

## ***DOWEL PINS / CUSTOM DOWELS***



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## **Overview**

Dowels are solid pins, usually precision ground to narrow limits to permit accurate fitting. Precision dowels are traditionally used to hold parts together in a fixed alignment relying on the tightness of fit to stay in place. Our stocked range includes stainless steel A2, stainless steel A4, mild steel unhardened and through hardened steel to ISO and DIN standards.

Technifast are able to supply solid dowel pins and extractable dowel pins in both metric and imperial sizes. In addition, we can manufacture dowels with special diameters, lengths or materials to meet your requirements.

We currently have capacity to manufacture precision dowel pins to customer specifications and small diameter dowels are a speciality.

We offer a fast-turnaround, competitive pricing, longer lengths up to 120mm, diameters up to 32mm and have experience across all industries. [Contact us](#) to find out more.

**TECHNIFAST**

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## CUSTOM DOWEL PINS

Technifast's Manufacturing Division complements the wide range of standard dowel pins we stock, by offering a custom-made dowel pin service to customer specification or drawing.

Our engineers understand that not all standard dowel pins are appropriate for demanding applications or specialist projects, and it can be difficult to source the exact dowel for your specific needs. With our machining capabilities we can create a bespoke dowel pin tailored to the purpose for which it is intended.

We can operate within the following diameter and length ranges:

- Diameter: 1.0 to 32mm
- Length: 3.0 to 120.00mm
- Diameter Tolerances: Generally from h6 to m6



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**LARGE DISCOUNTS FOR ORDERS OVER £50**

## Dowel Capabilities

We offer fast-turnaround, competitive pricing, longer lengths up to 120mm (on diameters below 5mm) in a choice of through hardened steel, mild steel unhardened, CR6, stainless steel 303 (A2), 304, 316 (A4) and high tensile 316 materials. Our machines are capable of producing dowels up to 32mm, giving the option to add features such as flats, Circlip grooves or internal external threads.

We work closely with a team of specialists who can provide finishes such as passivation and plating, enabling us to offer a full solution for custom-made dowel pins.

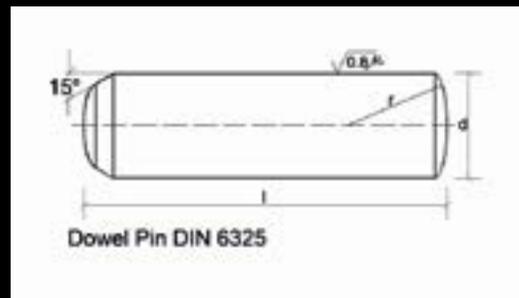
Our specialist dowel pins are used some very unique applications. Technifast dowels have formed an integral part of diverse products from toy trains and surgical instruments, through to audio visual technology and marine leisure appliances.

**TECHNIFAST**

# TECHNIFAST DOWEL PIN RANGE

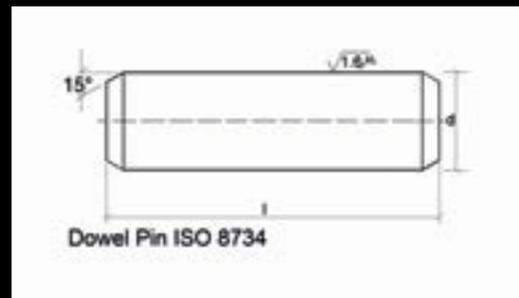
## DIN 6325

These dowel pins are supplied in 100Cr6, through hardened to 58-62HRc. They are manufactured in stainless steel 303 and stainless steel 316.



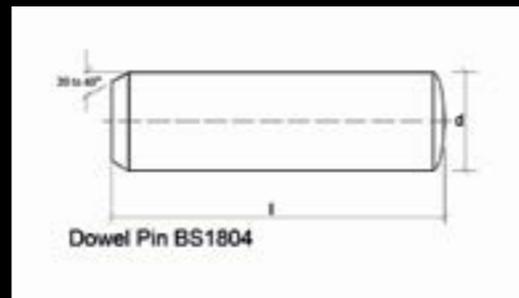
## ISO 8734

ISO 8734 dowel pins are supplied to ISO8734/C1 stainless hardened to 53-57 HRc. We manufacture in steel, stainless steel 303 and stainless steel 316.



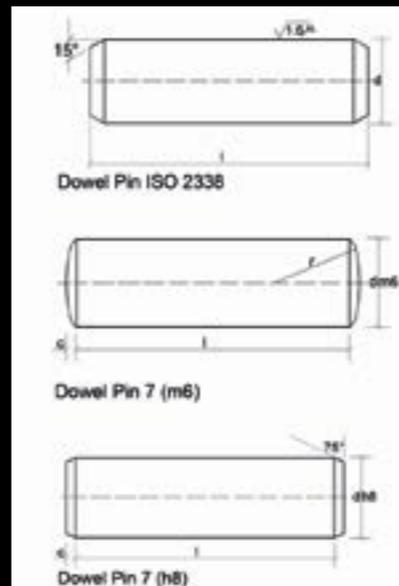
## BS1804

Imperial Dowel Pins in silver steel. We also manufacture imperial and metric BS1804 in stainless steel303 and stainless steel marine grade 316.



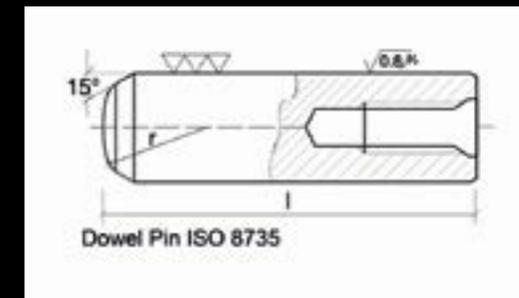
## ISO 2338 and DIN 7

Our most popular dowel pins. Note how ISO 2338 pin measurements include the overall length, whereas DIN 7 dimensions are measured by nominal length.



## ISO 8735 and DIN 7979

Extractable dowel pins as standard in stainless steel 303 and stainless steel 316L. Technifast's extractable dowel pins are also stocked in 3mm diameter.



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# DOWEL DIAMETER TOLERANCES

Nominal Diameter	Dowel Diameter m6	Nominal Diameter	Dowel Diameter m6	Nominal Diameter	Dowel Diameter m6
0.8	0.802-0.808	3.0	3.002-3.008	10.0	10.006-10.015
1.0	1.002-1.008	4.0	4.004-4.012	12.0	12.007-12.018
1.5	1.502-1.508	5.0	5.004-5.012	14.0	14.007-14.018
2.0	2.002-2.008	6.0	6.004-6.012	16.0	16.007-16.018
2.5	2.502-2.508	8.0	8.006-8.015	20.0	20.008-20.021

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# Hole Tolerances

The table below shows the recommended hole tolerances for solid dowel pins and extractable dowels.

Hole Material	Hardened Steel	Mild Steel	Aluminium / Zinc / Brass
Interference Fit	Pin Diameter Less 5 Microns	Pin Diameter Less 25 Microns	Pin Diameter Less 35 Microns
Transition Fit	Pin Diameter Less 2 Microns	Pin Diameter Less 5 Microns	Pin Diameter Less 5 Microns
Clearance Fit	Pin Diameter Plus 25-60 Microns	Pin Diameter Plus 25-60 Microns	Pin Diameter Plus 25-60 Microns

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