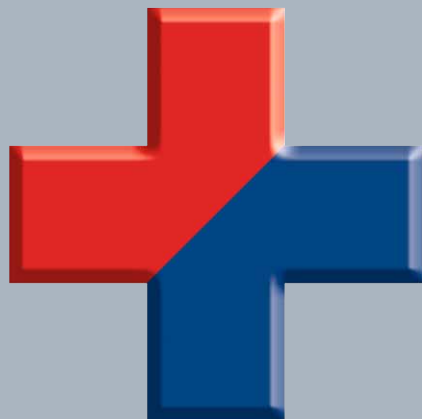


**Titus**



# **Cabinet Connectors**

**2024**



# Important Information

## **Technical information**

While every effort has been made in the production of this catalogue to ensure the accuracy of information, our products are continually being revised and users should confirm the up to date specification before ordering. Due to constant improvement of products presented in the catalogue, we can make changes at any time and without notice.

## **Responsibility**

It is the responsibility of the user to ensure the fitness of hardware for the intended purpose. We recommend assessment by appropriate testing in the application and by technical enquiry to our representatives.

## **Intellectual property**

Titus Group owns the intellectual property rights in its products worldwide whether as trademarks, patents, intellectual, copyright, designs, illustrations, drawings and the 'know how' contained in their design and production. Titus Group respects the equivalent rights in competitors and all other relevant product design rights. To our knowledge our products do not infringe any intellectual property rights of competitors or other parties. Titus Group takes infringements of its rights seriously and will rigorously defend these rights to the full extent of the law.

## **\*Non preferred articles**

All Item numbers in the catalogue marked with \* are for non preferred items available on extended delivery times.

## **Trademarks**

Titus and Titusonic are registered trademarks of Titus International Ltd. Lama is a registered trademark of Titus d.o.o. Dekani, WoodWelding is a registered trademark of WW SA.

# Cabinet Connectors

## Product Guide

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a highly cost-effective and rigid assembly system for factory, consumer and home assembly

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1.41

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### Heavy duty cams and dowels

high quality fittings for offices and public furniture

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# Connectors

## Information

### Why Choose Titus?

#### Titus connectors add value to furniture and to furniture manufacturing

Titus connectors improve the quality of furniture and lower the cost of manufacturing and assembly while ensuring a high degree of customer satisfaction.

#### The most advanced range of connectors available on the market

**Precise and efficient** product design. **The broadest possible range of drilling tolerances** ensures reliable assembly and consistently strong joints. **'Klix'** locking feature, the engagement of interlocking teeth on cam and dowel, to prevent joint loosening in service or transit.

**Expanding function** provides degrees of variation in out-of-tolerance drillings ensuring stronger joints and improved quality of furniture.

**Twinstart thread** for faster and more stable insertion.

**Depth stop collar** prevents over-insertion.

**Firm tightening** for greater confidence in use.

**Cam locks at 230°** assuring smooth tightening action and greater dowel pull-up.

**Quickfit** for hand dowel insertion.

**Quickfit TL5**, new generation steel dowel with quickfit expando technology for insertion in Ø5mm dowel holes.

**Quickfit TL2, TL4** with the built-in self adjustment feature for higher drilling tolerances.

**Quickloc** one piece fitting for faster assembly with integrated expanding cam and dowel.

**Zinc+steel dowel** for optimal strength and performance.

**Precise dowel manufacturing** high precision of zinc and strength of steel assures 100% dimensional accuracy.

#### Easy and quick consumer friendly self-assembly of furniture

Self-assembly furniture offers consumers good value and instant availability of products.

With the aim of providing consumer with simpler instructions, fewer parts and an easier assembly process, Titus has significantly reduced and simplified the number of fittings traditionally required in furniture production.

Titus connectors provide consumers with easy assembly and furniture producers with increased productivity:

- reduced number of assembly parts
- easy assembly instructions
- security of packed parts during transit

**CAF** Quick & Easy

Consumer Assembly Friendliness

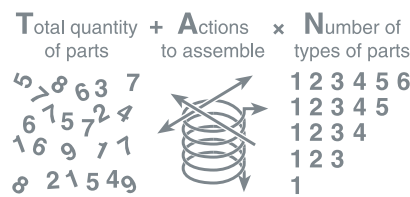
### Easy and Quick Furniture Assembly

#### CAF formula

CAF=Consumer Assembly Friendliness

Titus CAF formula provides a comparative measure for customer satisfaction. By using it manufacturers are able to evaluate their products internally or against those of their competitors.

While offering consumers easier and faster assembly, there are obvious advantages also for furniture manufacturers – buying, counting, bagging and stocking of fittings can be greatly reduced.



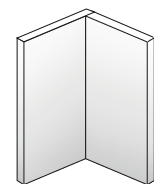
$$(T+A)N = CAF$$

Minimise the numbers in the Titus CAF™ formula to achieve:

- High customer satisfaction
- Improved productivity
- Higher profits

#### How does it work?

Comparative CAF scores to assemble a hand held demonstrator



	T	A	N	CAF
Connecting screw (traditional assembly)	4	38	3	126
Cam & dowel with single start thread	6	21	4	108
Cam & dowel with twinstart thread	6	15	4	84
Cam & TL2 dowel (self-assembly)	6	7	4	52
Cam & TL2 dowel (factory pre-inserted)	2	3	2	10
Quickloc	2	3	1	5
Fully assembled demonstrator	1	0	1	1

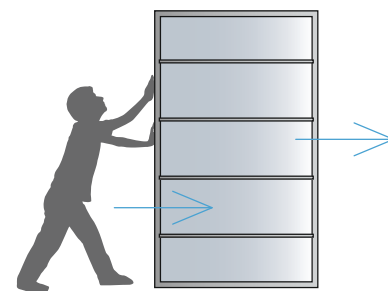
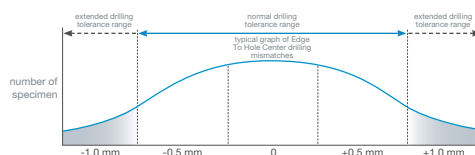
# Cabinet Connectors

## CAF Quick & Easy

Consumer Assembly Friendliness

### Consumer Assembly Friendliness - CAF principle

- Quick assembly with less parts and less assembly steps
- Simple instructions
- Easy and intuitive assembly



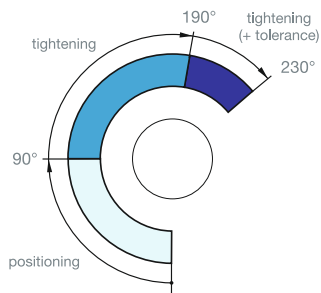
### High drilling tolerances

- Optimal cabinet joint even in cases of inaccurate drilling
- In-built self adjustment feature ensures perfectly aligned and precise joints

### Strong and reliable joints

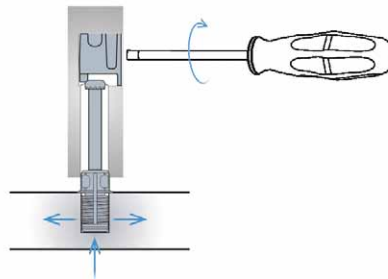
- High performance joints
- Great cabinet strength even at repeatable assembly or disassembly
- Enhanced resilience even in more demanding applications in tall wardrobes or office furniture





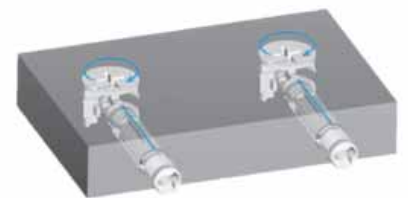
### Reliable and comfortable locking

- Smooth and firm tightening at 2 o'clock lock
- Great dowel pull-up for optimal performance
- Strong and reliable joint



### Expando function

- Expanding sleeve on dowels assures strong joints and high resistance to pull-out
- Firm fixing in the dowel hole
- Dowels expand and pull the panels together for the strongest joints



### Factory pre-insertion

- With Quickfit TL5 and TL2 dowels
- Perfect for RTA market: easier packing and transportation
- The insertion of cams and dowels can be automated using Lama FastFit machine

# System 1

## Fittings for Rigid Assembly Systems

### System Features

#### Double locking carcass screw

- Zinc diecast for precision
- Titus Double locking carcass screw makes an almost invisible connection
- Collar under the head to pull panels together
- 2nd 'lower' thread pulls against a 'faster' thread to provide maximum connection force and prevents overdriving of fastener
- Almost invisible in position
- Head can be 'fastcapped' or filled

#### Hi-Lo™ carcass construction screw

The Hi-Lo™ carcass construction screw (CCS) offers a strong, tolerant and cost effective connection with minimal panel preparation.

The combination effect of the elements of a Hi-Lo™ screw means

- A greater differential between drive torque and strip torque in fibrous and particle materials to ensure a reliable and repeatable fixing
- Hi-Lo™ threads provide minimum bursting forces
- 'Hi' thread gives low bursting component force from the sharp 30 degree angle thread
- Lo' thread at 60 degree angle uses the vertical force component to press fibrous and particle components of panels onto the 'Hi' thread and are contained by their greater height
- The very small shank on a Hi-Lo™ screw means less material displacement than conventional threads and enables minimum or partial drilling of pilot holes for speedier panel processing

#### Barrel nut (plastic)

- Used with Titus Hi-Lo™ screws
- Titus barrel nuts provide maximum strip torque for reasonable drive torque
- Capable of multiple reconnection repeatability

#### Cover caps

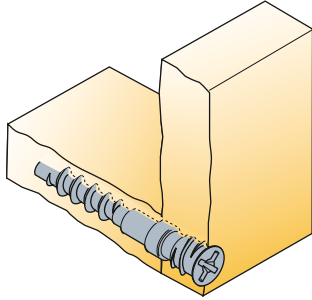
- Available in multiple colors
- All recess and head types offered
- High quality engineering polymers used in their construction
- Uniformity of holding with good tolerance
- Wide range of application and use conditions

# System 1

## Fittings for Rigid Assembly Systems

### Double Locking Carcase Screw

- High performance from widely spaced primary thread
- Finer secondary thread provides additional holding power and positive stop (no stripping)
- Increased support for vertical panel is gained from the funnel head with collar at its base
- One-piece fitting



Technical and mounting details

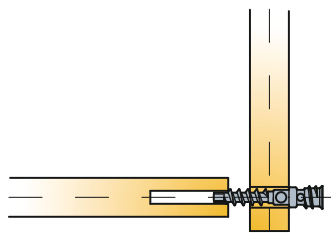
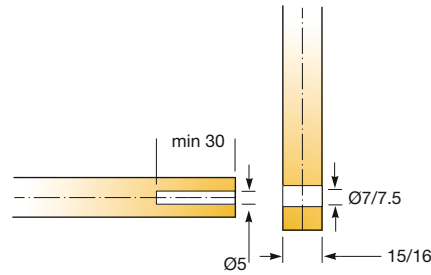
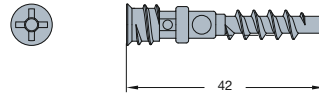
Item number

Zinc

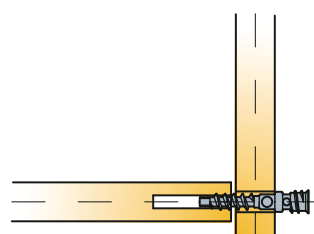
Screw 6x42

00180 →

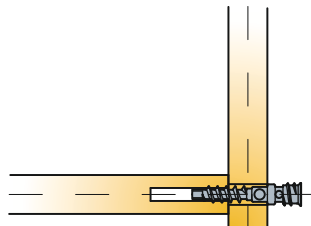
885



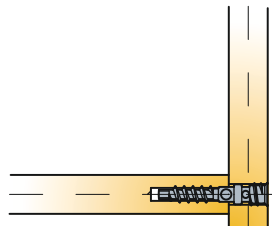
1. Insert screw to shoulder in face board



2. Screw into Ø5mm hole



3. Board joint pulled up by collar on screw



4. Board locked in place by screw

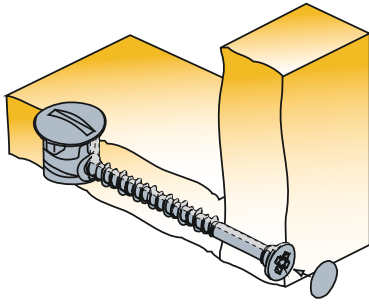
 2000 Pcs    Made of zinc

# System 1

## Fittings for Rigid Assembly Systems

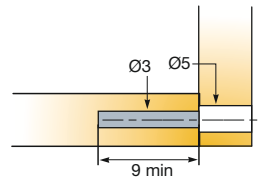
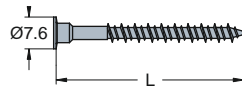
### Hi-Lo™ Screw and Barrel Nut

- Hi-Lo™ screws have a twin thread for faster insertion
- 'Hi' threads and 'Lo' threads combine to give excellent pull out in chipboard
- Funnel head design means no countersinking
- Steel is case hardened for extra strength



Technical and mounting details

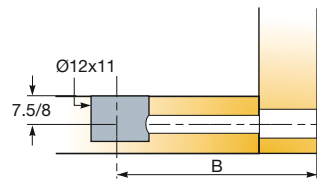
#### Hi-Lo™ screw



- 10000 Pcs (00062)
- 9000 Pcs (00068)
- 5000 Pcs (06074)
- 7000 Pcs (00071)
- 4000 Pcs (00077)
- 3000 Pcs (00172, 06077, 06080)

Made of steel

#### Barrel nut



- 10000 Pcs

Made of plastic

#### Screw cap



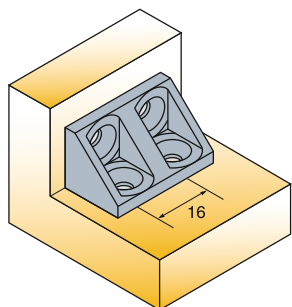
- 50000 Pcs

Made of plastic

Screw diameter	Total Length	Item number	Color		
			Black	Phosphate	White
4	20	25	00062 →	852	
4	23	28	00068 →	852	
4	28	338	00071 →	852	
4	33	38	06074 →	852	
4	40	45	00077 →	852	
4	50	55	00172 →	852	
4	45	50	06077 →	852	
5	45	50	06080 →	852	
			01056 →	835	877
Other colors on request					
pozi, philips			01020 →	835	877
hexagon			01042 →	835	877
Other colors on request					

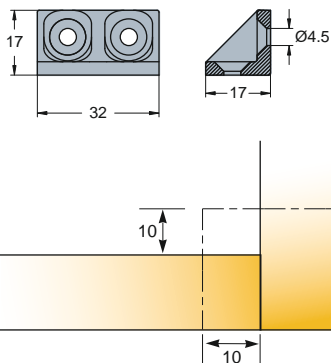
# System 2 Fittings for Face-boring Applications

- Range of fixing blocks for multiple applications
- Face drilling only required
- Durable plastic material is flexible providing greater holding power
- Choose screw fastening or hammer insertion



Technical and mounting details

Housing  
(no nose)



Item number

White

02077 →

877

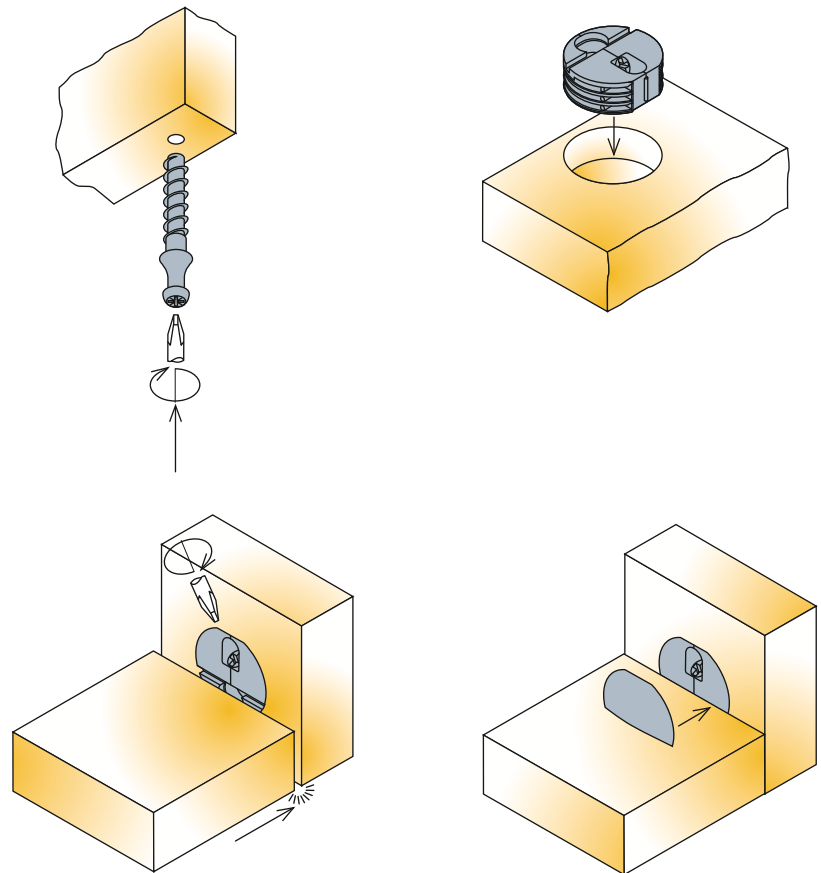
# System 3

## Fittings for Face and Edge Boring

### System Features

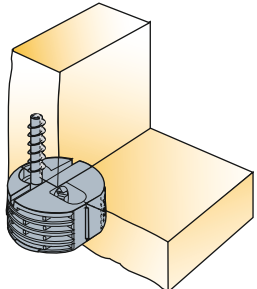
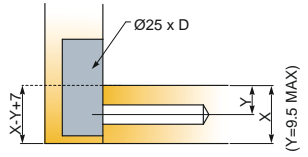



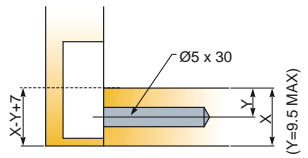


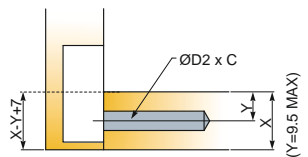

Titus System 3 is a two component rigid face and edge drilled fastening with half turn to fasten. System 3 offers almost full concealment and wide tolerances in use.

- Automatic or in-factory placement
- Pre-location pin ensures ease of assembly
- Less than one turn of a screwdriver to fasten
- Shelf edge installation of pin means maximum shelf cut size tolerance
- Can be used on 12mm shelf panels
- No loose parts for maximum convenience in RTA
- Drawer front fixing, cabinet construction



# System 3 Fittings for Face and Edge Boring Concealed Housing

- One turn locking system reduces assembly time, both in the factory and home
- Pre-assembly feature for consumer convenience
- Choice of dowels to suit drilling
- Hi-Lo screw feature for faster insertion

Technical and mounting details		C	D	D2					
Housing assembly		Drilling length for dowel	Drilling depth for housing	Drilling diameter for dowel thread	Item number	Black	Zinc plated	Dark brown	White
	 <p>X, Y - depends on board thickness</p>		12.5		<b>03118</b> →	835		831	877
	<p>Made of plastic or zinc, plastic</p>	<i>Other colours on request</i>							
 2500 Pcs									
Screw dowel Ø5		30		5	<b>03165</b> →		883		
	 <p>X, Y - depends on board thickness</p>								
 1000 Pcs	Made of steel								
Screw dowel Ø3		25		3	<b>03090</b> →		883		
	 <p>X, Y - depends on board thickness</p>								
 2000 Pcs	Made of steel								

# System 4 Fittings for Face-boring Only

## System Features

Cost effective one piece fittings with face boring benefits

- Flush and block components
- Face-boring only
- Good tolerances
- One piece connectors
- Angledriv versions fastening with maximum driving power and flexibility
- Quickloc™ versions need only one turn to tighten for fast assembly
- Foolproof consumer home insertion

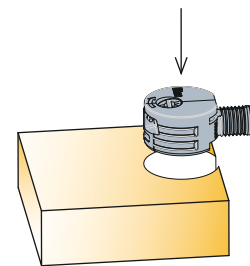
### Quickloc™ One-piece connector

The integrated housing and dowel make Quickloc™ the most user-friendly and tolerant product available.

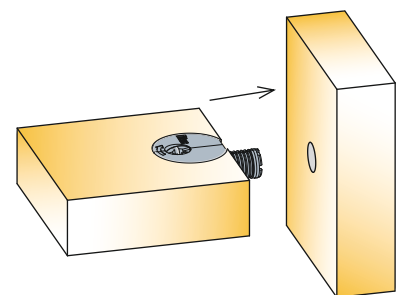
- High degree of drilling tolerance
- Push-in design
- Tool-free insertion
- Integrated expanding housing and dowel provide consistently stronger joints
- 'Klix' locking system

### Quickloc™ Assembly

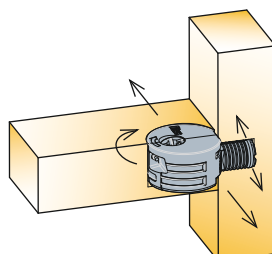
1. Press Quickloc into the face board



2. Assemble the panels



3. Tighten in less than one turn



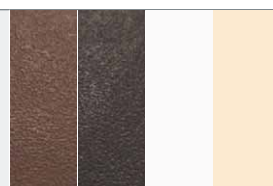


# System 4 Quickloc™ One Piece Expanding Connector

- An innovative, one-piece connector, capable of hand insertion
- Highly tolerant and tightens in less than one turn
- Face-bored product
- Offers a high degree of drilling tolerance and is the only connector of its type to provide pull-up of cabinet panels when tightened

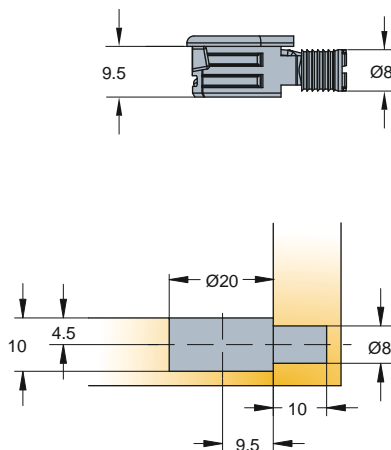


Technical and mounting details



Item number	Dark brown	Black	White	Tan
06803 →	834	835	877	871

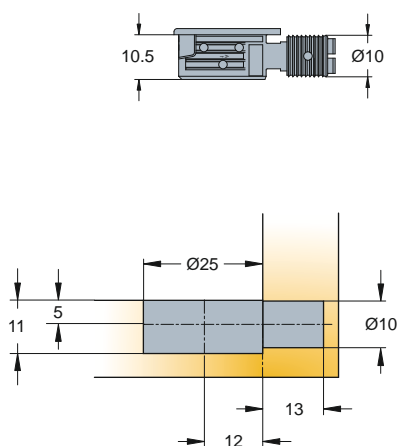
Quickloc Ø20 flanged



2500 Pcs

Made of zinc, plastic

Quickloc Ø25 flanged



1500 Pcs

Made of zinc, plastic

Item number	Dark brown	Black	White	Tan
06802 →	831	835	877	

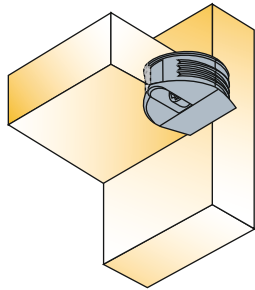
# System 4

## Fittings for

### Face-boring Only

Flushbloc™ / Flushfix™

- The Angeldriv screw provides high level of tolerance
- Face drilling only required
- Corner joint and shelf fixing options



Technical and mounting details



Item number

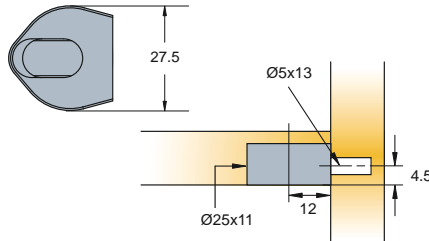
Black

Dark brown

White

Zinc

Flushbloc™ assembly



02190 →

835

831

877

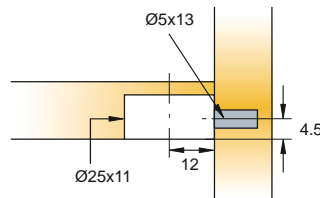
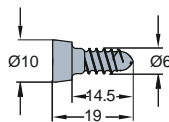
Other colours on request

2500 Pcs

Made of plastic

Angeldriv screw for use with Flushfix™

flat head



00022 →

855

Other colours on request

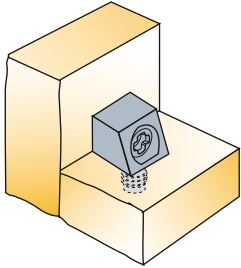
4000 Pcs

Made of zinc

# System 4 Fittings for Face-boring Only

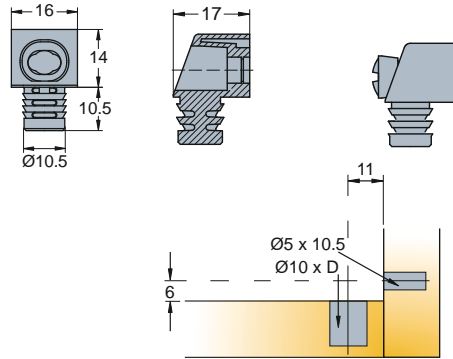
## Minibloc™ / Twinbloc™

- One-piece connector range
- Face drilling only required
- Easy to use, foolproof home insertion
- Angledriv screw tolerates good levels of inaccurate drilling increasing consumer confidence



Technical and mounting details

Minibloc Ø10



D	Drilling depth	Color	
		Dark brown	White
	Item number		

11	* 02120 →	831	877
----	-----------	-----	-----

\* Assembly with screw

2500 Pcs

Made of zinc, plastic

Angledriv screw → see page 1.17

# 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 TL5, 'Full metal jacket'**  
a high performance Quickfit dowel for use in multiple wooden materials
- **Quickfit TL2, TL4, TL5 dowels**  
a unique solution for factory pre-insertion, high level of drilling tolerances

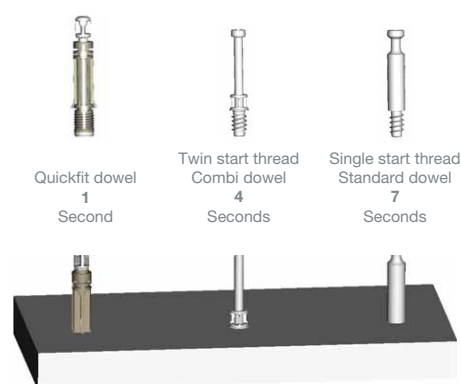
- **Quickfit dowels**  
quick hand insertion, easy assembly
- **Diecast dowels (zinc)**  
precise manufacturing, optimal shape and design
- **Turned dowels (steel)**  
'traditional' design, smooth surface, best strength performance
- **Combi dowels (zinc and steel)**  
high precision of zinc, strength 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:

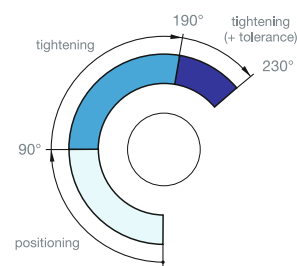
- vibration-proof joint
- rigid construction that will not loosen in service or transit

### Dowel insertion time comparison



### 2 o'clock lock Smooth closing

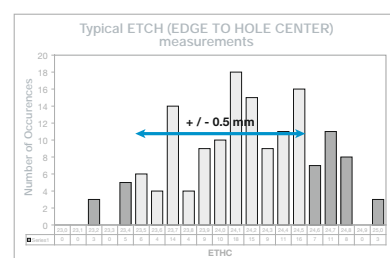
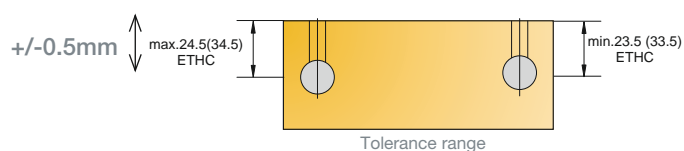
Linear cam profile assures smooth, firm tightening action and greater pull-up. The cam always locks at 2 o'clock lock (230°), enabling greater consumer confidence in use while improving furniture quality.



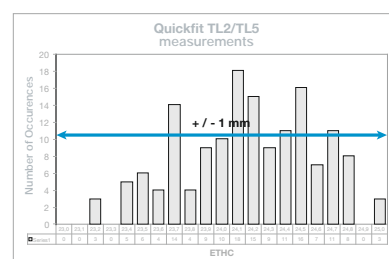
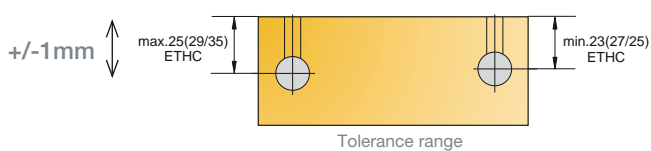
## Drilling tolerances

Optimal performance and perfect joint even with inaccurate drillings.

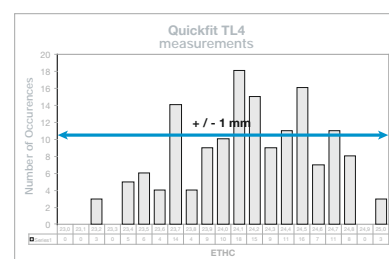
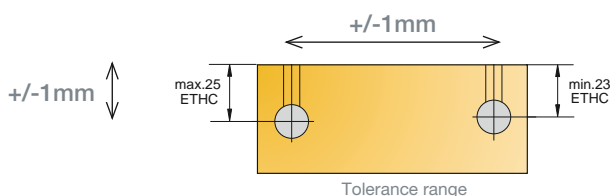
Zinc/Combi  
dowel



Quickfit TL5 dowel,  
Quickfit TL2 dowel



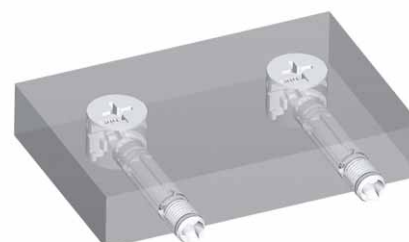
Quickfit TL4 dowel



## Dowels for factory insertion

Quickfit TL5 and Quickfit TL2 are the only available dowels allowing factory preinsertion with Titus FastFit machine

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



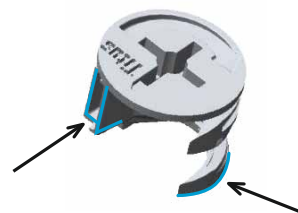
# System 5 Cams and Dowels

## Cam5000

### Highly resistant joint for strong cabinet construction

Reinforced cam evenly engages the hole and prevents cam tilting and cam bursting.

Increased joint resistance enables effective performance in wider tolerance range.



### Linear cam profile

Linear cam profile ensures:

- Smooth tightening action
- Greater dowel pull-up



### Cam retaining pips

Cam retaining pips ensures:

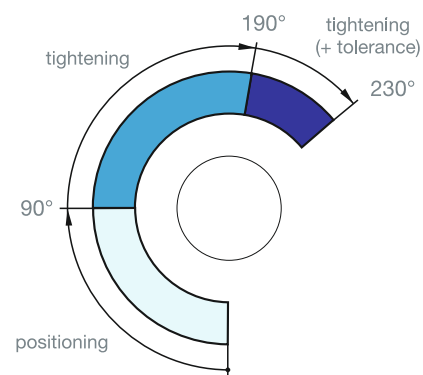
- The cam is held in position prior to assembly
- Secure cam positioning during transport and handling
- Accurate factory insertion



### 2 o'clock lock

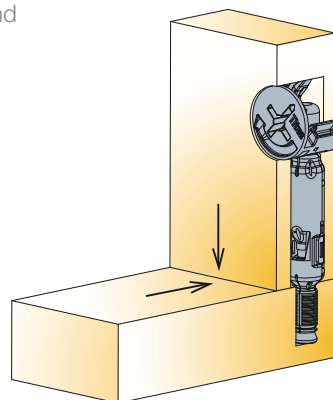
Smooth and noticeable locking at the 2 o'clock position guarantees:

- always-right tightening for home assembly
- strong and rigid cabinet construction



**Optimised cam profile**

Optimised cam profile ensures smooth and tight joint with no gap between panels.



**Optimal performance with all Titus dowels**

Quickfit TL, Quickfit, Combi, end, double ended, angled and other screw-in dowels



# System 5 Cams and Dowels

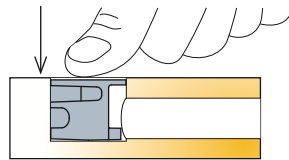
## Quickfit Connectors

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.

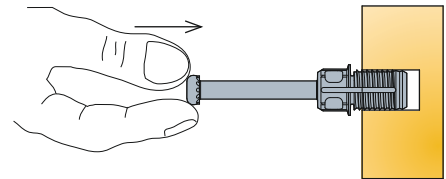
The Quickfit™ range of dowels has been extended to provide a complete family of fittings available in diameters of 5mm, 8mm, 10mm and lengths of 24mm and 34mm. These dowels are compatible with the range of Titus Ø15mm cams.

### Assembly

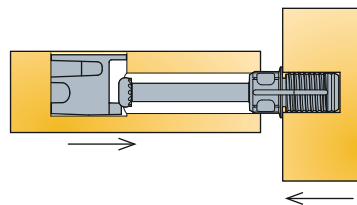
1. Press the cam into face board



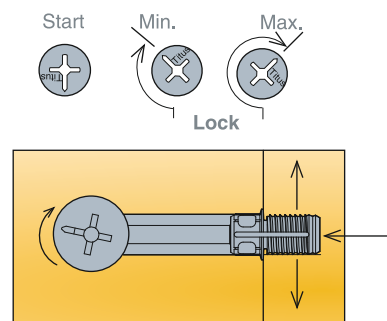
2. Insert the dowel into side panel



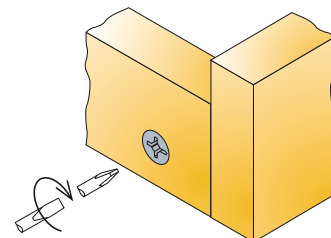
3. Assemble the panels



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.

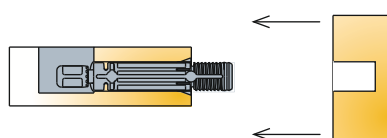
Quickfit-TL™ provides a tolerance of  $\pm 1$ mm on drilling operation while ensuring that the final result is a perfectly precise and aligned joint. No other assembly fittings system can offer such tolerances and still maintain a perfect joint.

### Assembly

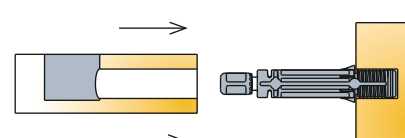
#### 1. Press the cam into face board



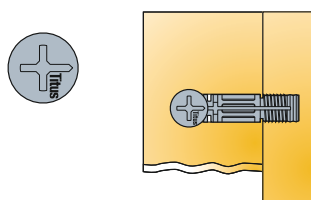
#### 2a. Either push dowel into edge hole or...



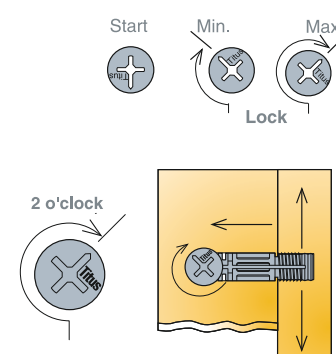
#### 2b. Insert the dowel into side panel



#### 3. Assemble the panels



#### 4. Tighten cam to lock dowel



# System 5 Cams and Dowels

## Quickfit TL5 'Full Metal Jacket'

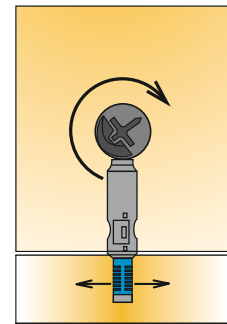
### Effective performance in multiple wooden materials

- Smooth and noticeable locking at the 2 o'clock position guarantees:
- tight joints
  - always-right tightening at home assembly
  - strong and rigid cabinet construction



### Strong and reliable joint

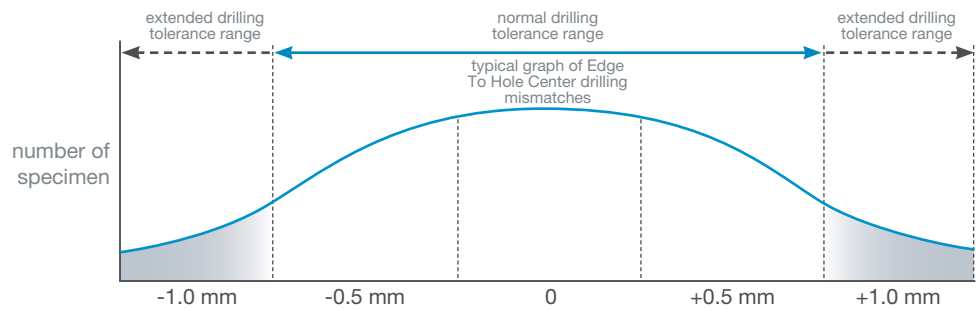
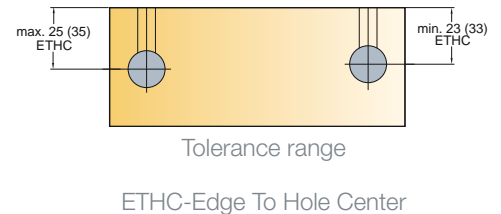
Expanding steel sleeve assures high resistance to torsion and pull-out.



### High drilling tolerances

An extended dowel head design works as a positive stop against the cam and provides an ETHC tolerance of min. +/-1 mm

Fully tightened joint assured even at marginal inconsistencies of drilling and problems associated with the natural movement of wood panels.



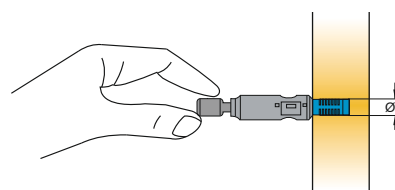
### Shape of dowel sleeve

- Acts as a positive stop when face inserted
- Ensures correct insertion depth



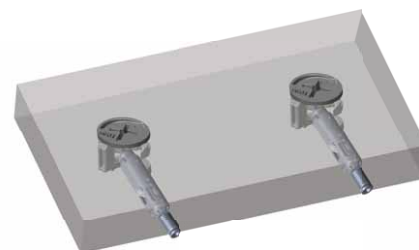
### Tool-free insertion for Ø5mm dowel holes

Quickfit TL5 reliably engages the 5mm dowel hole. It enables the usage of tool-less Quickfit dowel insertion technology across a wide range of applications.



### 50% less time to assemble the cabinet at home

When edge inserted the dowel engages the cam and remains securely positioned until the boards are locked together.



For maximum efficiency the insertion process can be automated using the Titus proprietary Lama FastFit machine.



Fast and easy cabinet assembly at home.

**CAF** Quick & Easy

Consumer Assembly Friendliness

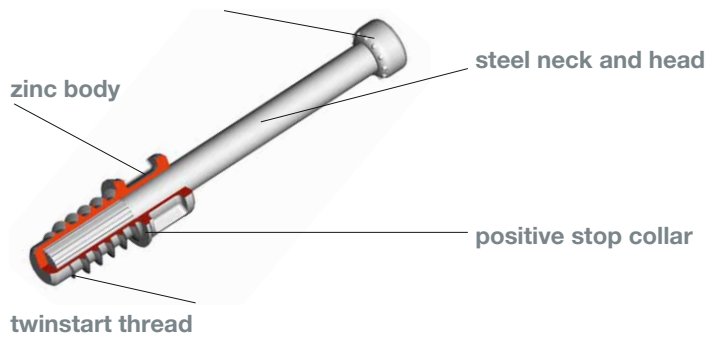
# System 5 Cams and Dowels

## Zinc+steel Combi Dowels

**Zinc+steel  
technology for  
optimal strength  
and performance**

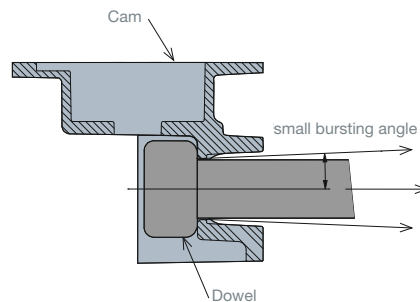
The Combi dowel combines steel and a small amount of zinc to ensure high precision and dimensional accuracy, essential to provide furniture manufacturers with the broadest possible range of drilling tolerances.

**toroidal head form**

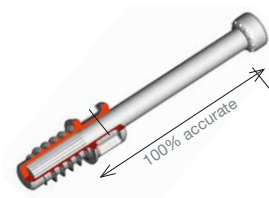


**The steel neck and head** provide better resistance to torsion and pull-out enabling a high performance joint

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



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



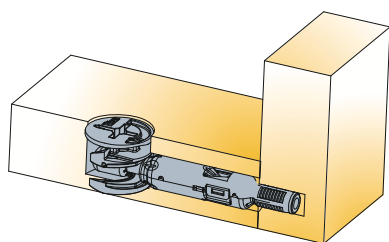
**100% dimensional accuracy  
assured**

# System 5

## Quickfit TL5

### 'Full Metal Jacket'

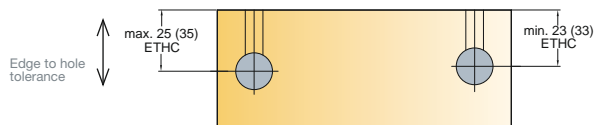
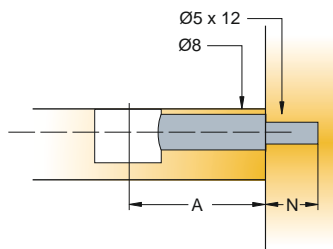
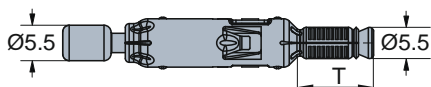
- Tool-free insertion technology for Ø5mm dowel holes
- Drilling tolerances of +1/-1mm when edge or face inserted
- Expanding steel sleeve assures a strong joint, highly resistant to pull-out
- Functions in multiple wooden materials (chipboard, MDF, solid wood)
- Suitable to work with Cam 5000



Technical and mounting details

A	N	T	Item number	TeraBlack
Drilling distance	Drilling depth	Thread length		
34	12	11.5	<b>09652</b> →	956
24	12	11.5	<b>09651</b> →	956

Quickfit TL5 dowel



Tolerance range



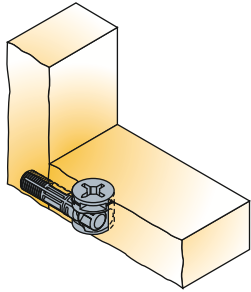
To be used with Cam5000 only

# System 5

## Cams and Dowels

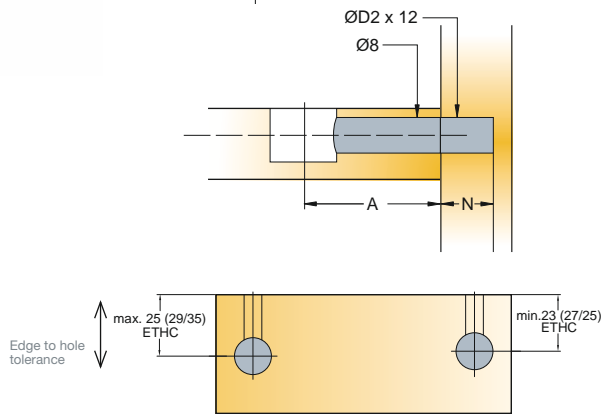
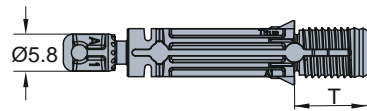
### Quickfit TL Dowels

- Available in Ø5mm and Ø8mm for panel-to-panel applications
- Suitable for use with all Ø15mm Cam3000 S and Cam5000 products
- 'Klix' locking feature provides a strong, vibration proof joint
- Highly tolerant in edge-inserted, TL4 also in face-inserted applications



Technical and mounting details

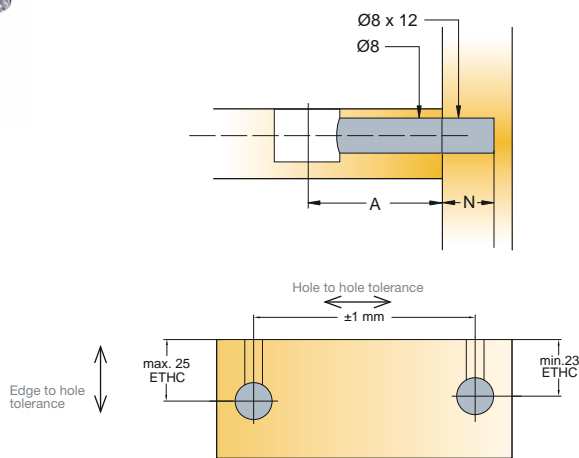
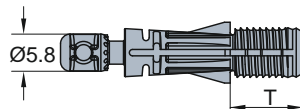
#### Quickfit TL2



Tolerance range

2000 Pcs  
1000 Pcs (05474) Made of zinc, plastic

#### Quickfit TL4



Tolerance range

3000 Pcs Made of zinc, plastic

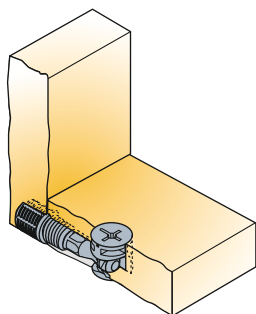
A	N	T	D2	Item number	Black	Dark grey
Drilling distance	Drilling depth	Thread length	Drilling diameter for dowel thread			
24	12	11.6	8	05441 →		880
34	12	11.6	8	05474 →		880
24	12	11.2	8	05388 →	835	

# System 5

## Cams and Dowels

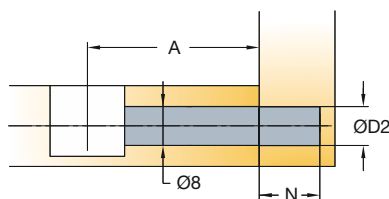
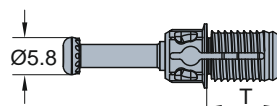
### Quickfit Dowels

- Available in Ø8mm and Ø10mm
- Suitable for use with all Ø15mm Cam5000 products
- 'Klix' locking feature provides a strong, vibration proof joint
- Depth stop collar for accurate insertion



Technical and mounting details

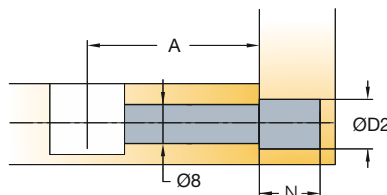
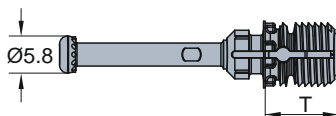
Quickfit dowel  
Ø8mm



2000 Pcs


Made of zinc, plastic

Quickfit dowel  
Ø10mm



2000 Pcs

Made of zinc, plastic

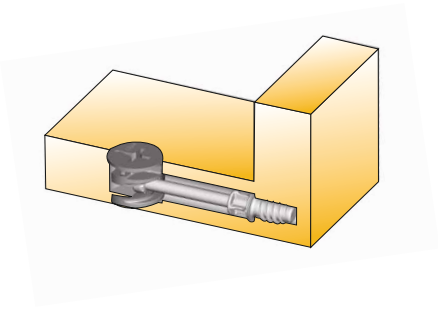

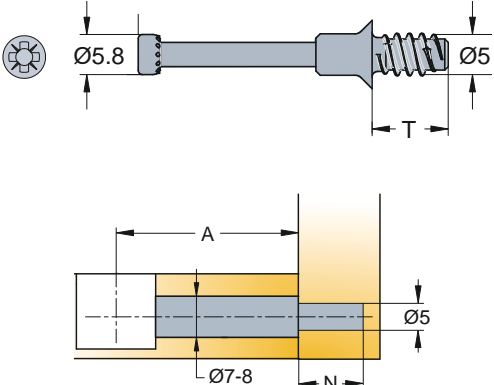


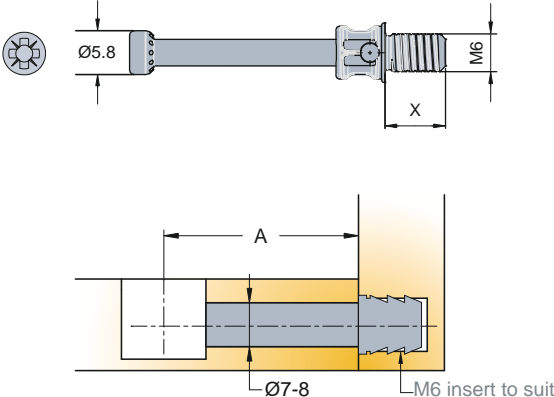

A	N	T	D2	Item number	Dark grey
Drilling distance	Drilling depth	Thread length	Drilling diameter for dowel thread		
24	12	11.5	8	05025 →	880
34	12	11.5	8	05026 →	880
24	12	11.5	10	05052 →	880
34	12	11.5	10	05050 →	880
34	9.5	9.2	10	05147 →	880
 To be used with Cam5000 only					

# System 5

## Cams and Dowels

### Combi Dowel

- High quality zinc-steel dowel with greater resistance to torsion and pull-out
- Suitable for use with all Ø12mm and Ø15mm Cam2000, Cam3000 and Cam5000 products
- 'Klix' locking feature provides a strong, vibration proof joint
- Twinstart thread for faster and reliable insertion

 Technical and mounting details		A	N	T	Item number	Zinc
		Drilling distance	Drilling depth	Thread length		
 	Philips PH2 head	34	12	11	*09424 →	885
	Philips PH2 head	24	12	11	*09423 →	885
	Philips PH2 head	34	9	8.5	*09456 →	885
 2000 Pcs <span style="margin-left: 100px;">Made of steel and zinc</span>						
 		34		8	09592 →	885
		34		10.5	09594 →	885
 1000 Pcs <span style="margin-left: 100px;">Made of steel and zinc</span>		X → drilling depth of M6 insert				

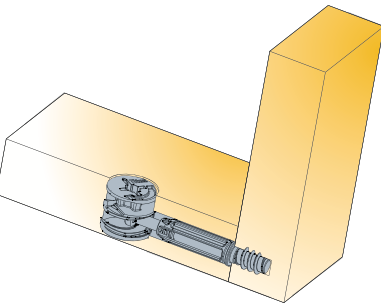


# System 5

## Cams and Dowels

### Screw-in SP Dowel

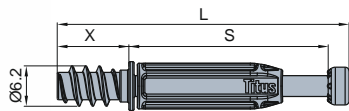
- High performance joint even in low density chipboard
- Full body assures stability in dowel hole
- High resistance to torsion and pull-out
- Accurate insertion with positive stop



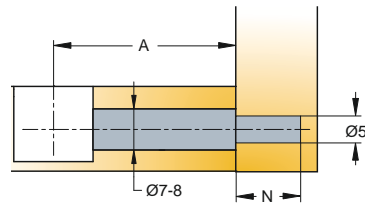
Technical and mounting details

SP Dowel

PH2 head



PZ2 head



A	N	X	L	S	Item number	Grey
Drilling distance	Drilling depth	Thread length	Total Length	Length		
34	12	11	44.8	30.6	<b>05072</b> →	383
24	12	11	34.8	20.6	<b>05073</b> →	383
24	9	8.5	32.3	20.6	<b>05087</b> →	383
34	12	11	44.8	30.6	<b>05078</b> →	383
24	12	11	34.8	20.6	<b>05079</b> →	383

1000 Pcs

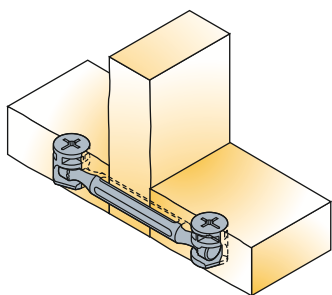
Made of zinc and plastic

# System 5

## Cams and Dowels

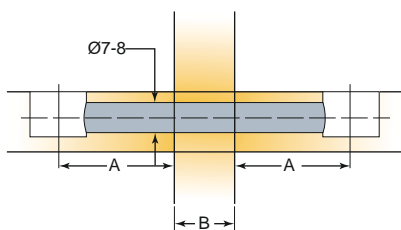
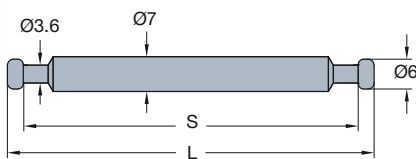
### Double-ended Dowel

- Available in Ø7mm
- Suitable for use with all Ø12mm and Ø15mm Cam2000, Cam3000 and Cam5000 products
- No circlip for increased tolerance
- Available in a variety of lengths to suit most panel-to-panel applications



Technical and mounting details

Dowel without circlip



S	L	A	B	Item number	Zinc plated
Length	Total length	Drilling distance	Panel thickness		
41	47.4	24	0*	<b>05929</b> →	883
61	67.4	34	0*	<b>05757</b> →	883
80	86.4	34	19	<b>05753</b> →	883
60	66.4	24	19	<b>05778</b> →	883

\*B=0 → no panel required

- 2000 Pcs (05929)
- 1000 Pcs (05757)
- 500 Pcs (05778)
- 250 Pcs (05753)

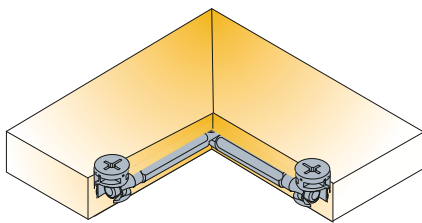
Made of steel

# System 5

## Cams and Dowels

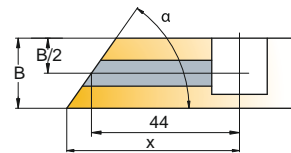
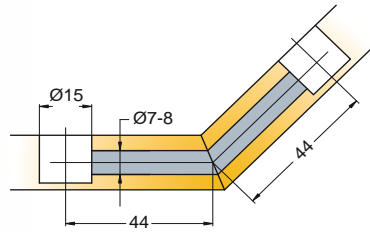
### Angled Dowels

- Suitable for applications requiring angled joints
- Suitable for use with all Ø12mm and Ø15mm Cam2000, Cam3000 and Cam5000 products
- Adjustable angle from 90° to 180°



Technical and mounting details

Angled dowel  
180° fixed



Distance x in mm

Q	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	67,5°	70°	75°	80°	85°
13	61.9	57.9	55.3	53.5	51.7	50.5	49.5	48.6	47.8	47	46.7	46.4	45.7	45.1	44.6
15	64.6	60.1	57	54.7	52.9	51.5	50.3	49.3	48.3	47.5	47.1	46.7	46	45.3	44.7
16	66	61.2	57.9	55.4	53.5	52	50.7	49.6	48.6	47.7	47.3	46.9	46.1	45.4	44.7
B 18	68.8	63.3	59.6	56.9	54.7	53	51.6	50.3	49.2	48.2	47.7	47.3	46.4	45.6	44.8
19	70.1	64.4	60.5	57.6	55.3	53.5	52	50.7	49.5	48.4	47.9	47.5	46.5	45.7	44.8
22	74.2	67.6	63.1	59.7	57.1	55	53.2	51.7	50.4	49.1	48.6	48	46.9	45.9	45
23	75.6	68.7	63.9	60.4	57.7	55.5	53.6	52.1	50.6	49.4	48.8	48.2	47.1	46	45

Item number

05860 →

Zinc

Zinc plated

883

650 Pcs

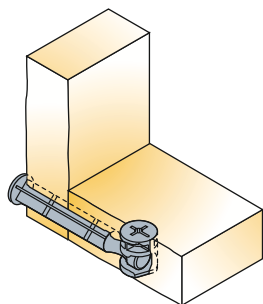
Made of steel

# System 5

## Cams and Dowels

### End Dowels

- Available in a variety of head and length combinations to suit most end panel applications
- Suitable for use with all Ø12mm and Ø15mm Cam2000, Cam3000 and Cam5000 products
- 'Klix' locking feature provides a strong, vibration proof joint
- Both 'mushroom' and countersunk headed versions available

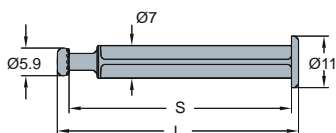


Technical and mounting details

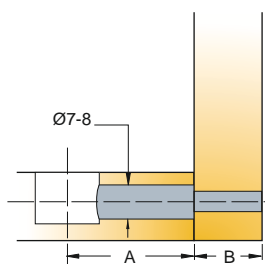
A	B	S	L		
Drilling distance	Panel thickness	Length	Total length	Item number	Zinc

Mushroom dowel

34	19	49.5	53.5	<b>05611</b> →	885
----	----	------	------	----------------	-----



Other colours on request



1000 Pcs

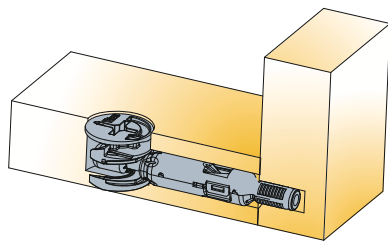
Made of zinc

# System 5

## Cams and Dowels

### Ø15mm Cam5000

- Improved central shape for highly resistant joint
- Suitable for use with all Titus dowels
- 'Klix' locking feature provides a strong, vibration proof joint
- Cam retaining pips ensure that a cam is held in panel position prior to assembly

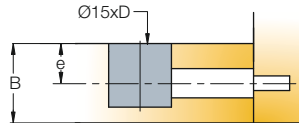
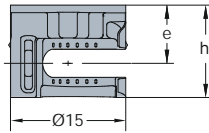


Technical and mounting details

	B	D	e	h			
	Panel thickness	Drilling depth	Drilling for dowel	Cam height	Item number	Zinc	TeraBlack
	12/13	10.5	6 min	9.9	<b>09695</b> →	885	959
	15/16	12.5	7.5-8	11.9	<b>09690</b> →	885	959

Cam5000 cross drive

PZ2 drive 



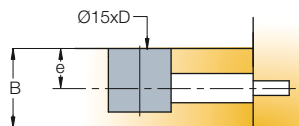
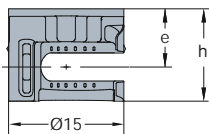
Use standard cover caps with pin=Ø4mm

 1000 Pcs

Made of zinc

Cam5000 hexagonal drive

combined drive with HEX 



	15/16	12.5	7.5-8	11.9	<b>09699</b> →	885	959
	18/19	14	9-9.5	13.2	<b>09692</b> →	885	959

Use standard cover caps with pin=Ø4mm

 1000 Pcs

Made of zinc



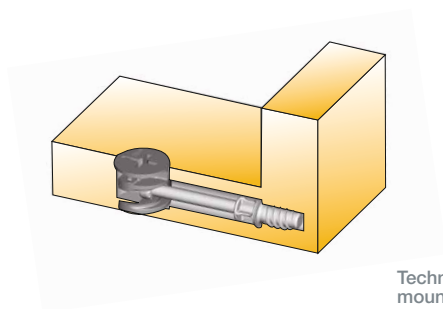
Cover caps for Ø15 cams → see page 1.39  
Made of plastic

# System 5

## Cams and Dowels

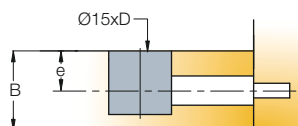
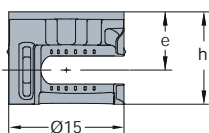
### Ø15mm Cam3000

- Its optimised shape provides a more efficient cam profile with smooth tightening action and greater dowel pull-up
- Suitable for use with Combi dowels, forged steel dowels, Quickfit dowels and Quickfit TL dowels
- 'Klix' locking feature provides a strong, vibration proof joint
- Cam-retaining pips ensure that a cam is held in panel position prior to assembly



B	D	e	h	Item number	Zinc
Panel thickness	Drilling depth	Drilling for dowel	Cam height		
12/13	10.5	6 min	9.9	<b>09495</b> →	885
15/16	12.5	7.5-8	11.9	<b>09533</b> →	885

Cam3000 cross drive



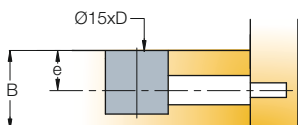
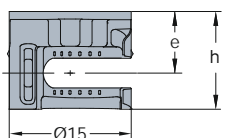
Black available upon request

1000 Pcs

Made of zinc

Cam3000 hex drive

combined drive with HEX



15/16	12.5	7.5-8	11.9	<b>09537</b> →	885
18/19	14	9-9.5	13.2	<b>09536</b> →	885

Use standard cover caps with pin=Ø4mm

Black available upon request

1000 Pcs

Made of zinc



Cover caps for Ø12 cams  
Made of plastic

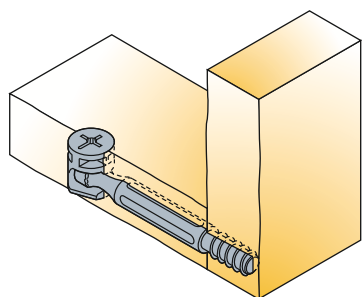
→ see page 1.39

# System 5

## Cams and Dowels

### Ø12mm Cam2000

- Suitable for all Titus screw-in dowels
- Available in a variety of head, drive recess and board thickness versions to suit most applications
- Particularly suited to drawer front attachment applications
- 'Klix' locking feature provides a strong, vibration proof joint
- Linear cam profile results in smooth, easy cam rotation and dowel pull-up

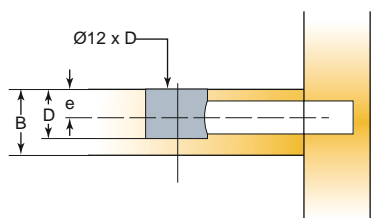
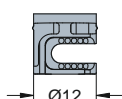


Technical and mounting details

Cam2000  
Ø12



B	D	e	Item number	Zinc
Panel thickness	Drilling depth	Drilling for dowel		
12/13	10 min	6-6.5	<b>05575</b> →	885



Other finishes on request

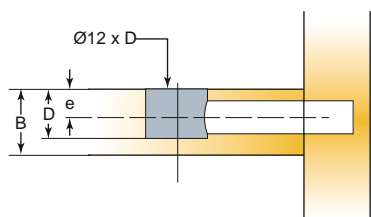
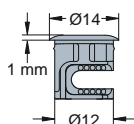
2000 Pcs

Made of zinc

Cam2000  
Ø12 headed



12	10 min	6	<b>05389</b> →	885
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Other finishes on request

1000 Pcs  
2000 Pcs (05576)

Made of zinc

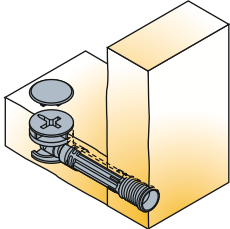
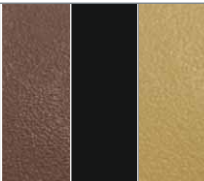

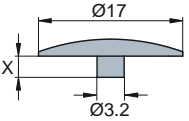


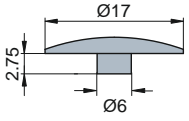



Cover caps for Ø12 cams  
Made of plastic

→ see page 1.39

# System 5 Cover Caps

- Available in a variety of colours
- Suitable for use with both pozi and hex cam drive features
- Suitable for use with various diameter cams
- Both domed and flat versions available

 Technical and mounting details		X					
			Item number	Dark brown	Black	Light brown	White
Cover cap Ø17 		3.3	*01029 →	831	835	867	877
		<i>Other colours on request</i> <i>Works with PZ2 drive caps:</i> 05644, 09533, 09495, 09690, 09695					
 25000 Pcs	Made of plastic						
Cover cap Ø17 			01026 →	831	835	867	877
		<i>Other colours on request</i> <i>Works with HEX drive cams:</i> 05654, 05656, 09692, 09536, 09537					
 1000 Pcs	Made of plastic						





# System 6

## Quickfit-Expando

### Connectors

#### System Features

A face boring connector family for 32mm system drilling with full range of panel and application variants for all cabinet manufacturing applications

- Minimum drilling requirements
- Linear cam design for constant tightening loads when driving
- Angledriv feature on cam for maximum driving comfort
- Interchangeable pins for wood, plastic and steel applications
- Pins with twinstart drive for fast insertion
- Interchangeable Quickfit pin fastenings available
- Tool-less fastening capable versions
- Back-to-back fastenings for common vertical panel fixing of shelves

System 6 consists of a range of 20mm diameter housing, Quickfit™ and conventional dowels, end dowels and double ended dowels.

Housings are made from high grade plastic or zinc, with zinc cams.

Wedgex-6 connector is a special fastener without cam, simply to snap onto a pre-inserted dowel.

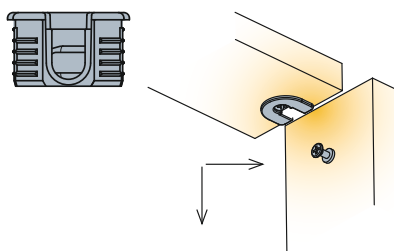
#### Applications

Titus System 6 is ideal for use in high volume production of case goods, closet and garage storage systems. Because no

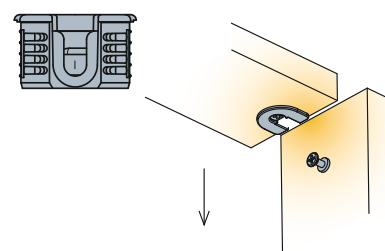
edge boring is required, it is an excellent choice for manufacturing environments with limited drilling capacity.

#### Side-entry Drop-on

**Side-entry** insertion of shelf panel: from the side or from the top

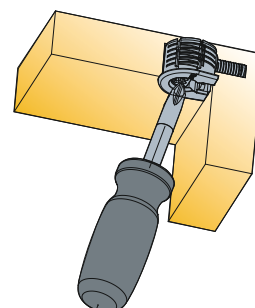


**Drop-on** insertion of shelf panel: only from the top  
Using drop-on connections allows for one-man installation



#### Angledriv feature

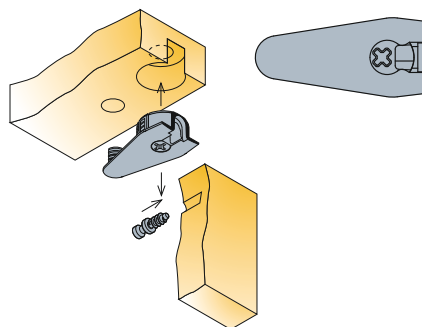
The angledriv feature on the cam allows for the angled position of the screwdriver with the locking action creating a tight and secure joint.



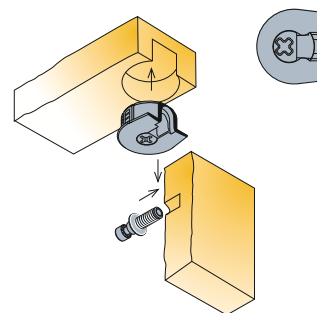
# System Features

## Outrigger/ Non outrigger

Outrigger

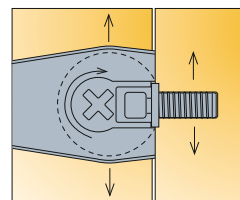
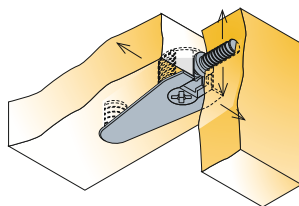


Non outrigger



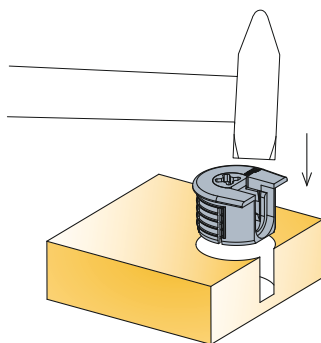
## Expando function

Expanding housings and dowels provide a tight joint.

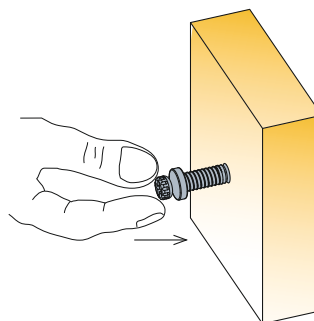


## Assembly

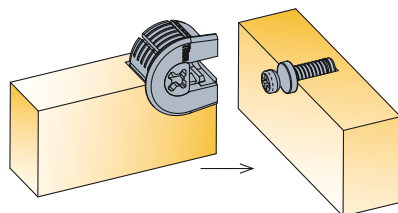
1. Knock the housing into face board



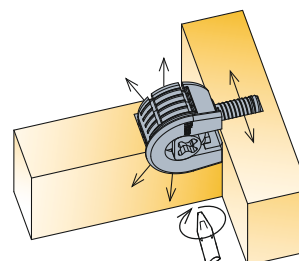
2. Press the dowel into side panel



3. Assemble the panels



4. Tighten the joint

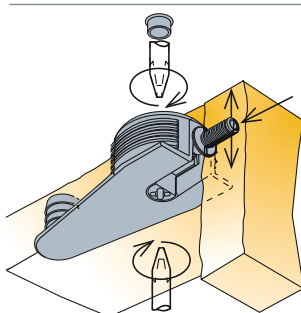

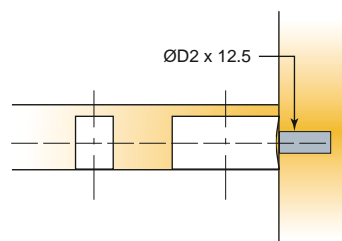

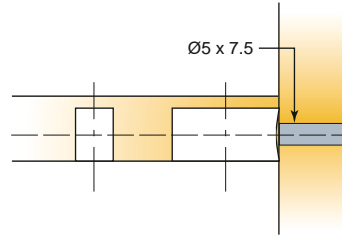


# System 6

## Quickfit-Expando

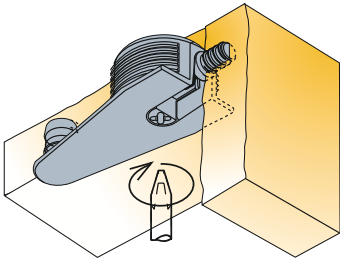
### Expanding Dowels

- Available in Ø5mm, Ø8mm and Ø10mm for panel-to-panel, panel-to-hollow profile and back-to-back applications
- Suitable for applications with all Titus Ø20 and Sys 6 housings
- 'Klix' locking feature provides a strong, vibration proof connection
- Depth stop collar for accurate insertion

 <p>Technical and mounting details</p>	D2	Drilling diameter for dowel thread	Item number	Dark grey
<p>Dowel</p>  <p>D2= Ø5mm</p>  <p>Ø2 x 12.5</p> <p>5000 Pcs</p> <p>Made of zinc, plastic</p>	5	06408 →	880	
<p>Dowel Ø5 x 7.5 back-to-back applications</p>   <p>Ø5 x 7.5</p> <p>5000 Pcs</p> <p>Made of zinc, plastic</p>		06479 →	880	

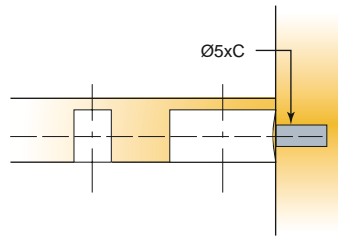
# System 6 Quickfit Dowel

- Available in various Ø3mm and/or Ø5mm thread forms for screw-in, knock-in and/or 'spiked' hole applications
- Suitable for applications with all Titus Ø20mm and Sys 6 housings
- 'Klix' locking feature provides a strong, vibration proof connection
- Dowels feature an integral skirt which acts as a positive stop during insertion



Technical and mounting details

Dowel Ø5



C	Drilling depth for dowel thread	Item number	Material	
			Zinc	Steel
9		06401 →	885	
8		06402 →	885	883
11.5		06406 →	885	883

4500 Pcs (steel)  
5000 Pcs (zinc)

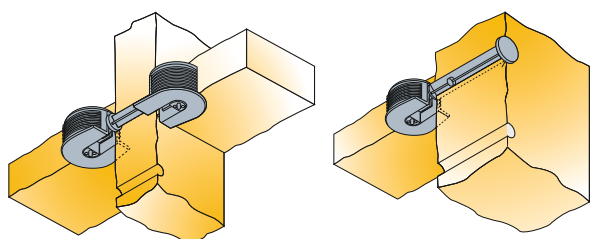
Made of zinc or steel

# System 6

## Double-ended Dowels

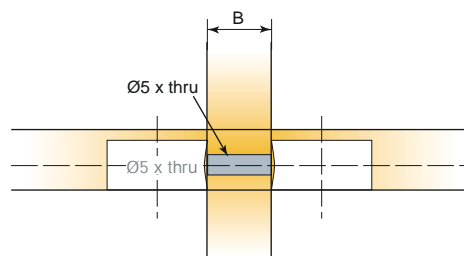
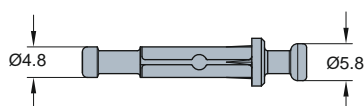
### End Dowels

- For 16mm, 18mm and 19mm board
- Suitable for applications with all Titus Ø20mm and Sys 6 housings
- 'Klix' locking feature provides a strong, vibration proof connection



Technical and mounting details

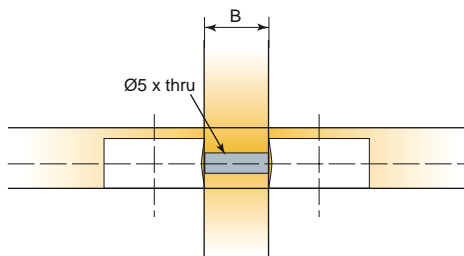
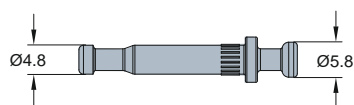
Double-ended dowel



2500 Pcs

Made of zinc

Double-ended dowel



2500 Pcs

Made of steel


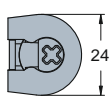
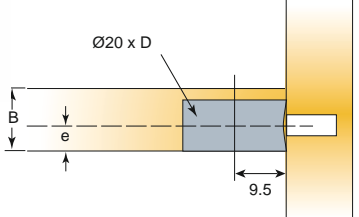

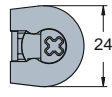
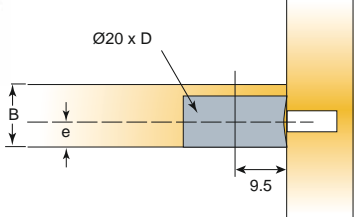

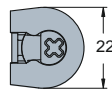
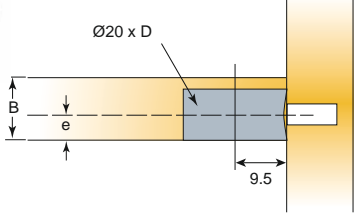
Panel thickness	Item number	Material	
		Steel	Zinc
16	06414 →		885
19	06416 →		885
19	06389 →	883	

# System 6

## 20mm Knock-in Housing

### Non-outrigger

- Available in 15mm/16mm and 18mm/19mm versions for drop-on and/or side-entry applications
- Available in all-metal or plastic/metal options
- 'Klix' locking feature provides a strong vibration proof connection
- Compatible with all Sys 6 screw-in and Quickfit dowels

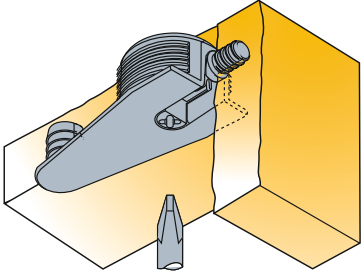








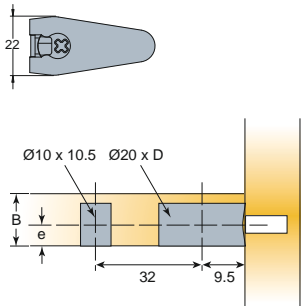

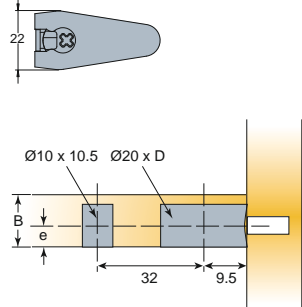

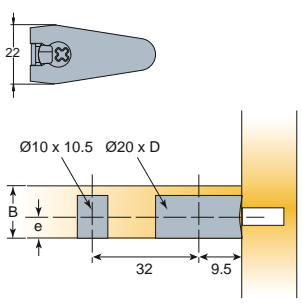
Technical and mounting details		e	B	D	Item number	Maple	Brown	Light grey	Black	White	Silver	Nickel plated
<b>Side-entry</b>   	7.75	15/16	12.5	<b>06381</b> →	841	898		835	877	861	861	
	9.25	18/19	14	<b>06385</b> →	841	898		835	877			
<i>Other colours on request</i>												
<b>Drop-on</b>   	7.75	15/16	12.5	<b>06383</b> →	841	898	882	835	877			
	9.25	18/19	14	<b>06387</b> →	841	898	882	835	877	861		
<i>Other colours on request</i>												
<b>Drop-on</b>   	7.75	15/16	12.5	<b>06447</b> →								847
	9.25	18/19	14	<b>06449</b> →								847
<i>Other colours on request</i>												

# System 6

## 20mm Knock-in Housing

### Outrigger

- Available in 15mm/16mm and 18mm/19mm versions for drop-on and/or side-entry applications
- Available in all-metal or plastic/metal options
- 'Klix' locking feature provides a strong vibration proof connection
- Compatible with all Sys 6 screw-in and Quickfit dowels

 Technical and mounting details		e	B	D	Item number	 Maple	 Brown	 Light grey	 Black	 White	 Silver	 Nickel plated
		Panel thickness	Drilling depth									
<b>Side-entry</b>   1250 Pcs      Made of plastic	9.25	18/19	14	<b>06395</b> →	841	898		835	877	861		
<i>Other colours on request</i>												
<b>Drop-on</b>   1250 Pcs      Made of plastic	7.75	15/16	12.5	<b>06439</b> →	841	898	882	835	877			
	9.25	18/19	14	<b>06397</b> →	841	898	882	835	877	861		
<i>Other colours on request</i>												
<b>Drop-on</b>   500 Pcs      Made of zinc	7.75		12.5	<b>06455</b> →							847	
	9.25		14	<b>06457</b> →							847	
<i>Other colours on request</i>												


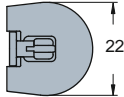
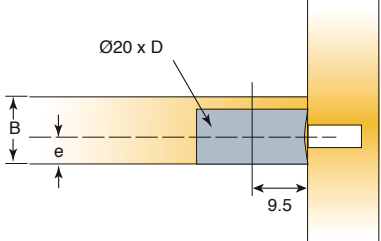

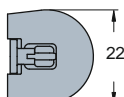
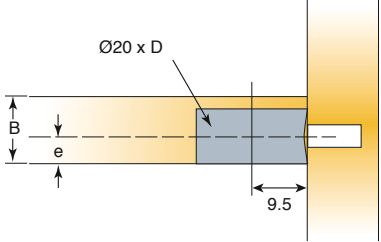


# System 6

## Wedgex Housing

(no Inner Cam)

- Available in 12mm, 15mm/16mm and/or 18mm/19mm versions for Quickfit-6 and/or Standard Dowel applications
- Available in a variety of plastic colours
- Wedgex-6 housing allows easy customer hand-assembly or factory automated insertion
- When used with Quickfit-6 dowels this provides a true tool-less fastening system

Technical and mounting details		B	D			
Panel thickness	Drilling depth	Item number	White	Black	Dark brown	
<p>For use with screw-in dowels</p>   	15/16	12.5	<b>06473</b> →	877	835	898
	18/19	14	<b>06465</b> →	877	835	898
<i>Other colours on request</i>						
<p>2500 Pcs      Made of plastic</p>						
<p>For use with Quickfit dowels</p>   	15/16	12.5	<b>06471</b> →	877	835	898
	18/19	14	<b>06472</b> →	877	835	898
<i>Other colours on request</i>						
<p>2500 Pcs      Made of plastic</p>						

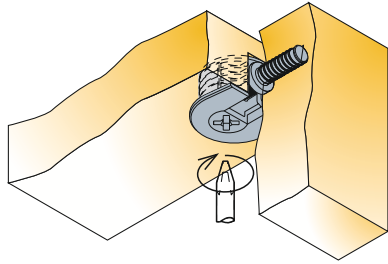
# System 6

## Flush 20mm Knock-in Housing Non-outrigger


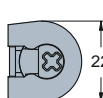
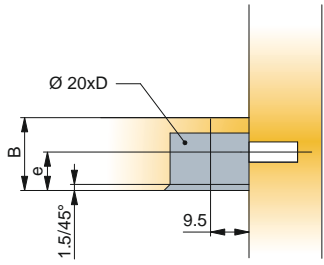

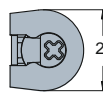
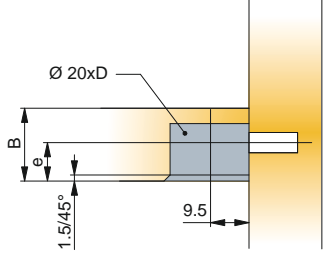

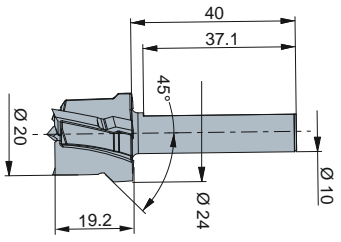


For use with dedicated drill bit only.  
See below.

- A face-boring connector with the flush housing permits easy flat-pack transportation without panel damage
- Available for 19mm board thickness for drop-on and/or side-entry applications
- 'Klix' locking feature provides a strong vibration proof connection
- Compatible with all Sys6 screw-in and Quickfit dowels



Technical and mounting details

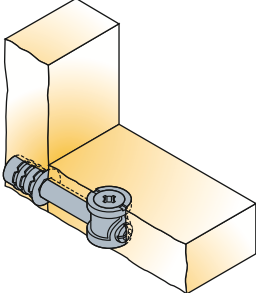

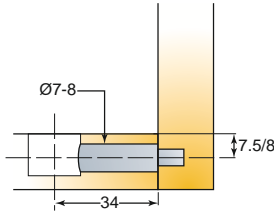

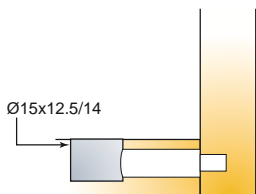

	e	B	D	Item number	White plastic
<p><b>Side-entry</b></p>    <p>1000 Pcs      Housing made of plastic, cam made of zinc</p>	9.5	19	14.2	<b>06343</b> →	877
<p><b>Drop-on</b></p>    <p>1000 Pcs      Housing made of plastic, cam made of zinc</p>	9.5	19	14.2	<b>06348</b> →	877
<p><b>Drill bit for Flush 20mm Knock-in housing</b></p>   <p>1 Pcs      Made of carbon steel</p>				0435 0436	

# System 7

## High Strength Connectors

### Contract Fix™ System

- High performance fastener
- Thread design gives repeatability
- Multi-drive recess
- Higher than average pull up

 <p>Technical and mounting details</p>	Item number	Zinc plated	Zinc
<p><b>M6 Dowel 7x34</b></p>   <p>1000 Pcs      Made of steel</p>	05971 →	883	
<p><b>Housing cylinder 15x12</b></p>   <p>1000 Pcs      Made of zinc</p>	05960 →		885
<p><b>Grub screw</b></p>  <p>2500 Pcs      Made of zinc</p>	05917 →		885



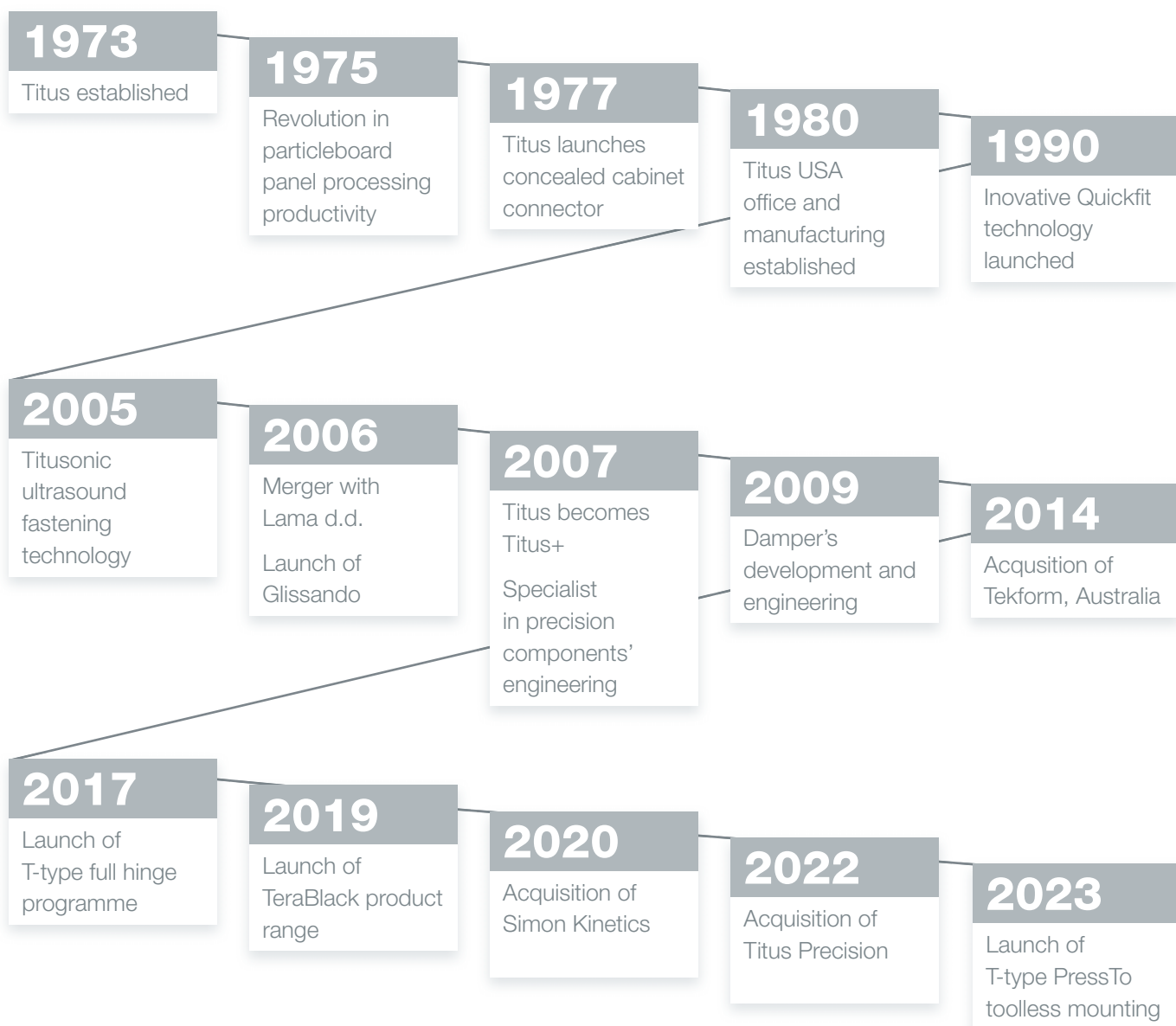
# The Titus Group Profile

# Titus Group

Titus focuses on the design, manufacture and distribution of connectors, concealed hinges drawers and soft closing mechanisms in furniture and household appliances.

Titus Group is owned and managed from its headquarters in United Kingdom. We are able to provide products and services to every customer around the world based on manufacturing and distribution facilities in Europe, North America, China, SE Asia, Australia and New Zealand.

**Quickfit technology makes Titus the World leader in connectors for RTA furniture**



## Vision

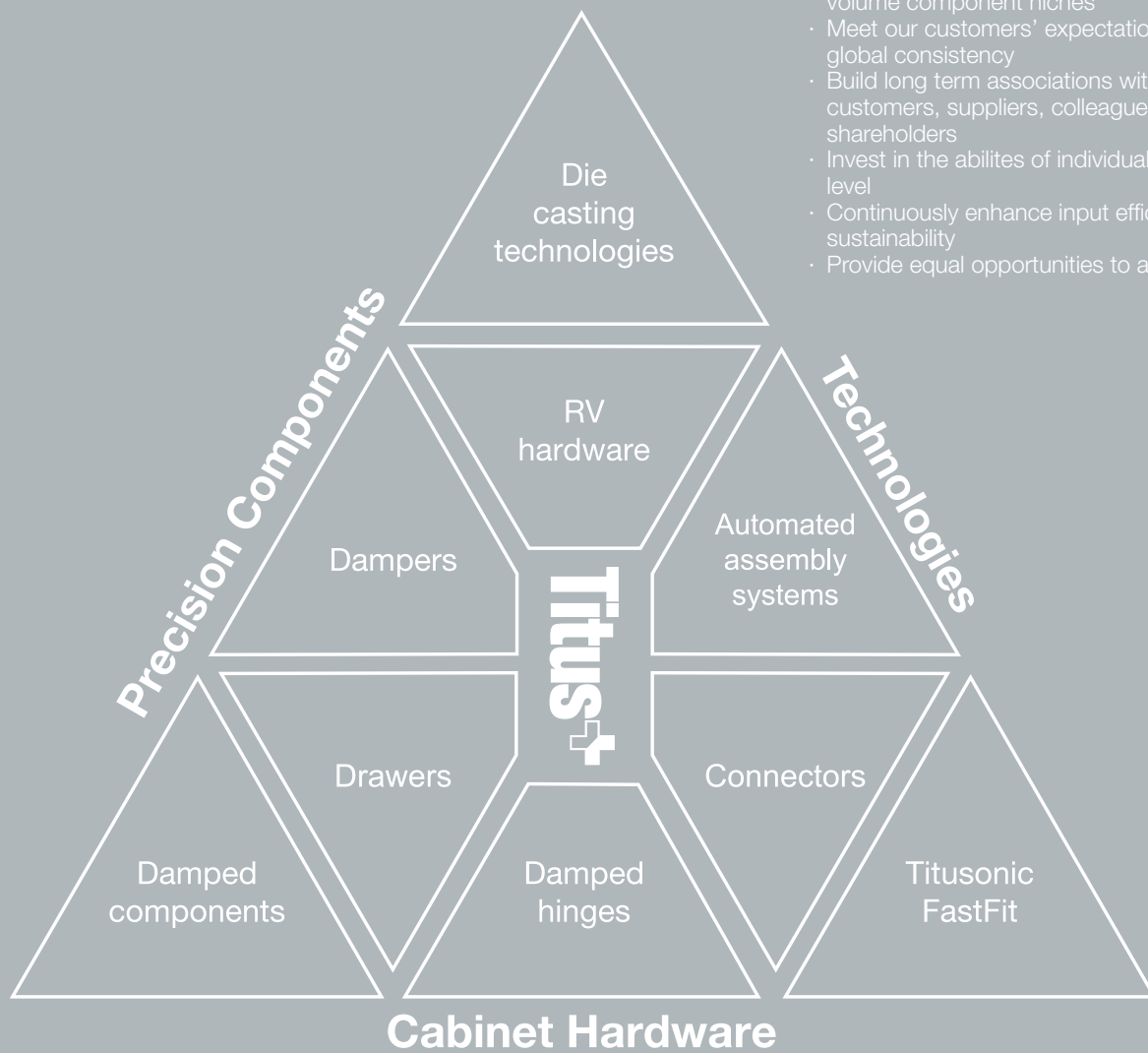
To be the world's best in engineering for precision components

## Mission

To provide manufacturers with component solutions that improve their competitiveness

## Titus Business Principles

- Gain total knowledge of our customers and their markets
- Focus on identifying and creating high volume component niches
- Meet our customers' expectations with global consistency
- Build long term associations with customers, suppliers, colleagues and shareholders
- Invest in the abilities of individuals at every level
- Continuously enhance input efficiency and sustainability
- Provide equal opportunities to all



## Cabinet Hardware

- Cabinet connectors
- Concealed hinges
- Damping mechanisms
- Kitchen drawers and accessories
- RV hardware

## Damping and Kinetics

Hydraulic dampers and Slidix mechanisms for custom applications in home equipment

## Titus Technologies

- Automated assembly systems
- Die casting technologies
- Titusonic - Ultrasound fastening
- FastFit insertion technology

# 'Totally Integrated Engineering'

## Product Design

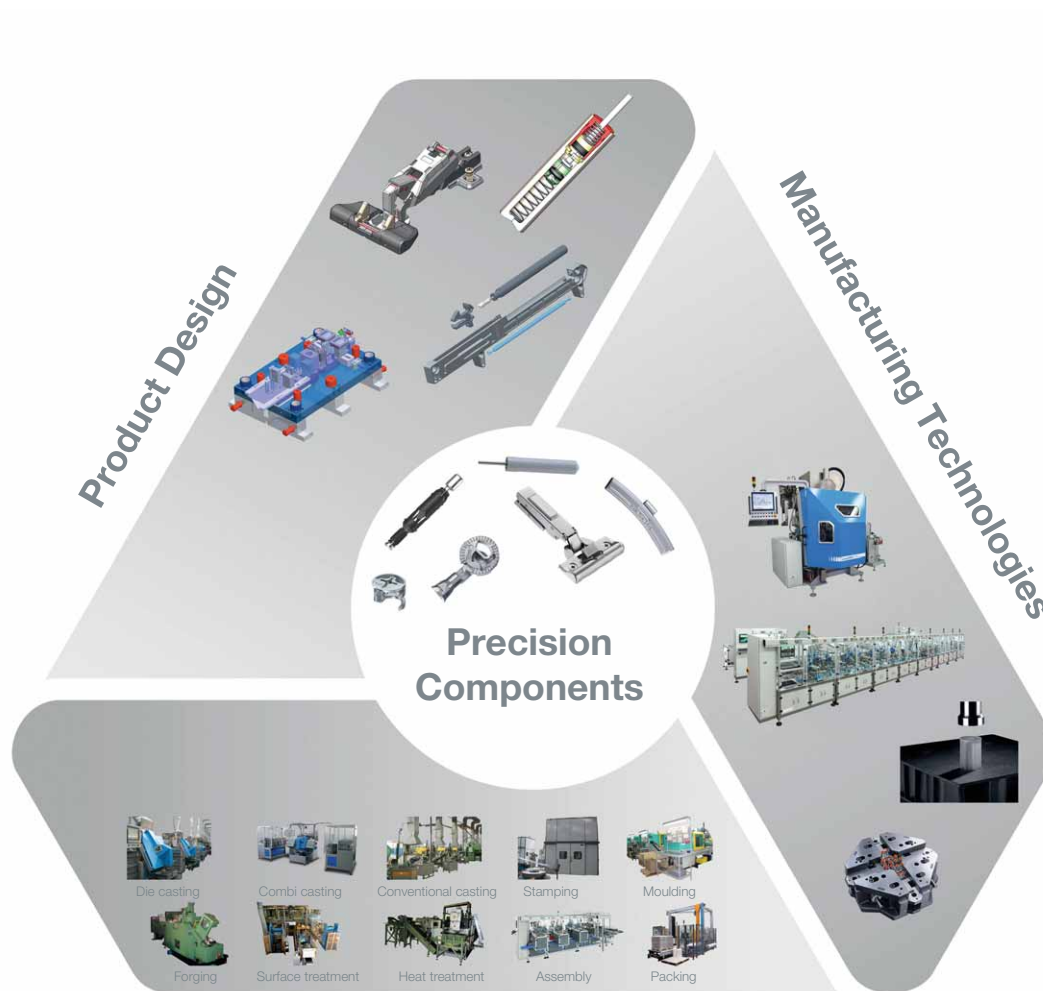
Design and engineering of unique components  
Consistent and repeatable product quality

## Manufacturing Technologies

To improve productivity and product quality

## Manufacturing Operations

A wide array of technologies and services required for high volume production of precision components available in-house



## Manufacturing Operations

## Fittings for purpose

Unique product advantages for better value for money and lower 'total installed cost'

## Innovations that improve

With less parts, less different parts, less preparation actions, faster assembly

## Fast time-to-market



# Quality

## Continuous Improvement

The Titus Group Mission, to improve the competitiveness of our customers, encourages us to continuously improve our products, services, processes and competencies of our employees.

## Quality

We believe that the Titus Mission is achieved most effectively through the management of our design, manufacturing and service activities in conformance with the ISO 9001 standard for quality management. Quality has a broad meaning for us: it is our guide to the selection of materials, work, processes, internal relations and cooperation with partners.

## Products

Our integrated quality system produces technically optimized products of high quality. They are assessed regularly in our own test labs as well as by internationally renowned institutions, such as LGA from Germany, CTBA from France, FIRA from United Kingdom, CATAS from Italy, AIDIMA from Spain, and others.

The collage features several documents related to product testing and technical specifications:

- CATAS Certificate:** A certificate from CATAS (Centro Tecnológico de Aprobación de Materiales) for a door handle, model "BASIC" ref. 248.0249.05. It includes details like date of receipt (17-03-2000) and date of emission (17-04-2000).
- LGA Certificate:** A certificate from LGA (Laboratory for Quality Assurance) for a door handle, model "BASIC" ref. 248.0249.05. It includes details like date of receipt (17-03-2000) and date of emission (17-04-2000).
- AIDIMA Certificate:** A certificate from AIDIMA (Asociación Internacional de Instituciones de Ensayos) for a door handle, model "BASIC" ref. 248.0249.05. It includes details like date of receipt (17-03-2000) and date of emission (17-04-2000).
- Technical Drawing:** A technical drawing of a door handle, model "BASIC" ref. 248.0249.05. It includes details like date of receipt (17-03-2000) and date of emission (17-04-2000).

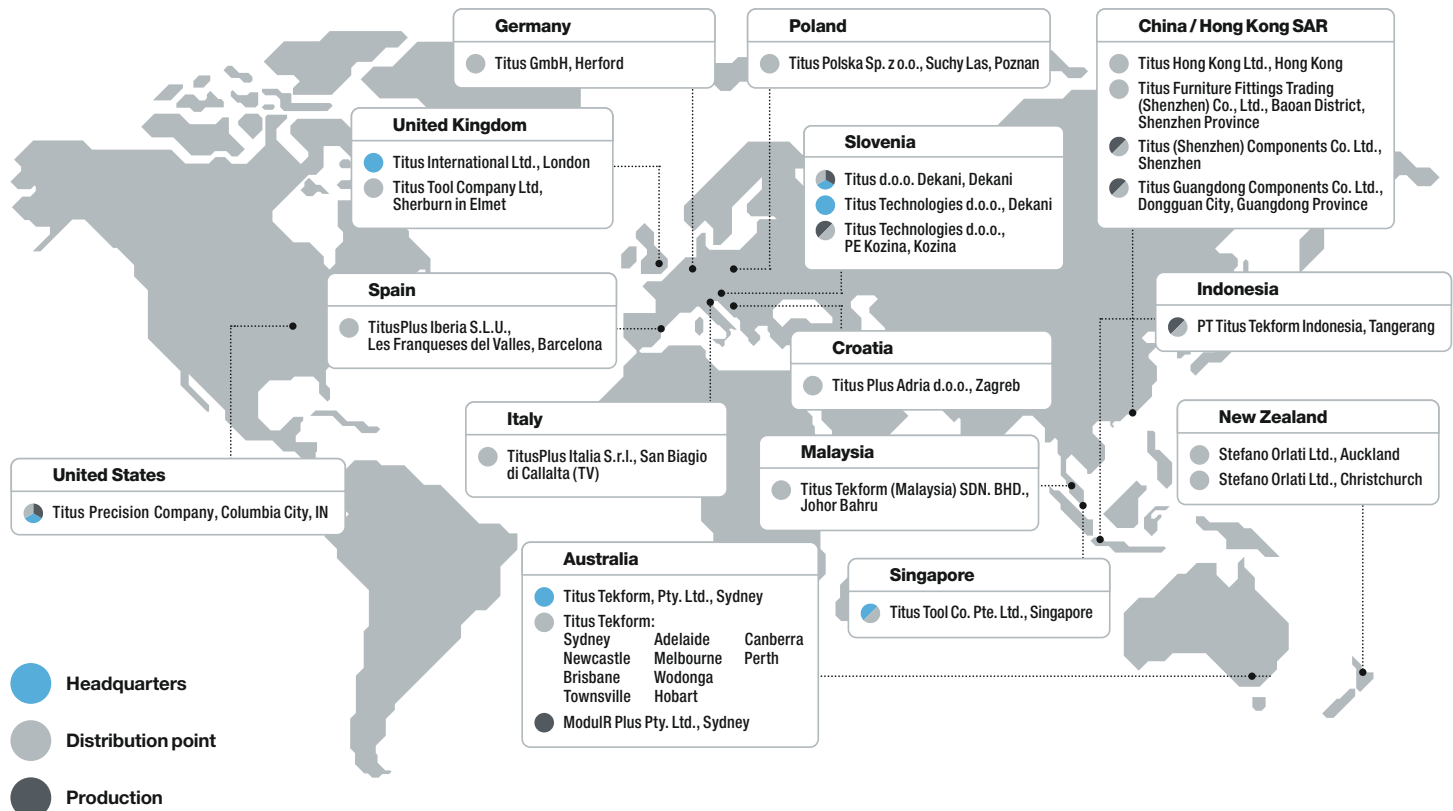
The FIRA Test Certificate (FIRA A BM TRADA Company) confirms that the product, a door handle, model BS 6222-2:2009 Test Level H - Door Testing Only, has been tested and successfully satisfied the applicable test requirements. The certificate includes the following details:

- Product:** Ringo de conchete, diámetro 35 mm, modelo "BASIC" ref. 248.0249.05
- Fabricante:** LAMA
- Distribuidor:** DACMA, LAMA, S.L. Comercio y Fomento, 17 Avda. d'Argemir, 100, 08013 Barcelona, España
- Ensayo:** Adhesión a los empalmes de la manija
- Resultado:** Cumple satisfactoriamente las especificaciones técnicas por lo tanto en los siguientes ensayos:

ENSAJO	NORMA	RESULTADO
Resistencia a la tracción y a la compresión	UNE 56841-83	Conforme
Resistencia a la flexión	UNE 56841-83	Conforme
Resistencia a la torsión	UNE 56841-83	Conforme
Resistencia a la tracción y a la compresión	UNE 56841-83	Conforme
Resistencia a la flexión	UNE 56841-83	Conforme
Resistencia a la torsión	UNE 56841-83	Conforme

The certificate is signed by the Technical Specialist and dated 20 August 2014.

# Worldwide Design, Manufacturing and Distribution Capabilities



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