

Are your flanges securely bolted?

CONBOLT



The economical way of securely tightening screws

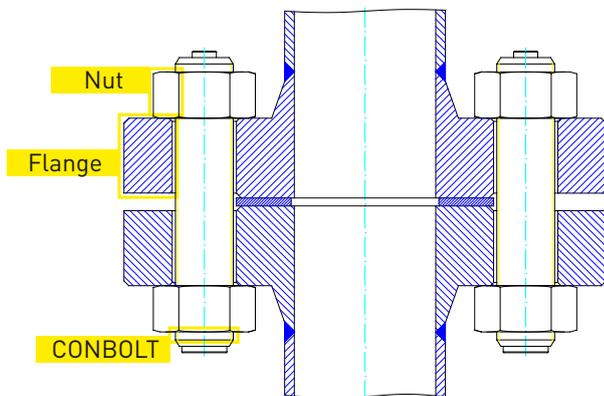
The **CONBOLT** screw, developed and patented by Jungeblodt, offers the optimal opportunity to tighten bolted connections in a uniformly controlled manner.

The **CONBOLT** makes it possible:

1. to inspect the assembly and
2. to clearly determine the end of a screw's service life due to overextension.

Using the **CONBOLT**, the life span of a bolted connection can be substantially increased. This allows a cost-optimised application interval to be achieved. Thanks to its robust design, the **CONBOLT** can also be used in extreme service conditions, enabling inspections of the bolted connection's current pretensioning force at any time with the simplest aids. Costly testing methods such as ultrasound or the complex retightening of each individual connection as a check can therefore be dispensed with.

By using the **CONBOLT**, expensive measuring systems with tightening instruments are no longer necessary. The **CONBOLT** can be provided with any kind of coating for corrosion protection (e.g. galvanization or zinc lamination such as Dacromet), according to customer preference.



Your advantages at a glance:

- Cost reduction due to easy handling
- Increases the service life of the screw and gasket
- Reduced inspection effort
- Increased plant safety
- Allows a uniform pretensioning
- Overextension of the screw is avoided
- Reduced assembly effort
- Cost minimisation as expensive testing methods are dispensed with



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The process

A bolted connection with a screw and one or two nuts provides optimal permanent elasticity in steel construction when the screw is tightened to 70–80% of the elastic limit.

The **CONBOLT** screw, developed and patented by Jungeblodt, is a screw which has been manufactured to a precisely calibrated length tolerance of ± 0.02 mm.

If the **CONBOLT** is tightened with the calculated pretensioning force, the result can be measured based on the **CONBOLT**'s length variation. To simplify the length measurement, the **CONBOLT** is equipped with two measurement stems. The calculated length variation can be determined during assembly and operation with standard measuring and testing equipment.



Comparison of different procedures for checking screws:

| Process | Applicability | Cost/performance | Robustness | Time period |
|-------------------|---------------|------------------|------------|-----------------|
| Visual inspection | none | high | | ½ to 1 annually |
| Residual torque | none | high | | ½ to 1 annually |
| Strain gauge | yes | very high | low | as desired |
| Ultrasound | yes | very high | medium | regularly |
| CONBOLT* | yes | very low | very high | as required |



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