

New CKP with IC GEFTRAN transducer

Atos potentiometric servocylinder will be equipped with new IC GEFTRAN transducer. The new transducer allows an electric life 4 times higher than the previous one, ensures top performance in terms of linearity (0.1% of F.S.) and repeatability (0.01 mm). The IC transducers are also characterized by a total resistance at the bottom of the stroke always equal to 10 kΩ, this simplifies the setting process in case of maintenance or replacement of the cylinder.

Documents: see tab. B310
Availability: from January '12

New DVC & KB catalog

DVC-12

With its new features it is the best tool that engineers and designers may desire, in order to allow an easy cylinders selection and design. New DVC12 contains updated cylinders sizes and options availability plus following new valuable features:

- ▶ Generation of the cylinder and servocylinder drafting in order to have a complete Atos drawing with the overall dimensions and main technical data
- ▶ Calculation of the cylinder weight according to the size and selected options

Availability: from January '12

KB catalog 2012

We inform you that the new KB catalog 2012 will be soon available with the following new contents:

- ▶ New bore 40 for the CN series with dimensions according to ISO 6020-1
- ▶ Oversized oil ports (options D and Y) now available for all CN sizes

Language: English, Italian
Availability: from December '12

New KTR

The KTR tables for the spare parts components have been completely renewed with a new look and now give to the customers all the necessary information to order the main replacement parts for cylinders and servocylinders.

KTR tables together with technical tables and **TB-010** "Tools for maintenance" now constitute a comprehensive manual that allows you to properly and safely handle the maintenance operations.

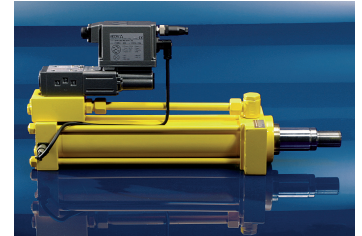
We remind you that the large stock of spare parts available allows quick supplies.

New successful applications of Atos servocylinders

Servocylinders for Big Dog

The Big Dog is an innovative legged vehicle concept designed to travel in rough -terrain by exploiting mobility superior to existing wheeled and tracked vehicles.

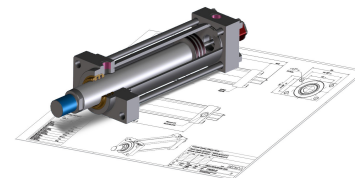
Asophisticated drive system provides power, actuation, sensing, controls and communications. It is equipped with an advanced electrohydraulic control system that operates the legs joints through CKF servocylinders which allow to perform, in addition to Atos well known reliability, the low response times and high precision required to operate in all ground conditions.



CKP with IC GEFTRAN transducer



KB & DVC



New preview for DVC



Big Dog

Cylinders for packaging system

Efficiency improvement is the primary mission of today's plants and machines designers, in particular for food packaging systems featuring 24/7 cycle operation.

Usually the cutting of the packages is performed by hydraulic cylinders with built-in transducer. The Atos solution consists of two very compact cylinders entirely made of aluminum with hard oxidation treatment to meet the compelling requirements of weight and corrosion resistance according to high hygiene standards.

Innovative low-friction PTFE seals mineral fiber filled, developed by Trelleborg in cooperation with Atos, allow to obtain excellent dynamics.

Cylinders for jet boats steering system

The turn of jet boats is performed by two CNX hydraulic cylinders with integrated transducer, 12V powered, featured by very compact construction and able to withstand the high forces that may occur during the navigation.

These cylinders are made of selected stainless steel and bronze to guarantee a resistance of at least 1000h in neutral salt spray and to ensure a long operating life.

Cylinders for stabilizer fins

The stabilizer fins allow to reduce the pitching and the rolling of the boat, thus improving the comfort on board. The stabilizing system must be safe and reliable, so the main shipbuilders rely on Atos for the design and construction of high performances hydraulic cylinders.

CC cylinders with rugged customized solutions, marine painting class C5-M to EN 12944 and GEOMET treatment for the "in tolerance" surfaces of exposed components meet the demanding requirements of these applications.

Servocylinders for Energy system

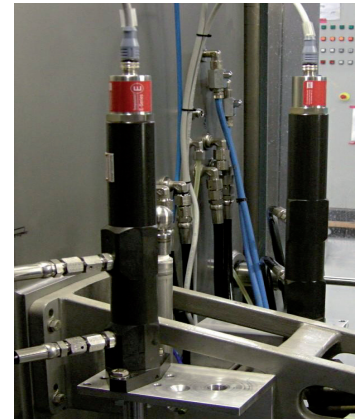
The Atos extensive experience in the Energy industry has involved the design and supply of drive & controls solutions consistent with the demanding requests of the market and performing smooth, accurate and flexible control of the steam flow rate regulation of steam turbines:

- ▶ Cylinders with intrinsic safety system ensured by built-in stackable disk springs, see also synthetical article [AS-91](#)
- ▶ CKN double rod cylinders with magnetostrictive transducer integrated inside the cylinder and electronic conditioning card for top performances

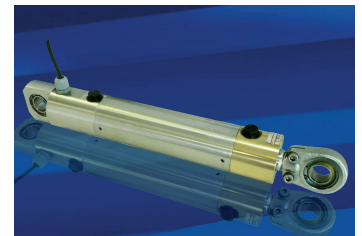
New cleanliness project

The component cleanliness level is more and more the foremost parameter on which automotive and energy sectors are focusing their attention to improve the reliability of plants and machineries.

This is the reason why also Atos cylinder division, while satisfying the cleanliness requirement of ISO 10100, has now started a new project to improve the standard cleanliness level of its production in order to satisfy the automotive demanding standards.



Cylinders for packaging



Stainless steel cylinder for jet boats



Megayacht



Spare parts warehousing