quot;</td>
<td>10mm</td>
</tr>
<tr>
<td>PD5902/1</td>
<td>1/2&quot;</td>
<td>13mm</td>
</tr>
<tr>
<td>PD5903/1</td>
<td>5/8&quot;</td>
<td>16mm</td>
</tr>
<tr>
<td>PD5904/1</td>
<td>3/4&quot;</td>
<td>19mm</td>
</tr>
</tbody>
</table>

We can offer a cut to length service if required.

The buckles are sold separately to enable you to balance stock.

Buckles:

These are designed to seal both single and double bands.

Tensioning Tool – Part PD5900

- A strong forged tool giving powerful tension.
- Banding is supplied in 100’ (30 metre) coils in a dispensing carton as standard.
- Material is 304 grade Stainless Steel.
- Where the permanency of the above banding is not required we offer a range of Quick Release perforated band clamps which are very adaptable, see page 24.
Another form of Banding are our “CLIPMAKER KITS”. Whilst being designed to make unusual sized hose clamps they do also lend themselves to many strapping applications.

Make your own clamps from 10-800mm diameter - each kit is supplied in its own carry case.

<table>
<thead>
<tr>
<th>Klamp part</th>
<th>Band Width</th>
<th>Banding</th>
<th>Housing</th>
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<tbody>
<tr>
<td>PA7901</td>
<td>8mm</td>
<td>3</td>
<td>430 St.St. 8  Steel ZP</td>
</tr>
<tr>
<td>PD7901</td>
<td>8mm</td>
<td>3</td>
<td>304 St.St. 8  304 St.St.</td>
</tr>
<tr>
<td>PA7902</td>
<td>8mm</td>
<td>25</td>
<td>430 St.St. 50  Steel ZP</td>
</tr>
<tr>
<td>PD7902</td>
<td>8mm</td>
<td>25</td>
<td>304 St.St. 50  304 St.St</td>
</tr>
<tr>
<td>PA7903</td>
<td>13mm</td>
<td>3</td>
<td>430 St.St. 6  Steel ZP</td>
</tr>
<tr>
<td>PD7903</td>
<td>13mm</td>
<td>3</td>
<td>304 St.St. 6  304 St.St</td>
</tr>
<tr>
<td>PA7904</td>
<td>13mm</td>
<td>25</td>
<td>430 St.St. 50  Steel ZP</td>
</tr>
<tr>
<td>PD7904</td>
<td>13mm</td>
<td>25</td>
<td>304 St.St. 50  304 St.St</td>
</tr>
</tbody>
</table>

Ties
Nylon Saddle Mounts
The saddle mount is part of our “TIES” range and greatly increases the utility of the tie.

• Bagged in 100 pieces.
• Available in black or natural high quality Nylon ‘66’.

<table>
<thead>
<tr>
<th>Klamp part</th>
<th>Max tie width</th>
<th>Screw Size</th>
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<tbody>
<tr>
<td>C950010</td>
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<td>C950020</td>
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<td>M5</td>
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</table>
Banding Products

Nylon Ties

Series A95

Our Nylon Ties are available in many colours though black and neutral are our main stocking programme.

<table>
<thead>
<tr>
<th>Klamp Part</th>
<th>Colour</th>
<th>Band Width</th>
<th>Overall Length</th>
<th>Box Qty</th>
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<td>Neutral</td>
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<td>A950025-1002</td>
<td>Black</td>
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<td>100</td>
<td>2000</td>
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<tr>
<td>A950025-1003</td>
<td>Blue</td>
<td>2.5</td>
<td>100</td>
<td>2000</td>
</tr>
<tr>
<td>A950025-2001</td>
<td>Neutral</td>
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<td>200</td>
<td>1000</td>
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<td>A950025-2002</td>
<td>Black</td>
<td>2.5</td>
<td>200</td>
<td>1000</td>
</tr>
<tr>
<td>A950036-1401</td>
<td>Neutral</td>
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<td>140</td>
<td>1000</td>
</tr>
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<td>A950036-1402</td>
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<td>A950036-3001</td>
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</table>

Material: High quality Nylon ‘66’. All dimensions in mm. Assortments available.
Banding Products

Stainless Ties

Series S95

Whilst most of us are familiar with the Nylon Tie there has been a significant shift to the Stainless Steel Tie in recent times due to its strength and temperature toleration.

Steel ties have a ball-lock retention and care must be taken upon installation as once assembled they are not easily removed. This of course has a significant advantage in applications where a “Tamper Proof” element is useful.

Sizes available:

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<th>Klamp part</th>
<th>Size (mm)</th>
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</table>

Material: 316 Stainless Steel.

Please enquire as this is part of our growing range.

Tensioning/cut off tools are available:

S95001: for Steel ties.

N95001: for Nylon ties.
Banding Products

Adjustable and re-usable Multi Clip

Series B95

Our multi-purpose Multi Clip is used in Industry, Motoring, Home, Fishing, Gardening, Camping, Sailing etc. It can be tightened to any regular or irregular diameter between 1cm (1/2”) and 10cm (4”).

Technical specification:

- Maximum tightening force: 100 kilograms (220 lbs).
- Breaking strain: 100 kilograms (220 lbs).
- Temperature range: -20°C to 100°C.

This clip can be used at temperatures up to 150°C but between 100-150°C there is a reduction in tensile strength.

How does it work?

The Multi clip consists of 3 basic components:

- Threaded nylon strap.
- Collar.
- Tightening nut.

Simply slip the assembled fastener over object(s) to be secured and tighten up the locking nut until finger tight.

Where it is impossible to apply assembled, unscrew nut completely off the strap, then pull one end of the strap free of the collar. Introduce strap around the object(s), re-insert the loose end of strap into collar, replace nut and tighten fully.

Information:

- Klamp part: B950100-100.
- Note: Other colours can be produced to order.

Klamp part: B950100-100.
Material: Nylon ‘66’, 10mm (3/8”) wide.
Note: Other colours can be produced to order.
Where a single Multi clip would not be large enough, two or more clips may be combined.

To do this:
- Remove nut and detach one side of the strap from the collar.
- Repeat this operation on a second clip (or more as required).
- Repeat loose end of one strap into collar of another Multi clip.
- Relocate loose end of one strap into collar of another Multi clip.
- Repeat operation if three or more clips are being joined.
- Relocate remaining loose strap end in the vacant position on final collar, thus creating a continuous loop of two or more Multi clips.
- Replace all nuts onto collars.
- Hand tighten each nut on the completed loop.

Note:
- Sharp edges should be padded to prevent cutting of the strap when tightening.
- For applications such as attaching hose pipes to taps where extra sealing capacity is required, this can be achieved by double looping the strap around the object.
- Product is supplied unassembled.
We offer a wide array of Selected Assortments from stock, which include:

- Pins
- Circlips
- O Rings
- First Aid
- Rivets
- Washers
- Nuts
- Push On Fixings
- Seals
- Grease Nipples
- Keys
- Pipe Fittings
- Electrical
- Socket Screws
- Springs

Empty plastic assortment boxes are available in a multitude of compartment configurations from 6 to 18 and some with the facility of being adjustable.

All kits are shipped in an outer wrap to aid safe transportation.

Please enquire for our comprehensive Selected Assortment catalogue.
One of the production machines used for the Spiral wrap hose clamp (page 14). This machine has made the helix layout of the clamp achievable within economic production parameters.