

# Precision Shafts & Sleeves

RXC-SS

Precision shafts and sleeves manufactured for alignment, rotation, wear resistance and controlled fits.



**Product division:** Precision Components

**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>Component types</b> | Shafts, sleeves, spindles, journals and wear sleeves               |
| <b>Required data</b>   | Drawing, material, fits, runout, straightness, finish and quantity |
| <b>Materials</b>       | Carbon/alloy steel, stainless, duplex and specified materials      |
| <b>Treatment</b>       | Hardening, nitriding, coating or specified process                 |
| <b>Inspection</b>      | Diameter, runout, concentricity, straightness and surface finish   |
| <b>Documentation</b>   | Material, treatment and dimensional inspection records as agreed   |

## Capabilities and typical applications

| Key capabilities                                     | Typical applications   |
|------------------------------------------------------|------------------------|
| Turned, ground and finish-machined routes            | Rotating machinery     |
| Keyways, splines, threads and shoulders              | Pumps and gearboxes    |
| Hardness, runout and surface requirements controlled | Automation             |
| Prototype and repeat-batch supply                    | Replacement components |

## 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 |
| Drawing interpretation  | ISO GPS / ASME Y14 series                     | Applied according to customer drawing convention                    |
| General tolerances      | ISO 2768 or drawing-specific tolerance scheme | Applied only where stated on the approved drawing                   |
| Geometrical tolerancing | ISO 1101 / ASME Y14.5                         | Applied according to the drawing and inspection plan                |
| Surface texture         | ISO 21920 / drawing requirement               | Applied according to stated finish and measurement method           |
| Materials / treatment   | EN / ASTM / AMS / customer specifications     | Exact material, heat treatment and coating confirmed per order      |
| Inspection              | ISO / customer inspection plan                | CMM, VMM, micrometer, gauge or other method agreed per order        |

## EU conformity and product status

|                                |                                                                                                      |
|--------------------------------|------------------------------------------------------------------------------------------------------|
| <b>EU conformity status</b>    | Determined by the function of the finished component and the equipment into which it is incorporated |
| <b>CE marking</b>              | Not automatically applicable to an individual machined component                                     |
| <b>Customer technical file</b> | Drawing revision, material, inspection and traceability records supplied as agreed                   |
| <b>Documentation</b>           | Certificate of conformity and manufacturing records available according to order requirements        |

### 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

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