System 5
Cams and dowels

System features

The most advanced cam and dowel range

Titus System 5 is a comprehensive range of cam and dowel connecting fittings with Klix and Quickfit features for all cabinet applications: panel-to-panel, panel-to-hollow profile, back-to-back

Dowels

- Quickfit TL2, TL4 dowels a unique solution for factory pre-insertion, high level of drilling tolerances
- Quickfit dowels quick hand insertion, easy assembly
- Diecast dowels (zinc) precise manufacturing, optimal shape and design
- Turned dowels (steel) ‘traditional’ design, smooth surface, best strength performance
- Combi dowels (zinc and steel) high precision of zinc, strength of steel, 100% dimensional accuracy and optimal performance

Titus Klix™

Titus Klix locking system ensures the engagement of the interlocking teeth on cam and dowel providing:
- vibration-proof joint
- rigid construction that will not loosen in service or transit

Dowel insertion time comparison

Quickfit dowel 1 Second
Twin start thread Combi dowel 4 Seconds
Single start thread Standard dowel 7 Seconds

2 o’clock lock
Smooth closing

Linear cam profile assures smooth, firm tightening action and greater pull-up. The cam always locks at 2 o’clock lock (230°), enabling greater consumer confidence in use while improving furniture quality.
**Drilling tolerances**

Optimal performance and perfect joint even with inaccurate drillings.

- **Zinc/Combi dowel**
  - +/-0.5mm

- **Quickfit TL2 dowel**
  - +/-1mm

- **Quickfit TL4 dowel**
  - +/-1mm

ETHC = Edge To Hole Center

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**Dowels for factory insertion**

Quickfit TL2 and Quickfit TL4 are the only available dowels that allow for factory pre-insertion

- Easier packing
- Less damages in handling
- Perfect for the RTA market

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Zinc+steel Combi dowels

The Combi dowel combines steel and a small amount of zinc to ensure high precision and dimensional accuracy, essential to provide furniture manufacturers with the broadest possible range of drilling tolerances.

- Toroidal head form
- Zinc body
- Steel neck and head
- Positive stop collar
- Twinstart thread

**Zinc body:**
Positive stop collar ensures correct insertion depth
Twinstart for faster and more stable insertion

**The steel neck and head** provide better resistance to torsion and pull-out enabling a high performance joint

- Cam
- Dowel
- Small bursting angle

**The toroidal dowel head form** transfers the forces between cam and dowel more effectively resulting in a small cam bursting force.

100% dimensional accuracy assured
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Quickfit connectors

It is the fastest assembly system on the market. The Quickfit™ dowel may be inserted by hand, using only finger pressure. This eliminates the labour intensive process of screw-in assembly and the potential panel damage.

The Quickfit™ range of dowels has been extended to provide a complete family of fittings available in diameters of 5mm, 8mm and 10mm and lengths of 24mm and 34mm. These dowels are compatible with the range of Titus Ø15mm cams.

Assembly

1. Press the cam into face board
2. Insert the dowel into side panel
3. Assemble the panels
4. Tighten the cam to lock dowel
5. Assembled panels
Quickfit TL connectors

Quickfit-TL™ dowel offers furniture manufacturers a fast assembly system providing high drilling tolerances. It has a built-in self-adjustment feature, which enables common drilling inaccuracies to be overcome.

For the self-assembly furniture consumer, Titus Quickfit-TL™ is the most consumer friendly fitting on the market. Apart from the benefit of fully tightened joints and easy locking into the same position, Quickfit-TL™ provides an exceptionally smooth action when tightened, requiring very little effort.

Drilling tolerances

Marginal inconsistencies of drilling and the problems associated with the natural movement of wood panels, no longer present problems. Quickfit-TL™ provides a tolerance of +1/-1mm on drilling operation while ensuring that the final result is a perfectly precise and aligned joint. No other assembly fittings system can offer such tolerances and still maintain a perfect joint.

Assembly

1. Press the cam into face board
2a. Either push dowel into edge hole or...
2b. Insert the dowel into side panel
3. Assemble the panels
4. Tighten cam to lock dowel