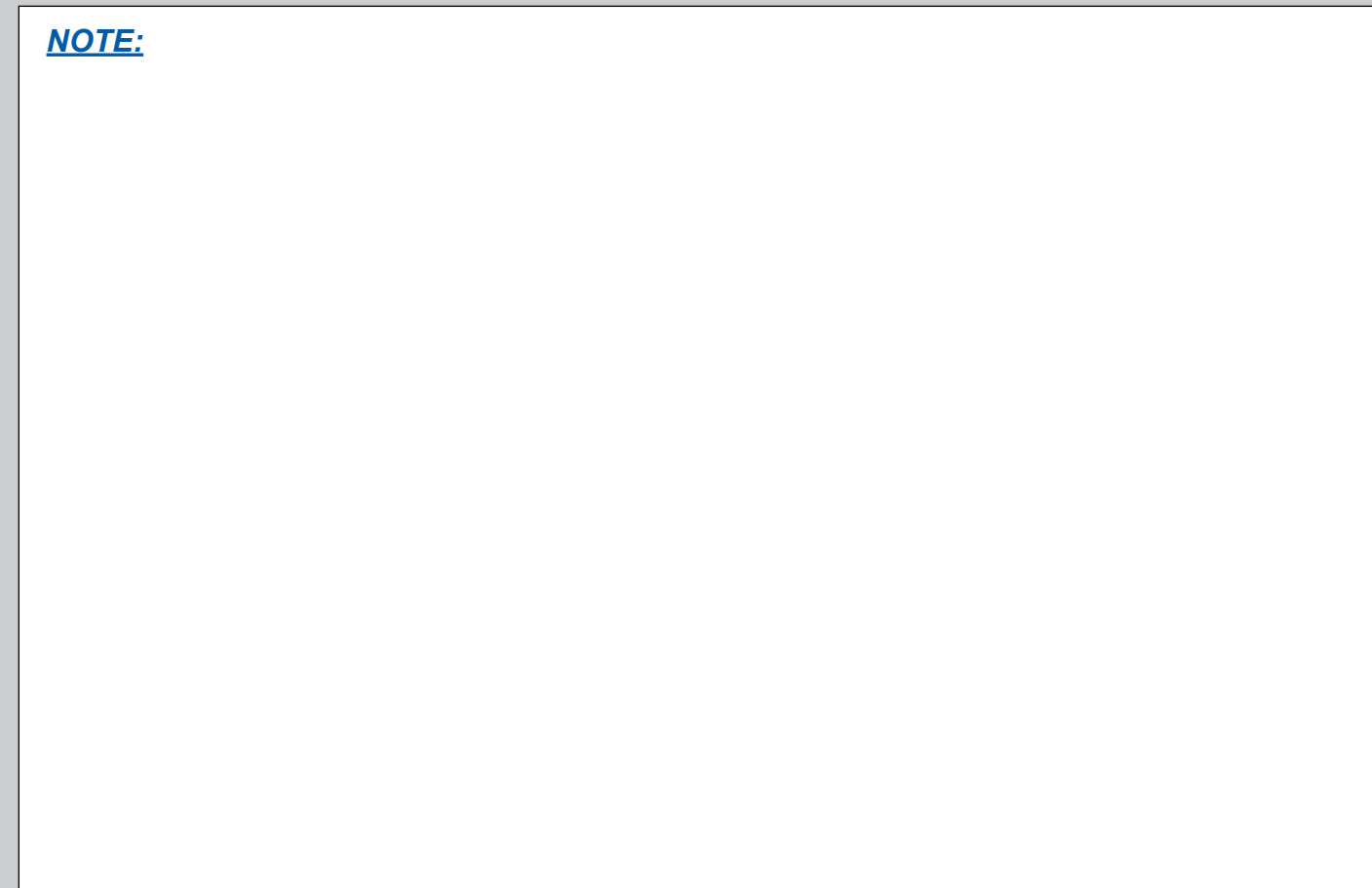




NOTE:



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**NEW HYDRAULIC
BOLLARD
“GRIZZLY”**

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SHORT:

Demonstrating the continuous research to improve our products and service, today O&O has expanded its range of automatic bollards to include hydraulic technology. Following in-depth studies conducted in collaboration with renowned research centres and various product tests, O&O presents the first models with the following features.

STRENGTHS:

PRE-INSTALLATION

The bollard casing is fully independent from the motor, allowing the installer to prepare the ground for future installation. Fig.1

SIMPLIFIED INSTALLATION

With many technical features adopted during the engineering phase, "GRIZZLY" requires less digging for installation and can also be pre-installed.

NEW DESIGN

Designed and produced to make the bollard blend in perfectly to any city or private environment, with the new square shaped flange and the new attractive design

SAFE

A special safety valve, fitted as standard on all models, stops the bollard and reverses the direction if an obstacle is detected.

MAINTENANCE

Extremely easy to maintain, with no need for hoists or manpower to lift the motor. Remove the flange, disconnect the connectors from the pump, slide off the casing "CDF" and carry out maintenance.

PERFORMANCE

Intensive use, tested for over 3,000 manoeuvres a day, built in active safety devices (direction reversal, movement buzzer, axial and radial high-intensity leds), handling speed, size, all work to assure the high performance of the "GRIZZLY" bollards.

NEW ANTI-DEBRIS SYSTEM

The top of the cylinder (light crown) and the anti-detritus seal built into the flange were designed in order to prevent the entry of detritus inside the casing when the cylinder is up by almost 80% ↓

INTEGRATED DEVICE "TERMON"

The new control boards "CDS" are provided standard with heating systems "TERMON" capable to ensure the proper functioning of the machine down to -30 ° C

"All metal frame parts are treated in order to ensure high resistance to corrosion"

"Conical shaped cylinder housing which, along with the flange seal, are able to drastically reduce the entry of detritus up to 80 % when the cylinder is up ↓"

"Cylinder diameter Ø 275 mm with thickness 6 + 10 mm. 600 and 800 mm height"

"Raised multi-pole cable output channel for easy wiring during installation and easy bollard maintenance"

"Hydraulic pump housing"

"Bollard casing "CDF" with central hole and new side slits for optimised drainage"

"Reinforced steel installation casing, with a hole for lifting hook, suited for assembly of GRIZZLY bollard casings. For use in pre-installation of bollards."

"Hydraulic pump housing on the upper side of the flange for easy maintenance. By removing the flange it is possible to extract the pump by releasing a simple connector, to carry out maintenance quickly and easily."

"New completely independent bollard casing, with the possibility for pre-installation during digging and subsequent installation of the bollard Fig.1"



"New conical light cap housing axial (4 beams) and radial (8 beams) resinated IP67 LED circuits and built-in acoustic buzzer. Also available without LED-lights and buzzer"



"The new square shaped flange and attractive new design allow the bollard to blend in perfectly with any city or private environment"

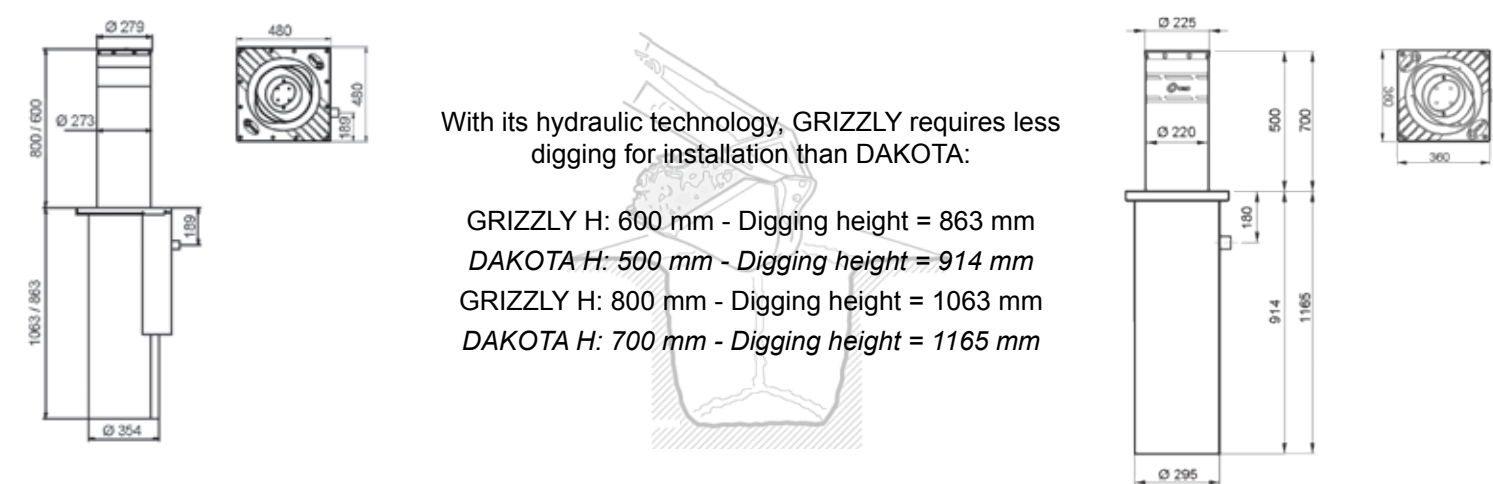


"GRIZZLY pre-installation drawing"

SOME TECHNICAL DETAILS:

- 230 Vac 50 Hz supply voltage
- Opening time 5 seconds H:600 mm and 6 seconds H:800 mm
- Safety valve that reverses the direction if an obstacle is detected
- Bollard available also in the special safety version, "SCT" which in the event of a blackout keeps the cylinder up ↑
- IP 67 protection level
- Working temperature from -15 °C to +60 °C → -30 °C + 60 °C with "TERMON" integrated heating circuit
- Cylinder in RAL 7022 painted iron or stainless steel with cylinder thickness 6 + 10 mm Ø 273 mm
- External control unit mod. CDS able to manage up to 4 bollards
- Automatic hand-manoeuvre in the event of a blackout except the "SCT" version
- For intensive use - 3,000 manoeuvres a day

SIZE:



With its hydraulic technology, GRIZZLY requires less digging for installation than DAKOTA:

- GRIZZLY H: 600 mm - Digging height = 863 mm
- DAKOTA H: 500 mm - Digging height = 914 mm
- GRIZZLY H: 800 mm - Digging height = 1063 mm
- DAKOTA H: 700 mm - Digging height = 1165 mm

ACCESSORIES:

- Panel for the accommodation of led traffic lights with 2 or 3 lights. Does not include traffic lights, sold separately
- Approved traffic light with 2 or 3 led lights
- Acoustic sirens detector to automatically close the bollard down in case of siren detection
- Manhole cover to use in case of pre-installation
- Modular road cabinet with aluminum panel for accessories housing. The lower module is able to house up to 2 control units (4 bollards each)
- Magnetic loops
- Safety battery
- Emergency button
- 2 channels magnetic loop detector
- Alarm kit for DAKOTA

NEW "CDS" CONTROL BOARD:

New control board suitable for all bollards series (except approved bollards version "DK/L").

- 2-digit digital programming display
- Menu programming buttons
- Integrated 2048-code 2-channel radio with programming buttons
- Input status warning LED
- TRIAIC to protect the relays, guaranteed for one million manoeuvres
- "EMC" filter
- Intuitive screen-printed graphics to help installers during cabling
- Double safety relay. Red traffic light in the event of a malfunction
- Built in connector for "DOMINO" programmer
- Electrical heating circuit "TERMON"
- Automatic notification of programmed servicing
- Conforms to the European EMC Directives concerning electromagnetic compatibility