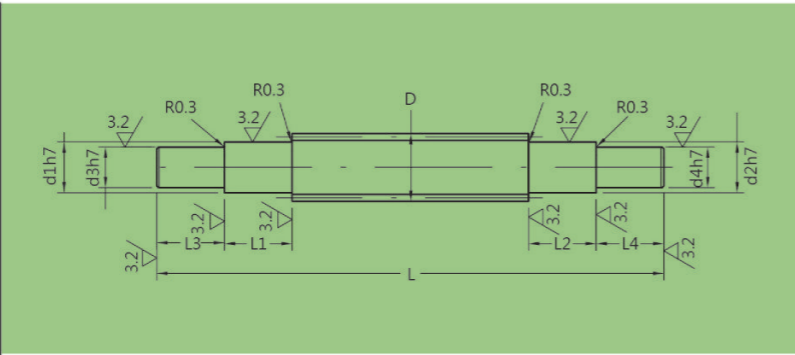


Trapezoidal Screw Threads - Both Ends Double Stepped-Right-hand Thread
30度梯形螺桿-雙邊台階型-右螺牙

HW-TSP009

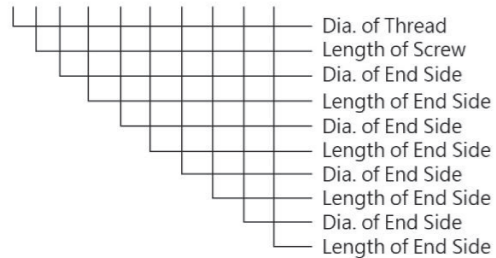


| Type 項次 | Material 材質 | Surface Treatment 表面處理 | Delivery 交貨日 |
|-------------|-------------|------------------------|-----------------|
| HW-TSP009-A | S45C 中碳鋼 | - | 10 Working Days |
| HW-TSP009-B | | Blackening 染黑 | 10 個工作日 |

| Type | D | L (u:1mm) | L1/L2/L3/L4 (u:1mm) | d1/d2/d3 | d4 (u:1mm) | Pitch | |
|----------------------------|----------|-------------|---|------------------------|--------------|-------------|---|
| HW-TSP009-A HW-TSP009-B | 12 | 80~1000 | *When d1,d2,d3,d4≤9 L1≤d1x5 L2≤d2x5 L3≤d3x5 L4≤d4x5 | 7/8/9 | d2/2≤d4≤d2-1 | 2 | |
| | 14 | 80~1000 | | 8/9/10 | | 3 | |
| | 16 | 100~1200 | | 2≤L1≤d1x7 2≤L2≤d2x7 | | 9/10/12 | 3 |
| | 18 | 150~1200 | | 2≤L3≤d3x7 | | 9/10/12 | 4 |
| | 20 | 150~1200 | | 2≤L4≤d4x7 | | 10/12/14/15 | 4 |
| | 22 | 150~1200 | | 10/12/14/15 | | 5 | |
| | 25 | 150~1200 | | 12/14/15/16/17 | | 5 | |
| | 28 | 150~1200 | | 14/15/16/17/20 | | 5 | |
| | 32 | 200~1200 | | 14/15/16/17/20/25 | | 6 | |
| | 36 | 200~1200 | | 17/20/25 | | 6 | |
| 40 | 200~1200 | 20/25/30 | 6 | | | | |
| 50 | 200~1200 | 25/30/35/40 | 8 | | | | |

Order Ex. 訂購範例

HW-TSP009-D-L-d1-L1-d2-L2-d3-L3-d4-L4



螺紋尺寸
螺桿長度
軸端尺寸
軸端長度
軸端尺寸
軸端長度
軸端尺寸
軸端長度
軸端尺寸
軸端長度
軸端尺寸
軸端長度

Trapezoidal Screw Threads -Both Ends Double Stepped-Right-hand Thread
30度梯形螺桿-雙邊台階型-右螺牙

| Alterations 追加加工名稱 | Description 加工說明 | Order Ex. 訂購範例 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------|--|---|---------|-----------|---------|-------|--------|-------|---------|-------|-----------|--------|-----------|--------|--------------|-------|-----------------|---|--------------------|-----------|-----------------------|----|-----------------------------|---|---------|----|---------|-------|-----------|---|---|----|------|-------|----|--------|------|-----------|-------|----|----|------|---|----|----|---|----|----|-------|-----|--|
| A | Flat Machining 平面追加加工。 | HW-TSP009-12-80-9-10-9-10-7-10-7-10-Ad3 or Ad4-3(L5)-5(L6)-1(L7) Flat Machining at the d3 or d4 Side. 在d3或d4端進行平面追加加工。 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| B | Retaining Ring Groove 扣環溝槽追加加工。 <table border="1"> <tr> <th>d3(d4)</th> <th>e</th> <th>m</th> <th>n</th> </tr> <tr> <td>7</td> <td>4</td> <td>0.7</td> <td rowspan="3">n±1.2</td> </tr> <tr> <td>8</td> <td>5</td> <td>+0.075</td> </tr> <tr> <td>9</td> <td>6</td> <td>0</td> </tr> <tr> <td>10</td> <td>9.6</td> <td>0</td> <td rowspan="10">n±1.5</td> </tr> <tr> <td>12</td> <td>11.5</td> <td>0</td> </tr> <tr> <td>14</td> <td>13.4</td> <td>0</td> </tr> <tr> <td>15</td> <td>14.3</td> <td>-0.11</td> </tr> <tr> <td>16</td> <td>15.2</td> <td>0</td> </tr> <tr> <td>17</td> <td>16.2</td> <td>0</td> </tr> <tr> <td>20</td> <td>19</td> <td>1.35</td> </tr> <tr> <td>25</td> <td>23.9</td> <td>0</td> </tr> <tr> <td>30</td> <td>28.6</td> <td>-0.21</td> </tr> <tr> <td>35</td> <td>33</td> <td>0</td> </tr> <tr> <td>40</td> <td>38</td> <td>-0.25</td> <td>n±2</td> </tr> </table> | d3(d4) | e | m | n | 7 | 4 | 0.7 | n±1.2 | 8 | 5 | +0.075 | 9 | 6 | 0 | 10 | 9.6 | 0 | n±1.5 | 12 | 11.5 | 0 | 14 | 13.4 | 0 | 15 | 14.3 | -0.11 | 16 | 15.2 | 0 | 17 | 16.2 | 0 | 20 | 19 | 1.35 | 25 | 23.9 | 0 | 30 | 28.6 | -0.21 | 35 | 33 | 0 | 40 | 38 | -0.25 | n±2 | HW-TSP009-12-80-9-10-9-10-7-10-7-10-Bd3 or Bd4-6(L8) Retaining Ring Groove at the d3 or d4 Side. 在d3或d4端進行扣環溝槽追加加工。 |
| d3(d4) | e | m | n | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | 4 | 0.7 | n±1.2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | 5 | +0.075 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | 6 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | 9.6 | 0 | n±1.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12 | 11.5 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 14 | 13.4 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 | 14.3 | -0.11 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 16 | 15.2 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 17 | 16.2 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 20 | 19 | 1.35 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 25 | 23.9 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 30 | 28.6 | -0.21 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 35 | 33 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 40 | 38 | -0.25 | n±2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| C | Wrench Flats 二面寬度追加加工。 | HW-TSP009-12-80-9-10-9-10-7-10-7-10-Cd3 or Cd4-3(L5)-5(L6)-5(L7) Wrench Flats at the d3 or d4 Side. 在d3或d4端進行二面寬度追加加工。 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| E | Coarse Tapping 攻牙孔追加加工。 <table border="1"> <tr> <th>d3(d4)</th> <th>M</th> </tr> <tr> <td>5/6</td> <td>3</td> </tr> <tr> <td>7/8</td> <td>3/4</td> </tr> <tr> <td>9/10</td> <td>3/4/5</td> </tr> <tr> <td>11/12</td> <td>3/4/5/6</td> </tr> <tr> <td>13-15</td> <td>3/4/5/6/8</td> </tr> <tr> <td>16-18</td> <td>3/4/5/6/8/10</td> </tr> <tr> <td>19-24</td> <td>3/4/5/6/8/10/12</td> </tr> <tr> <td>25-30</td> <td>3/4/5/6/8/10/12/16</td> </tr> <tr> <td>31-39</td> <td>3/4/5/6/8/10/12/16/20</td> </tr> <tr> <td>40</td> <td>3/4/5/6/8/10/12/16/20/24/30</td> </tr> </table> | d3(d4) | M | 5/6 | 3 | 7/8 | 3/4 | 9/10 | 3/4/5 | 11/12 | 3/4/5/6 | 13-15 | 3/4/5/6/8 | 16-18 | 3/4/5/6/8/10 | 19-24 | 3/4/5/6/8/10/12 | 25-30 | 3/4/5/6/8/10/12/16 | 31-39 | 3/4/5/6/8/10/12/16/20 | 40 | 3/4/5/6/8/10/12/16/20/24/30 | HW-TSP009-12-80-9-10-9-10-7-10-7-10-Ed3 or Ed4-M3 Coarse Tapping at the d3 or d4 Side. 在d3或d4端進行攻牙孔追加加工。 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| d3(d4) | M | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5/6 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7/8 | 3/4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9/10 | 3/4/5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11/12 | 3/4/5/6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13-15 | 3/4/5/6/8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 16-18 | 3/4/5/6/8/10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 19-24 | 3/4/5/6/8/10/12 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 25-30 | 3/4/5/6/8/10/12/16 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 31-39 | 3/4/5/6/8/10/12/16/20 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 40 | 3/4/5/6/8/10/12/16/20/24/30 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| F | Square Chamfering 四角面追加加工。 <table border="1"> <tr> <th>d3 or d4</th> <th>L6</th> </tr> <tr> <td>6-10</td> <td>5-8</td> </tr> <tr> <td>11-14</td> <td>8-10</td> </tr> <tr> <td>15-19</td> <td>10-14</td> </tr> <tr> <td>20-25</td> <td>14-20</td> </tr> <tr> <td>26-30</td> <td>19-24</td> </tr> <tr> <td>31-35</td> <td>22-28</td> </tr> <tr> <td>36-40</td> <td>26-30</td> </tr> </table> | d3 or d4 | L6 | 6-10 | 5-8 | 11-14 | 8-10 | 15-19 | 10-14 | 20-25 | 14-20 | 26-30 | 19-24 | 31-35 | 22-28 | 36-40 | 26-30 | HW-TSP009-12-80-9-10-9-10-7-10-7-10-Fd3 or Fd4-5(L5)-5(L6) Square Chamfering at the d3 or d4 Side. 在d3或d4端進行四角面追加加工。 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| d3 or d4 | L6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6-10 | 5-8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11-14 | 8-10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15-19 | 10-14 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 20-25 | 14-20 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 26-30 | 19-24 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 31-35 | 22-28 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 36-40 | 26-30 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| G | Threaded 外螺牙追加加工。 <table border="1"> <tr> <th>d1(d2)</th> <th>MxPitch</th> <th>d1(d2)</th> <th>MxPitch</th> </tr> <tr> <td>8</td> <td>M8x1.0</td> <td>20</td> <td>M20x1.0</td> </tr> <tr> <td>10</td> <td>M10x1.0</td> <td>25</td> <td>M25x1.5</td> </tr> <tr> <td>12</td> <td>M12x1.0</td> <td>30</td> <td>M30x1.5</td> </tr> <tr> <td>14</td> <td>M14x1.0</td> <td>35</td> <td>M35x1.5</td> </tr> <tr> <td>15</td> <td>M15x1.0</td> <td>40</td> <td>M40x1.5</td> </tr> <tr> <td>17</td> <td>M17x1.0</td> <td></td> <td></td> </tr> </table> | d1(d2) | MxPitch | d1(d2) | MxPitch | 8 | M8x1.0 | 20 | M20x1.0 | 10 | M10x1.0 | 25 | M25x1.5 | 12 | M12x1.0 | 30 | M30x1.5 | 14 | M14x1.0 | 35 | M35x1.5 | 15 | M15x1.0 | 40 | M40x1.5 | 17 | M17x1.0 | | | HW-TSP009-12-80-9-10-9-10-7-10-7-10-Gd1 or Gd2-10(L5) Threaded at the d1 or d2 Side. 在d1或d2端進行外螺牙追加加工。 | | | | | | | | | | | | | | | | | | | | | |
| d1(d2) | MxPitch | d1(d2) | MxPitch | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | M8x1.0 | 20 | M20x1.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | M10x1.0 | 25 | M25x1.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12 | M12x1.0 | 30 | M30x1.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 14 | M14x1.0 | 35 | M35x1.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 | M15x1.0 | 40 | M40x1.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 17 | M17x1.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| H | Keyway 鍵槽追加加工。 <table border="1"> <tr> <th>d1/d2/d3/d4</th> <th>b1</th> <th>TOL</th> <th>t1</th> <th>TOL</th> </tr> <tr> <td>6/7</td> <td>2</td> <td>-0.004</td> <td>1.2</td> <td rowspan="2">+0.1 0</td> </tr> <tr> <td>8-10</td> <td>3</td> <td>-0.029</td> <td>1.8</td> </tr> <tr> <td>11/12</td> <td>4</td> <td>0</td> <td>2.5</td> <td rowspan="2">+0.1 0</td> </tr> <tr> <td>13-17</td> <td>5</td> <td>-0.030</td> <td>3.0</td> </tr> <tr> <td>18-22</td> <td>6</td> <td>0</td> <td>3.5</td> <td rowspan="2">+0.2 0</td> </tr> <tr> <td>23-30</td> <td>8</td> <td>0</td> <td>4.0</td> </tr> <tr> <td>31-38</td> <td>10</td> <td>-0.036</td> <td>5.0</td> <td rowspan="2">+0.2 0</td> </tr> <tr> <td>39/40</td> <td>12</td> <td>0</td> <td>5.0</td> </tr> </table> | d1/d2/d3/d4 | b1 | TOL | t1 | TOL | 6/7 | 2 | -0.004 | 1.2 | +0.1 0 | 8-10 | 3 | -0.029 | 1.8 | 11/12 | 4 | 0 | 2.5 | +0.1 0 | 13-17 | 5 | -0.030 | 3.0 | 18-22 | 6 | 0 | 3.5 | +0.2 0 | 23-30 | 8 | 0 | 4.0 | 31-38 | 10 | -0.036 | 5.0 | +0.2 0 | 39/40 | 12 | 0 | 5.0 | HW-TSP009-12-80-9-10-9-10-7-10-7-10-Hd1/Hd2/Hd3 or Hd4-5(L5)-3(L6) Keyway at the d1/d2/d3 or d4 Side. 在d1/d2/d3或d4端進行鍵槽追加加工。 | | | | | | | | |
| d1/d2/d3/d4 | b1 | TOL | t1 | TOL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6/7 | 2 | -0.004 | 1.2 | +0.1 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8-10 | 3 | -0.029 | 1.8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11/12 | 4 | 0 | 2.5 | +0.1 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13-17 | 5 | -0.030 | 3.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 18-22 | 6 | 0 | 3.5 | +0.2 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 23-30 | 8 | 0 | 4.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 31-38 | 10 | -0.036 | 5.0 | +0.2 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 39/40 | 12 | 0 | 5.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |