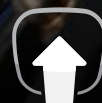


GB

SUCCESS CAN'T BE IMPROVISED



DINATALE

BERTELLI SPA



COMPANY

01

Di Natale-Bertelli has been manufacturing telescopic hydraulic cylinders for tipper and lifting in agricultural and industrial sectors since 1960 and, with an annual production of over 65.000 telescopic cylinders and a production area of 10.000 m², it places itself as a strategic and reliable supplier for the markets all over the world. Di Natale-Bertelli has a 2500 sqm. warehouse with more than 6.000 articles available.

With our “Just in time” service we guarantee delivery in 24 hours in Italy and in 48 hours in all European Countries.



QUALITY AND RELIABILITY

02



All the tools-machineries are with CNC/control and with new implementation of them we are able to guarantee a top level quality and good service in the delivery time.

One of the first European companies to have received from “Det Norske Veritas DNV” the quality certification in management system UNI EN ISO 9001-1997.





114,2 x 12,5



PRODUCT FEATURES

03

The exclusive use of mechanical tube without welding MW450 and E470HL at high mechanical strength supplied by two European producers, Tenaris-Dalmine® and Mannesmann®, allows us to get the sliding guide directly on the extension itself. This feature is still unsurpassed in the market and the quality of our product differs from that of all other manufacturers that use plastic guide for the same purpose. This process offers an additional guarantee of reliability and safety of our products, allowing the maximum extension of the cylinder right to the end of the stroke and ensuring the mechanical stop in case of breakage of the end valve stroke, when it's used.



OUR TRACEABILITY

04



The traceability of our products is done with a label printed and welded on the external body of the cylinder, where there are the most important data like working max. pressure, total weight tip-up and amount of oil Lt.

Thanks to a thin plastic protective film the customer can paint the cylinder and the label and the protection can be removed without damaging the label.

45 YEARS AT THE TOP OF QUALITY

05



One of the most important targets of Di Natale- Bertelli is to meet customers' requirements. This makes our company an ideal partner for anyone needing quality, reliability, technical advice and respect of delivery times.

One of the first European companies to have received from "Det Norske Veritas DNV" the quality certification in management system UNI EN ISO 9001-1997.

Di Natale- Bertelli obtained:

- 2001 - UNI EN ISO 9001-2000
- 2010 - UNI EN ISO 9001-2008

The UNI EN ISO 9001-2008 certification guarantees continuous improvement of the quality standards and the production process, always subject to regular inspections, with particular attention to the final cylinder's testing carried out on 100% of each cylinder with minimum pressure from 200 bar to 250 bar.

The optimization of the company's internal processes and procedures is finalized to offer each customer the most complete quality service. Continuous investments in new technologies enable Di Natale-Bertelli to be always updated and to be competitive in the markets all over the world.



06



TENIFER® is a salt bath nitriding which produces a thick and homogeneous compounds layer whose structure consists of chemical compounds which are created by a reaction among iron, nitrogen and carbon.

Why using it:

The intermetallic compounds produce an excellent anti-friction layer which enables the sliding of the stages steel against steel.

Thickness of compound layer is 0.25 : 0,3 mm. with a minimum hardness of 500 HV, against 180 HV of the standard steel. It is particularly resistant to dirt, rock dust, stones, etc.

The TENIFER® treatment is well known for its running properties and for its resistance to wear and stress. It's mainly used in the automobile industry where the nitro carburized components undergo more than 900.000 running cycles.

It's demonstrated that the compound layer is chemically resistant. Therefore, it improves the resistance to oxidation and corrosion if compared with steel which has not been treated.



SEALS AND
TESTING

07



The specially shaped seals and scrapers are project by Di Natale - Bertelli:

Material: polyurethane: (Du Pont)

Maximum pressure 400 Kg/cm² (395 Bar) Temperature from -40 to +110 C.

Maximum piston speed 0.5 m/s 10 to 46 cSt at 50°C. For only one viscosity we suggest a mineral hydraulic oil high index ISO32, Mobil-Shell-Valvoline-Bechem.

- ISO 22 for cold climate temperatures
- ISO 32 for average climate temperatures
- ISO 46 for hot climate temperatures

All cylinders are subjected to final operational testing at hydraulic pressures of 240 Kg/cm² (235 bar).

Cylinders from diameter 240 are tested at 205 Kg/cm² (200 bar).

This guarantees a total control in the quality of the product.

ACCESSORIES AND SAFETY

08

Our product range includes all the components to complete the tipping kit, as cradles, closed and open supports with bolts and nuts and a big choice of oil inlet pins with stop valves, which stop the cylinder in any position in case of breakage of the oil hydraulic tube from the pump.

The oil inlet pins are available also with inclination of 90°. Di Natale-Bertelli's cylinders work at 200 bar pressure. This pressure allows to use lighter cylinders to lift heavy loads in a faster way.



RESERVED AREA

09

Through the reserved area on the company website it is possible to make a complete study for the best application in tipper machine. It is possible to suggest or test the correct cylinder suitable for the application requested by the customer.

Regulations:

All the products are projected by international regulations CNR-UNI 10011 considering a safety factor $K_s = 1,5$.







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