

New KBR Catalog Cylinders & Servocylinders troubleshooting & spare parts

It's a pleasure to announce you the new **KBR paper catalog**, soon available for customers & partners. **KBR** includes technical tables for cylinders troubleshooting, maintenance instructions & tools and spare parts to easily proceed with a complete cylinder's mechanical analysis and overhaul. Spare parts technical tables are now also available on Atos catalog on-line but their codes have been changed with root **SP** in place of previous **KTR** one (example for CK new code **SP-B137**, old code **KTR-B137**).



KBR Catalog

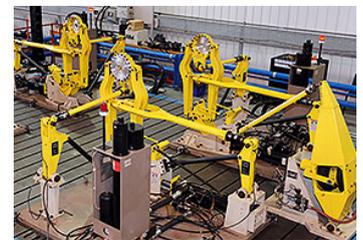
New B015 sizing criteria for cylinders

Long lasting R&D researches have permitted to completely renew the tech. table **B015** with new precious sections which allow the user to perform a complete cylinder analysis for each application. The table is enriched with a new sealing section for the calculation of both static and dynamic **sealing friction** according to the sealing system/size and the verification of min in/out rod speed ratio to avoid leakages. In addition you will find also the prediction of the expected fatigue life for nickel and chrome plating rod (option **K**) and the chart to check the cushioning performances of CC cylinders.

News from marketing

A correct and detailed understanding of the customer application requirements is the basic step to identify the cylinders & servocylinders choice, within the Atos comprehensive range, to best perform extended lifecycle, excellent reliability and costs reduction.

Atos catalog on-line and [SWC](#) Cylinder's designer are the perfect tools to easy find the best technical/economical solution. For most critical customers/applications we recommend to contact the Atos technical department to receive the best possible support.



Automotive testing benches

New succesful applications of Atos standard and special cylinders High frequency testing benches for Automotive sector

The increasing of the quality standards and reliability in the Automotive industry goes through the prediction of the lifecycle of the most stressed components. Modern testing benches are engineered for high operating frequencies and they necessarily require fatigue-free components. Atos **CKN** servocylinders with built-in magnetostrictive transducers are the best solution for high performances control motions thank's to the accurate feedback (linearity <0,01% F.S.) and the self lubricated properties of PTFE seals (mineral fiber filled) that allow to achieve high operating frequencies (up to 22 Hz /± 1.5 mm stroke).

MoorMaster system

MoorMaster, the new vacuum-based automated mooring technology, consist of remote controlled vacuum pads which approach the vessels during the mooring operations improving safety and operational efficiency. The pads motion is granted by Atos cylinders in special execution to enhance the corrosion resistance in such a harsh environment:

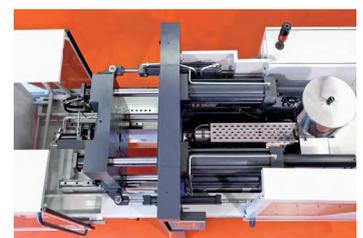
- Nickel and chromeplated rod with enhanced corrosion resistance (up to 1000h in NSS)
- Trunnion with double layer of Geomet treatment (over than 1000h in NSS)
- Painting with corrosion class C5-M to ISO-12944 for high salinity marine environment
- Spherical bearing made of polymeric resin specific for high loads

Mould closing in plastic injection presses

High-efficiency plastic injection presses may reach operating frequency up to 12 cycles per minute. Such performances can be achieved only through a strong reduction of the inertial weights obtained by using the rod of the cylinders as columns for the mold guide. The high clamping force of the 4 mould cylinders allow to avoid the use of the toggle thus getting a further machine simplification. Atos **CC** cylinders with strong C380 guide rings coupled to low friction G4 sealing system support at best the high radial loads during the mould translation and also ensure a perfect dynamic sealing with operating pressures up to **270 bar**.



MoorMaster system



Plastic injection presses