Important information

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 in others. 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.

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.

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.

*Non preferred articles

All Item numbers in the catalogue marked with * are for non preferred non stock items available upon special request. For such products, extended delivery times may apply.

Trademarks

Titus and Titusonic are registered trademarks of Titus International Ltd. Lama is a registered trademark of Lama d.d. Dekani and Huwil is a registered trademark of HUWIL-Werke GmbH, WoodWelding is a registered trademark of WW SA.

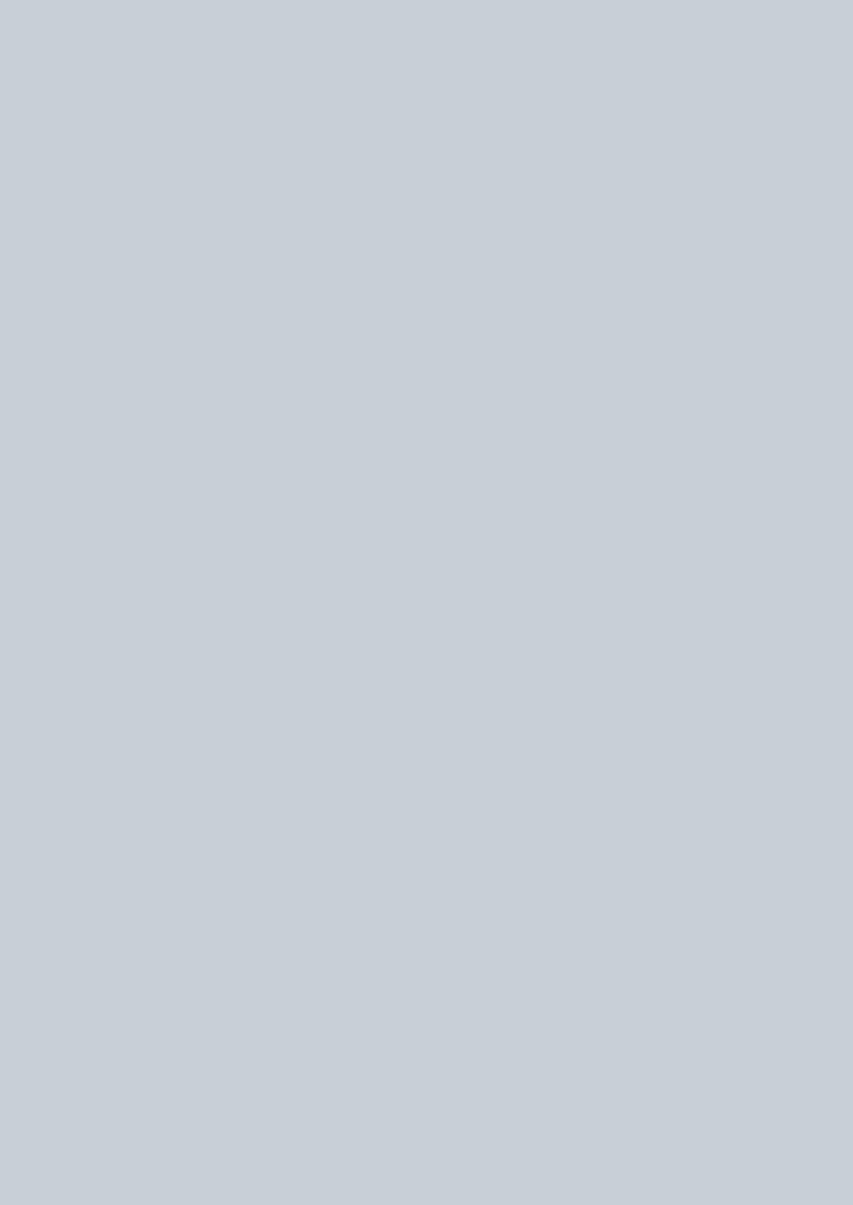
Contents

 1

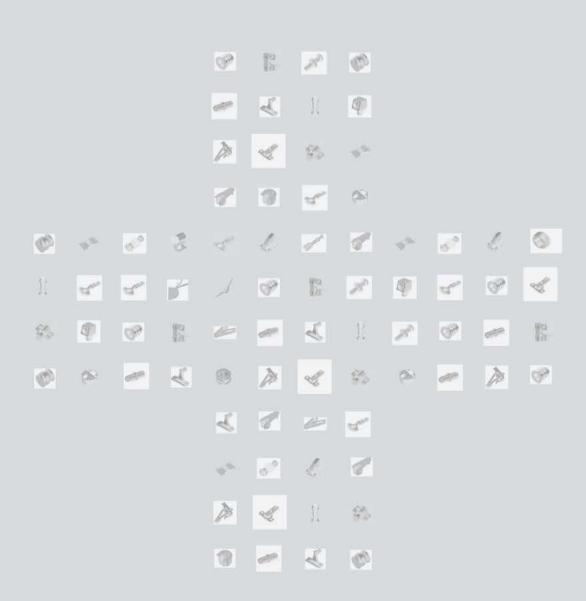
 2

 3

Connectors	- System 1 - System 3 - System 4 - System 5 - System 6 - System 7	1.1 1.7 1.9 1.11 1.15 1.31 1.40
Soft closing systems	- Information - Glissando add-on hinge soft closing system - Glissando stand-alone soft closing system - Glissando for drawers	2.1 2.3 2.11 2.15 2.17
Concealed hinges	- Information - ST-i2 plus - ST plus - ST - Push latch	3.1 3.3 3.19 3.21 3.25 3.37



Connectors



Connectors

Product guide

Page System 1 Fittings for rigid assembly systems a highly cost-efective and 1.7 rigid assembly system for factory, consumer and home assembly System 3 two component rigid face and Fittings for face and edge boring 1.9 edge drilling fastening System 4 a range of low-cost one-piece Fittings for face-boring only 1.11 fittings for high volume home assembly applications System 5 Cams and dowels a comprehensive range of 1.15 cam and dowel connecting fittings for all cabinet applications System 6 Quickfit-Expando connectors face boring expanding 1.31 connectors for all cabinet

applications

System 7

Heavy duty cams and dowels

high quality fittings for offices and public furniture

1.40

Page

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 TL2, TL4 with the built-in self adjustment feature is the only available dowel that allows for pre-insertion.

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

Connectors

Information

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

Total quantity of parts to assemble to assemble types of parts 12 3 4 5 6 15 72 4 12 3 4 5 6 12 3 4 5 6 12 3 4 5 6 12 3 4 5 6 12 3 4 12 3 4 12 3

(T+A)N = CAF

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

- High customer satisfaction
 - Improved productivity
 - Higher profits

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.

How does it work?

Comparative CAF scores to assemble a hand held demonstrator



	Т	Α	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	4

System 1 Fittings for rigid assembly systems

System features

Double locking carcase screw

- · Zinc diecast for precision
- · Titus Double locking carcase 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™ carcase construction screw

The Hi-Lo™ carcase 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 quicker 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

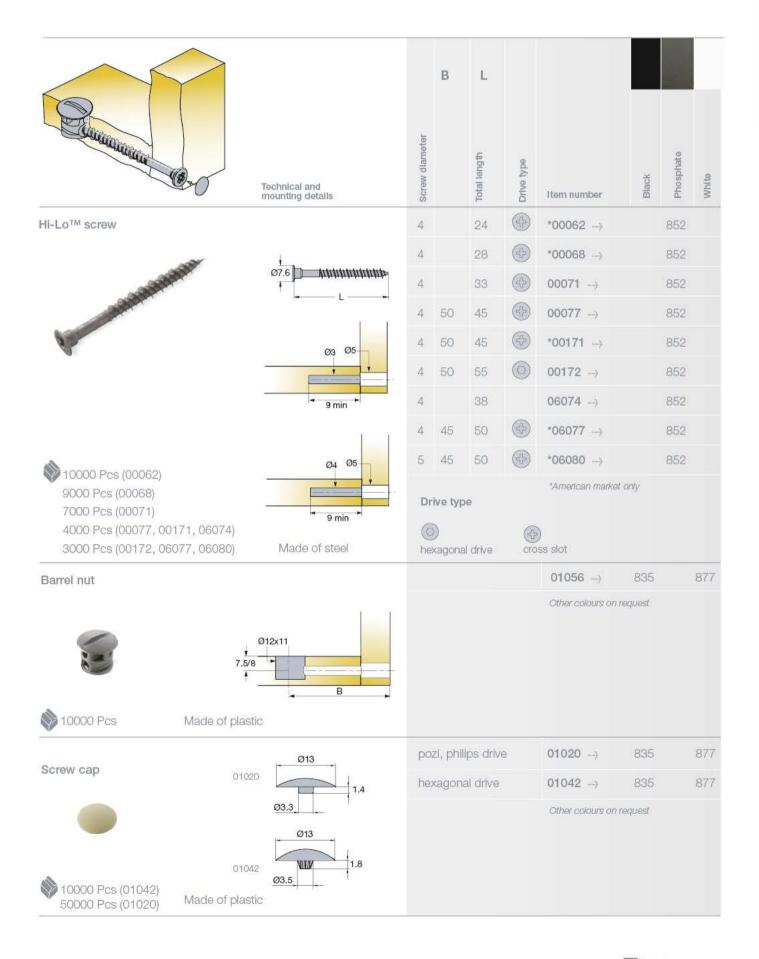
Cover caps

- · Available in multiple colours
- $\cdot\,$ 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

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

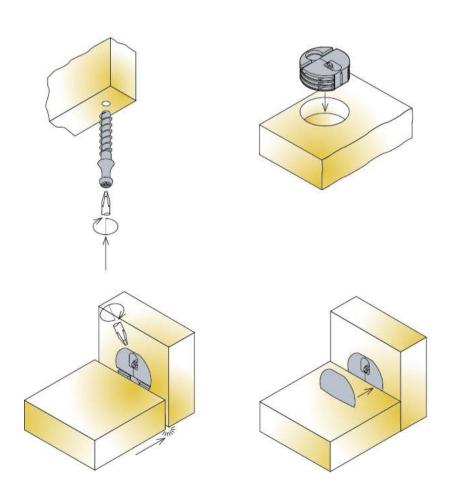


System 3 Fittings for face and edge boring

System features

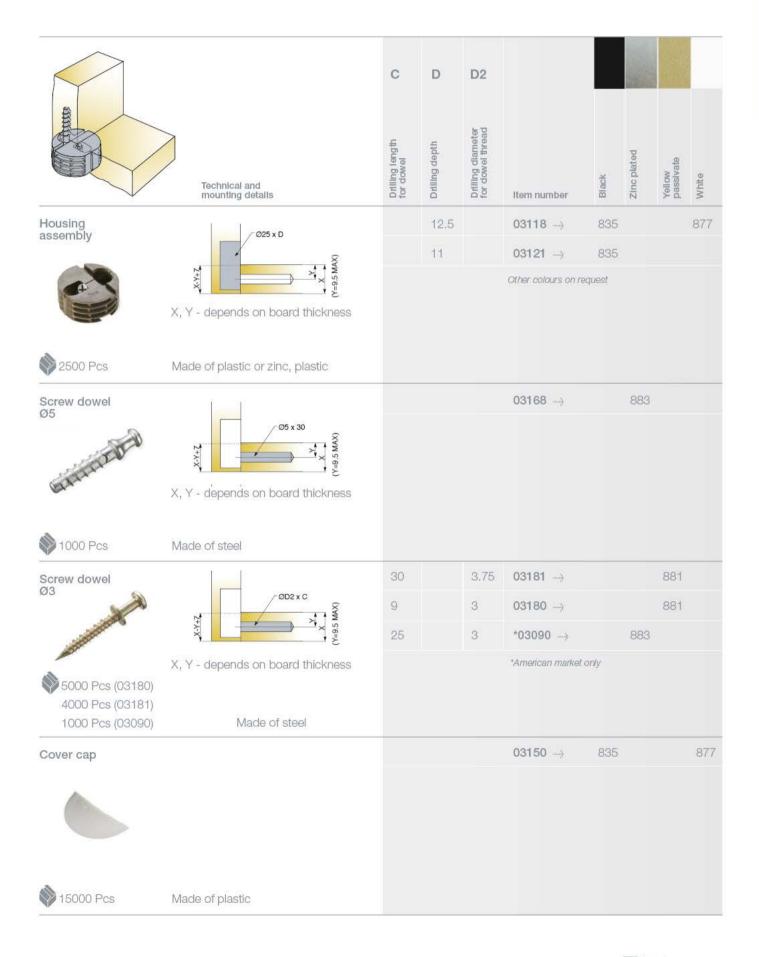
Titus System 3 is a two component rigid face and edge drilled fastening with half turn to fasten. System 3 offers almost full concealment and wide tolerances in use.

- · 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



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
- · QuicklocTM versions need only one turn to tighten for fast assembly
- · Foolproof consumer home insertion

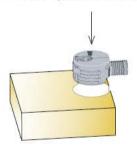
Quickloc™ One-piece connector

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

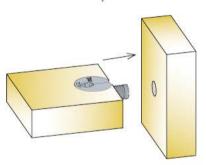
- · High degree of drilling tolerance
- · Push-in design
- · Tool-free insertion
- · Integrated expanding housing and dowel provide consistently stronger joints
- · 'Klix' locking system

Quickloc™ Assembly

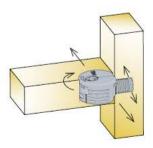
1. Press Quickloc into the face board



2. Assemble the panels



3. Tighten in less than one turn



System 4 Quickloc™

One piece expanding connector

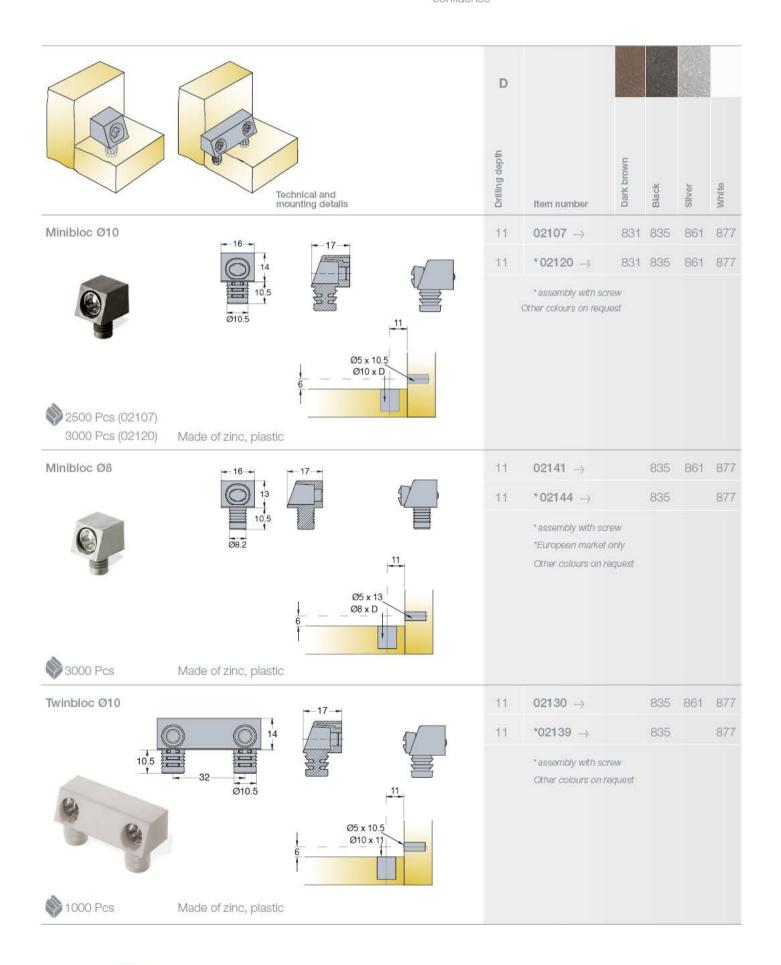
- · An innovative, one-piece connector, capable of hand insertion
- · Is highly tolerant and tightens in less than one turn
- · Is a face-bored product
- Offers a high degree of drilling tolerance and is the only connector of its type to provide pull-up of cabinet panels when tightened



System 4 Fittings for face-boring only

Minibloc™ / Twinbloc™

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



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)

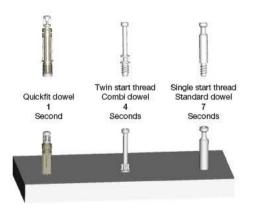
 'traditional' design, smooth surface,
 best strength performance
- Combi dowels (zinc and steel) high precision of zinc, strength of steel, 100% dimensional accuracy and optimal performance

Titus Klix™

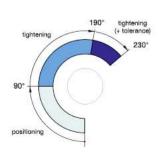
Titus Klix locking system ensures the engagement of the interlocking teeth on cam and dowel providing:

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

Dowel insertion time comparison

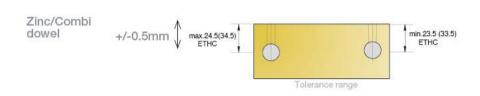


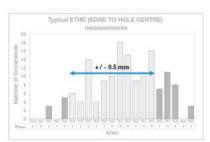
2 o'clock lock Smooth closing Linear cam profile assures smooth, firm tightening action and greater pull-up. The cam always locks at 2 o'clock lock (230°), enabling greater consumer confidence in use while improving furniture quality.

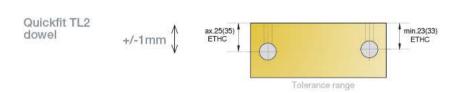


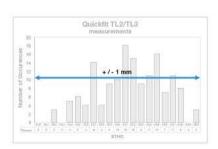
Drilling tolerances

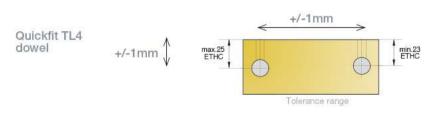
Optimal performance and perfect joint even with inaccurate drillings.

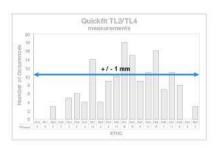










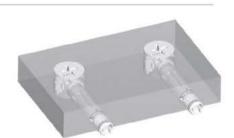


ETHC=Edge To Hole Center

Dowels for factory insertion

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

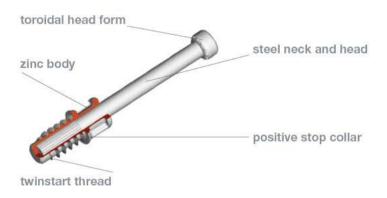
- · Easier packing
- · Less damages in handling
- · Perfect for the RTA market



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.

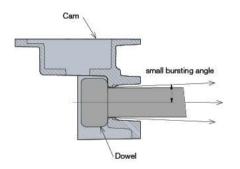


The steel neck and head provide better resistance to torsion and pull-out enabling a high performance joint

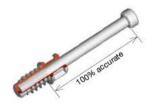
Zinc body:

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

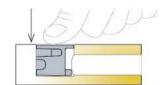
Quickfit connectors

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 screwin assembly and the potential panel damage.

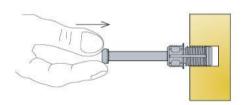
The Quickfit™ range of dowels has been extended to provide a complete family of fittings available in diameters of 5mm, 8mm and 10mm and lenghts of 24mm and 34mm. These dowels are compatible with the range of Titus Ø15mm cams.

Assembly

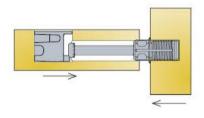
1. Press the cam into face board



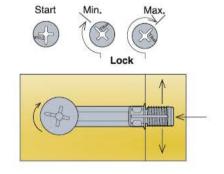
2. Insert the dowel into side panel



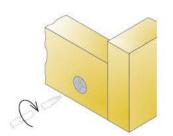
3. Assemble the panels



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.

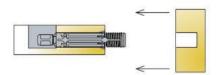
Quickfit-TL™ provides a tolerance of +1/-1mm on drilling operation while ensuring that the final result is a perfectly precise and aligned joint. No other assembly fittings system can offer such tolerances and still maintain a perfect joint.

Assembly

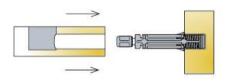
1. Press the cam into face board



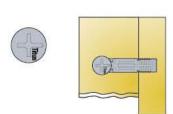
2a. Either push dowel into edge hole or...



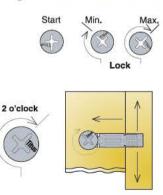
2b. Insert the dowel into side panel



3. Assemble the panels



4. Tighten cam to lock dowel



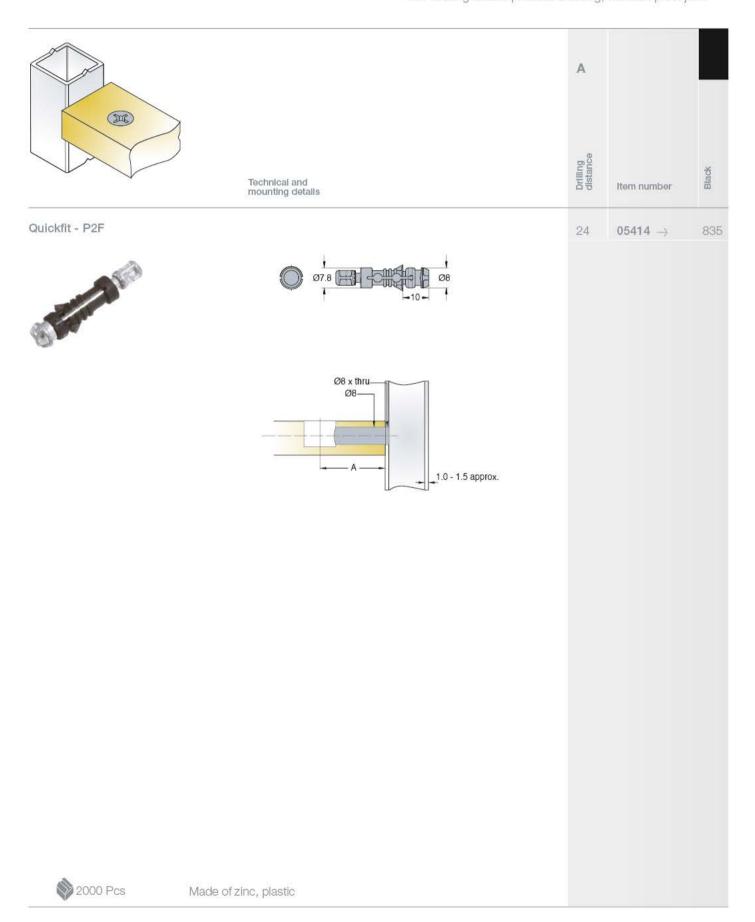
Quickfit-TL dowels

- Available in Ø5mm and Ø8mm for panel-to-panel applications
- Suitable for use with all Ø15mm Cam2000 and Cam3000 products
- · 'Klix' locking feature provides a strong, vibration proof joint
- Highly tolerant in edge-inserted, TL3 also in face-inserted applications



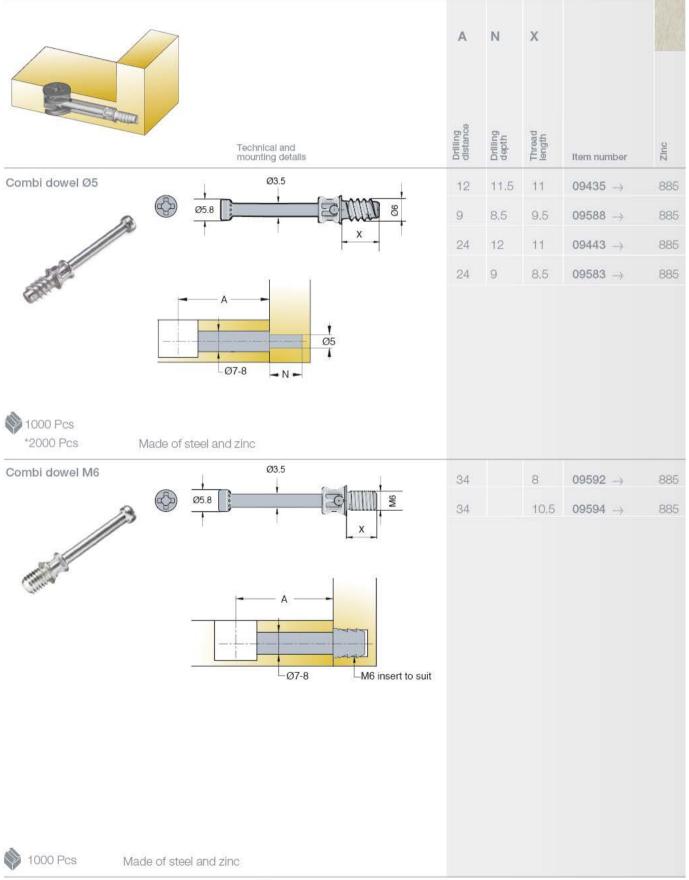
Quickfit-P2F dowels

- The only product to enable standard panel drilling and connection of panel and hollow profile
- Available in Ø8mm for panel-to-hollow profile applications
- Suitable for use with all Ø15mm Cam2000 and Cam3000 products
- · 'Klix' locking feature provides a strong, vibration proof joint



Combi dowel

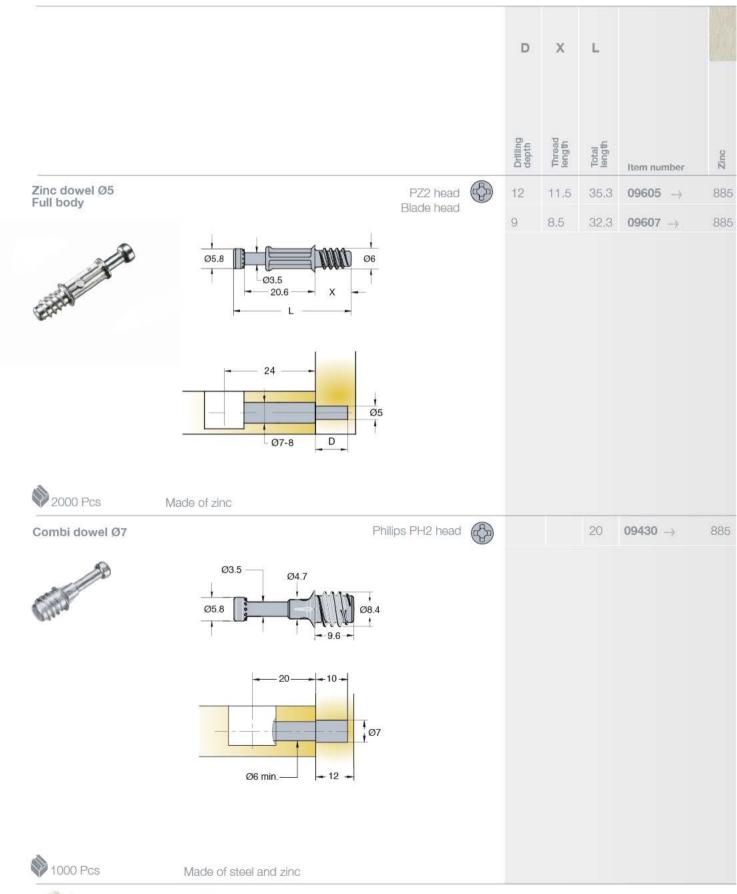
- High quality zinc-steel dowel with greater resistance to torsion and pull-out
- Suitable for use with all Ø12mm and Ø15mm Cam2000 and Cam3000 products
- 'Klix' locking feature provides a strong, vibration proof joint
- · Twinstart thread for faster and reliable insertion







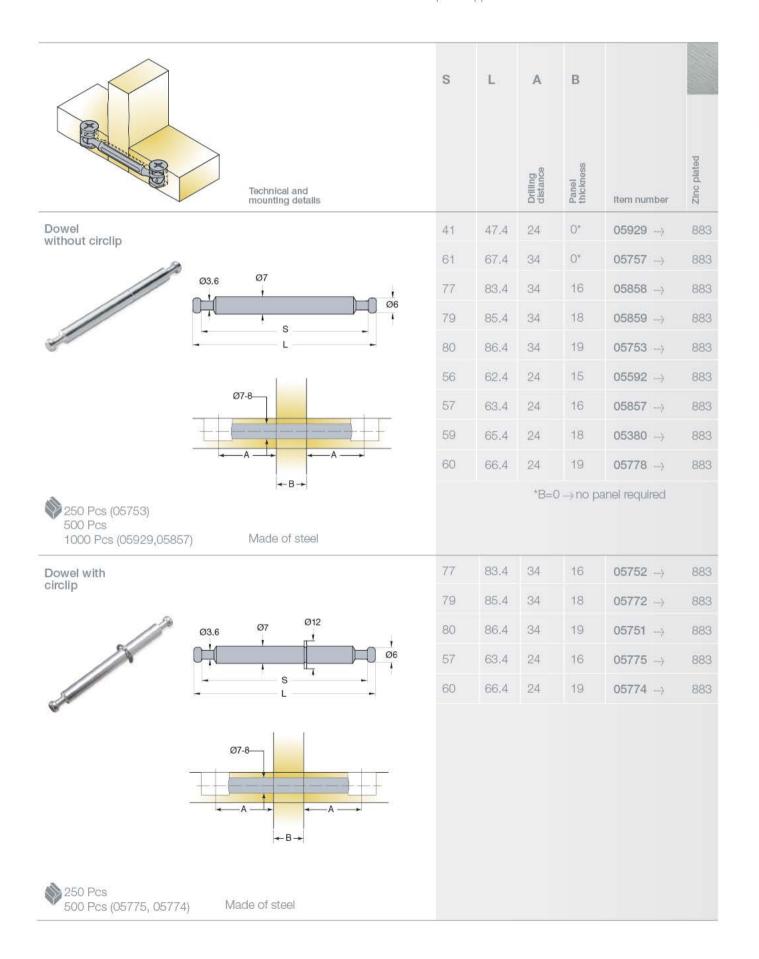
Zinc dowel



Titus

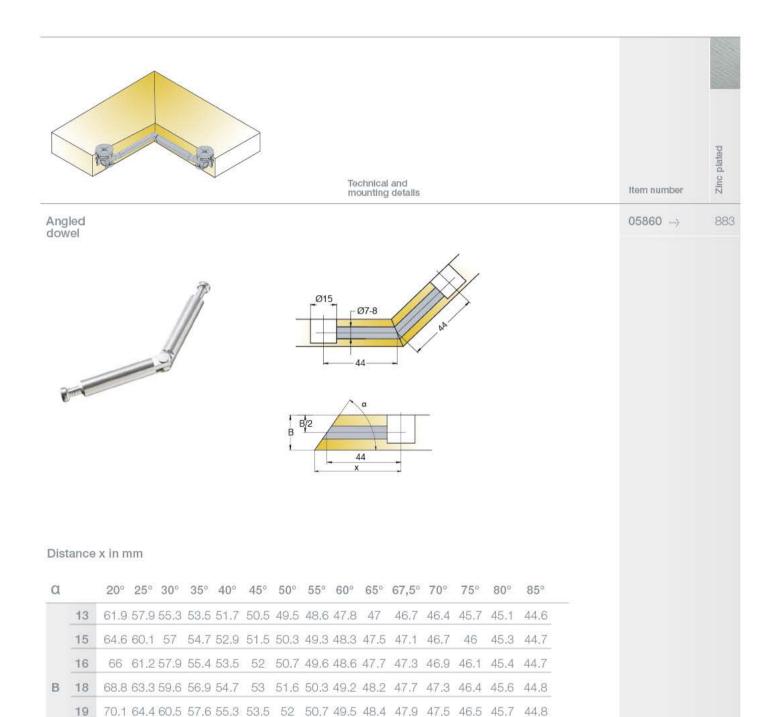
Double-ended dowel

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



Angled dowels

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



46.9 45.9

45

45

250 Pcs

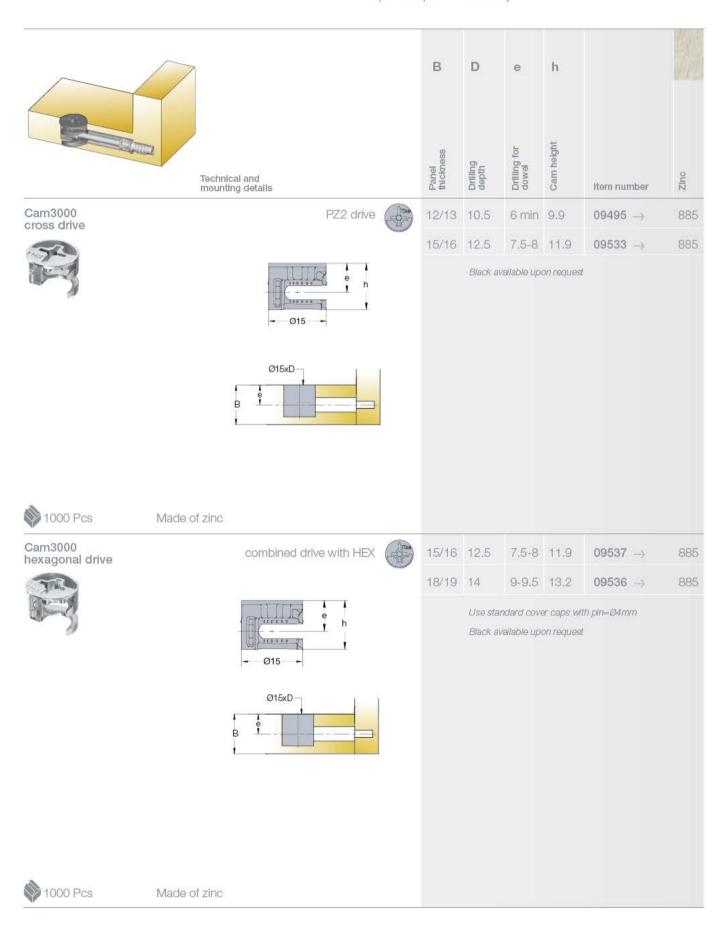
Made of steel

74.2 67.6 63.1 59.7 57.1 55 53.2 51.7 50.4 49.1 48.6 48

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

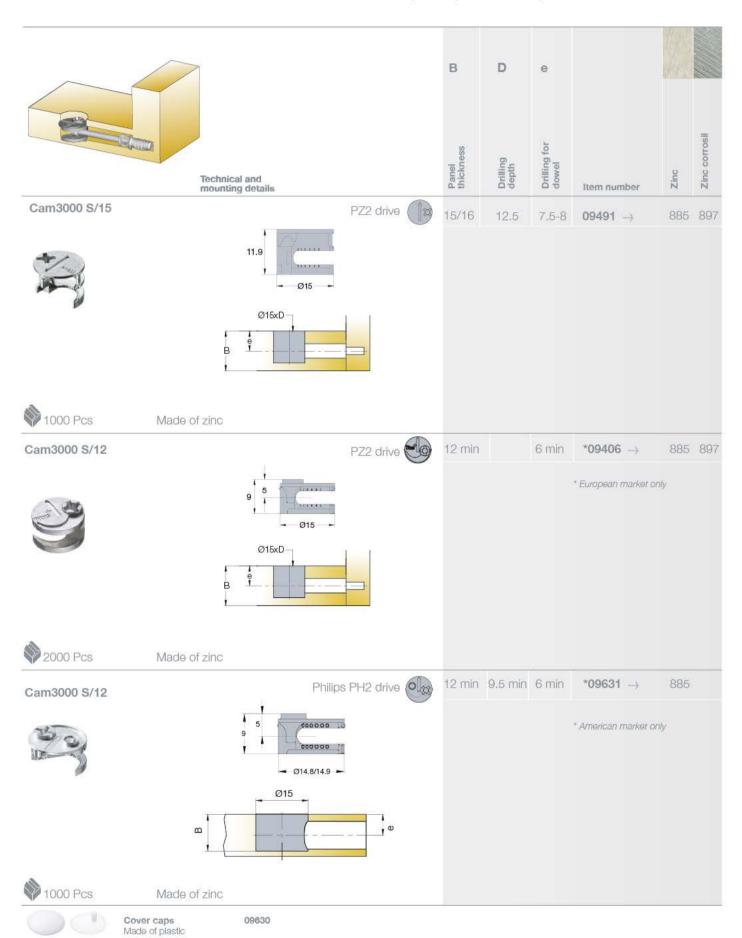
Ø15mm Cam3000

- 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 TL2 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



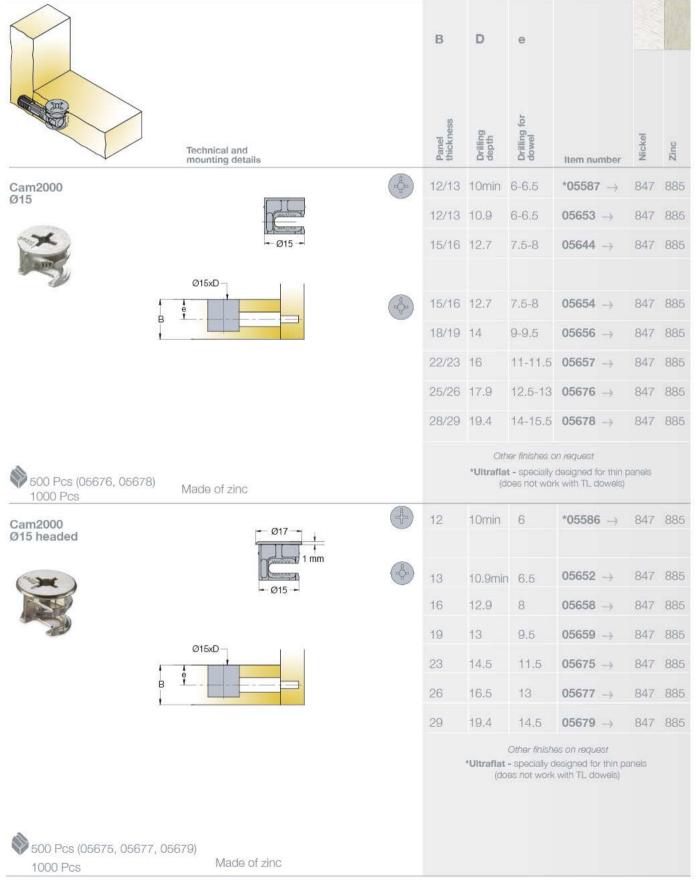
Ø15mm Cam3000 S

- Innovative design offers optimal performance with maximum cost effectiveness
- Suitable for use with Combi dowels, forged steel dowels and Quickfit 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



Ø15mm Cam2000

- Available in a variety of head, drive recess and board thickness versions to suit most applications
- · Suitable for use with all Titus dowels
- · "Klix" locking feature provides a strong, vibration proof joint
- Linear cam profile results in smooth, easy cam rotation and dowel pull-up

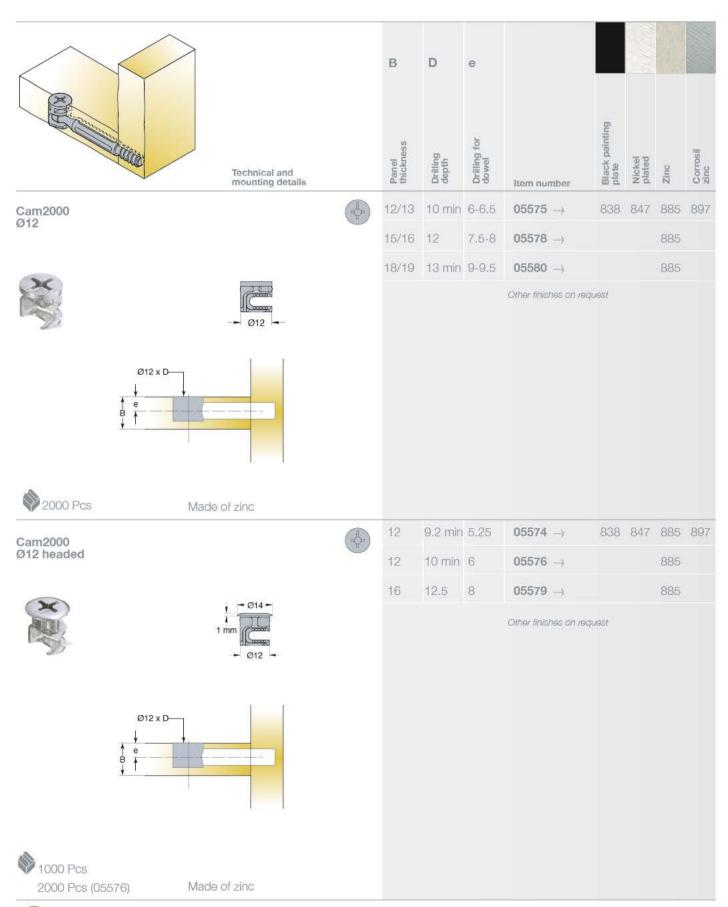




Cover caps for Ø15 cams Made of plastic ---) see page 1.43

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
- · Linear cam profile results in smooth, easy cam rotation and dowel pull-up



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
- · Toolless fastening capable versions
- Back-to-back fastenings for common vertical panel fixing of shelves

System 6 consists of a range of 20mm and 25mm diameter housings, Quickfit™ and conventional dowels, end dowels and double ended dowels.

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

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

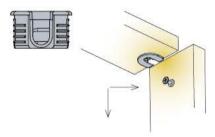
Applications

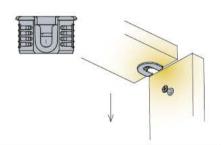
Titus System 6 is ideal for use in high volume production of case goods, closet and garage storage systems. Because no edge boring is required, it is an excellent choice for manufacturing environments with limited drilling capacity.

Side-entry Drop-on

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

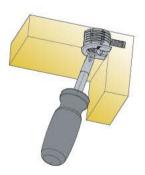
Drop-on insertion of shelf panel: only from the top Using drop-on connections allows for one-man installation





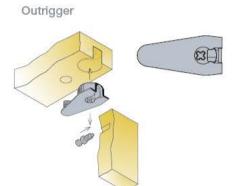
Angledriv feature

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

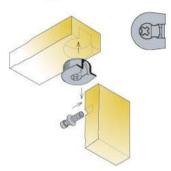


System features

Outrigger/ Non outrigger

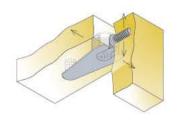


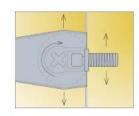
Non outrigger



Expando function

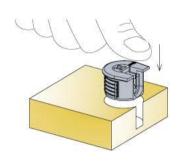
Expanding housings and dowels provide a tight joint.



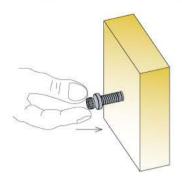


Assembly

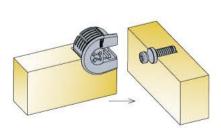
1. Press the housing into face board



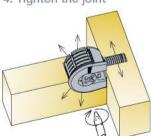
2. Press the dowel into side panel



3. Assemble the panels



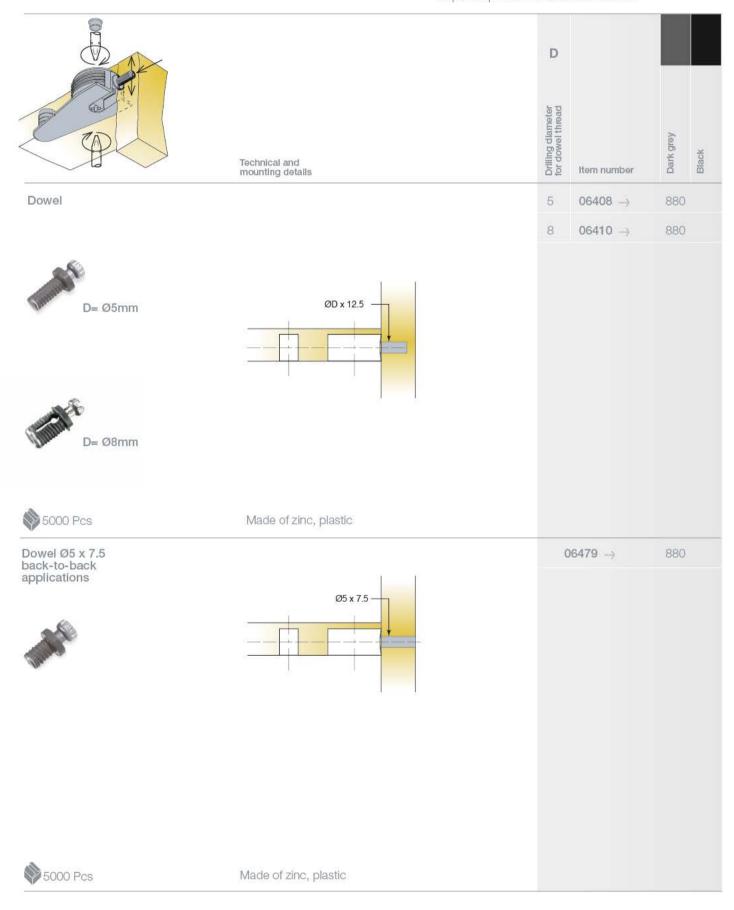
4. Tighten the joint



System 6 Quickfit-Expando

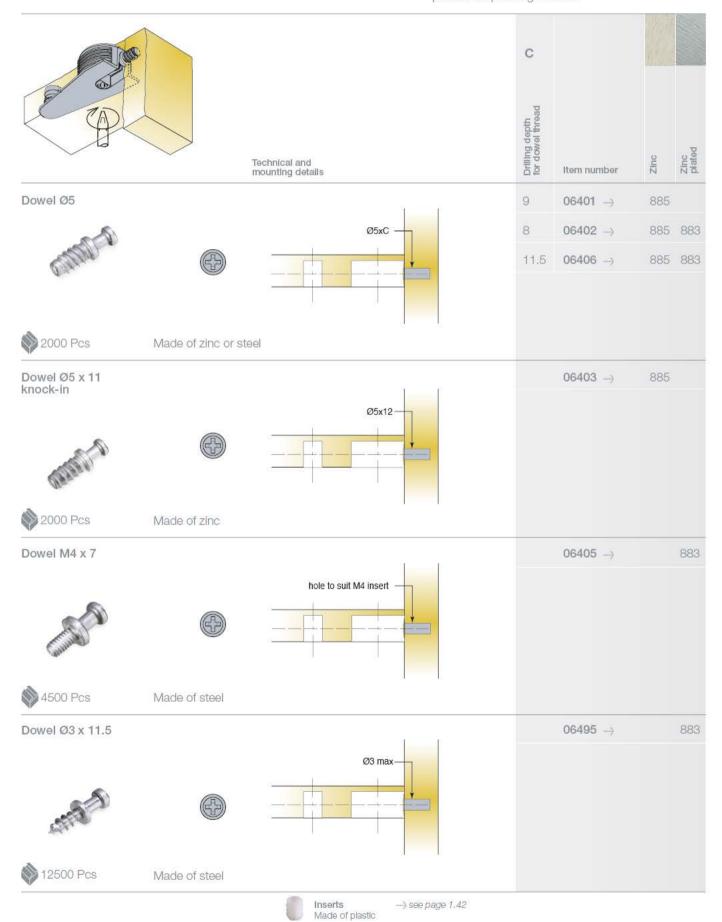
Expanding dowels

- Available in Ø5mm, Ø8mm and Ø10mm for panelto-panel, panel-to-hollow profile and back-to-back applications
- Suitable for applications with all Titus Ø20 and/or Ø25mm Expando-6 housings
- 'Klix' locking feature provides a strong, vibration proof connection
- · Depth stop collar for accurate insertion



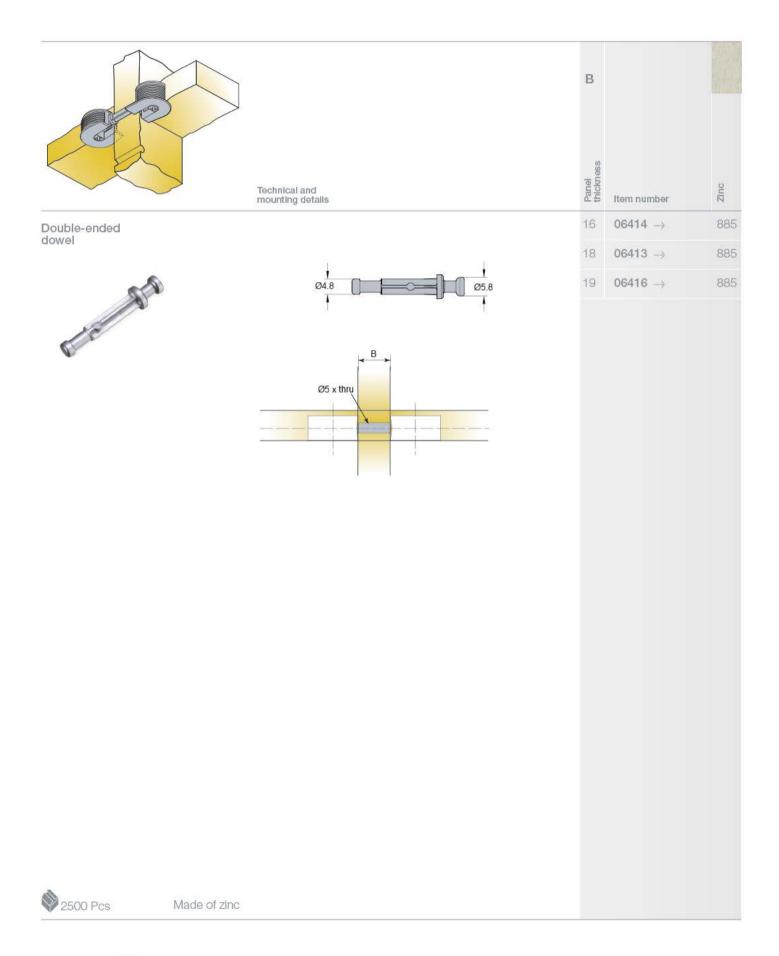
Dowels

- 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/ or Ø25mm Expando-6 housings
- 'Klix' locking feature provides a strong, vibration proof connection
- Dowels feature an integral skirt which acts as a positive stop during insertion



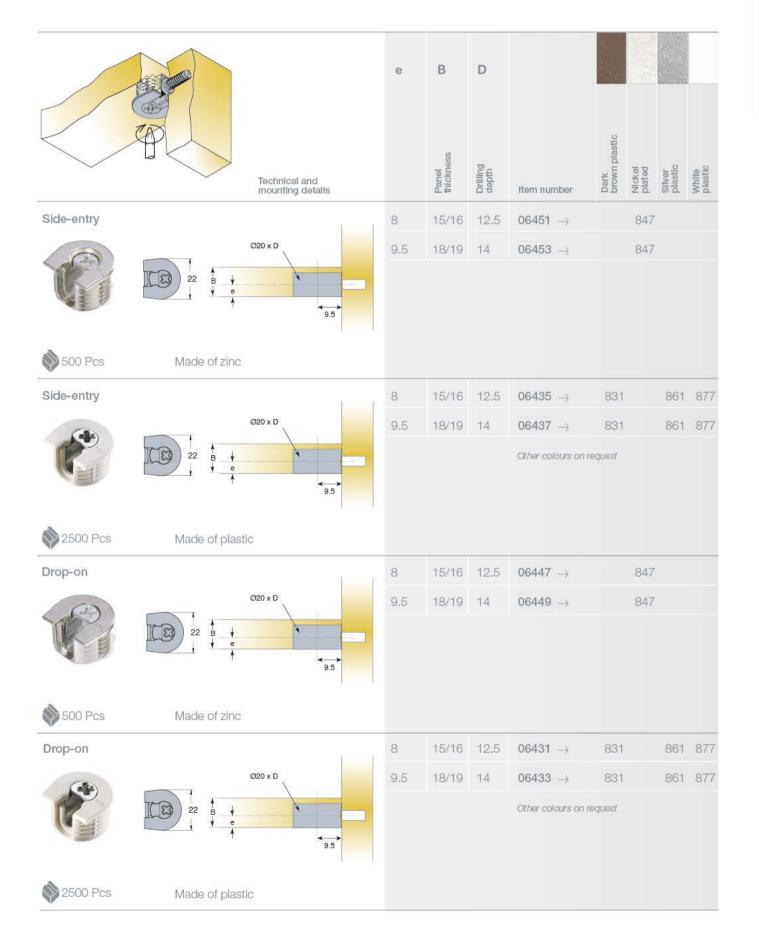
Double-ended dowels

- · For 16mm, 18mm and 19mm board
- Suitable for applications with all Titus Ø20mm and/ or Ø25mm Expando-6 housings
- 'Klix' locking feature provides a strong, vibration proof connection



20mm expanding 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 screw-in and Quickfit-6 dowels



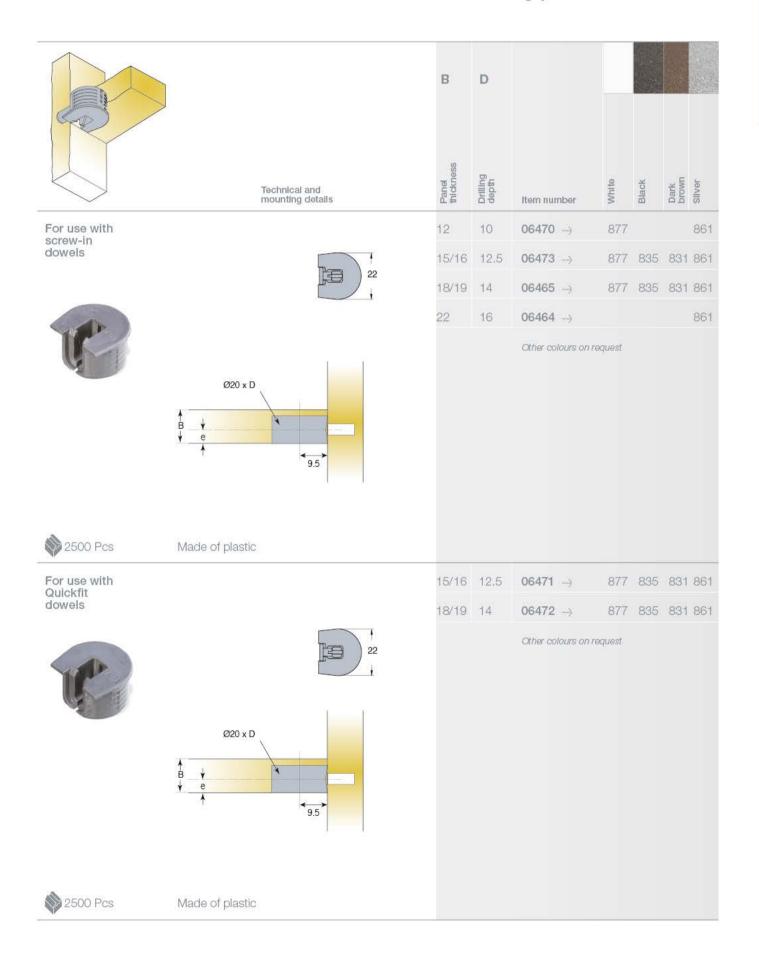
20mm expanding housing outrigger

- 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 screw-in and Quickfit-6 dowels



Expanding Wedgefix housing (no inner cam)

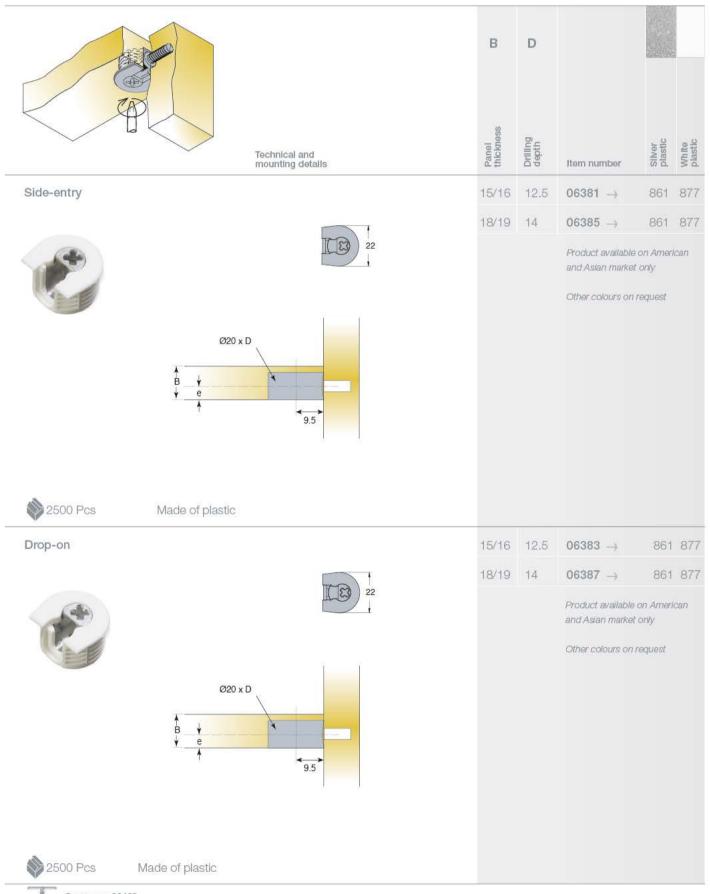
- Available in 12mm, 15mm/16mm and/or 18mm/19mm versions for Quickfit-6 and/or Standard Dowel applications
- · Available in a variety of plastic colours
- Wedgefix-6 housing allows easy customer handassembly or factory automated insertion
- When used with Quickfit-6 dowels this provides a true toolless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



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 screw-in and Quickfit-6 dowels

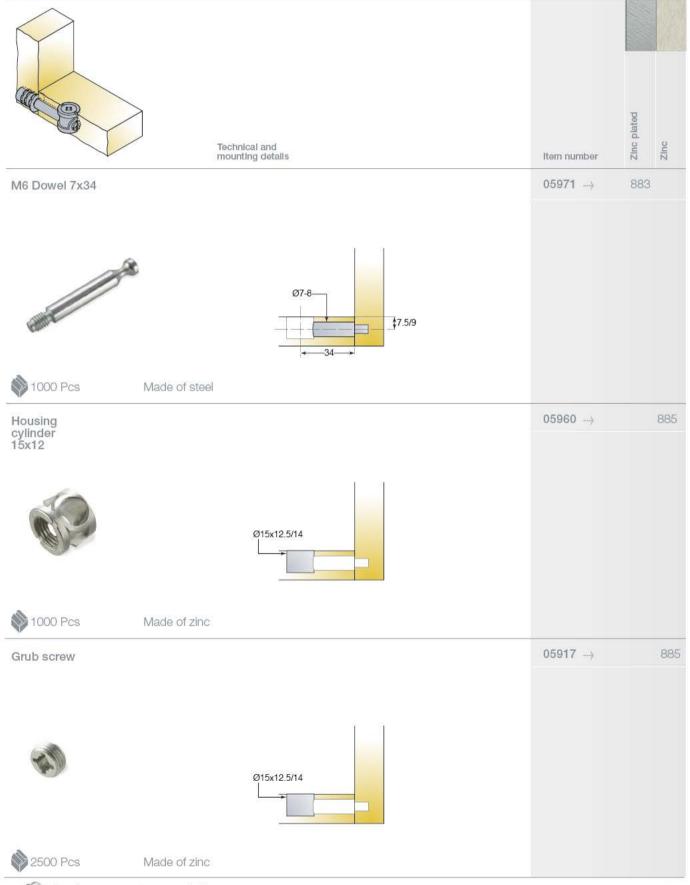




System 7

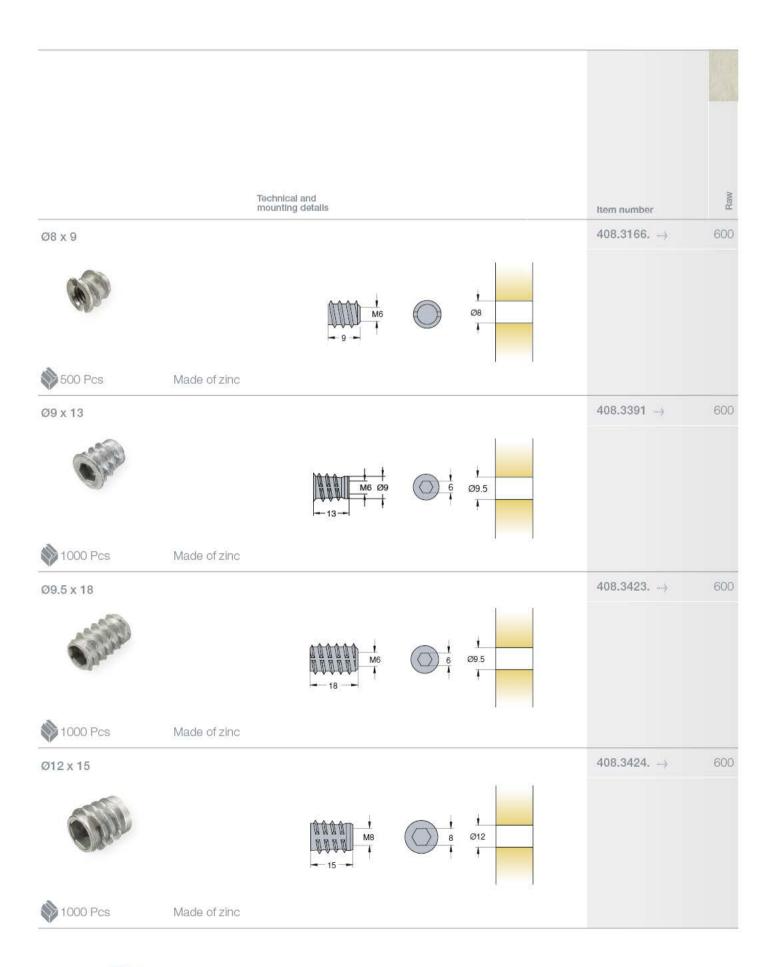
High strength connectors Contract fix™ system

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

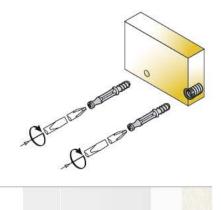


Accessories for connectors

Inserts



- Available in both zinc and plastic for use in various applications
- · Suitable for use with various threaded dowels
- · Suitable for use with various panel thicknesses
- · Knock-in and screw-in versions available

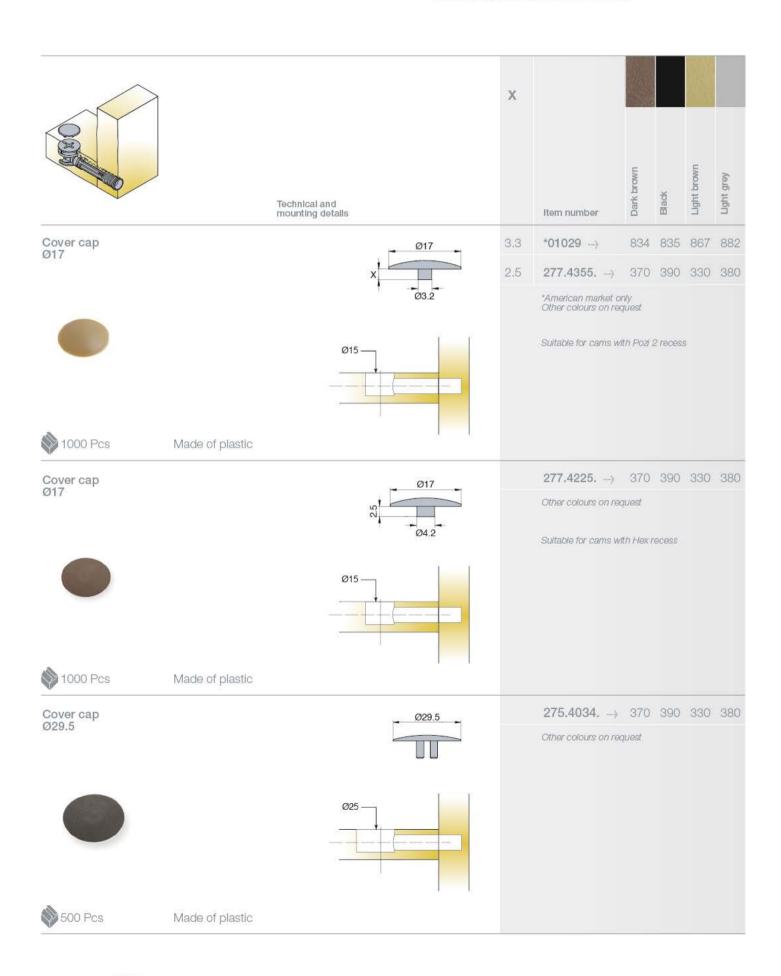


				С		
	Techn moun	ical and ting details		Drilling length for insert	Item number	Natural white
Ø10 x 13/M6 nut				13	275.4035. →	200
	275.4035	M6	Ø10	11	275.4058. →	200
20000 Pcs (275.4035.) 30000 Pcs (275.4058.)	275,4058 Made of plastic					
Ø8 x 10/M4 nut		M4	Ø8 10		276.4036. →	200
50000 Pcs Ma	ade of plastic					
Euro thread			twinstart thread		02182 →	846
		Euro thread 5	Ø10 ————————————————————————————————————			
10000 Pcs Ma	ade of plastic					

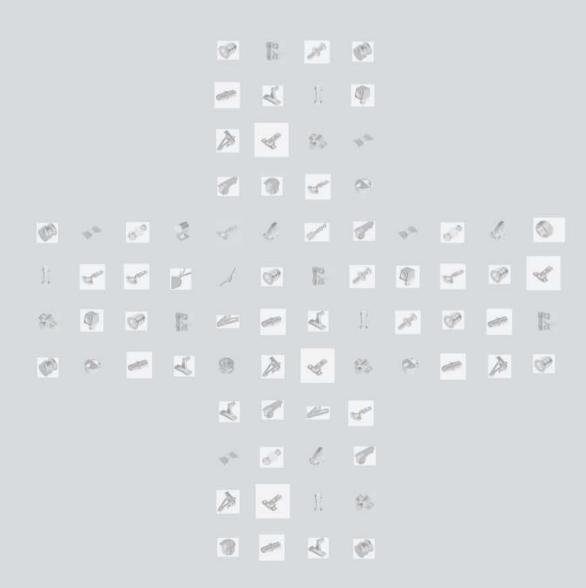
Accessories for connectors

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



Glissando Soft closing systems



Glissando

Product guide

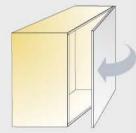
Page

Glissando for concealed hinges

Add-on hinge soft closing solution

2.11

Glissando TL Glissando BS Glissando TL 170



- effortless silent and safe door closing
- fits the hinge's standard drilling patterns
- easy retrofit installation
- adjustable to different door sizes and weights
- · perfect door motion
- doesn't occupy additional space inside the cabinet

Stand-alone door soft closing solution

2.15

Glissando CR



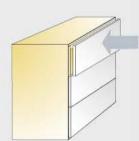
- effortless silent and safe door closing
- · easy retrofit installation
- adjustable to different door sizes and weights
- · perfect door motion

Glissando for drawers

Stand-alone drawer soft closing solution

2.17

Titusoft for wooden drawers Titusoft for metal drawers



- self closing and soft closing in single mechanism
- · safe drawer closing
- · easy retrofit installation

Glissando for concealed hinges Information

How to choose the right Glissando?

Titus Glissando soft closing system is available for the whole range of hinge applications. The user can choose

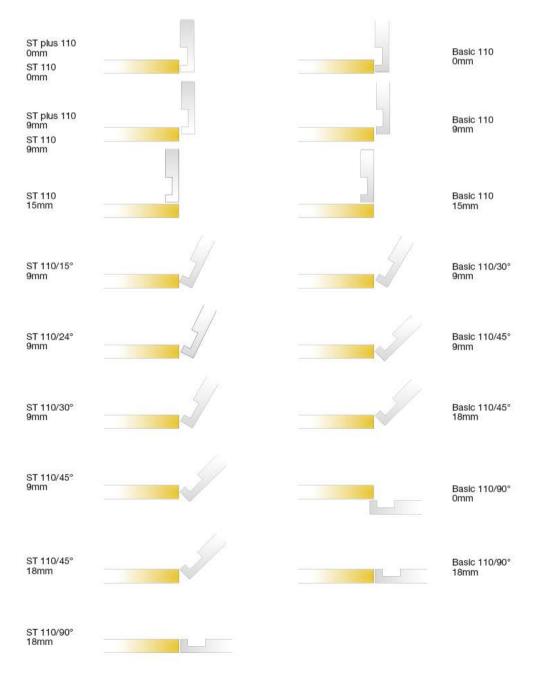
between add-on hinge or stand-alone solutions.

Concealed hinges	Add-on hinge sof	t closing solutions		Stand-alone door soft closing solution
Coriocalca Fillinges	Glissando TL	Glissando BS	Glissando TL 170	Glissando CR
ST plus 110	X	X		Χ
ST plus 125		X		X
ST 110	X	X		X
ST 110/15°	X	X		
ST 110/24°	X	X		
ST 110/30°	X	X		
ST 110/45°	X	X		
ST 110/90°	X	X		
ST 170			X	X
Basic 110	X	X		X
Basic 110/30°	X	X		
Basic 110/45°	X	X		
Basic 110/90°	X	X		
Basic 170			X	X
Miniprimat 95				X

Glissando TL 'one for all'

- · One item fits multiple applications
- Same item can be used on all crankings and angled hinges
- Adjustable damping enables perfect functioning on every door
- · Designed to fit the concealed hinge cup
- · Toolless mounting
- Suitable for different types of cabinets for kitchens, living rooms, bathrooms and other furniture





Glissando for concealed hinges Information



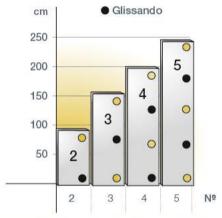
Titus Glissando soft closing devices can not be used with free-swinging door hinges.

----> see page 3,18 for details

How many Glissandos per door?

Add-on hinge soft closing solution

Glissando BS Glissando TL Glissando TL170 Mount Glissando on the bottom hinge in case of 2 hinges on the door or on the middle hinge in case of 3 hinges on the door.

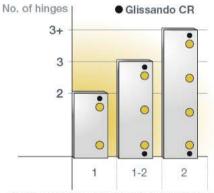


Recommended number per door and positioning

Stand-alone soft closing solution

Glissando CR

Mount a CR on the hinged side of the cabinet on the top or bottom.

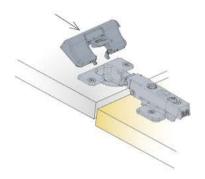


Recommended number per door and positioning

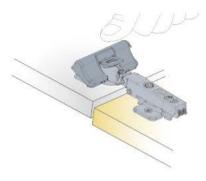
How to mount Glissando?

Tool-less mounting

Glissando TL Glissando TL 170



Simple toolless assembly: Insert Glissando into the holes on the hinge and press down with hand.

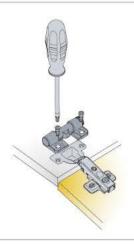


The tool-less 'snap on' version for reduced assembly time and flexibility of application. Glissando TL can be mounted at any time after furniture assembly so can be offered as a retro fit option by the installer.

Screw-on on the hinge cup

Glissando BS

Glissando BS system is mounted on the hinge cup by using cup fixing screws. The fixing screws must be at least 15mm long.

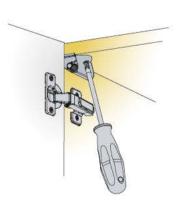


Screw-on into the cabinet corner

Glissando CR

Glissando CR is mounted into the cabinet corner by using chipboard screws 20mm long.

Glissando dampers' discreet design enhances the look of the door and occupies minimal space in the cabinet interior.



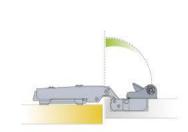
Glissando for concealed hinges Information

Adjustment of the damping

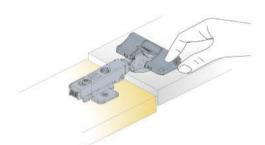
Add-on hinge soft closing solution

Glissando TL Glissando BS Glissando TL 170 Glissando features quarter turn adjustment to provide optimal closing speed for any door dimensions and weight. The damping function can be adjusted to fit different door weights which enables

- · perfect door functioning
- · use of the same type of Glissando for various doors



Adjustable damping zone



Turn towards '+' to increase and '-' to decrease the damping

Stand-alone soft closing solution

Glissando CR

Turn towards "+" to increase or towards "-" to decrease the damping.



Titus hydraulic damper

Efficient modular design

- Low number of assembly parts enables quick development of customised solutions
- Engineered for efficient and high precision manufacturing
- · Wide range of applications

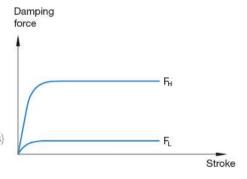


Wide operating scope

- High coefficient γ of Titus damper assures efficient damping at any closing speed
- Damping force can be easily adapted to customer needs

$$\gamma = \frac{F_H}{F_L}$$

 F_H – damping force at slam speed (12mm/s) F_L – damping force at slow speed (1mm/s)



Reliable damping and closing at any speed

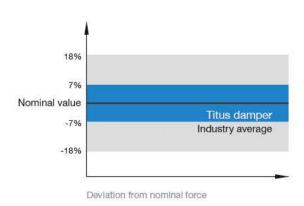
Higher coefficient γ means reliable damping at high speed and ensures that the system will reach its final position even at very slow speed



Damping force consistency

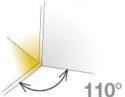
- Full control over all phases of manufacturing process
- Quality assured

Standard deviation measured on the sample of 1000 pcs.

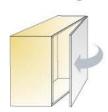


Glissando

Add-on hinge soft closing solution



For 110° hinges

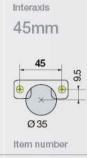




Technical details

For the following cup types

Damping force



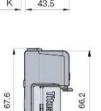
48mm Ø 35 Item number

Interaxis

Glissando TL snap-on · ST plus 110 · ST 110

- · Basic 110





■ 45N 951.0X94.050 ■35N 951.0P59.050 ■ 60N 951.0P63.050 ■35N * 951.0253.050

* 951.0253.050 requires application on every hinge ---> see page 2.12



Made of steel and plastic

Legend of hinge cup symbols



Screw-on ready



Machine Insertion ready



Pre-mounted euro screws

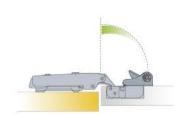


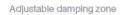
Pre-mounted chipboard screws

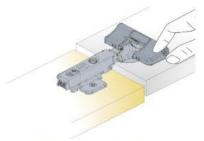


Easy-flx system

- Same item can be used on all crankings and angled hinges
- Designed to fit the concealed hinge cup and requires no extra space inside the cabinet
- · Adjustable damping
- · Screw-on or toolless mounting



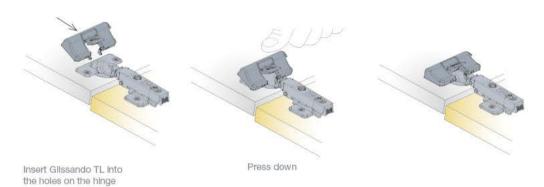




Turn towards '+' to increase and '-' to decrease the damping

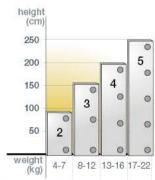
Mounting details

Toolless assembly

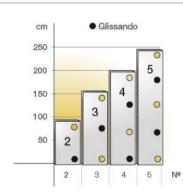




No additional drilling is required



*951.0253.050
Recommended number per door and positioning



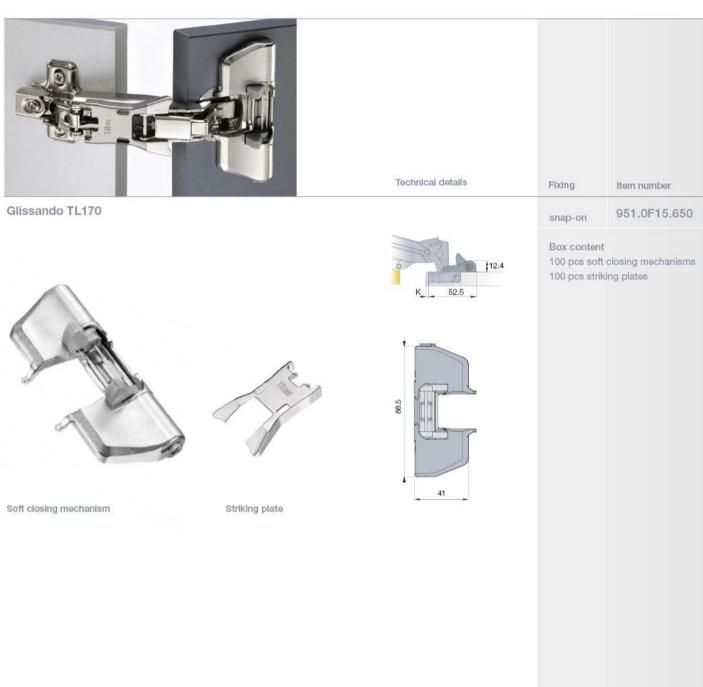
Recommended number per door and positioning

Glissando TL 170

Add-on hinge soft closing solution

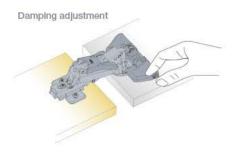
For ST 170 and Basic 170 hinges





Made of steel and plastic

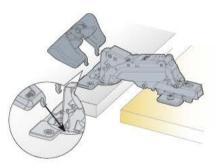
- Gentle and reliable soft closing on doors with wider opening angle
- · Fits perfectly 45/9.5mm, 48/6mm and 52/5.5mm hinge cups
- · Furniture consumers' preferred 'confident close'
- · Tool free mounting



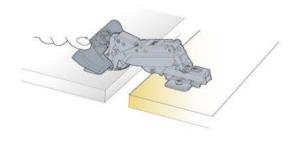
Turn towards '+' to increase and towards '-' to decrease the damping

Mounting details

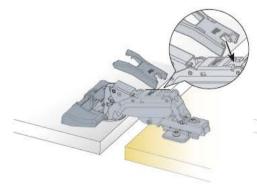
Toolless mounting



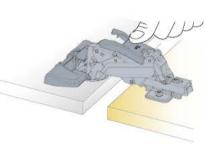
Insert Glissando TL170 into the holes on the hinge cup



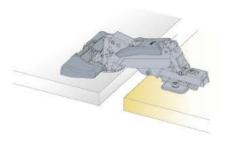
Press down

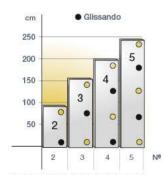


Place the striking plate into the hole on the hinge arm



Press down





Recommended number per door and positioning

Glissando CR

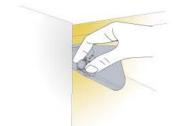
Stand-alone door soft closing system

For full overaly and half overaly concealed hinges





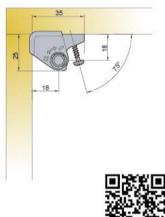
- Intuitive 'place and fix' installation in the comer of the cabinet
- · Tool-less damping adjustment
- · One item for a wide range of doors
- · Reliable performance

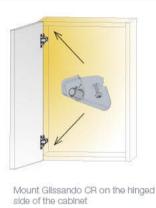


Damping adjustment

Turn towards '+' to Increase and towards '-' to decrease the damping

Mounting details

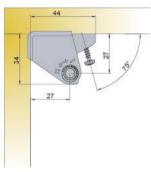






Further explanations --- go to

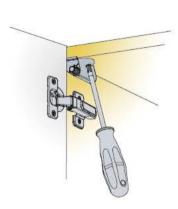
http://www.youtube.com/watch?v=8-uWs_z2d0s







Mount Glissando CR on the hinged side of the cabinet

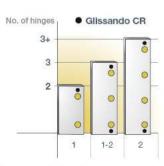


One screw flxing

http://www.youtube.com/watch?v=8-uWs_z2d0s

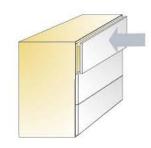


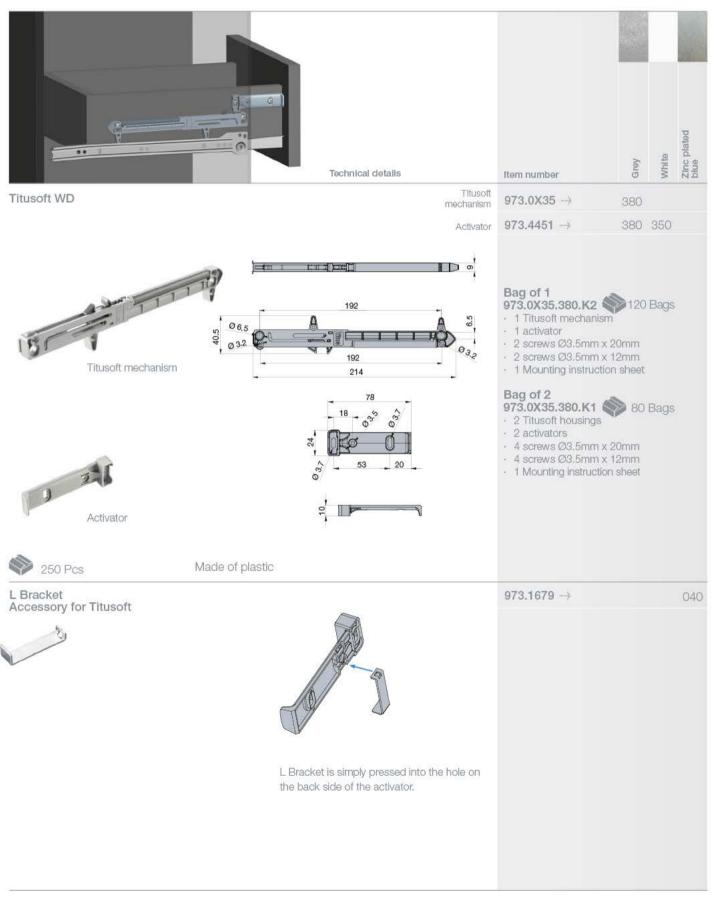
The functioning of Glissando CR depends of the hinge's closing force. A trial mounting is always recommended.



Recommended number per door and positioning

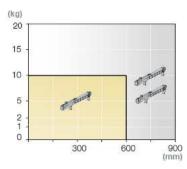
Soft closing system for wooden drawer





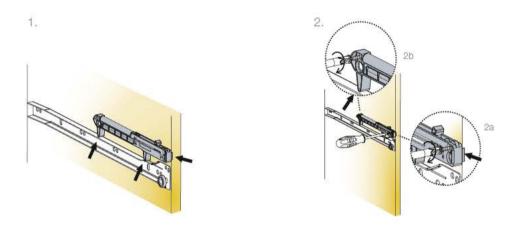
- · Works with most roller runner drawer slides
- · Easy, intuitive mounting
- Smooth soft closing action independent of drawer hardware
- · Optimal closing speed
- · Non handed design

Capacity chart



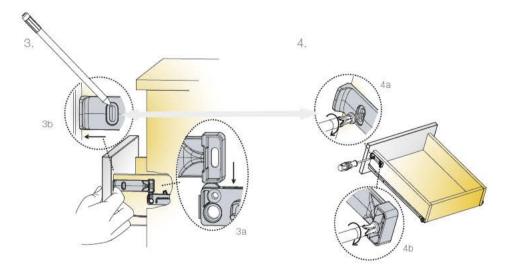
Mount 1 or 2 Titusoft mechanisms depending on drawer weight and width

Mounting details



Position the Titusoft mechanism on the top of the drawer silde

Fix with 2 screws L=20mm



Rest the activator against the drawer front
 Align the vertical position of the activator with
the top of the Titusoft mechanism and mark the
screw locations

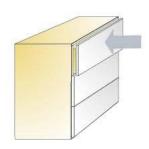
Flx with 2 screws L=12mm

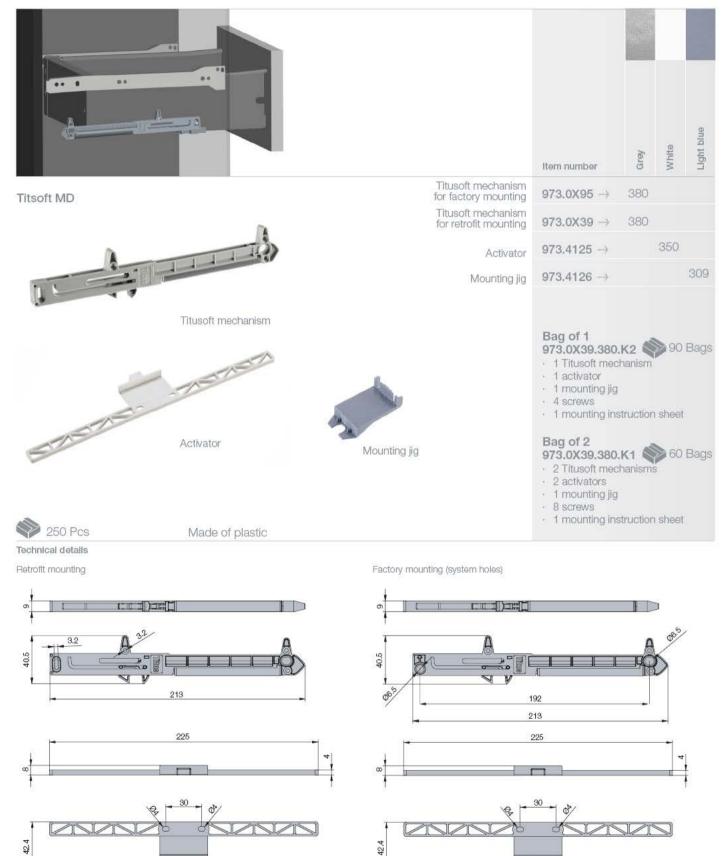


http://www.youtube.com/watch?v=U3aS2r6KC6k

Titusoft MD

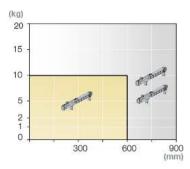
Soft closing system for metal box





- One-for-all' soft closing for single skin metal boxes
- · Allows for easy factory mounting or retrofit application
- · Intuitive positioning
- · Preserve the life-time of the drawer

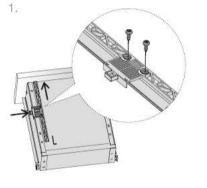
Capacity chart

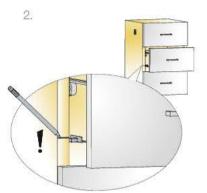


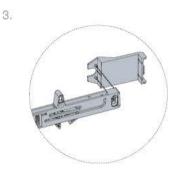
Mount 1 or 2 Titusoft mechanisms depending on drawer weight and width

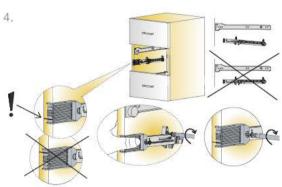
Mounting details

Retrofit mounting







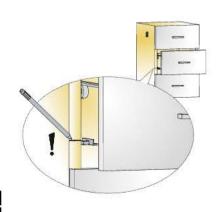


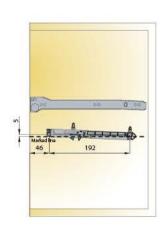


5.

Factory mounting







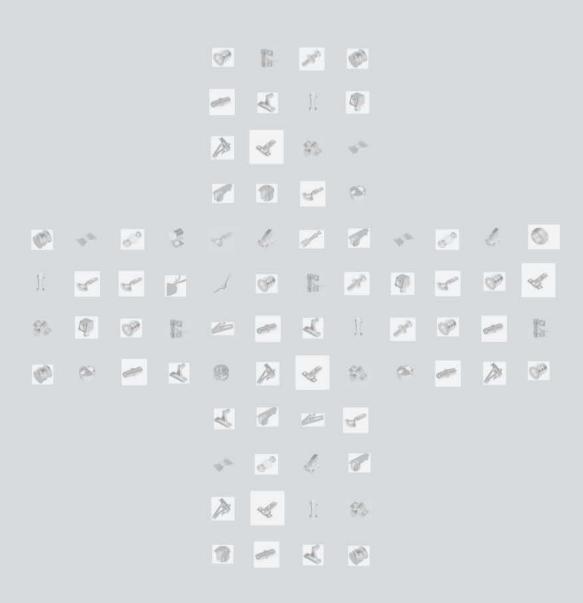




http://www.youtube.com/watch?v=Qplq8uKGbng



Concealed hinges



Concealed hinges Product guide

ST-i2 plus series	cam-adjustable d	door depth, ST as	ssembly, Ø 35mm cup d	drilling
	Cranking	Opening angle	Cup type	Page
ST-i2 plus 110, 2 nd Generation	Omm	110°	for wooden door	3.19
	9mm	110°	for wooden door	3.19

ST plus	series			assembly, Ø 35mm cu	up drilling
		Cranking	Opening angle	Cup type	Page
	ST plus 110	Omm	110°	for wooden door	3.21
		9mm	110°	for wooden door	3.21
	ST plus 110 Touch opening	Omm	110°	for wooden door	3.23
		9mm	110°	for wooden door	3.23

ST series				assembly, Ø 35mm cu	ıp drilling
		Angle and cranking	Opening angle	Cup type	Page
	ST 110	Omm	110°	for wooden door	3.25
		9mm	110°	for wooden door	3.25
		15mm	110°	for wooden door	3.25
	ST 110/45°	45°, 18mm	110°	for wooden door	3.27
	ST 110/90°	90°, 18mm	110°	for wooden door	3.29
	ST 170	Omm	165°	for wooden door	3.31
		Omm	135°-165°	for wooden door	3.31
		9mm	165°	for wooden door	3.31
	ST for pie-cut corner cabinet			for wooden door	3.33
	ST mounting plates				3.35

Accesso	ies	
		Page
	Push latch	3.37

Concealed hinges

Information

How to achieve the desired door overlay?

By choosing the hinge of appropriate cranking

Concealed hinges with specific hinge arms are available for different door overlays. The most common overlays are:





 Full overlay. Use a hinge with 0mm cranking.



2. Half overlay for double doors.
Use a hinge with 9mm cranking.



Inset door. Use a hinge with 15mm, 16mm or 18mm cranking.

By choosing the mounting plates of appropriate thickness

To achieve the desired overlay (x) while using a determined drilling distance (K), a mounting plate of appropriate

thickness (D) must be chosen from the enclosed table.

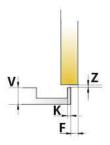




Door clearance and gap

The door clearance (F>Fmin) and gap (Z) represent the minimal necessary space needed for the correct opening and closing of the door. The minimal required values depend on the cup drilling distance (K), door thickness (V)

and the type of hinge. The minimum clearance scale can be found in the catalogue. When using on double doors with one party-wall the door clearance must be twice as large (F>2Fmin).



V		16	17	18	19	20	V	22	
	3	0.3	0.5	0.7	1.6	1.3	1.7	3.5	
K	4	0.3	0.7	0.3	0.5	0.7	3.0	3.1	
	5	1.0	9	1.7	3.5	3.0	3.1	3.0	FMIN

Gap Z=0

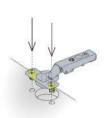
Drilling patterns for hinge cups shown **on the page 3.8** or on specific product pages for non-standard drillings.

How to mount the hinge on the door?

The choice of hinge cup type depends on the material of which the door is made and the chosen assembly method. The hinge can be assembled on a wooden door by fixing it with chipboard or euro screws or inserted by machine.



After inserting the hinge correctly and fully, the cup is fixed by rotating the two screws clockwise (by 90°) with a PZ2 screwdriver.



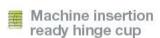




Screw fixing hinge cup

The hinge is fixed on the door with two prescribed screws.





Special dowels for machine insertion are pre-mounted. Two versions are available for 10mm or 8mm holes.



Concealed hinges

Information



Drilling patterns for hinge cups shown **on the next page** or on specific product pages for non-standard drillings.

How to mount the hinge on the door?



Hinge cup with pre-mounted euro screws

The hinge is fixed on the door with two pre-mounted euro screws for 5mm holes. Where not specified otherwise, euro screws are 13mm long.





Hinge cup with pre-mounted chipboard screws The hinge is fixed on the door with two pre-mounted chipboard screws.



Glass door hinge cup

The hinge is fixed into one single hole on the glass door. Glass thickness must be between 4mm and 6mm.



Aluminium frame screw-on hinge cup

The hinge is fixed onto a specific drilling on the aluminium frame with two screws.



Drilling patterns for hinge cup

Interaxis is the distance between two holes for fixing screws on the hinge cup.

Other drilling patterns can be found on specific product pages.

Interaxis 45mm, 48mm and 52mm

- · ST-i2 plus series
- · ST-i2 series
- · ST-i plus series
- · ST-i series
- · ST plus series
- · ST series
- · Basic-i2 series
- · Basic-i series
- · Basic series

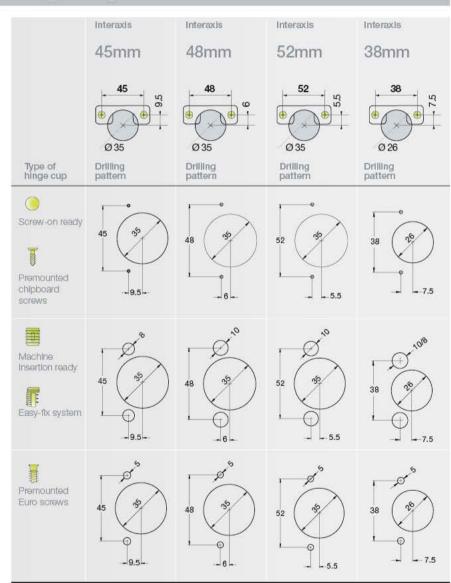
Interaxis 38mm

· Miniprimat series

Interaxis 42/11mm*

Interaxis 42mm is optionally available with some versions, on special request.

- * Available upon special request
- ---> see page 0.3



Concealed hinges

Information



Check the mounting plate drilling distance!

When fixing the mounting plate please check the drilling distance from side border. It may differ depending on mounting situation and mounting plate type. Some mounting plates can be used for both 28 or 37mm drilling distance simply by rotating.

How to fix the mounting plate on the cabinet side?

The mounting plates can be fixed on cabinet side with various methods. Euro screws are most suitable for standard 32mm drillings. Mounting plates with pre-mounted chipboard

screws, spreading dowels or 10mm dowels for machine insertion, are also available.



The mounting plate is fixed with two standard 6.3mm euro screws.



Mounting plate with pre-mounted euro screws

Euro screws for 5mm holes are pre-mounted on the mounting plate. Different screw lengths available.



Machine insertion ready mounting plate

Dowels for machine insertion in 10mm holes are pre-mounted on the mounting plate.



Mounting plate with pre-mounted expanding dowels

Expanding dowels for 5mm holes are pre-mounted on the mounting plate. Two lengths available: 7.5mm and 10.5mm.



Chipboard screws ready mounting plate

The mounting plate is fixed with two prescribed chipboard screws or equivalent.



Mounting plate with pre-mounted chipboard screws The mounting plate is fixed with two pre-mounted chipboard screws.

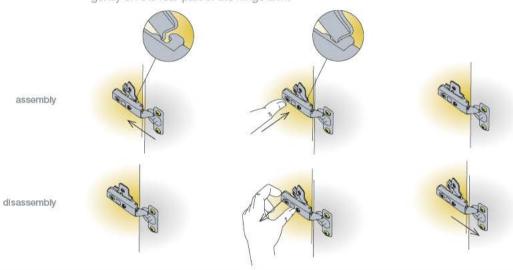


How to assemble the hinge and the mounting plate?

ST time saving system

- ST-i2 plus seriesST-i2 series
- · ST-i series
- · ST plus series
- · ST series

The door is assembled on the cabinet side simply by fixing the two hooks under the hinge arm on the outer part of the mounting plate and pressing gently on the rear part of the hinge arm. For disassembly press the button on the rear of the hinge arm.

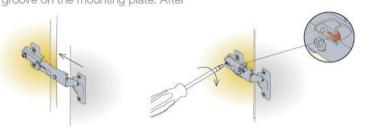


Slide-on system

- · Basic-i2 series
- · Basic-i series
- Basic series

The hinge is assembled by sliding the hinge arm over the mounting plate. The lower part of the horizontal setup screw must fit correctly into the groove on the mounting plate. After

adjusting the door depth, the mounting procedure is finished by tightening the fixing screw.

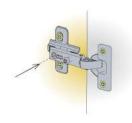


Key-hole system

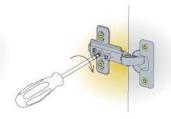
- Miniprimat series
- · Special hinges

The hinge is assembled on the mounting plate by inserting the fixing screw on the appropriate hole on the hinge arm. After adjusting the door

depth, the mounting procedure is finished by tightening the fixing screw.







Concealed hinges

Information



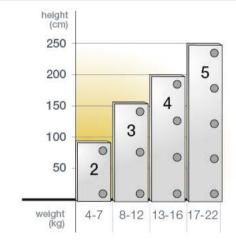
For the furniture user's safety please use the appropriate number of hinges so that the door height or weight does not exceed that shown below.

How many hinges per door?

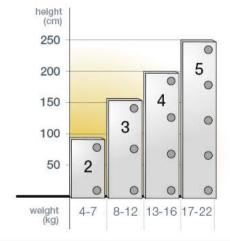
Check the enclosed specifications for the number of required hinges per door by considering both door height and weight. In case of doubt please contact Titus or your local distributor.

Concealed hinges with Ø 35mm hinge cup diameter

- · ST plus series
- · ST series
- · Basic series
- · Special hinges



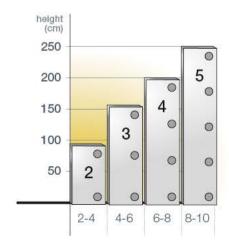
- · ST-i2 plus series
- · ST-i2 series
- · Basic-i2 series
- ST-i plus series
- · ST-i series
- · Basic-i series



Hinges with integrated damping can be combined with non-damped hinges from standard hinge range. A trial mounting is always recommended. Please contact Titus for further technical assistance.

Concealed hinges with Ø 26mm hinge cup diameter

· Miniprimat series



Side adjustment



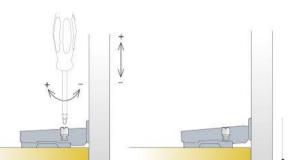
The side adjustment is indispensable to align the door with the side of the cabinet thus allowing perfect lifetime opening and closing of the door.

The side adjustment is made by

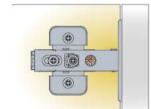
rotating the appropriate screw on the

By rotating the appropriate screw

- · ST-i2 plus series
- ST-i2 series
- · ST-i plus series
- · ST-I series
- ST plus seriesST series
- · Basic-i2 series
- · Basic-I series
- · Basic series



hinge arm.



Adjustment range

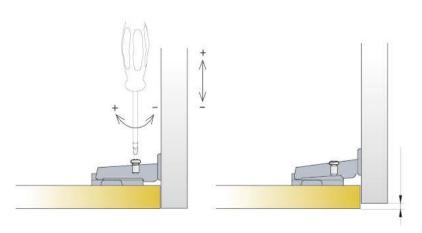
By temporarily releasing the fixing screw

- · Miniprimat series
- · Wide angle hinge

For the side adjustment:

- 1. Release the fixing screw
- 2. Make the necessary adjustment by rotating the appropriate screw
- 3. Tighten the fixing screw

Without releasing the fixing screw no side adjustment is possible.



Adjustment range

Concealed hinges

Information

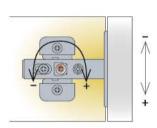
Height adjustment

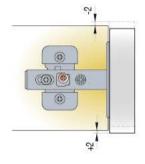


Height adjustment is necessary to achieve perfect vertical door position that emphasises the accuracy of manufacture.

By rotating the cam adjuster

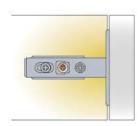
 ST-i2 plus, ST-i2, ST-i plus, ST-i, ST plus and ST series with cam adjustable mounting plate The height adjustment is made by rotating the cam adjuster on the mounting plate.



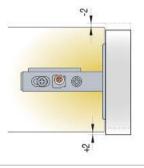


Manual adjustment by releasing the adjustment screw

 ST-i2 plus, ST-i2, ST-i plus, ST-i, ST plus and ST series with horizontal mounting plate



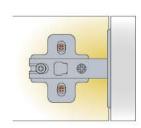
For height adjustment the adjustment screw has to be temporarily released during manual adjustment.

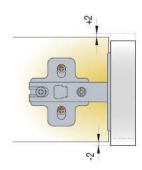


By releasing the fixing screws of mounting plate

- ST-i2 plus, ST-i2, ST-i plus, ST-i, ST plus and ST series without cam-adjustable cruciform mounting plates
- · Basic series
- · Miniprimat series
- · Wide angle hinge

For height adjustment the two mounting plate fixing screws have to be temporarily released while making the manual adjustment.





Depth adjustment

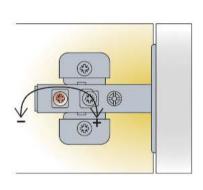


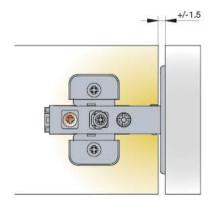
The system enables easy adjustment of the door depth to assure that the door fits well on the side of the cabinet.

By rotating the cam adjuster

- · ST-i2 plus series
- · ST-i plus series
- · ST plus series

The adjustment is made by rotating the cam adjuster on the hinge arm.

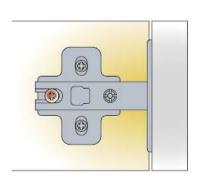


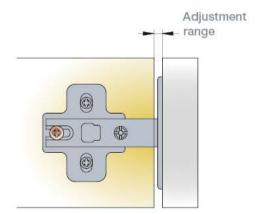


By releasing the fixing or adjustment screw

- · ST-i2 plus series
- · ST-i series
- · ST series
- · Basic-i series
- · Basic series
- · Miniprimat

The depth adjustment is made by temporarily releasing the adjustment screw (ST series) or fixing screw (Basic series). After the adjustment is made the screw has to be re-tightened.





Concealed hinges

Information

Titus recommends!

Most of Titus hinges can be combined with soft closing devices giving silent closing motion.

--->see pages 2.11-2.16 for details



Soft closing devices can not be used with free-swinging door hinges.

Door closing systems

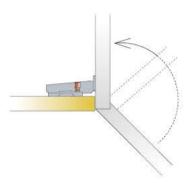
There are three types of door closing systems:



Concealed hinges with limited self-closing angle

- · ST-i2 plus series
- · ST-i2 series
- · ST-i plus series
- ST-i series
- ST plus series
- · ST series
- · Basic-i2 series
- · Basic-i series
- · Basic series

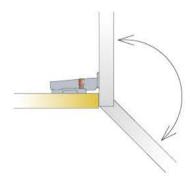
The self-closing angle is the point from which the door will close by itself, without user assistance. The mechanism starts closing the door from a 14° to 25° angle, depending on the concealed hinge type. From that point to the maximum opening angle the door remains in an open position.



Two-positions self-closing concealed hinges

· Miniprimat series

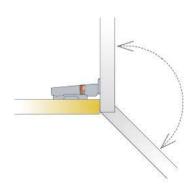
The door can only be in two positions: closed or fully opened. The closing mechanism does not allow intermediate open door positions unless the door is held.



Free-swinging door hinges *

· all series

Optionally most of Lama concealed hinges can be supplied without self-closing mechanism. These hinges are not presented in this catalogue but may be ordered upon request. Please contact Lama or your distributor for item order numbers and technical assistance.



^{*} Available upon special request

^{----&}gt; see page 0.3

Titus damping solutions

Hinges with integrated damping

Key design choices

Damping in the hinge cup

Damper is positioned transversal on the hinge cup

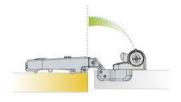
- Allows for an easy and quick introduction of various hinge versions: ST 'snap-on' and Basic 'slide-on' with different hinge arm crankings and angles
- Standard hinge cup drilling depths: requires no changes in drillings for hinge cup
- · Standard mounting plates



Adjustable damping force

Flexibility to 'tune' performance for all applications

- Optimal damping on various door weights and sizes
- · Intuitive and quick adjustment
- · Easily accessible adjustment button



Adjustable damping zone and force

Titus hydraulic damper

Titus hydraulic damper, designed and produced in-house

- Reliable and consistent life-long damping
- · Minimum damper rebounce
- Dampers' consistency over high volume production runs assured

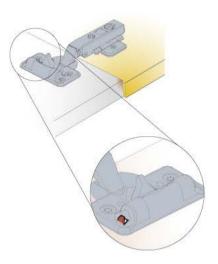


Titus damping solutions

Hinges with integrated damping

Adjustment of the damping

ST-i plus series ST-i series Basic-I series



The damping reduction switch in a pre-set position.

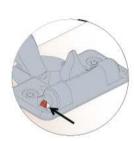
To decrease or to increase the damping, change the position of the damping reduction switch. Hinges are factory pre-set to the maximum damping value.



To decrease the damping

1. Lift the damping activator.

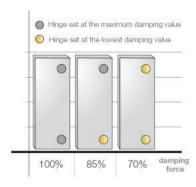
Slide the damping reduction switch to opposite position.



To increase the damping, slide the damping reduction switch back to the factory pre-set position.

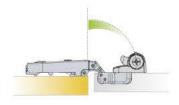
Damping force change

The damping reduction switch adjusts the damping. Example shows the damping change in case of two hinges on door.

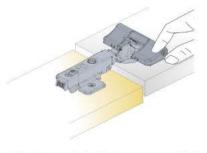


ST-i2 plus series ST-i2 series Basic-i 2 series

The damping action can be adjusted to fit different door weights which enables perfect door functioning.



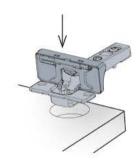
Adjustable damping zone



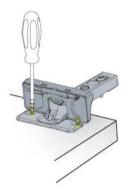
Turn towards '+' to increase and '-' to decrease the damping

How to mount ST-i2 / Basic-i2 hinges?

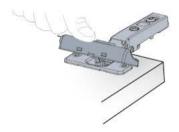
- ST-i2 plus seriesST-i2 series
- · Basic-i2 series



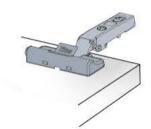
Insert Basic-i 2 / ST-i 2 hinge into the hinge cup hole.



Fix the hinge cup.

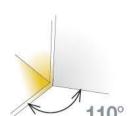


Snap the soft closing mechanism to the hinge cup.



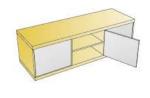
ST-i2 plus 110

2nd Generation









- Opening angle
- · Drilling diameter for hinge cup
- · Drilling depth
- · Hinge on plate mounting system

110° 35mm

min. 11mm

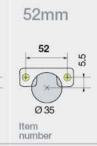
ST



Technical details

Interaxis 45mm Item number Cup type





Cranking 0mm







954.0695.050

954.0212.050 954.0213.050 954.0214.050

Drilling patterns for hinge cups --> see page 3.8



Made of steel and plastic







954.0696.050 954.0808.050

Drilling patterns for hinge cups ---> see page 3.8



Made of steel and plastic

Mounting plates



Steel mounting plates



Zinc diecast mounting plates ----) see page 3.35



Steel mounting plates with cam adjustable height

Hinge cup screws If not pre-mounted











Cover caps for hinge arm 248.1646.050 4000 Pcs

Legend of hinge cup symbols







Easy-flx





For further explanation --- > see page 3.17

Side adjustment +3/-1mm

Door adjustment

Height adjustment +2/-2mm

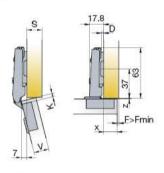
Depth adjustment +1.5/-1.5mm

For further explanation --- > see pages 3.12 - 3.14

Mounting details

Mounting plate drilling distance

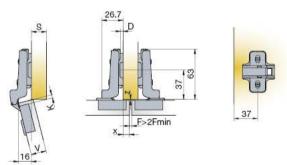
Mounting plate thickness table For further explanation → see page 3.5





Х		13	14	15	16	17	18	
	3	3	2	1	0			
K	4		3	2	1	0		
	5			3	2	1	0	D

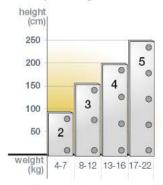
Drawings show application on D=0mm thick mounting plate



Х		4	5	6	7	8	9	
	3	3	2	1	0			
K	4		3	2	1	0		
	5			3	2	1	0	D

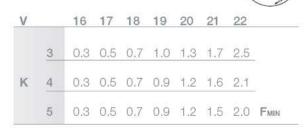
Drawings show application on D=0mm thick mounting plate

Recommended number per door and positioning

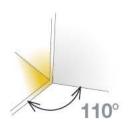


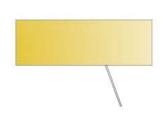
For further explanation ---> see page 3.11

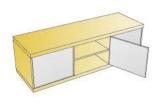
Door clearance For further explanation → see page 3.5



Gap Zмін=0









Interaxis Interaxis Interaxis 45mm 48mm 52mm Item number Item number Item number Cup type

0_{mm}





248.0T10.050 248.0T70.050 248.0T13.050 248.0T71.050 248.0T94.050 248.0T69.050 248.0T72.050 248.0T95.050

Drilling patterns for hinge cups --- see page 3.8

200 Pcs

Made of steel

Cranking 9_{mm}





248.0V69.050 248.0V71.050 248.0V70.050 248.0V72.050 248.0274.050 248.0V56.050 248.0275.050 Drilling patterns for hinge cups --- see page 3.8

💚 200 Pcs

Made of steel

Mounting plates



Steel mounting plates

—> see page 3.35



Zinc diecast mounting plates ---) see page 3,35



Steel mounting plates with cam adjustable height ---) see page 3,35

Hinge cup screws

















Legend of hinge cup symbols











- · Opening angle
- Drilling diameter for hinge cup
- Drilling depth
- · Hinge on plate mounting system

110° 35mm 11.5mm ST







· Quick, comfortable and precise depth adjustment

Side adjustment +3/-1mm

Height adjustment +2/-2mm

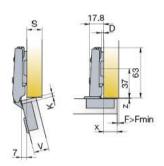
Depth adjustment +1.5/-1.5mm

For further explanation ---> see pages 3.12 - 3.14

Mounting details

Mounting plate drilling distance

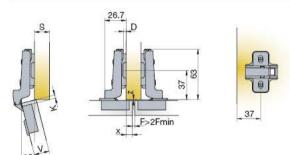
Mounting plate thickness table For further explanation → see page 3.5





Х		13	14	15	16	17	18	
	3	3	2	1	0			
K	4		3	2	1	0		
	5			3	2	1	0	D

Drawings show application on D=0mm thick mounting plate



_		- 1						
	3	3	2	1	0			
K	4		3	2	1	0		-,
	5			3	2	H	0	D

Soft closing systems

Drawings show application on D=0mm thick mounting plate



Glissando TL

---> see page 2.11



Accessories





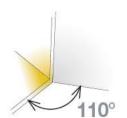
Door clearance For further explanation → see page 3.5

٧		16	17	18	19	20	21	22	
	3	0.3	0.5	0.7	1.0	1.3	1.7	2.5	
K	4	0.3	0.5	0.7	0.9	1.2	1.6	2.1	
	5	0.3	0.5	0.7	0.9	1.2	1.5	2.0	FMIN

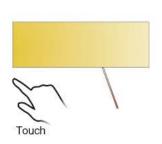
Gap Zmin=0

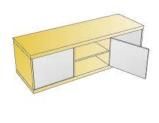
ST plus 110

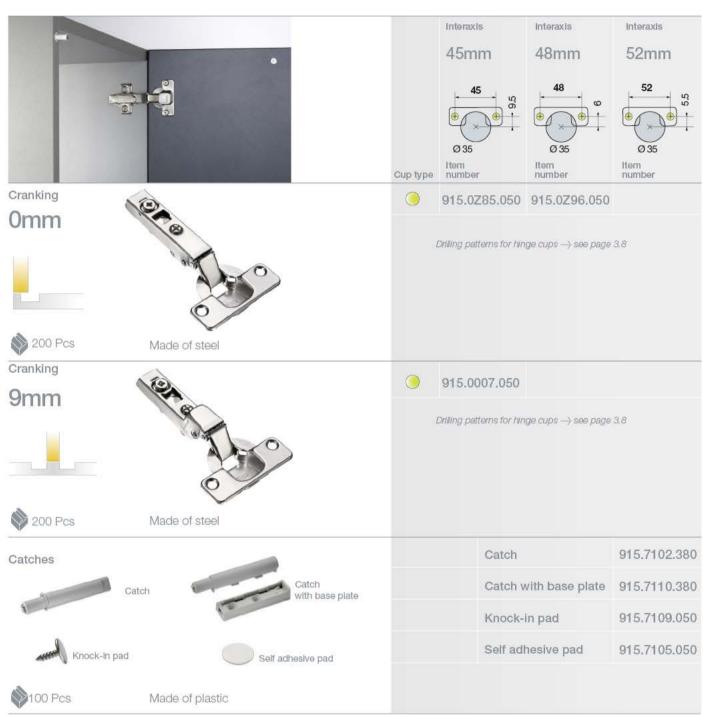
Touch opening











Mounting plates



Steel mounting plates

---> see page 3.35



Zinc diecast mounting plates --) see page 3.35



Steel mounting plates with cam adjustable height ---) see page 3.35

Hinge cup screws





820.6308.050 10000 Pcs Legend of hinge cup symbols







- · Opening angle
- Drilling diameter for hinge cup
- Drilling depth
- · Hinge on plate mounting system

Hinge integrated self-opening mechanismEffortless opening with just a light touch

110° 35mm 11.5mm ST







Side adjustment +3/-1mm

Height adjustment +2/-2mm

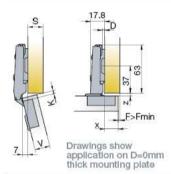
Depth adjustment +1.5/-1.5mm

For further explanation ---> see pages 3.12 - 3.14

Mounting details

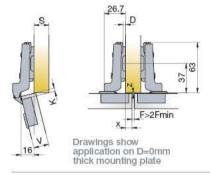
Mounting plate drilling distance

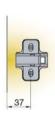
Mounting plate thickness table For further explanation → see page 3.5



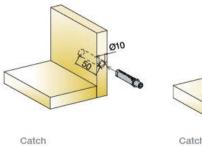


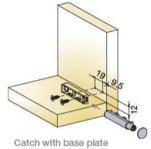
Х		13	14	15	16	17	18	
	3	3	2	1	0			
K	4		3	2	1	0		
	5			3	2	1	0	D

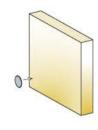




Х		4	5	6	7	8	9	
	3	3	2	1	0			
K	4		3	2	1	0		
	5			3	2	1	0	D









Fixing of pad depends on the catch position

Accessories



Cover caps for hinge arm 248.1646.050
\$\infty 4000 Pcs\$

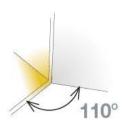
Door clearance For further explanation ----> see page 3.5

٧		16	17	18	19	20	21	22	
	3	0.3	0.5	0.7	1.0	1.3	1.7	2.5	
K	4	0.3	0.5	0.7	0.9	1.2	1.6	2.1	
	5	0.3	0.5	0.7	0,9	1.2	1.5	2.0	FMIN

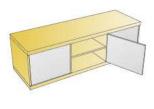
Gap Zмін=0

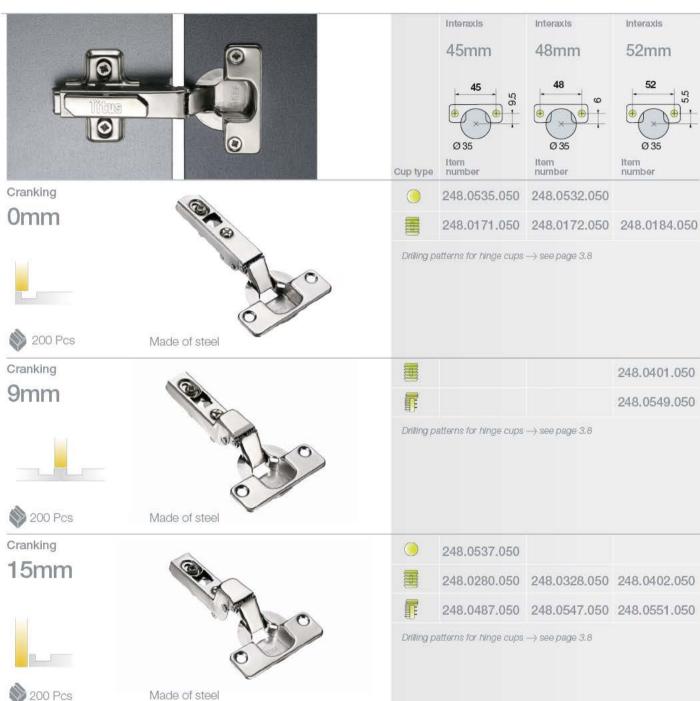


ST 110 For wooden doors









Mounting plates



Steel mounting plates

---> see page 3.35



Zinc diecast mounting plates

—) see page 3.35



Steel mounting plates with cam adjustable height
--> see page 3.35

Hinge cup screws If not pre-mounted















Legend of hinge cup symbols











· Opening angle

of the hinge arm

· One button disassembly

- · Drilling diameter for hinge cup
- Drilling depth
- · Hinge on plate mounting system

· Quick and practical assembly on the hinge and mounting plate by pressing gently on the rear part

110° 35mm 11.5mm

ST







Depth adjustment +5/-1.5mm

Side adjustment +3/-1mm

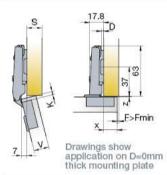
Height adjustment +2/-2mm

For further explanation ---- see pages 3.12 - 3.14



Mounting plate drilling distance

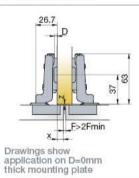
Mounting plate thickness table For further explanation → see page 3.5





Х		13	14	15	16	17	18	
	3	3	2	1	0			
K	4		3	2	1	0		
	5			3	2	1	0	D

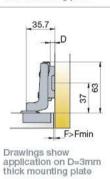






Х		4	5	6	7	8	9	
	3	3	2	1	0			
K	4		3	2	1	0		
	5			3	2	1	0	D







V		16	17	18	19	20	21	
	3	2	2	2	3	3	3	
K	4	3	3	3				
	5	3						D

Soft closing systems



Glissando TL ---) see page 2,11



Accessories



Cover caps for hinge arm 248.1646.050

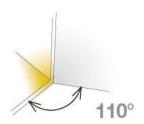


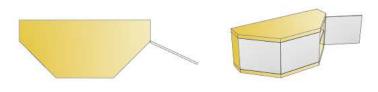


Door clearance For further explanation → see page 3.5

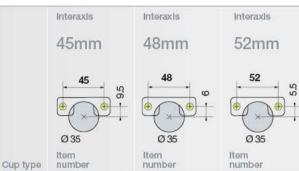
V		16	17	18	19	20	21	22	
	3	0,3	0.5	0.7	1.0	1.3	1.7	2.5	
K	4	0.3	0.5	0.7	0.9	1.2	1.6	2.1	
	5	0.3	0.5	0.7	0.9	1.2	1.5	2.0	FMIN

Gap Zмін=0









18_{mm}



248.0285.050 248.0291.050 248.0N20.050 248.0P21.050 248.0P64.050 248.0Z78.050

Drilling patterns for hinge cups ---) see page 3.8

100 Pcs

Cup made of steel, arm made of zinc

Mounting plates



Steel mounting plates

→ see page 3.35



Zinc diecast mounting plates



Steel mounting plates with cam adjustable height ---) see page 3.35

Hinge cup screws if not pre-mounted





820.6308.050









Legend of hinge cup symbols













- · Opening angle
- Drilling diameter for hinge cup
- Drilling depth
- · Hinge on plate mounting system

110° 35mm 11.5mm ST







Side adjustment +3/-1mm

Height adjustment +2/-2mm

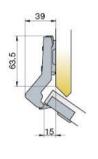
Depth adjustment +5/-1.5mm

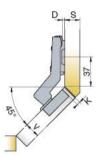
For further explanation ---> see pages 3.12 - 3.14

Mounting details

Mounting plate drilling distance

Mounting plate thickness table For further explanation → see page 3.5

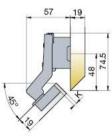






K	3	4	5
D	0	1	2







Drawings show application on D=18mm thick mounting plate

Soft closing systems



Accessories



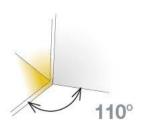


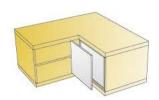
Door clearance For further explanation → see page 3.5



٧		16	17	18	19	20	21	22	
	3	0.3	0.5	0.7	1.0	1.3	1.7	2.5	
K	4	0.3	0.5	0.7	0.9	1.2	1.6	2.1	
	5	0.3	0.5	0.7	0.9	1.2	1.5	2.0	FMIN

Gap Zmin=0







Cranking

18_{mm}





Cup type	number	number	number
	248.0745.050	248.0742.050	
	248.0N24.050	248.0N25.050	248.0N26.050
F	248,0L61.050	248.0N62.050	248.0Z81.050

Drilling patterns for hinge cups --- see page 3.8



Cup made of steel, arm made of zinc

Mounting plates



Steel mounting plates

→ see page 3.35



Zinc diecast mounting plates

→ see page 3.35



Hinge cup screws If not pre-mounted





820.6308.050









Legend of hinge cup symbols













- Opening angle
- Drilling diameter for hinge cup
- Drilling depth
- · Hinge on plate mounting system

110° 35mm 11.5mm ST







Side adjustment +3/-1mm

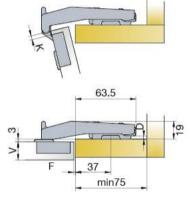
Height adjustment +2/-2mm

Depth adjustment +5/-1.5mm

For further explanation ---- see pages 3.12 - 3.14

Mounting details

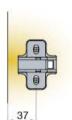
Mounting plate drilling distance







Drawings show application on D=3mm thick mounting plate



Soft closing systems



Accessories



Cover caps for hinge arm 248.1646.050





Door clearance For further explai

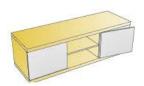
nce xplanati	ion>	see pa	ige 3.5				
						K	E. Semis
16	17	18	19	20	21	22	

V		16	17	18	19	20	21	22		
	3	0.3	0.5	0.7	1.0	1.3	1.7	2.5		
K	4	0.3	0.5	0.7	0.9	1.2	1.6	2.1		
	5	0.3	0.5	0.7	0.9	1.2	1.5	2.0	FMIN	

ST 170 For wooden doors









Mounting plates



Steel mounting plates ---> see page 3.35



Zinc diecast mounting plates > see page 3.35



Steel mounting plates with cam adjustable height ---> see page 3.35

Hinge cup screws If not pre-mounted





820.6308.050



Legend of hinge cup symbols







Machine Insertion ready



Easy-flx system







· Opening angle

· Drilling diameter for hinge cup

Drilling depth

· Hinge on plate mounting system

due to the wider opening angle

· Enables better accessibility into cabinet interior

· Opening angle can be easily adjusted by rotating

the appropriate screw on the hinge arm

135°-165° 35mm 12mm

ST







Side adjustment +3/-1mm

Height adjustment +2/-2mm

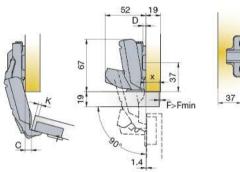
Depth adjustment +5/-1.5mm

For further explanation ---- see pages 3.12 - 3.14

Mounting detalls

Mounting plate drilling distance

Mounting plate thickness table For further explanation → see page 3.5





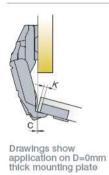
Drawings show application on D=0mm mounting plate

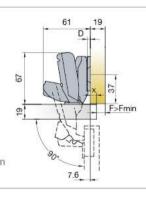
In 90°position the door is only 1.4mm distant from side panel

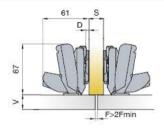
Χ		10	11	12	13	14	15	16	17	18	19	20	
	3	6	5	4	3	2	1	0					
K	4		6	5	4	3	2	1	0				
	5			6	5	4	3	2	1	0			
	6				6	5	4	3	2	1	0		
	7					6	5	4	3	2	1	0	D

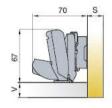
C value with D=0 mounting plates

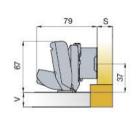
K	3	4	5	6	7
С	-9.0	-8.1	-7.1	-6.1	-5.2











Drawings show application on D=0mm thick mounting plate

Drawings show application on D=9mm thick mounting plate

Drawings show application on D=18mm thick mounting plate.

Soft closing systems



Glissando 170 -> see page 2.13



Glissando CR

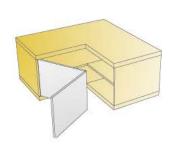
Door clearance For further explanation ---> see page 3.5

٧		16	17	18	19	20	21	22	23	24	
	3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
K	4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.6	
	7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.1	

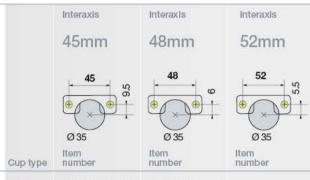




ST for pie-cut corner cabinet











248.0U21.050 248.0U16.050 248.0U22.050 248.0V15.050 248.0Z20.050 248.0V29.050 248.0Z79.050 248.0Z80.050

Drilling patterns for hinge cups --- > see page 3.8



Cup made of steel, arm made of zinc

Mounting plates



Steel mounting plates

---> see page 3.35



Zinc diecast mounting plates → see page 3.35



Steel mounting plates with cam adjustable height
---> see page 3.35

Hinge cup screws If not pre-mounted



















Machine Insertion ready











Opening angle

Drilling diameter for hinge cup

Drilling depth

· Hinge on plate mounting system

110° 35mm 11.5mm ST

Standard drilling for hinge and mounting plateHinge integrated adjustment







Side adjustment +3/-1mm

Height adjustment +2/-2mm

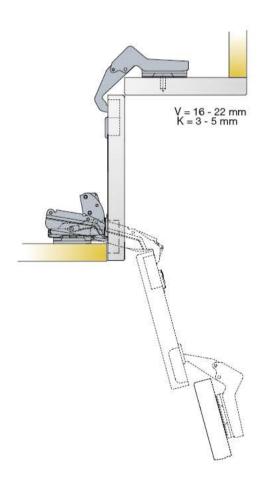
Depth adjustment +5/-1.5mm

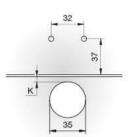
For further explanation ---- see pages 3.12 - 3.14

Mounting details

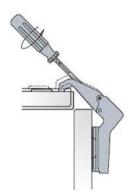
Drilling details

Adjustments

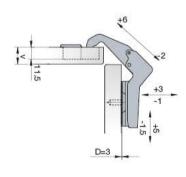




Any ST mounting plate of thickness D=0 can be used



The diagonal adjustment is made by rotating the appropriate screw as shown on the drawing

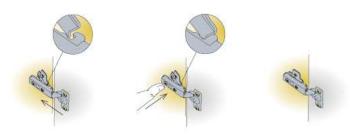


Accessories



For ST free, ST plus and ST concealed hinges

Mounting plates

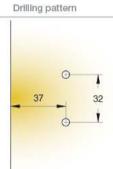




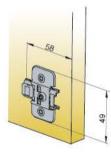
Steel mounting plates with cam adjustable height



Made of steel



Dimensions

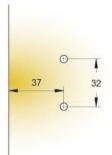


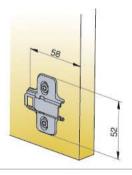
Steel mounting plates

200 Pcs



Made of steel



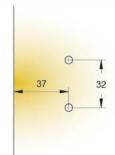


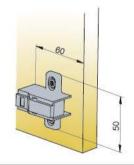
200 Pcs

Zinc diecast mounting plates



Made of zinc





Fixing screws for mounting plates If not pre-mounted

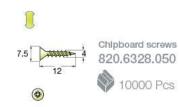


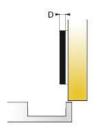
200 Pcs

(4)

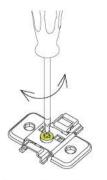
Euro screws 821.6304.050 L=11 821.6323.050 L=13 821.6332.050 L=15











Cam adjustable



N	Nounting plate t	hickness		mounting plate +/- 2mm			Height adjustment +/- 2mm		
Mounting plate type		3	11	13	15			10.5	
Mounting plate thickness (D)	Item number	item number	86.3 SEE 055	06.3 OE E OE OE Number	06.3 Styles of the number	04.5 Q4.5 Q3 Item	Ø10	ltem number	
0mm	244.0R22.050	1,041,1135,07	110111120)		244.0S92.050	A POTAT NAVADO	70 200 000 000	133301030	
2mm	244.0R23.050			244.0P72.050	244.0\$95.050	*244.0P69.050	*244.0P78.050	244.0S44.050	
3mm	244.0R24.050			244.0P73.050	244.0S96.050	*244.0P70.050	*244.0P79.050	244.0\$45.050	
* Availa	ble upon special 244.1136.050	request → see pag *244.1233.050		244.0134.050	244.0118.050	*244.0136.050	*244.0166.050	244.0P26.050	
1mm		*244.1228.050		244.0561.050		*244.0565.050			
2mm		*244.1229.050	244.0Z63.050			*244.0566.050		244.0V19.050	
3mm	244.1139.050	*244.1234.050		244.0135.050	244.0119.050	*244.0137.050	*244.0167.050	244.0P27.050	
6mm	244.1645.050				244.0Z51.050				

* Available upon special request -> see page 0.3

* Mounting plates with premounted 7.5mm expanding dowels available upon special request -> see page 0.3

9mm 244.3651.650 18mm 244.3016.650 244.0M33.650 244.0P29.650 244.0085.650 244.0095.650

Legend of mounting plate type symbols



Screw on ready

for euro screws --- screws

















Pre-mounted chip-



Machine Insertion ready



Pre-mounted 10.5mm expanding dowels









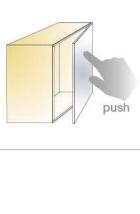


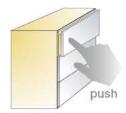






^{*} Available upon special request -- see page 0.3







Item number 915.0X59 → Push latch 381

Push Latch



Cross m. plate 915.4183 -> 381 915.4175 → Linear m. plate 381

915.0X59.381.K1



915.0X59.381.K2







Cross mounting plate



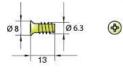
Linear mounting plate

200 Sets

200 Pcs

Made of steel and plastic

Fixing screws for mounting plates





Euro screws 821.6323.050

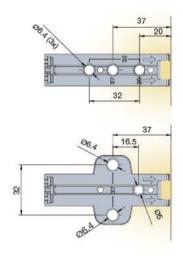


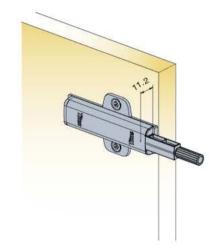
Chipboard screws

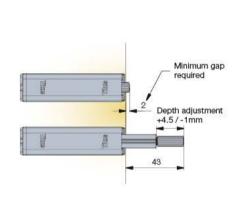
- · Works with standard concealed hinges and drawers
- · Effortless opening with just a light touch
- Depth adjustment ensures reliable closing and consistent performance in cases of inaccurate drilling
- · 'Safety click' feature for easy detachment of the mechanism from the mounting plate

Drilling pattern

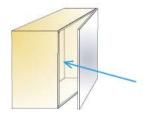
Dimensions



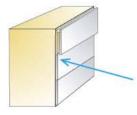




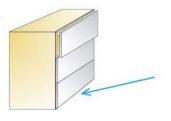
Positioning



Close to the 'touch opening point' on the side opposite to hinges



On the cabinet side; gap between drawer and cabinet side = min 12mm

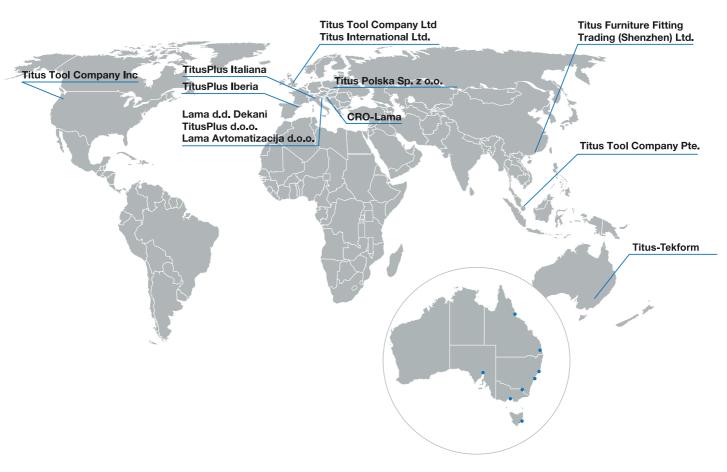


On the drawer bottom; in the middle of drawer

Push latch works with standard hinges.

Push latch works on drawer; the gap between the drawer and the cabinet side = min. 12 mm

Global player Worldwide design, manufacturing and distribution capabilities



Australia

New South Wales

Titus Tekform Pty Ltd

Unit 1&2, 41-43 Whyalla Place Prestons, NSW, 2170 Australia

T: +61 2 9826 0007 Fax: +61 2 9826 0074 ABN: 67 168 439 647

Titus Tekform Pty Ltd

Unit 3, 100 Munibung Road Cardiff, NSW, 2285 Australia T: +61 2 4954 4011

1: +61 2 4954 4011 Fax: +61 2 4954 4233

Queensland

Titus Tekform Pty Ltd

20 Civil Road Garbutt, QLD, 4814 Australia T: +61 7 4779 1366 Fax: +61 7 4779 1316 PO Box 7922 Garbutt, QLD, 4815

Titus Tekform Pty Ltd

1/32 Northlink Place Virginia, QLD, 4014 Australia T: +61 7 3266 3999 Fax: +61 7 3266 5236

Fax: +61 7 3266 5234 PO Box 266 Northgate, QLD, 4013

South Australia

Titus Tekform Pty Ltd

PO Box 357 Bayswater VIC 3153 Australia T: +61 8 8447 3700

Fax: +61 8 8447 3183

Tasmania

Titus Tekform Ptv Ltd

88 Hopkins Street Moonah, TAS, 7009 T: +61 3 6273 1199 Fax: +61 3 6273 0050 Australia PO Box 658 Moonah, TAS, 7009

Victoria

Titus Tekform Pty Ltd

2/20 Mint Street Wodonga, VIC, 3690 Australia

T: +61 2 6056 3188 Fax: +61 2 6056 3190

Titus Tekform Pty Ltd

8/59 Jersey Road Bayswater, VIC, 3153 Australia T: +61 8 8447 3700 Fax: +61 8 8447 3183 PO Box 357 Bayswater, VIC, 3153

Headquarters

Titus International Ltd

Brook House 54a Cowely Mill Road Uxbridge, Middlesex UB8 2QE United Kingdom +44 1895 203 730 +44 1895 252 793 Fax

www.titustekform.com.au

Index

Item number	Page	Item number	Page	Item number	Page	Item number	Page
00062	1.8	. 05656	1.28	. 2756,4036	1.42	. 248.0742.050	3.29
00068	1.8	05657	1.28	02182	1.42	248.0N25.050	3.29
00071	1.8	05676	1.28	951.0X94.050	2.11	248.0N62.050	3.29
00077	1.8	05678	1.28	951.0XP59.050	2.11	248.0N26.050	3.29
00171	1.8	05586	1.28	951.0P63.050	2.11	248.0Z81.050	3.29
00172	1.8	05652	1.28	951.0253.050	2.11	248.0R14.050	3.31
06074	1.8	05658	1.28	951.0F15.650	2.13	248.0M73.050	3.31
06077	1.8	05658	1.28	972.0X19.350	2.15	248.0S17.050	3.31
06080	1.8	05675	1.28	972.0X19.380	2.15	248.0R17.050	3.31
01056	1.8	05677	1.28	972.0X19.360	2.15	248.0R13.050	3.31
01020	1.8	05679	1.28	972.0X34.380	2.15	248.0S18.050	3.31
01042	1.8	05575	1.29	973.0X35.380	2.17	248.0M74.050	3.31
03118	1.10	05578	1.29	973.4451.380	2.17	248.0S19.050	3.31
03121	1.10	05580	1.29	973.4451.350	2.17	248.0R18.050	3.31
03168	1.10	05574	1.29	973.1679.040	2.17	248.0V65.050	3.31
03181	1.10	05576	1.29	973.0X95.380	2.19	248.0S69.050	3.31
03180	1.10	05579	1.29	973.0X39.380	2.19	248.0162.050	3.31
03090	1.10	06408	1.33	973.4125.350	2.19	248.0163.050	3.31
03150	1.10	06410	1.33	973.4126.309	2.19	248.0U21.050	3.33
06803	1.12	06479	1.33	954.0695.050	3.19	248.0U22.050	3.33
06806	1.12	06401	1.34	954.0212.050	3.19	248.0V29.050	3.33
06813	1.12	06402	1.34	954.0213.050	3.19	248.0U16.050	3.33
06839	1.12	06406	1.34	954.0214.050	3.19	248.0V15.050	3.33
02107	1.13	06403	1.34	954.0696.050	3.19	248.0Z79.050	3.33
02120	1.13	06405	1.34	954.0808.050	3.19	248.0Z20.050	3.33
02141	1.13	06495	1.34	248.0T10.050	3.21	248.0Z80.050	3.33
02144	1.13	06414	1.35	248.0T13.050	3.21	244.0R22.050	3.36
02130	1.13	06413	1.35	248.0T69.050	3.21	244.0R23.050	3.36
02139	1.13	06416	1.35	248.0T70.050	3.21	244.0R24.050	3.36
05453 05503	1.20 1.20	06451	1.36	248.0T71.050	3.21	244.0P71.050	3.36
05303	1.20	06453	1.36	248.0T72.050 248.0T94.050	3.21 3.21	244.0P72.050	3.36
05474	1.20	06435 06437	1.36 1.36	248.0T95.050	3.21	244.0P73.050 244.0S92.050	3.36
05388	1.20	06447	1.36	248.0V69.050	3.21	244.0S95.050 244.0S95.050	3.36 3.36
05414	1.21	06449	1.36	248.0V70.050	3.21	244.0S96.050 244.0S96.050	3.36
09435	1.22	06431	1.36	248.0V56.050	3.21	244.0P68.050	3.36
09588	1.22	06433	1.36	248.0V71.050	3.21	244.0P69.050	3.36
09443	1.22	06459	1.37	248.0V72.050	3.21	244.0P70.050	3.36
09583	1.22	06461	1.37	248.0274.050	3.21	244.0P77.050	3.36
09592	1.22	06443	1.37	248.0275.050	3.21	244.0P78.050	3.36
09594	1.22	06445	1.37	915.0Z85.050	3.23	244.0P79.050	3.36
09605	1.23	06395	1.37	915.0Z96.050	3.23	244.0\$43.050	3.36
09607	1.23	06455	1.37	915.0007.050	3.23	244.0\$44.050	3.36
09430	1.23	06457	1.37	915.7102.380	3.23	244.0\$45.050	3.36
05929	1.24	06439	1.37	915.7110.380	3.23	244.1136.050	3.36
05757	1.24	06441	1.37	915.7109.050	3.23	244.1137.050	3.36
05858	1.24	06397	1.37	915.7105.050	3.23	244.1138.050	3.36
05859	1.24	06470	1.38	248.0535.050	3.25	244.1139.050	3.36
05753	1.24	06473	1.38	248.0171.050	3.25	244.1645.050	3.36
05592	1.24	06465	1.38	248.0532.050	3.25	244.1233.050	3.36
05857	1.24	06464	1.38	248.0172.050	3.25	244.1228.050	3.36
05380	1.24	06471	1.38	248.0184.050	3.25	244.1229.050	3.36
05778	1.24	06472	1.38	248.0401.050	3.25	244.1234.050	3.36
05752	1.24	06381	1.39	248.0549.050	3.25	244.0Z26.050	3.36
05772	1.24	06385	1.39	248.0537.050	3.25	244.0Z63.050	3.36
05751	1.24	06383	1.39	248.0280.050	3.25	244.0134.050	3.36
05775	1.24	06387	1.39	248.0487.050	3.25	244.0561.050	3.36
05774	1.24	05971	1.40	248.0328.050	3.25	244.0562.050	3.36
05860	1.25	05960	1.40	248.0547.050	3.25	244.0135.050	3.36
09495	1.26	05917	1.40	248.0402.050	3.25	244.0118.050	3.36
09533	1.26	01029	1.43	248.0551.050	3.25	244.0120.050	3.36
09537	1.26	277.4355	1.43	248.0285.050	3.27	244.0119.050	3.36
09536	1.26	277.4225	1.43	248.0N20.050	3.27	244.0Z51.050	3.36
09491	1.27	275.4034	1.43	248.0P21.050	3.27	244.0136.050	3.36
09406	1.27	408.3166	1.41	248.0P64.050	3.27	244.0565.050	3.36
09631	1.27	408.3391	1.41	248.0291.050	3.27	244.0566.050	3.36
05587	1.28	408.3423	1.41	248.0Z78.050	3.27	244.0137.050	3.36
05653	1.28	408.3424	1.41	248.0745.050	3.29	244.0166.050	3.36
05644 05654	1.28 1.28	275.4035	1.42	248.0N24.050	3.29	244.0567.050	3.36
00004	1.20	275.4058	1.42	248.0L61.050	3.29	244.0568.050	3.36

Index

Item number	Page	Item number	Page	Item number	Page	Item number	Page
244.0167.050	3.36						
244.0P26.050	3.36						
244.0V19.050	3.36						
244.0P27.050	3.36						
244.3651.650	3.36						
244.3016.650	3.36						
244.0M33.650	3.36 3.36						
244.0085.650 244.0P29.650	3.36						
244.0095.650	3.36						
915.0X59.381	3.37						
915.4183.381	3.37						
915.4175.381	3.37						