

Reverse-Engineered Parts

RXC-RE

Hard-to-source and obsolete parts recreated from samples, measurements, application data and agreed engineering assumptions.



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

Input	Physical sample, photographs, equipment data and functional requirements
Engineering output	Controlled drawing/model with assumptions and critical characteristics
Material	Verified, tested or selected by engineering review
Validation	Prototype, fit check, dimensional or functional validation as agreed
Change control	Drawing approval required before manufacture
Documentation	Drawing, inspection report, material and process records as agreed

Capabilities and typical applications

Key capabilities	Typical applications
Dimensional capture and functional review	Obsolete machinery
Material identification or engineering selection	Breakdown recovery
Improvement opportunities highlighted before manufacture	Legacy equipment
Prototype validation before repeat supply where appropriate	Import replacement

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

EU conformity status	Determined by the function of the finished component and the equipment into which it is incorporated
CE marking	Not automatically applicable to an individual machined component
Customer technical file	Drawing revision, material, inspection and traceability records supplied as agreed
Documentation	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

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