



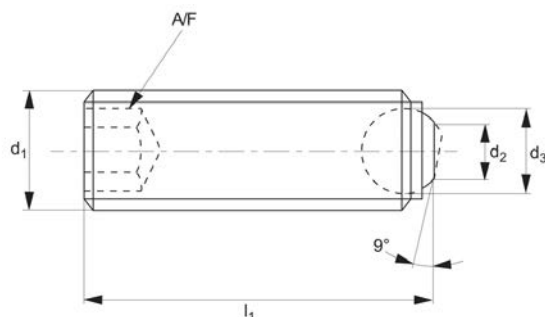
# Thrust Screws - Ball Ended

headless - flat-faced ball - metal

## Thrust Screws



34043



### Material

#### Steel type-

Body: steel, heat-treated, 1200 ±100 N/mm<sup>2</sup>.

Ball: ball bearing steel, hardened.

#### Stainless steel type-

Body: stainless steel (AISI 303, 1.4305).

Ball: stainless steel, hardened.

### Technical Notes

For clamping, tightening or supporting surfaces that are not exactly parallel.

Max. temperature 250°C.

### Tips

Ball not secured against rotation. It is

possible for the flat-faced ball to flip and expose the spherical face of the ball. For other types see following pages.

### Important Notes

\*Max. static load relates to steel version only.

| Order No.   | Material | Ball type   | d <sub>1</sub> | d <sub>2</sub> | d <sub>3</sub> | l <sub>1</sub> | A/F | Static load<br>kN<br>max. | Weight<br>g |
|-------------|----------|-------------|----------------|----------------|----------------|----------------|-----|---------------------------|-------------|
| 34043.W0542 | Steel    | Flat, Plain | M 4            | 1.8            | 2.5            | 5.6            | 2.0 | 3.5                       | 0.3         |
| 34043.W0543 | Steel    | Flat, Plain | M 4            | 1.8            | 2.5            | 7.6            | 2.0 | 3.5                       | 0.6         |
| 34043.W0544 | Steel    | Flat, Plain | M 4            | 1.8            | 2.5            | 9.6            | 2.0 | 3.5                       | 0.5         |
| 34043.W0545 | Steel    | Flat, Plain | M 4            | 1.8            | 2.5            | 11.6           | 2.0 | 3.5                       | 0.9         |
| 34043.W0546 | Steel    | Flat, Plain | M 4            | 1.8            | 2.5            | 15.6           | 2.0 | 3.5                       | 1.0         |
| 34043.W0552 | Steel    | Flat, Plain | M 5            | 2.2            | 3.0            | 7.5            | 2.5 | 4.5                       | 0.6         |
| 34043.W0553 | Steel    | Flat, Plain | M 5            | 2.2            | 3.0            | 9.5            | 2.5 | 4.5                       | 0.8         |
| 34043.W0554 | Steel    | Flat, Plain | M 5            | 2.2            | 3.0            | 11.5           | 2.5 | 4.5                       | 1.1         |
| 34043.W0555 | Steel    | Flat, Plain | M 5            | 2.2            | 3.0            | 15.5           | 2.5 | 4.5                       | 1.7         |
| 34043.W0556 | Steel    | Flat, Plain | M 5            | 2.2            | 3.0            | 19.5           | 2.5 | 4.5                       | 2.2         |
| 34043.W0558 | Steel    | Flat, Plain | M 5            | 2.2            | 3.0            | 24.5           | 2.5 | 4.5                       | 2.6         |
| 34043.W0562 | Steel    | Flat, Plain | M 6            | 3.2            | 4.0            | 10.0           | 3.0 | 9.0                       | 1.5         |
| 34043.W0563 | Steel    | Flat, Plain | M 6            | 3.2            | 4.0            | 12.0           | 3.0 | 9.0                       | 1.6         |
| 34043.W0564 | Steel    | Flat, Plain | M 6            | 3.2            | 4.0            | 16.0           | 3.0 | 9.0                       | 2.5         |
| 34043.W0565 | Steel    | Flat, Plain | M 6            | 3.2            | 4.0            | 20.0           | 3.0 | 9.0                       | 3.2         |
| 34043.W0566 | Steel    | Flat, Plain | M 6            | 3.2            | 4.0            | 25.0           | 3.0 | 9.0                       | 3.8         |
| 34043.W0581 | Steel    | Flat, Plain | M 8            | 4.5            | 5.5            | 10.0           | 4.0 | 15.0                      | 2.6         |
| 34043.W0582 | Steel    | Flat, Plain | M 8            | 4.5            | 5.5            | 12.0           | 4.0 | 15.0                      | 2.9         |
| 34043.W0583 | Steel    | Flat, Plain | M 8            | 4.5            | 5.5            | 16.0           | 4.0 | 15.0                      | 4.0         |
| 34043.W0584 | Steel    | Flat, Plain | M 8            | 4.5            | 5.5            | 20.0           | 4.0 | 15.0                      | 5.3         |
| 34043.W0585 | Steel    | Flat, Plain | M 8            | 4.5            | 5.5            | 25.0           | 4.0 | 15.0                      | 6.8         |
| 34043.W0586 | Steel    | Flat, Plain | M 8            | 4.5            | 5.5            | 30.0           | 4.0 | 15.0                      | 8.4         |
| 34043.W0601 | Steel    | Flat, Plain | M10            | 6.0            | 7.0            | 12.0           | 5.0 | 20.0                      | 4.7         |
| 34043.W0602 | Steel    | Flat, Plain | M10            | 6.0            | 7.0            | 16.0           | 5.0 | 20.0                      | 6.1         |
| 34043.W0603 | Steel    | Flat, Plain | M10            | 6.0            | 7.0            | 20.0           | 5.0 | 20.0                      | 7.9         |
| 34043.W0604 | Steel    | Flat, Plain | M10            | 6.0            | 7.0            | 25.0           | 5.0 | 20.0                      | 10.0        |
| 34043.W0605 | Steel    | Flat, Plain | M10            | 6.0            | 7.0            | 30.0           | 5.0 | 20.0                      | 13.0        |
| 34043.W0606 | Steel    | Flat, Plain | M10            | 6.0            | 7.0            | 35.0           | 5.0 | 20.0                      | 15.0        |



| Order No.   | Material  | Ball type   | d <sub>1</sub> | d <sub>2</sub> | d <sub>3</sub> | l <sub>1</sub> | A/F  | Static load<br>kN<br>max. | Weight<br>g |
|-------------|-----------|-------------|----------------|----------------|----------------|----------------|------|---------------------------|-------------|
| 34043.W0608 | Steel     | Flat, Plain | M10            | 6.0            | 7.0            | 40.0           | 5.0  | 20.0                      | 18.0        |
| 34043.W0621 | Steel     | Flat, Plain | M12            | 7.2            | 8.5            | 16.0           | 6.0  | 30.0                      | 9.1         |
| 34043.W0622 | Steel     | Flat, Plain | M12            | 7.2            | 8.5            | 20.0           | 6.0  | 30.0                      | 11.0        |
| 34043.W0623 | Steel     | Flat, Plain | M12            | 7.2            | 8.5            | 25.0           | 6.0  | 30.0                      | 14.0        |
| 34043.W0624 | Steel     | Flat, Plain | M12            | 7.2            | 8.5            | 30.0           | 6.0  | 30.0                      | 18.0        |
| 34043.W0626 | Steel     | Flat, Plain | M12            | 7.2            | 8.5            | 40.0           | 6.0  | 30.0                      | 25.0        |
| 34043.W0628 | Steel     | Flat, Plain | M12            | 7.2            | 8.5            | 50.0           | 6.0  | 30.0                      | 32.0        |
| 34043.W0661 | Steel     | Flat, Plain | M16            | 10.7           | 12.0           | 20.0           | 8.0  | 60.0                      | 21.0        |
| 34043.W0662 | Steel     | Flat, Plain | M16            | 10.7           | 12.0           | 25.0           | 8.0  | 60.0                      | 26.0        |
| 34043.W0664 | Steel     | Flat, Plain | M16            | 10.7           | 12.0           | 35.0           | 8.0  | 60.0                      | 39.0        |
| 34043.W0666 | Steel     | Flat, Plain | M16            | 10.7           | 12.0           | 50.0           | 8.0  | 60.0                      | 60.0        |
| 34043.W0702 | Steel     | Flat, Plain | M20            | 13.5           | 15.0           | 30.0           | 10.0 | 90.0                      | 49.0        |
| 34043.W0704 | Steel     | Flat, Plain | M20            | 13.5           | 15.0           | 40.0           | 10.0 | 90.0                      | 70.0        |
| 34043.W0705 | Steel     | Flat, Plain | M20            | 13.5           | 15.0           | 50.0           | 10.0 | 90.0                      | 90.0        |
| 34043.W0706 | Steel     | Flat, Plain | M20            | 13.5           | 15.0           | 60.0           | 10.0 | 90.0                      | 111.0       |
| 34043.W0742 | Steel     | Flat, Plain | M24            | 15.8           | 18.0           | 35.0           | 12.0 | 120.0                     | 86.0        |
| 34043.W0744 | Steel     | Flat, Plain | M24            | 15.8           | 18.0           | 50.0           | 12.0 | 120.0                     | 128.0       |
| 34043.W0746 | Steel     | Flat, Plain | M24            | 15.8           | 18.0           | 80.0           | 12.0 | 120.0                     | 219.0       |
| 34043.W0827 | Stainless | Flat, Plain | M 4            | 1.8            | 2.5            | 5.6            | 2.0  | -                         | 0.5         |
| 34043.W0828 | Stainless | Flat, Plain | M 4            | 1.8            | 2.5            | 7.6            | 2.0  | -                         | 0.6         |
| 34043.W0829 | Stainless | Flat, Plain | M 4            | 1.8            | 2.5            | 9.6            | 2.0  | -                         | 0.5         |
| 34043.W0830 | Stainless | Flat, Plain | M 4            | 1.8            | 2.5            | 11.6           | 2.0  | -                         | 0.9         |
| 34043.W0832 | Stainless | Flat, Plain | M 4            | 1.8            | 2.5            | 15.6           | 2.0  | -                         | 1.0         |
| 34043.W0833 | Stainless | Flat, Plain | M 5            | 2.2            | 3.0            | 7.5            | 2.5  | -                         | 0.6         |
| 34043.W0834 | Stainless | Flat, Plain | M 5            | 2.2            | 3.0            | 9.5            | 2.5  | -                         | 0.8         |
| 34043.W0835 | Stainless | Flat, Plain | M 5            | 2.2            | 3.0            | 11.5           | 2.5  | -                         | 1.1         |
| 34043.W0836 | Stainless | Flat, Plain | M 5            | 2.2            | 3.0            | 15.5           | 2.5  | -                         | 1.7         |
| 34043.W0837 | Stainless | Flat, Plain | M 5            | 2.2            | 3.0            | 19.5           | 2.5  | -                         | 2.2         |
| 34043.W0838 | Stainless | Flat, Plain | M 5            | 2.2            | 3.0            | 24.5           | 2.5  | -                         | 2.6         |
| 34043.W0840 | Stainless | Flat, Plain | M 6            | 3.2            | 4.0            | 10.0           | 3.0  | -                         | 1.5         |
| 34043.W0842 | Stainless | Flat, Plain | M 6            | 3.2            | 4.0            | 12.0           | 3.0  | -                         | 1.6         |
| 34043.W0844 | Stainless | Flat, Plain | M 6            | 3.2            | 4.0            | 16.0           | 3.0  | -                         | 2.5         |
| 34043.W0845 | Stainless | Flat, Plain | M 6            | 3.2            | 4.0            | 20.0           | 3.0  | -                         | 3.2         |
| 34043.W0846 | Stainless | Flat, Plain | M 6            | 3.2            | 4.0            | 25.0           | 3.0  | -                         | 3.8         |
| 34043.W0850 | Stainless | Flat, Plain | M 8            | 4.5            | 5.5            | 10.0           | 4.0  | -                         | 2.6         |
| 34043.W0852 | Stainless | Flat, Plain | M 8            | 4.5            | 5.5            | 12.0           | 4.0  | -                         | 2.9         |
| 34043.W0853 | Stainless | Flat, Plain | M 8            | 4.5            | 5.5            | 16.0           | 4.0  | -                         | 4.0         |
| 34043.W0854 | Stainless | Flat, Plain | M 8            | 4.5            | 5.5            | 20.0           | 4.0  | -                         | 5.3         |
| 34043.W0855 | Stainless | Flat, Plain | M 8            | 4.5            | 5.5            | 25.0           | 4.0  | -                         | 6.8         |
| 34043.W0856 | Stainless | Flat, Plain | M 8            | 4.5            | 5.5            | 30.0           | 4.0  | -                         | 8.4         |
| 34043.W0860 | Stainless | Flat, Plain | M10            | 6.0            | 7.0            | 12.0           | 5.0  | -                         | 4.7         |
| 34043.W0862 | Stainless | Flat, Plain | M10            | 6.0            | 7.0            | 16.0           | 5.0  | -                         | 6.1         |
| 34043.W0863 | Stainless | Flat, Plain | M10            | 6.0            | 7.0            | 20.0           | 5.0  | -                         | 7.9         |
| 34043.W0864 | Stainless | Flat, Plain | M10            | 6.0            | 7.0            | 25.0           | 5.0  | -                         | 10.0        |
| 34043.W0865 | Stainless | Flat, Plain | M10            | 6.0            | 7.0            | 30.0           | 5.0  | -                         | 13.0        |
| 34043.W0866 | Stainless | Flat, Plain | M10            | 6.0            | 7.0            | 35.0           | 5.0  | -                         | 15.0        |
| 34043.W0868 | Stainless | Flat, Plain | M10            | 6.0            | 7.0            | 40.0           | 5.0  | -                         | 18.0        |
| 34043.W0870 | Stainless | Flat, Plain | M12            | 7.2            | 8.5            | 16.0           | 6.0  | -                         | 9.1         |
| 34043.W0872 | Stainless | Flat, Plain | M12            | 7.2            | 8.5            | 20.0           | 6.0  | -                         | 11.0        |
| 34043.W0873 | Stainless | Flat, Plain | M12            | 7.2            | 8.5            | 25.0           | 6.0  | -                         | 14.0        |
| 34043.W0874 | Stainless | Flat, Plain | M12            | 7.2            | 8.5            | 30.0           | 6.0  | -                         | 18.0        |
| 34043.W0876 | Stainless | Flat, Plain | M12            | 7.2            | 8.5            | 40.0           | 6.0  | -                         | 25.0        |
| 34043.W0878 | Stainless | Flat, Plain | M12            | 7.2            | 8.5            | 50.0           | 6.0  | -                         | 32.0        |
| 34043.W0880 | Stainless | Flat, Plain | M16            | 10.7           | 12.0           | 20.0           | 8.0  | -                         | 21.0        |
| 34043.W0882 | Stainless | Flat, Plain | M16            | 10.7           | 12.0           | 25.0           | 8.0  | -                         | 26.0        |
| 34043.W0884 | Stainless | Flat, Plain | M16            | 10.7           | 12.0           | 35.0           | 8.0  | -                         | 39.0        |
| 34043.W0886 | Stainless | Flat, Plain | M16            | 10.7           | 12.0           | 50.0           | 8.0  | -                         | 60.0        |

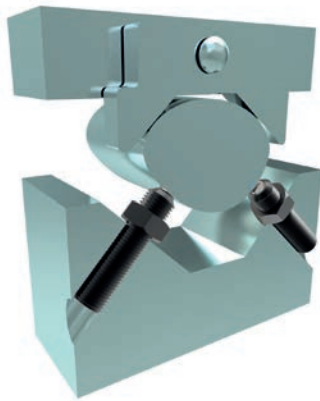


# Wixroyd Self-Aligning Pads & Thrust Screws

34000 - 34160

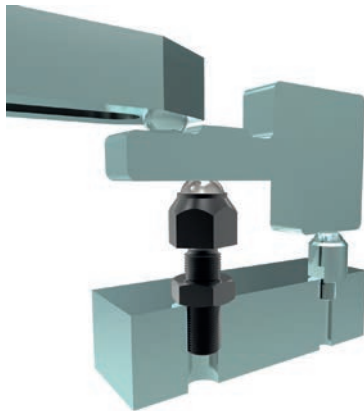
Positioning Elements

Clamping, supporting and aligning non-parallel and uneven surfaces is greatly simplified with the use of Wixroyd self-aligning pads and thrust screws. Available with ridged faces for improved holding of cast components, or plastic faces for holding more delicate parts.



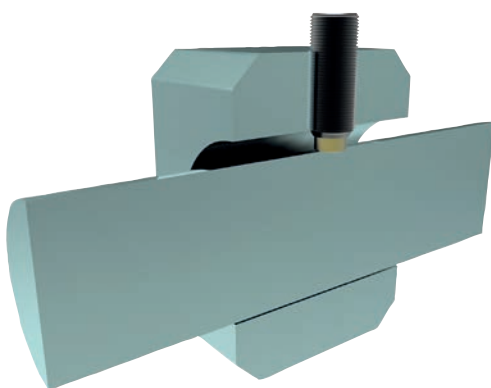
## Self-aligning Thrust Screws

**34000 to 34060** - Self-aligning thrust screws in sizes M6 to M24, ideal for clamping or supporting non-parallel surfaces.



## Self-aligning Pads

**34080 to 34121** - Self-aligning pads, both male and female mounting, ideal for accommodating variations between parts in fixtures.



## Thrust Screws

**34140 to 34160** - Thrust screws, with either brass or thermoplastic pads, are suitable for gentle clamping and positioning more delicate parts.