

JZ5 self-tapping screws

For mechanical fastening of components to heavy and high-strength steel structures

Bringing it together.



It's the little things that connect the big ones

Our strongest screw for the hardest steel

Self-tapping screws are always used when the maximum drilling capacity is too high for a self-drilling screw. Especially components with a high material thickness require the use of a self-tapping screw.

In the construction of particularly large buildings, the trend is towards ever larger spans of steel beams. A high-strength material is used in order to ensure a reliable stability of the buildings.

Self-tapping screws are used to fasten this solid material. Due to the hardened thread forming zone, the new self-tapping screw JZ5 is characterized by a particularly high level of process reliability during thread forming.

As the strongest EJOT screw to date, the new JZ5 bi-met self-tapping screw meets the increasing requirements on the market.

Self-tapping screws



Fine pitch thread with dog point (JZ)



Coarse thread with point (JA)



Fine pitch thread with point (JB)

Self-drilling screws



Drill point with cutting edge (JT)



EJOFAST® screw point geometry (JF)



Hard, harder – JZ5

The new bi-met self-tapping screw for high-strength steels

The special feature of the new JZ5 bi-met self-tapping screw is the hardened thread forming zone at the lower end of the dog point. To ensure that the JZ5 can reliably form its thread turns into the high-strength steel substructure, it features a point made of hardened carbon steel, just like bi-met self-drilling screws.

The remaining part of the screw, including the sealing washer, is made of weather-resistant A2 stainless steel. Thus, the JZ5 is perfectly equipped for applications in weather-exposed areas and also reliably protects the drill hole from penetrating moisture.

The advantages of the JZ5 at a glance

> **For high-strength steel substructures**

The harder steel point of the bi-met self-tapping screw can also penetrate harder materials and thus form a thread significantly better in high-strength steel structures

> **Version with 8.0 mm diameter**

For replacement of screws with a smaller diameter, for example during renovation

> **Weather- and UV-resistant**

Reliable waterproofing through elastomer sealing

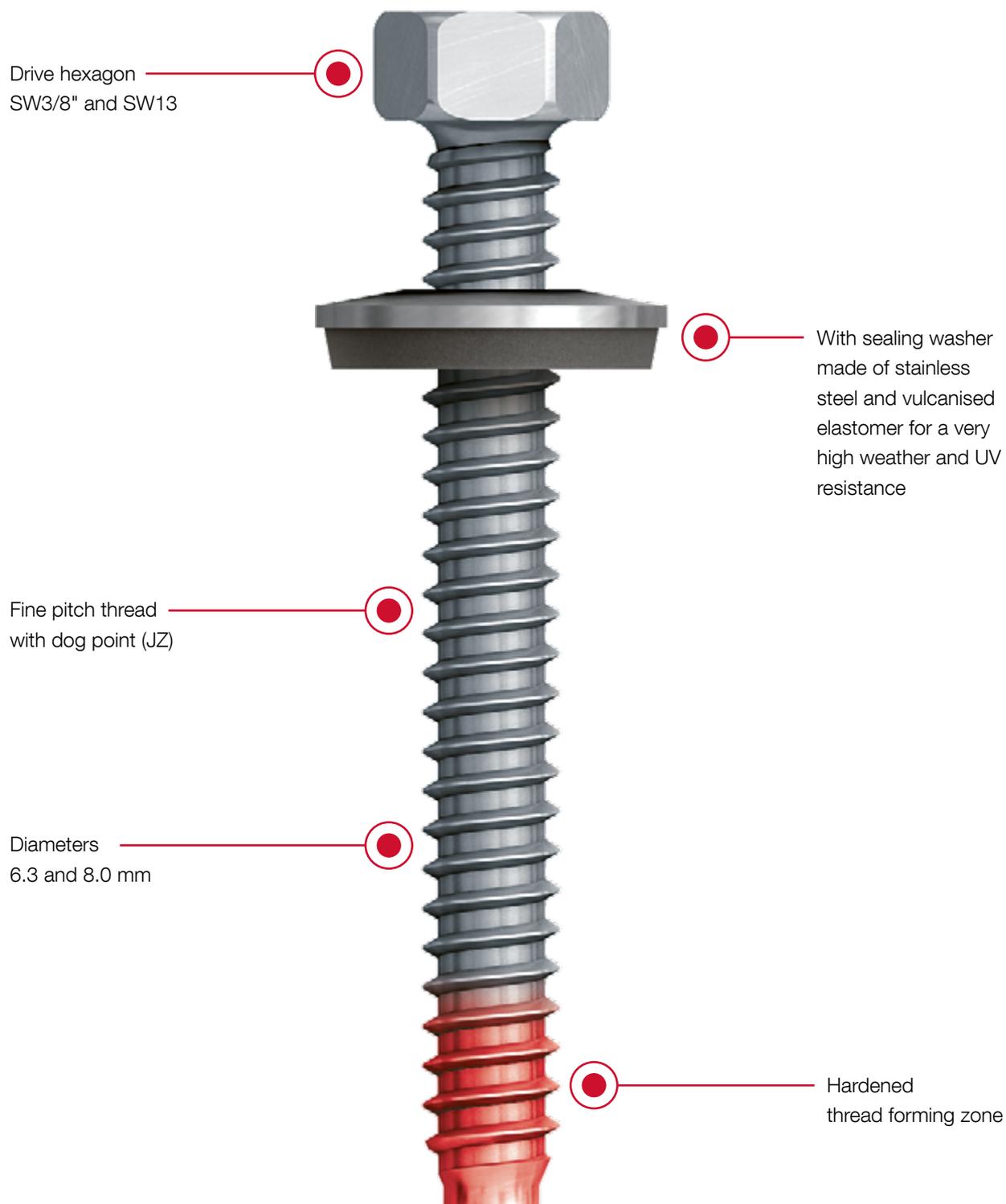
> **For fastening situations with limited space**

The JZ5-6.3 is ideally suited for applications with little space where a drill point cannot be used (e.g. insertion rails)



JZ5 self-tapping screws

The bi-met self-tapping screw in detail



Self-tapping bi-met screws

For a wide range of applications

Aircraft hangars



Production halls



Arenas



Logistic centres



On the roof



Trapezoidal profile to steel purlin ≥ 16.0 mm



Corrugated profile sheet to steel purlin ≥ 16.0 mm



Trapezoidal profile to insertion rail 3.0 mm



Corrugated profile sheet to insertion rail 3.0 mm



Sandwich panel to steel purlin ≥ 16.0 mm



Sandwich panel to insertion rail 3.0 mm

On the wall



Trapezoidal profile to steel purlin ≥ 16.0 mm



Corrugated profile sheet to steel purlin ≥ 16.0 mm

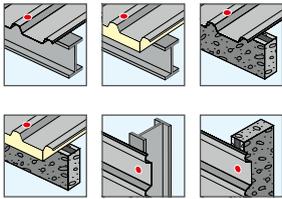
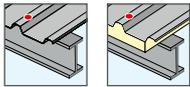


Trapezoidal profile to insertion rail 3.0 mm



Corrugated profile sheet to insertion rail 3.0 mm

Product overview JZ5 self-tapping screws

Type	JZ5-6.3xL	JZ5-8.0xL
		
Material	A2 stainless steel with hardened thread forming zone	
Applications		
Clamp thickness t_{fix} longest length [mm]	0 - 252	0 - 133
Screw length [mm]	20 - 263	60 - 150
Drive		
Sealing washer combinations		
Certifications	ETA-10/0200 ETA-13/0177	
Tools	 Socket wrench insert	 Socket wrench insert
QR code for the online shop		

Self-tapping screw JZ5-6.3



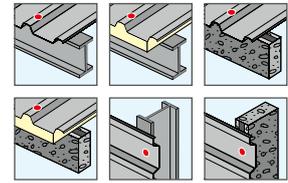
Application range

- > Fastening profiled steel sheets and sandwich panels to steel substructures
- > For high-strength steel substructures

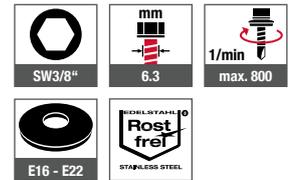
Properties

- > A2 stainless steel with hardened thread forming zone
- > Stainless steel sealing washer
- > Pre-assembled sealing washer

Applications



Technical specifications



Cross references

Socket wrench insert SW3/8"
 Cordless screwdriver ASCS 6.3
 ORKAN storm washers
 Drill bit HSS
 Drill hole chart

Certifications



Product in the online shop



Order description	Length [mm]	clamp thickness [mm]	PU [pieces]	Article number	EAN
Sealing washer E16, Ø 16 mm					
JZ5-6.3x20 E16	20	0 - 9	500	3191011311	4061245073194
JZ5-6.3x25 E16	25	0 - 14	500	3191111311	4061245073224
JZ5-6.3x30 E16	30	0 - 19	500	3191211311	4061245073255
JZ5-6.3x40 E16	40	0 - 29	250	3191311311	4061245073286
JZ5-6.3x53 E16	53	0 - 41	250	3191411311	4061245073316
JZ5-6.3x63 E16	63	0 - 52	250	3191511311	4061245073347
JZ5-6.3x83 E16	83	21 - 72	250	3191611311	4061245073378
JZ5-6.3x93 E16	93	31 - 82	100	3191711311	4061245073408
JZ5-6.3x103 E16	103	41 - 92	100	3191811311	4061245074207
JZ5-6.3x113 E16	113	51 - 102	100	3191911311	4061245073460
JZ5-6.3x123 E16	123	61 - 112	100	3192011311	4061245073491
JZ5-6.3x133 E16	133	71 - 122	100	3192111311	4061245073521
JZ5-6.3x143 E16	143	81 - 132	100	3192211311	4061245076201
JZ5-6.3x153 E16	153	91 - 142	100	3192311311	4061245073552
JZ5-6.3x163 E16	163	101 - 152	100	3192411311	4061245073583
JZ5-6.3x183 E16	183	121 - 172	100	3192511311	4061245073613
JZ5-6.3x203 E16	203	141 - 192	100	3192611311	4061245073644
JZ5-6.3x223 E16	223	161 - 212	100	3192711311	4061245073675
JZ5-6.3x243 E16	243	181 - 232	100	3192811311	4061245073705
JZ5-6.3x263 E16	263	201 - 252	100	3192911311	4061245073736



Order description	Length [mm]	clamp thickness [mm]	PU [pieces]	Article number	EAN
Sealing washer E19, Ø 19 mm					
JZ5-6.3x20 E19	20	0 - 9	500	3191066311	4061245073200
JZ5-6.3x25 E19	25	0 - 14	500	3191166311	4061245073231
JZ5-6.3x30 E19	30	0 - 19	500	3191266311	4061245073262
JZ5-6.3x40 E19	40	0 - 29	250	3191366311	4061245073293
JZ5-6.3x53 E19	53	0 - 41	250	3191466311	4061245073323
JZ5-6.3x63 E19	63	0 - 52	100	3191566311	4061245073354
JZ5-6.3x83 E19	83	21 - 72	100	3191666311	4061245073385
JZ5-6.3x93 E19	93	31 - 82	100	3191766311	4061245073415
JZ5-6.3x103 E19	103	41 - 92	100	3191866311	4061245074221
JZ5-6.3x113 E19	113	51 - 102	100	3191966311	4061245073477
JZ5-6.3x123 E19	123	61 - 112	100	3192066311	4061245073507
JZ5-6.3x133 E19	133	71 - 122	100	3192166311	4061245073538
JZ5-6.3x143 E19	143	81 - 132	100	3192266311	4061245076218
JZ5-6.3x153 E19	153	91 - 142	100	3192366311	4061245073569
JZ5-6.3x163 E19	163	101 - 152	100	3192466311	4061245073590
JZ5-6.3x183 E19	183	121 - 172	100	3192566311	4061245073620
JZ5-6.3x203 E19	203	141 - 192	100	3192666311	4061245073651
JZ5-6.3x223 E19	223	161 - 212	100	3192766311	4061245073682
JZ5-6.3x243 E19	243	181 - 232	100	3192866311	4061245073712
JZ5-6.3x263 E19	263	201 - 252	100	3192966311	4061245073743
Sealing washer E22, Ø 22 mm					
JZ5-6.3x20 E22	20	0 - 9	500	3191013311	4061245073217
JZ5-6.3x25 E22	25	0 - 14	500	3191113311	4061245073248
JZ5-6.3x30 E22	30	0 - 19	500	3191213311	4061245073279
JZ5-6.3x40 E22	40	0 - 29	250	3191313311	4061245073309
JZ5-6.3x53 E22	53	0 - 41	250	3191413311	4061245073330
JZ5-6.3x63 E22	63	0 - 52	100	3191513311	4061245073361
JZ5-6.3x83 E22	83	21 - 72	100	3191613311	4061245073392
JZ5-6.3x93 E22	93	31 - 82	100	3191713311	4061245073422
JZ5-6.3x103 E22	103	41 - 92	100	3191813311	4061245074238
JZ5-6.3x113 E22	113	51 - 102	100	3191913311	4061245073484
JZ5-6.3x123 E22	123	61 - 112	100	3192013311	4061245073514
JZ5-6.3x133 E22	133	71 - 122	100	3192113311	4061245073545
JZ5-6.3x143 E22	143	81 - 132	100	3192213311	4061245076225
JZ5-6.3x153 E22	153	91 - 142	100	3192313311	4061245073576
JZ5-6.3x163 E22	163	101 - 152	100	3192413311	4061245073606
JZ5-6.3x183 E22	183	121 - 172	100	3192513311	4061245073637
JZ5-6.3x203 E22	203	141 - 192	100	3192613311	4061245073668
JZ5-6.3x223 E22	223	161 - 212	100	3192713311	4061245073699
JZ5-6.3x243 E22	243	181 - 232	100	3192813311	4061245073729
JZ5-6.3x263 E22	263	201 - 252	100	3192913311	4061245073750

Self-tapping screw JZ5-8.0



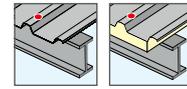
Application range

- > Fastening profiled steel sheets and sandwich panels to steel substructures up to S 355 (St 52)
- > Suitable for replacing screws with diameter 5.5 mm and 6.3 mm

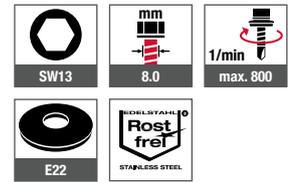
Properties

- > A2 stainless steel with hardened thread forming zone
- > Stainless steel sealing washer
- > Pre-assembled sealing washer

Applications



Technical specifications



Cross references

Socket wrench insert SW13
 Cordless screwdriver ASCS 6.3
 ORKAN storm washers
 Drill bit HSS
 Drill hole chart

Certifications



Product in the online shop



Order description	Length [mm]	clamp thickness [mm]	PU [pieces]	Article number	EAN
Sealing washer E22, Ø 22 mm					
JZ5-8.0x60 E22	60	0 - 43	250	3190653311	4061245062600
JZ5-8.0x80 E22	80	16 - 63	100	3190853311	4061245062617
JZ5-8.0x100 E22	100	36 - 83	100	3191053311	4061245062624
JZ5-8.0x150 E22	150	86 - 133	100	3191553311	4061245062631



Sealing washers

Increased reliability when using sealing washers

EJOT recommends using sealing washers – also in combination with case-hardened steel screws that are used in unweathered areas.

The risk of damaging the screw joint with improper installation (e.g. excessive tightening torque, slightly sloped clamping) is significantly reduced when using sealing washers.

Furthermore, the clamp load and thus the tensile stress in the screw are limited by the use of sealing washers. A direct exposure of the joint (protective surface coating damaged by the fastening process) is almost prevented - the risk of operational, hydrogen-induced embrittlement drops significantly.

Rain-proof connections

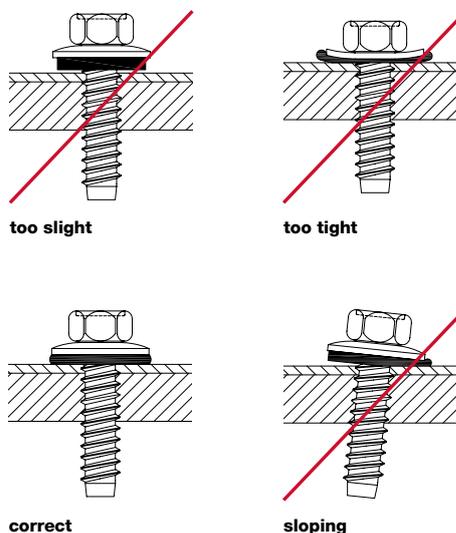
The use of sealing washers facilitates the formation of rain-proof fastening and connection points in lightweight metal construction.

When planning and executing the connections, the minimum roof pitches according to the specialist rules of lightweight metal construction must be observed.

Correct installation of sealing washers

Screws with sealing washers must be installed using a depth stop. Deformation of the sealing washer (washer with elastomer seal) is prevented with the adjustable depth stop on the screwdriver.

If the sealing washer is correctly installed, the rubber seal may overlap. Only if the metal back of the sealing washer changes from convex to concave, the joint is definitely too tight.





At home in many trades

The EJOT® business areas at a glance

With the Construction Division, EJOT offers professional fastening solutions for the building industry in the Building Fasteners and ETICS Fasteners sectors.

With EJOT you get everything you need for almost every application from a single supplier with the usual high product quality.

Timber Construction

High-quality fastening technology for anchor and direct assembly in timber construction

www.ejot.com/timber-construction

Industrial Lightweight Construction

High-quality fasteners for fixing profiled sheets and sandwich panels in the industrial lightweight construction sector

www.ejot.com/industrial-lightweight-construction

Solar

Fastening technology for solar and photovoltaic installations on trapezoidal steel profile and sandwich element roofs as well as for use on fibre cement roofs

www.ejot.com/solar

Flat Roofing

Fasteners, and installation tools for the efficient fixing of insulation and waterproofing membrane to flat roofs and slightly sloping roofs

www.ejot.com/flat-roofing

Rear-Ventilated Facades

Complete substructure system with consoles, screws, anchoring solutions, insulation support anchors and anchors

www.ejot.com/rear-ventilated-facades

Anchoring Technology

Special products for mechanical anchoring in non-cracked and cracked concrete as well as chemical and thus expansion pressure-free products for heavy-duty fastening in concrete and masonry.

www.ejot.com/anchoring-technology

Window and Glass Facade Technology

High quality fastening elements for window and door assembly and use in aluminium/glass facade systems

www.ejot.com/window-and-glass-facade-technology

Interior Work

Special products for fastening wood chipboards and for fastening attachments in plasterboard, masonry or concrete

www.ejot.com/interior-work

Fastening solutions for External Thermal Insulation Composite Systems (ETICS)

Special anchors for fixing insulation on external wall systems

www.ejot.com/etics-fasteners

Mounting Elements for Attachments

Fastening solutions for the planned and subsequent fastening of attachments to ETICS facades

www.ejot.com/etics-mounting-elements

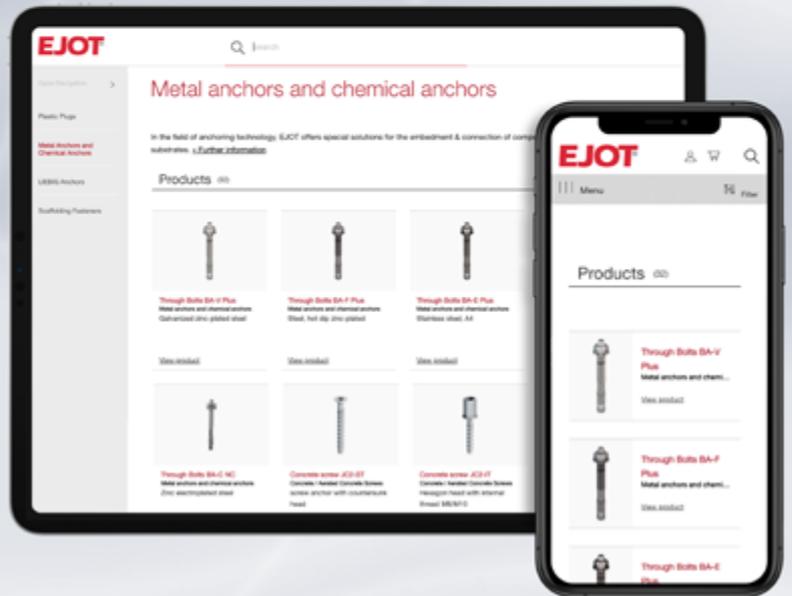
Profiles for External Thermal Insulation Composite systems (ETICS)

Profiles for high quality render finishes

www.ejot.com/etics-profiles



www.ejot.com/construction



The fastest way to the appropriate EJOT® product

Discover EJOT Worldwide

EJOT is an European market leader in fastening technology. In Europe, our numerous sales companies and offices guarantee direct customer contact and fast availability of our products. EJOT services and products are also available on the worldwide stage. We have production sites and sales offices in North America and Asia.

Find your contact person for all EJOT distribution and production companies and our partner and sales offices – worldwide. We look forward to hearing from you.



EJOT Worldwide:
www.ejot.com/construction

We are committed

EJOT® is a member of various trade associations and organisations



Fachverband Baustoffe und Bauteile für vorgehängte hinterlüftete Fassaden e. V.
www.fvhf.de



Deutscher Schraubenverband e. V.
www.schraubenverband.de



Verband Fenster + Fassade
www.window.de



Fachverband Werkzeugindustrie e. V.
www.werkzeug.org



ift Rosenheim, Institut für Fensterertechnik e. V.
www.ift-rosenheim.de



Institut Bauen und Umwelt e. V.
www.bau-umwelt.de



Industrierverband für Bausysteme im Metalleichtbau e. V.
www.ifbs.de



Global Fastener Alliance®
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Informationsstelle Edelstahl Rostfrei
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Verband für Dämmsysteme, Putz und Mörtel e. V.
www.vdpm.info



www.ppa-europe.eu



www.mcrma.co.uk



Österreichischer Fachverband für hinterlüftete Fassaden
www.oefhf.at



Mitglied im Bundesverband Solarwirtschaft e. V.
www.solarwirtschaft.de



Schweizerischer Fachverband für hinterlüftete Fassaden
www.sfhf.ch



Europäischer Fachverband für Wärmedämm-Verbundsysteme
www.ea-etics.eu



ARGE Qualitätsgruppe Wärmedämmsysteme
www.waermedaemmsysteme.at



Österreichische Arbeitsgemeinschaft Putz
www.oep.at



Stifterverband für die Deutsche Wissenschaft e. V.
www.stifterverband.org



Fastening solutions for the building industry

The EJOT Construction Division caters to selected segments of the building industry. This includes professional applications on building facades as well as installation solutions for technical facilities inside the building.

The aspiration to high product quality is not an end in itself for EJOT. The customer really benefits from our screws and anchors. Therefore reliable installation also means low failure costs for the customer. Moreover, durable quality joints provide the best protection against expensive customer complaints. This is why our strategic product lines are manufactured according to highest quality standards.

We convey expert knowledge about the use of our products to all our customers. And if required, we are on hand with advice and support for fastening systems.

Other services include advice over the telephone, application advice on-site, initial sizing, component tests in the EJOT Test Centre and a comprehensive training programme for system providers, architects, specifiers, distributors and installers with the EJOT TEC ACADEMY.

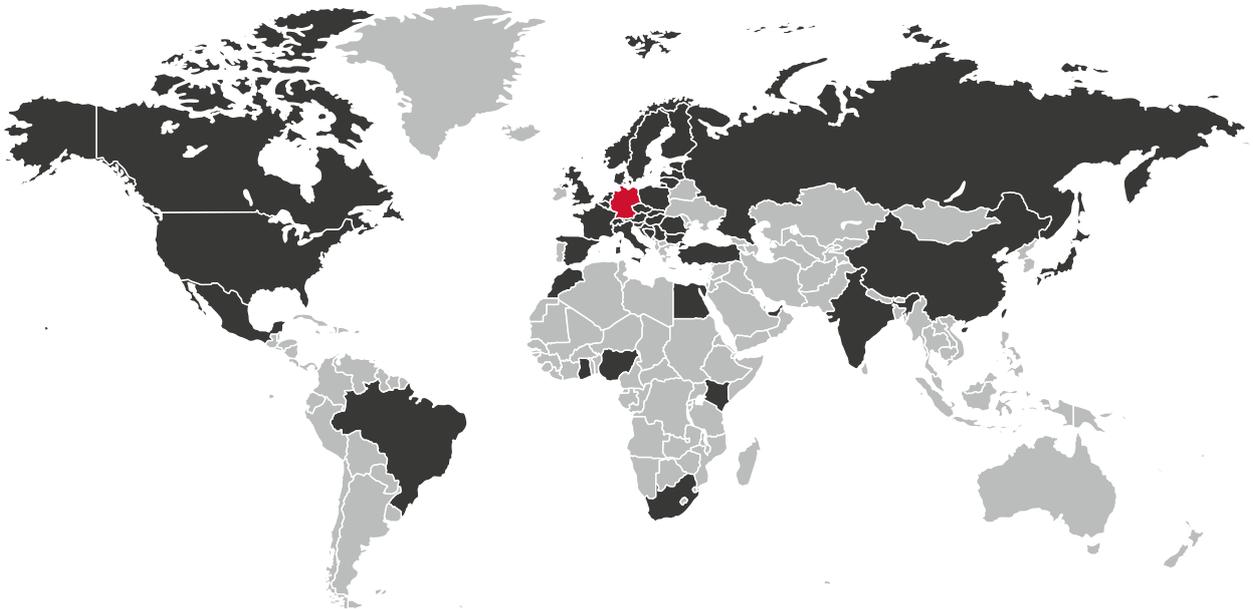
Innovative products are the key to success. We leave nothing to chance. We identify our customers' needs under real conditions on the job site. Communication from the market and about market requirements to the development departments is ensured by a regular exchange between our technical experts and specialists and users from the international building industry. This is how we develop innovative product solutions that offer a clear added value and inspire customers.



EJOT quality online:
www.ejot.com/quality

The International EJOT® Group

The origin is in Germany, the future in the world



38 companies throughout the entire world

With our headquarters in Germany and our own 38 international subsidiaries, we are successfully active on the market in many countries around the world.



40 million
Screws

In our manufacturing plants around the world, we produce up to 40 million items for construction and industry every day.



24,000
Products

Screws, anchors, through bolts or complex part groups – the EJOT portfolio is made up of around 24,000 products.



1,500
Patents

Our engineers are constantly developing new product solutions that are protected by 1,500 patents.



1922
founded

The history of EJOT dates back to the 20th century.



3,800
Employees

More than 3,800 employees work for our worldwide customers every day.

ENGINEERED IN
GERMANY

The majority of the EJOT portfolio is produced in Germany and developed by our own R&D department.



EJOT® TEC ACADEMY

Our know-how for your building projects

With the EJOT TEC ACADEMY, we regularly offer you training courses to inform you about current trends in the construction industry and our products and their applications.



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PODCAST




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EJOT® Construction Division



Our YouTube channel offers a large number of videos with product presentations, assembly instructions and tips from the world of fastening technology.




Watch now!

EJOT® TEC ACADEMY in detail

Expert seminars

We offer expert trainings in our seminar rooms for various topics. The expert seminars are aimed at architects, specifiers, distributors and technicians and are constructed in four different modules.

Benefits

- > Build up skills in fastening technology
- > Knowledge of conditions under the German building law
- > Safe product selection for the application case, based on guidelines in compliance with the approval
- > Safety in the practical handling

Online trainings

As an addition to the face-to-face events in our seminar rooms, we offer you a wide range of digital options to further your education flexibly from your home office or office and to expand your expertise.

Technical requirements

- > We use the tool Microsoft Teams for our free online trainings.
- > You can ask questions at any time during the training via a chat function.

Content

- > Basics of fastening technology industrial lightweight construction
- > Basics of mechanical fastening technology for flat roofs
- > CROSSFIX® – the rear-ventilated facade

Dates

The expert seminars are tailored to your individual requirements. Unfortunately, due to the ongoing Corona pandemic, no dates are currently planned.

Notes on registration

- > Current training dates are announced in our newsletter as well as on our TEC ACADEMY page on the Internet.
- > After you have registered, we will send you a confirmation email containing the login details for the respective online training.
- > If you have registered but are then unable to attend the online training due to scheduling reasons, a separate deregistration is not necessary.

Website guidebooks with Construction blog

Digital reading material - take advantage of the opportunity to flexibly further your education on the individual topics on our website at any time.

From now on, the new corrosion guidebook will regularly give you useful tips and information on the topic of corrosion.

You can also find out more about anchoring technology in our heavy-duty anchor guidebook.

These and other interesting topics on the processing and functioning of our products are compiled for you in our Construction blog.



To the Construction blog:
www.ejot.com/blog



EJOT SE & Co. KG

Market Unit Construction

In der Stockwiese 35

57334 Bad Laasphe · Germany

T +49 2752 908-0

F +49 2752 908-731

bau@ejot.com

www.ejot.com