



Timber construction

High-quality fastening technology in timber construction

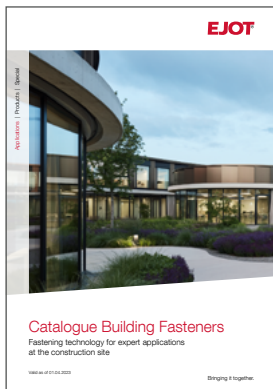
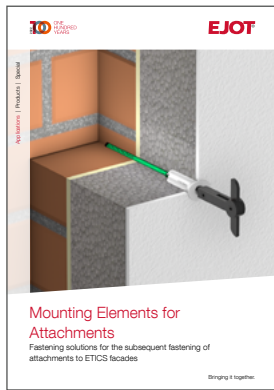
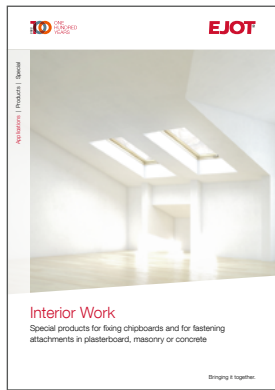
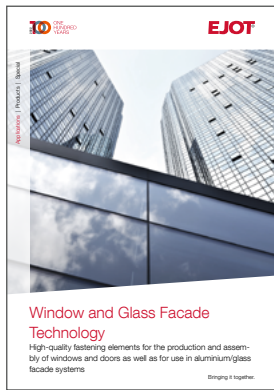
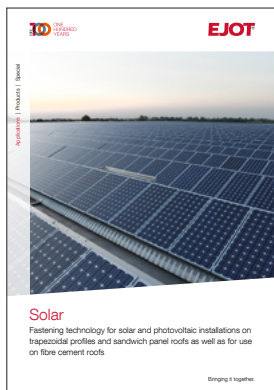
Bringing it together.

At home in many trades

Overview of our catalogues

Whether for professional applications on building facades or for anchoring solutions of technical facilities inside the building – EJOT offers the right fastening solution for every application.

Besides our comprehensive General Catalogue Building Fasteners, we offer you further catalogues on our business fields in addition to the individual catalogue Timber Construction. Unlike the printed general catalogue, the individual catalogues are available exclusively in digital form.



General Catalogue Building Fasteners 2023/2024

You can find the current catalogue online as a PDF version.

You can find a digital overview of our catalogues here:

www.ejot.com/catalogues

Product overview

T-FAST® Wood screws

JW2 countersunk head (steel)

JW2-STR-4.0xL	8
JW2-STR-4.5xL	8
JW2-STR-5.0xL	8
JW2-STR-6.0xL	8

JW2 wafer head (steel)

JW2-STS-6.0.xL	10
JW2-STS-8.0.xL	10

Machinery

Cordless screwdriver

ASCS 6.3 Select	13
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Tools

Bit

Hexalobular TX	14
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Bit holders

BT-1/4"-1/4"xL	15
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Technical abbreviations

Abbreviation	Description	Unit
b	Component width	mm
d	Thread outer diameter / nominal diameter	mm
d _h	head diameter	mm
h	Component height	mm

Abbreviation	Description	Unit
l	Screw length	mm
l _g	Thread length	mm
t ₁	Component thickness 1	mm

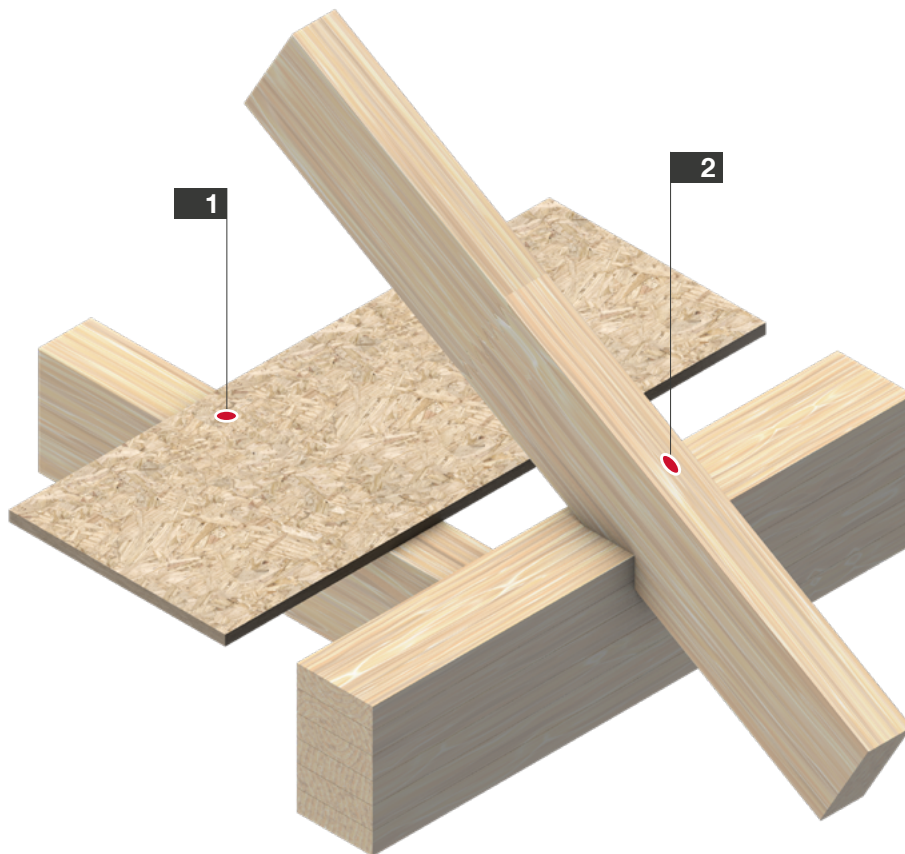
Timber construction


Description

General wood construction connections in the roof area and interior finishing. Fastening of wood, wood-based panels or sheets to wooden components made of solid wood, structural solid wood, glued laminated timber as well as panels made of solid wood, laminated veneer lumber or cross laminated timber in non-weathered areas.

Application

- > Roof: truss rafter to purlin
- > Beam layer: plate on ceiling joists
- > Wall structure: planking
- > Interior finishing: substructure fastening



No.	Application	Product	Page
1	 19 mm chipboard on ceiling joists	Wood screw JW2-STR-4.0x40/24-V	8

No.	Application	Product	Page
2	 18 cm rafter on purlin	Wood screw JW2-ST5-8.0x240/80-V	10

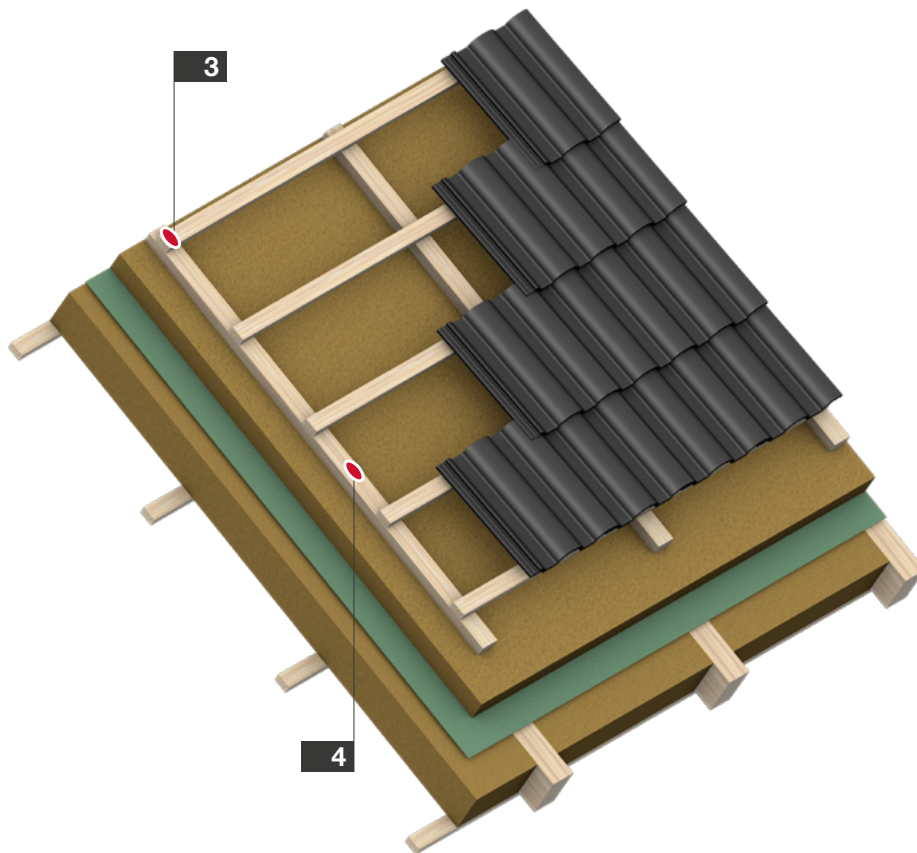
Above-rafter insulation


Description


Thermal insulation reduces heat loss and is the best way to increase energy efficiency. In this case, the above-rafter insulation lies outside the supporting structure and forms a continuous envelope without thermal bridges. It is interesting for the renovation that the insulation thickness is not dictated by the rafter height and that it does not restrict the existing interior height.

Application

- > Counter-batten
- > Above-rafter insulation
- > Load-bearing battens in areas with wind suction peaks



No.	Application	Product	Page
3	 30 mm support lath on 40 mm counter lath	Wood screw JW2-STR-4.0x70/42-V	8

No.	Application	Product	Page
4	 100 mm Above-rafter insulation fastening	Wood screw JW2-ST5-8.0x220/80-V	10

T-FAST® wood screws

T-FAST® partially threaded carbon steel screws can be used in a variety of ways to connect and fasten wood, wood-based material and sheet steel components to wood components in load-bearing and non-load-bearing areas. Their CE marking is based on ETA-18/0812 in which further information on properties and processing can be found.

All T-FAST® screws are equipped with TX drive for optimum torque transmission. This ensures simple and controlled processing without a cam-out effect. The cam-out effect describes the "wandering out" of the bit from the screw drive, for example in Z-drives. Furthermore, the typical "round turning" of the screw drive is effectively prevented with the TX drive. The drive remains intact and disassembly and reassembly of the screw remains possible. This protects the installer, material and machine.

T-FAST® screws are protected against corrosion with a coating thickness of 5 µm. In load-bearing areas, they may be used in service class 1 (heated interior). T-FAST® screws with $d > 4.0$ mm may also be used in service class 2 (roofed, non-weathered area with contact to the outside air) according to DIN EN 1995-1-1. Exceptions are structures with increased corrosion requirements such as swimming pools, livestock stables or industrial plants with increased corrosive strain.

Note on screw length

Countersunk heads (STR) are added to the screw length. For screws with surface mounted heads = wafer head (STS), the screw length is measured to below the head.

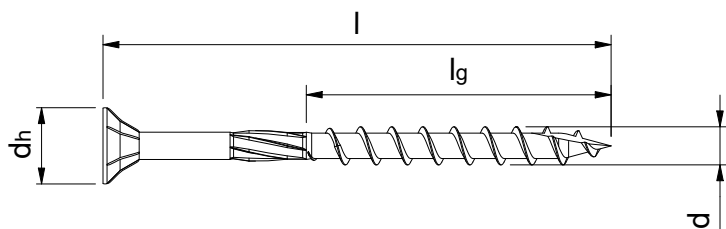


Fig. 1
STR screw (countersunk head)

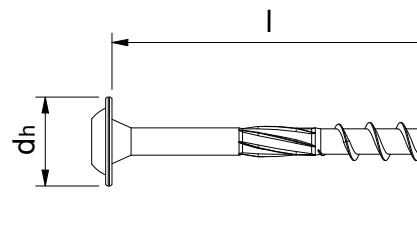


Fig. 2
STS screw (wafer head)

Notes for the reliable product selection in the T-FAST® partial thread screw range

The rule $4 \times d$ applies as a minimum specification for the installation depth into the point-side wood. However, the length of the T-FAST® Partial Thread Screws should be selected in such a way that there is no thread in the head-side component (component 1) after fixing. This allows the screw to pull the two components together. The following notes are intended to facilitate the correct selection of a suitable screw.

Head styles

T-FAST® STR with countersunk head can be used universally and can be countersunk flush with the surface in wood and wood-based materials. Steel components are pre-sunk with a 90-degree counter-sink angle at least to head diameter d_h .

T-FAST® STS with wafer head are versatile in timber construction. With the larger flat mounted head, they can pull components together more forcefully during assembly compared to countersunk heads and transmit greater tensile forces when installed, allowing them to withstand greater load effects.

Screw diameter

As a rule, all T-FAST® may be fastened into all component thicknesses. However, a T-FAST® with $d = 8.0$ mm, which is to be screwed into wooden components with $t_1 < 30$ mm, would have to be predrilled. But in this case the T-FAST® with $d = 8.0$ mm would be significantly oversized compared to the wooden component.

For the selection of a reasonable screw diameter, the component thickness can be divided by the value 6.5. In the case of odd results, rounding should be done sensibly.

For a 40 mm thick wood plank, a reasonable screw diameter is 6.0 mm:

Plank $t_1 = 40$ mm

$40 \text{ mm} \div 6.5 = 6.15 \text{ mm} \approx 6.0 \text{ mm}$ (rounded off)

With very thin component thicknesses made of solid wood, rounding up should rather be used. For a 24 mm thick board formwork, the screw diameter is 4.0 mm:

Board formwork $t_1 = 24$ mm

$24 \text{ mm} \div 6.5 = 3.69 \text{ mm} \approx 4.0 \text{ mm}$ (rounded up)

For particleboard, a minimum screw diameter of 4.0 mm should be used.

Screw length

For component thicknesses up to 50 mm, the useful screw length for T-FAST® is 2.5 times the component thickness. Example: 40 mm component thickness results in a reasonable screw length of $40 \text{ mm} \times 2.5 = 100 \text{ mm}$. For component thicknesses over 50 mm, add the corresponding thread length to the component thickness when using a T-FAST® with $d = 6.0$ mm + 70 mm, with $d = 8.0$ mm + 80 mm. For very thin components, for example for a 19 mm chipboard, a 40 mm long screw can be selected as well as a 50 mm long screw.

Application examples and product recommendations

Component 1	Dimensions component 1	Product recommendation
Wood chipboard	$t_1 = 19$ mm	T-FAST JW2-STR-4.0x40/24-V TX20
Board formwork	$t_1 = 24$ mm	T-FAST JW2-STR-4.0x60/36-V TX20
Supporting lath lying flat in horizontal orientation (with a stressed upper edge)	$h \times b = 30 \times 50$ mm	T-FAST JW2-STR-4.0x70/42-V TX20 (with 28 mm distance to the upper edge)
Counter batten horizontal (with a stressed upper edge)	$h \times b = 40 \times 60$ mm	T-FAST JW2-STR-4.5x80/48-V TX20 (with 32 mm distance to the upper edge)
Plank	$t_1 = 40$ mm	T-FAST JW2-STR-6.0x100/60-V TX30 or T-FAST JW2-STS-6.0x100/60-V TX30

T-FAST® wood screw JW2-STR



application range

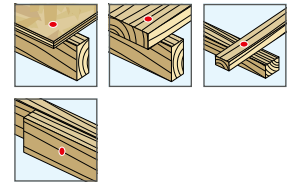
- > Fastening of non-pre-drilled or pre-drilled components made of wood, wood-based material and pre-drilled and pre-set steel components to non-pre-drilled or pre-drilled components made of solid wood, solid structural timber (KVH), glued-laminated timber (BSH), laminated veneer lumber (LVL) in non-weathered areas.

Properties

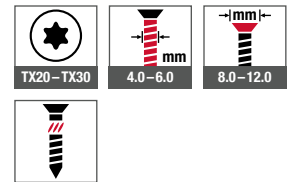
- > Carbon steel with zinc-plated surface, 5 µm plating thickness
- > Countersunk head with milling ribs on the underside makes it easier to countersink the head for surface-fixed installation
- > Partial thread with end mill at the transition to the non-threaded fastener shaft reduces the installation torque and simplifies the installation process
- > Optimised thread geometry for extremely fast processing
- > Special tip geometry ensures quick gripping and enables fast processing

Cross references	page
Bit hexalobular TX	14
Cordless screwdriver ASCS 6.3	13
Bit holder	15

Applications



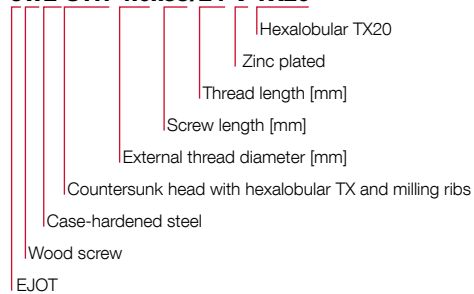
Technical specifications



Certifications



JW2-STR-4.0x35/24-V TX20



Product online



Order description	d [mm]	l [mm]	l _g [mm]	d _n [mm]	Drive	PU [pieces]	Price/100 [EUR]	Article number	EAN
d 4.0									
T-FAST JW2-STR-4.0x35/24-V TX20	4.0	35	24	8.0	TX20	500		3820000001	4061245071107
T-FAST JW2-STR-4.0x40/24-V TX20	4.0	40	24	8.0	TX20	500		3820000002	4061245071367
T-FAST JW2-STR-4.0x50/30-V TX20	4.0	50	30	8.0	TX20	500		3820000003	4061245071374
T-FAST JW2-STR-4.0x60/36-V TX20	4.0	60	36	8.0	TX20	500		3820000004	4061245071381
T-FAST JW2-STR-4.0x70/42-V TX20	4.0	70	42	8.0	TX20	500		3820000005	4061245071398
d 4.5									
T-FAST JW2-STR-4.5x50/30-V TX20	4.5	50	30	9.0	TX20	500		3820000006	4061245071404
T-FAST JW2-STR-4.5x60/36-V TX20	4.5	60	36	9.0	TX20	500		3820000007	4061245071411
T-FAST JW2-STR-4.5x70/42-V TX20	4.5	70	42	9.0	TX20	500		3820000008	4061245071428
T-FAST JW2-STR-4.5x80/48-V TX20	4.5	80	48	9.0	TX20	250		3820000009	4061245071435
d 5.0									
T-FAST JW2-STR-5.0x50/30-V TX25	5.0	50	30	10.0	TX25	500		3820000010	4061245071442
T-FAST JW2-STR-5.0x60/36-V TX25	5.0	60	36	10.0	TX25	500		3820000011	4061245071459
T-FAST JW2-STR-5.0x70/42-V TX25	5.0	70	42	10.0	TX25	250		3820000012	4061245071466
T-FAST JW2-STR-5.0x80/48-V TX25	5.0	80	48	10.0	TX25	250		3820000013	4061245071473
T-FAST JW2-STR-5.0x90/54-V TX25	5.0	90	54	10.0	TX25	250		3820000014	4061245071480
T-FAST JW2-STR-5.0x100/60-V TX25	5.0	100	60	10.0	TX25	250		3820000015	4061245071497
d 6.0									
T-FAST JW2-STR-6.0x60/36-V TX30	6.0	60	36	12.0	TX30	500		3820000016	4061245071503
T-FAST JW2-STR-6.0x80/48-V TX30	6.0	80	48	12.0	TX30	250		3820000017	4061245071510
T-FAST JW2-STR-6.0x100/60-V TX30	6.0	100	60	12.0	TX30	250		3820000018	4061245071527
T-FAST JW2-STR-6.0x120/70-V TX30	6.0	120	70	12.0	TX30	250		3820000019	4061245071534
T-FAST JW2-STR-6.0x140/70-V TX30	6.0	140	70	12.0	TX30	250		3820000020	4061245071541
T-FAST JW2-STR-6.0x160/70-V TX30	6.0	160	70	12.0	TX30	100		3820000021	4061245071558
T-FAST JW2-STR-6.0x180/70-V TX30	6.0	180	70	12.0	TX30	100		3820000022	4061245071565
T-FAST JW2-STR-6.0x200/70-V TX30	6.0	200	70	12.0	TX30	100		3820000023	4061245071572
T-FAST JW2-STR-6.0x220/70-V TX30	6.0	220	70	12.0	TX30	100		3820000024	4061245071589
T-FAST JW2-STR-6.0x240/70-V TX30	6.0	240	70	12.0	TX30	100		3820000025	4061245071596
T-FAST JW2-STR-6.0x260/70-V TX30	6.0	260	70	12.0	TX30	100		3820000026	4061245071602

T-FAST® wood screw JW2-STS



application range

- > Fastening of non-pre-drilled or pre-drilled components made of wood, wood-based material and pre-drilled and pre-set steel components to non-pre-drilled or pre-drilled components made of solid wood, solid structural timber (KVH), glued-laminated timber (BSH), laminated veneer lumber (LVL) in non-weathered areas.
- > Suitable for fastening over-rafter insulation systems
- > Ideal solution for fixing rafters onto purlins

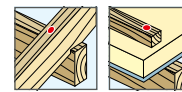
Properties

- > Carbon steel with zinc-plated surface, 5 µm plating thickness
- > Wafer head increases the pull-through capacity
- > Partial thread with end mill at the transition to the non-threaded fastener shaft reduces the installation torque and simplifies the installation process
- > Optimised thread geometry for extremely fast processing
- > Special tip geometry ensures quick gripping and enables fast processing

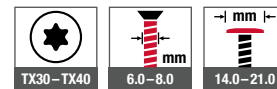
Cross references page

Bit hexalobular TX	14
Cordless screwdriver ASCS 6.3	13
Bit holder	15

Applications



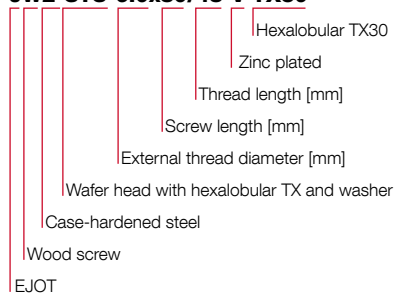
Technical specifications



Certifications



JW2-STS-6.0x80/48-V TX30



Product online



Order description	d [mm]	l [mm]	l _g [mm]	d _n [mm]	Drive	PU [pieces]	Price/100 [EUR]	Article number	EAN
d 6.0									
T-FAST JW2-ST5-6.0x80/48-V TX30	6.0	80	48	14.0	TX30	250		3820000029	4061245073941
T-FAST JW2-ST5-6.0x100/60-V TX30	6.0	100	60	14.0	TX30	250		3820000030	4061245073958
T-FAST JW2-ST5-6.0x120/70-V TX30	6.0	120	70	14.0	TX30	250		3820000031	4061245073965
T-FAST JW2-ST5-6.0x140/70-V TX30	6.0	140	70	14.0	TX30	250		3820000032	4061245073972
T-FAST JW2-ST5-6.0x160/70-V TX30	6.0	160	70	14.0	TX30	100		3820000033	4061245073989
T-FAST JW2-ST5-6.0x180/70-V TX30	6.0	180	70	14.0	TX30	100		3820000034	4061245073996
T-FAST JW2-ST5-6.0x200/70-V TX30	6.0	200	70	14.0	TX30	100		3820000035	4061245074009
T-FAST JW2-ST5-6.0x220/70-V TX30	6.0	220	70	14.0	TX30	100		3820000036	4061245074016
T-FAST JW2-ST5-6.0x240/70-V TX30	6.0	240	70	14.0	TX30	100		3820000037	4061245074023
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d 8.0									
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T-FAST JW2-ST5-8.0x120/80-V TX40	8.0	120	80	21.0	TX40	100		3820000043	4061245071619
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T-FAST JW2-ST5-8.0x180/80-V TX40	8.0	180	80	21.0	TX40	50		3820000046	4061245070889
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T-FAST JW2-ST5-8.0x280/80-V TX40	8.0	280	80	21.0	TX40	50		3820000051	4061245071039
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T-FAST JW2-ST5-8.0x320/80-V TX40	8.0	320	80	21.0	TX40	50		3820000053	4061245071053
T-FAST JW2-ST5-8.0x340/80-V TX40	8.0	340	80	21.0	TX40	50		3820000054	4061245074061
T-FAST JW2-ST5-8.0x360/80-V TX40	8.0	360	80	21.0	TX40	50		3820000055	4061245074078
T-FAST JW2-ST5-8.0x380/80-V TX40	8.0	380	80	21.0	TX40	50		3820000056	4061245074085
T-FAST JW2-ST5-8.0x400/80-V TX40	8.0	400	80	21.0	TX40	50		3820000057	4061245074092

Machinery Spare Parts Tools

Cordless screwdriver ASCS 6.3 Select



Included in delivery

- 1 ASCS 6.3
(without battery pack or battery charger)
- 1 plastic tool case
- 1 scaffolding anchor
- 1 depth stop
- 1 socket for hexagon screws SW8

Application range

- > Torque-optimised cordless screwgun for fixing metal with screw diameters of up to 6.3 mm

Properties

- > Path-oriented fastening through depth stop facilitates optimal fit of the sealing washers
- > Electronic torque shut-off for precise results even without depth stop
- > Maintenance-free, brushless motor with a very high degree of efficiency
- > Tested for over 500,000 single fixings
- > Over 1000 recharge cycles per battery pack
- > Extremely low weight
- > Optimum ergonomics with pistol handle for high contact pressure
- > Powerful up to 30 Nm

Technical specifications

Battery voltage	18 V
Load speed	0-1500 rpm
Idle speed	0-1700 rpm
Max. torque (hard/soft)	30/10 Nm
Quick change chuck	1/4"
Screw	Ø 6.3 mm
Battery pack	not included in delivery

3-year FEIN PLUS

Warranty

including battery and charger
(if registered online)

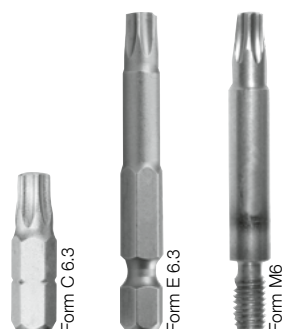
New: Tested for over 1 million
single fixings

Product online



Order description	PU [pieces]	Price/1 [EUR]	Article number	EAN
Cordless screwdriver ASCS 6.3 Select	1		9150200003	4014586881461
Accessories				
Depth stop sleeve	1		9150508100	4014586251318
Adapter for sealing washers ≤ Ø 16 mm	1		9150508016	4014586251288
Adapter for sealing washers ≤ Ø 22 mm	1		9150508022	4014586251295
Long screw support SH2 incl. socket holder, adapter and socket SW8	1		9150508111	4250483605087
Socket SW8 - 1/4" x 25	1		9150315000	4061245020976
Adapter for sealing washers ≤ Ø 22 mm	1		9151701029	4250483605094
Adapter for FZ sealing washers ≤ Ø 25 mm	1		9151701129	4250483605100

Bit hexalobular TX



Cross references	page
Bit holder	15

Application range

> For fastening of all EJOT fasteners with drive hexalobular TX

Technical specifications



Product online



Order description	Drive and Size	Length [mm]	PU [pieces]	Price/1 [EUR]	Article number	EAN
Drive: 1/4" hexagon DIN/ISO 1173 - E 6.3						
TX20-1/4"/Cx25	TX20	25	1		9150010000	4050623100553
TX20W-1/4"/Cx25*	TX20W	25	1		9150008000	4050623100744
TX25-1/4"/Cx25	TX25	25	1		9150009000	4061245021072
TX25W-1/4"/Cx25*	TX25W	25	1		9150003000	4061245021102
TX30-1/4"/Cx25	TX30	25	1		9250431000	4050623100584
TX30W-1/4"/Cx25*	TX30W	25	1		9250431002	4050623100775
TX40-1/4"/Cx25	TX40	25	1		9250480000	4050623100591
Drive: 1/4" hexagon DIN/ISO 1173 - E 6.3						
TX25HF-1/4"/Ex50**	TX25	50	1		9506008401	4013288106926
TX30-1/4"/Ex50	TX30	50	1		9250431001	4050623102670
TX30-1/4"/Ex200	TX30	200	1		9253014200	4039161010975
TX30-1/4"/Ex350	TX30	350	1		9253014350	4061245021096
Drive: threaded connection M 6						
TX25-M6x33	TX25	33	1		9250251425	4061245021089
TX30-M6x33	TX30	33	1		9250251430	4050623103936

* Special bit: conical design for force fit at screw head of painted screws

**Bit with holding function for unpainted screws

Bit holders



Application range

- > For holding all bits with drive form C

Technical specifications



Cross references

	page
Bit hexalobular TX	14
Cordless screwdriver ASCS 6.3	13

Order description	Length [mm]	PU [pieces]	Price/1 [EUR]	Article number	EAN
Drive: 1/4" hexagon DIN/ISO 1173 - E 6.3					
BT-1/4"-1/4"x57	57	1		9150506031	4050623800019
BT-1/4"-1/4"x250	250	1		9250010120	4061245021126

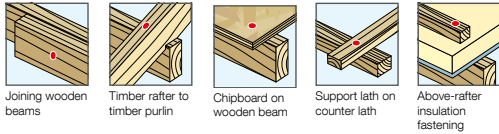
Product online



Product and note charts

Applications

Timber Construction



Technical data | Certifications | Other

Technical specifications

 DC $t_1 + t_2$ 1.0 + 1.0 Drilling capacity $t_1 + t_2$	 DC t_1 1.0 Drilling capacity t_1	 DC t_2 1.0 Drilling capacity t_2	 1/min max. 1,800 Installation rotation speed	 Screw with swarf-reducing point	 t_{cl} 0 - 4 Clamping thickness screw	 16 diameter Hexagon head	 7.5 diameter Countersunk head	 12.0 diameter Countersunk head with flange	 12.0 diameter Pan head	 12.0 diameter LT Pan head	 12.0 diameter LT Pan head with cutting ring
 12.0 diameter Truss head	 12.0 diameter cylinder head	 2.0 Height hexagon head	 13 Height LT pan head	 13 Height LT pan head with cutting ring	 13 Height truss head	 13 Height flat head	 4.8 Screw diameter with Hexagon head	 4.8 Screw diameter with counter- sunk head	 4.8 Screw diameter with counter- sunk head	 4.8 Screw diameter with pan head	 4.8 Screw diameter with LT pan head
 4.8 Screw diameter with LT pan head with cutting ring	 4.8 Screw diameter with truss head	 4.8 Screw diameter with flat head	 End mill	 Wing drill screw	 13 Flange head diameter	 5 Undercut	 6.3 High thread diameter	 5 Length non-threaded part Hexagon head screw	 13 Length non-threaded part LT-XT pan head screw	 13 Length non-threaded part LT-XT pan head screw	 9.5 Diameter rivet setting head
 1.5 Height rivet setting head	 2.7 Diameter rivet- setting mandrel	 4.8 Diameter rivet shaft	 d_h 4.9 Drill hole diameter rivet	 TX white Push-on cap	 XT Centring grommet	 13 Effective shaft length	 8.0 Flat roofing anchor diameter	 50 Flat roof stress plate diameter	 t_{cl} 15 Clamp thickness metal anchor	 M12 Set screw diameter	 M8 Internal thread diameter
 10 Threaded sleeve external diameter	 8.0 Insulation support anchor shaft diameter	 90 Insulation support anchor washer diameter	 8.0 Nylon anchor diameter	 8.0 Metal anchor diameter	 T_{inst} 60 Tightening torque	 SDS plus Drive SDS plus*	 4-edge Drill with 4-cutting edge geometry	 PGM Masonry Drill Bit Certification Board	 E16 Sealing washer size and material	 H2 Drive cross recess H	 H2 Drive external cross recess H
 Z2 Drive cross recess Z	 Z2 Drive external cross recess Z	 5 Drive internal square	 5 Drive external square	 Triangular drive external triangular	 SW8 Drive external hexagon	 SW8 Drive internal hexagon	 SW13/TX40 Drive external hexagon/ hex- alobular	 TX25 Drive hexalobular	 TX25 Drive external hexalobular	 d_{nom} 10 Nominal drill diameter	 d_h 10 Drill hole diameter
 h_1 10 Drill hole depth	 t 10 Drill hole depth	 h_{nom} ≥ 70 Nominal embedment depth	 h_{eff} ≥ 50 Effective embedment depth	 h_v ≥ 70 Embedment depth	 d 10 Through hole component I	 Slip resistance due to tele- scopic system	 Slip resistance through support	 ETB Checked fastening element acc. to ETB guideline	 RC2 Resistance class of burglar- resistant components	 Waterproof	 Protect from moisture
 ROSTFREI STAINLESS STEEL Stainless steel material	 Suitable for high- strength sub- structures	 Also available as painted version	 Werte ermittelt durch das Passivhaus Institut Values determined by the Passivhaus Institute	 A1 Fire perfor- mance class according to European standard and DIN	 F120 Fire rating according to DIN 4102-2	 F-resistant	 C2 Suitability according to seismic performance category	 C 1000 Coating C 1000	 CLIMA DUR Coating CLIMADUR	 EJO GUARD Coating EJO GUARD	 EJO GUARD + EJO GUARD+ coating

Certifications



ETA-10/0200
European
Technical
Assessment



Z-14.4-426
National technical approval
abZ



Z-21.2-2122
General construction
technique
permit aBG



P-BWU02-
168012
National test
certificate abP



FM Approval
product
certification by
FM Global



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Test report no.
509 20107/1+2
ift Rosenheim
test report



Emission cate-
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to French VOC
directive



International
Code Council
Evaluation
Service



LEED-
TESTED

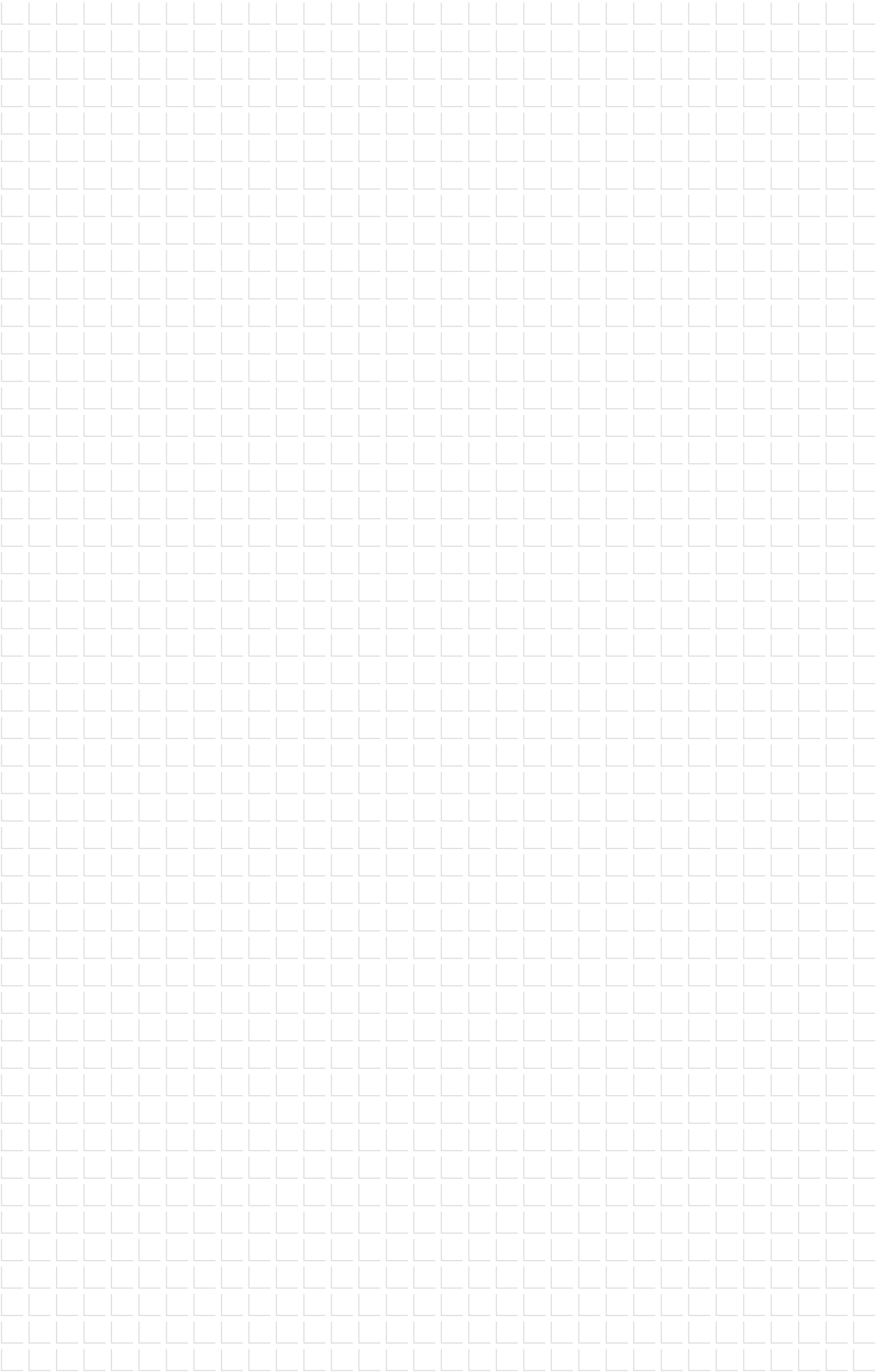
Other



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