

# High-Tensile Fasteners

RXF-HT

High-strength bolts, nuts and studs supplied to specified mechanical-property classes for demanding industrial applications.



**Product division:** Industrial Fasteners

**Datasheet type:** Product-family selection and compliance template

**Commercial status:** Final manufacturer, dimensions, performance and availability are confirmed in the quotation.

Standards, editions, conformity route and supporting documents are confirmed against the exact manufacturer, configuration, intended use and customer specification before order acceptance.

## Selection data and supply scope

|                           |                                                                          |
|---------------------------|--------------------------------------------------------------------------|
| <b>Product forms</b>      | Bolts, nuts, studs, screws and matched assemblies                        |
| <b>Required data</b>      | Standard, dimensions, class/grade, coating, quantity and service         |
| <b>Mechanical classes</b> | ISO 8.8 / 10.9 / 12.9 or ASTM grades as specified                        |
| <b>Heat treatment</b>     | Manufacturer-controlled process according to applicable grade            |
| <b>Coating</b>            | Selected to avoid hydrogen-embrittlement and service risks               |
| <b>Documentation</b>      | Mechanical test, material, heat-treatment and coating evidence as agreed |

## Capabilities and typical applications

| Key capabilities                                    | Typical applications  |
|-----------------------------------------------------|-----------------------|
| Metric and imperial high-strength systems           | Heavy machinery       |
| Controlled heat treatment and mechanical properties | Structural assemblies |
| Plain and coated finishes                           | Energy and process    |
| Lot traceability and test certificates available    | Critical maintenance  |

## Applicable standards and technical references

The references below are a review framework. Only the standards applicable to the exact product, material, size, configuration and intended use are stated as confirmed in the quotation and final manufacturer documentation.

| Area                  | Reference                             | Applicability / evidence                                            |
|-----------------------|---------------------------------------|---------------------------------------------------------------------|
| Quality management    | ISO 9001                              | Manufacturer certificate and scope verified for the selected source |
| Product geometry      | ISO / EN / DIN / BS product standards | Selected by fastener type, dimensions and customer specification    |
| Mechanical properties | ISO 898 / ISO 3506 / ASTM             | Applied according to carbon, alloy or stainless material class      |
| Threads / tolerances  | ISO 261 / ISO 965 / ASME B1 series    | Applied according to metric or imperial thread system               |
| Coatings              | ISO / EN ISO / ASTM coating standards | Selected according to finish and corrosion requirement              |
| Materials             | EN / ASTM / customer specification    | Exact grade, heat treatment and certification confirmed per order   |

## EU conformity and product status

|                            |                                                                                              |
|----------------------------|----------------------------------------------------------------------------------------------|
| EU conformity status       | Reviewed according to intended use and any applicable construction or machinery requirements |
| CE marking                 | Not automatically applicable to general industrial fasteners; confirmed product by product   |
| Declaration of Performance | Available only where required for an applicable construction-product route                   |
| Documentation              | Material, mechanical-property, coating and inspection evidence supplied as agreed            |

### COMPLIANCE CONTROL

Standards, editions, conformity route and supporting documents are confirmed against the exact manufacturer, configuration, intended use and customer specification before order acceptance.

## Documentation available where applicable and agreed

|                           |                                                                                          |
|---------------------------|------------------------------------------------------------------------------------------|
| Manufacturer datasheet    | Final source data for the selected model and configuration                               |
| Certificate of Conformity | Product and order reference confirmation according to the agreed source                  |
| Material Test Certificate | EN 10204 type 2.2, 3.1 or 3.2 where requested and available                              |
| Inspection / test records | Dimensional, pressure, hydro, performance, balancing or functional reports as applicable |
| Process certificates      | Heat treatment, coating, surface finish or other manufacturing records where required    |
| Traceability              | Batch, heat, lot or serial records according to product and supply route                 |

## Information to include with the enquiry

|   |                                                                                                           |
|---|-----------------------------------------------------------------------------------------------------------|
| 1 | Product, manufacturer, model, part number, drawing or sample reference                                    |
| 2 | Quantity, required delivery date, intended application and operating conditions                           |
| 3 | Materials, dimensions, critical performance requirements and customer specifications                      |
| 4 | Mandatory standards plus required EU declarations, certificates, inspection records and document language |