



designed for security

# Bollard system urbanstar hydraulic

Access control and area protection



# urbanstar controls your access routes.

Traffic management in pedestrian zones, access control to safety areas, or restricting entry to parking lots and private roads: With the new **urbanstar** bollard generation, we provide a durable, secure, and effective solution.

High quality, timeless design, smart functionality, and proven safety – this is urbanstar.





# Design & Quality

Outstanding quality is our top priority. Sustainable products are only possible when technology, safety, user-friendliness, and cost efficiency are all fully addressed. With their compact, space-saving, and visually appealing design, our fixed and retractable bollard systems integrate seamlessly into urban environments. The **urbanstar series** includes fixed, removable, and both manually and automatically retractable bollards, all featuring a consistent design that allows for easy combination into a cohesive solution.



## Reliable hydraulic drive

Our automatically retractable bollards are equipped with a fully integrated hydraulic drive, powered by bio-oil for optimal efficiency and reliability. Capable of handling up to 3,000 movement cycles per day, the system delivers exceptional performance even under demanding conditions. All hydraulic connections are made of stainless steel, and the single-acting hydraulic lifting cylinder is coated with a specialized anti-corrosion treatment to ensure long-lasting durability.

## Model variety

Urbanstar bollards are available in a range of diameters, heights, and materials to meet various needs. The standard version is made of polished stainless steel, with the option to customize them in any RAL color. For larger orders, our design team can create tailored solutions, including laser-engraved cylinders, personalized bollard heads, special coatings, integrated lighting, and more. We'd be happy to discuss the possibilities with you.

## Areas of application

### ■ Access control

Controlled access to company premises, stadiums, banks, post offices, industrial facilities, and private properties

### ■ Congestion and Traffic Management

Temporary opening or closure of roadways, including thoroughfares, town centers, and connecting routes

### ■ Traffic Management

Targeted access for public transport, emergency services, and cyclists

### ■ Closure and regulation

Traffic calming for pedestrian zones, market squares, historic areas, shopping streets, and the closure of bus and taxi lanes

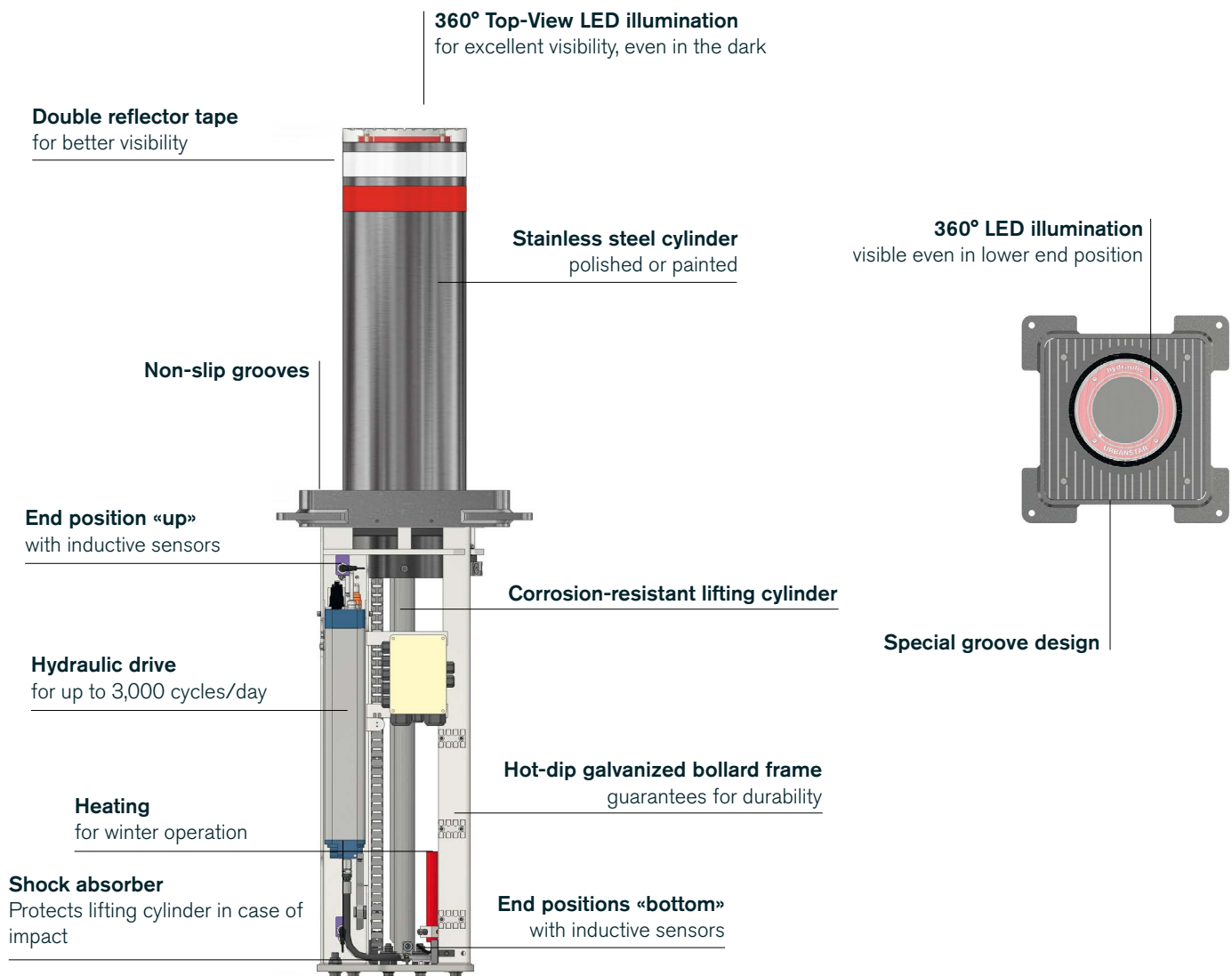
### ■ Parking management

Blocking off parking spaces for individuals with disabilities, doctors, hospital staff, visitors, teachers, management, and suppliers

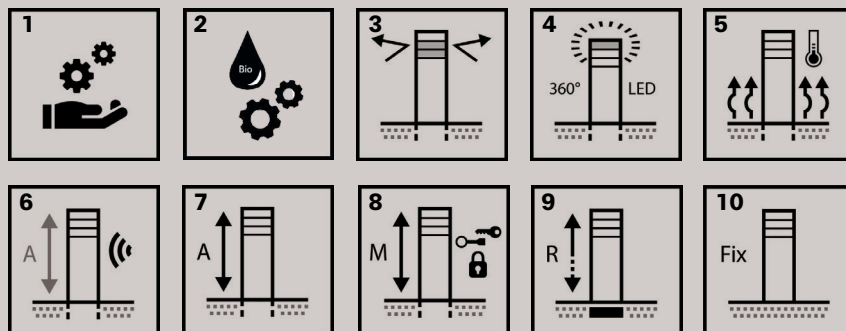
### ■ High security barriers

Ramming/anti-terror protection for jewelry shops, shopping centers, embassies, military bases, and other sensitive buildings

# Functionality rethought.



## Product benefits and value-added options



- 1 Drive with spindle and with few mechanical components
- 2 Efficient hydraulic drive with bio-oil (lifespan: 3 million cycles)
- 3 High-quality double reflective adhesive strips for better visibility
- 4 360° top-view LED bollard head lighting as a pre-warning, even in the lowered position
- 5 Efficient, thermostatically controlled heating in the bollard frame
- 6 urbanstar.connect for central control and data collection
- 7 Automatically retractable with an 800 mm lift height for optimal visibility
- 8 Manually retractable bollard in urbanstar design with double locking
- 9 Removable bollard in the identical urbanstar design
- 10 Fixed bollards in the identical urbanstar design



# Durable

The true performance of bollard systems becomes evident only with long-term use. That's why, with Urbanstar, we rely on durable, high-quality materials – from the cylinder to the substructure. Stainless steel and hot-dip galvanized steel ensure a long service life while maintaining their appearance. Driven by our commitment, we offer a 5-year warranty.

# Adjustment to road incline

The bollard installations (shafts) can be adjusted to the road incline – an important advantage during construction and operation: unobstructed street cleaning/snow removal and no risk for pedestrians or cyclists.

# Bollard heating

For optimal operational reliability, we recommend installing a bollard heater – with intelligent heating control and a temperature sensor.



# Safety features

Safety and pedestrian protection are our top priorities. That's why our systems are equipped with the following safety features:

- **Acoustic warning (can be disabled)**  
Activated before and during the lifting process, until the upper or lower end position is reached.
- **Active Lowering in case of malfunction**  
Depending on the configuration, automatic lowering is possible. This allows for lowering the bollard without power or additional tools in the event of a malfunction or emergency.
- **Force Limitation During Lifting**  
The control system monitors if an obstacle is present on the bollard during the lifting process.
- **Inductive Loops**  
Two safety loops per system or passage cover the area of the automatic bollards.
- **Impact Sensors in the Bollard Head**  
Optional.
- **Additional Safety Devices**  
Additional safety features, such as radar sensors or laser scanners, are available.



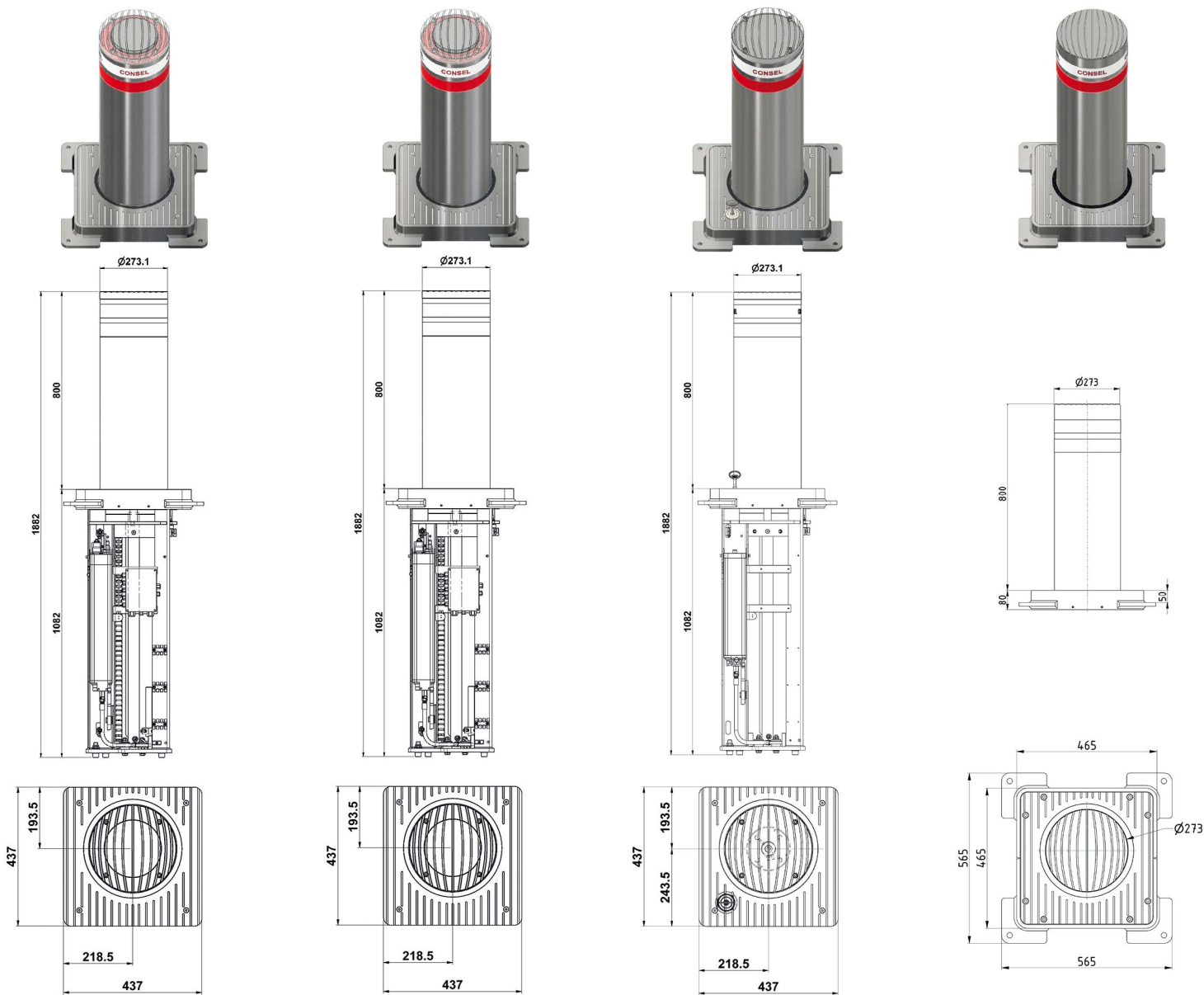
# urbanstar – the model range.

Automatically retractable

Automatically retractable  
with reinforced cylinder

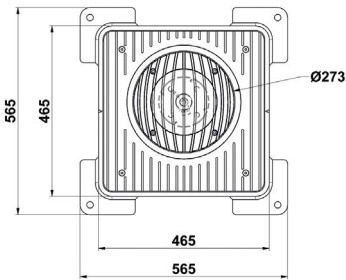
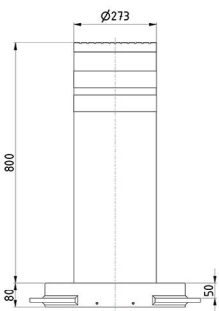
Semi-automatic retractable

Fixed with installation frame

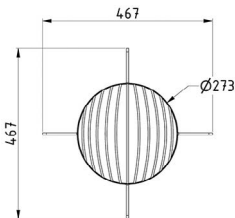
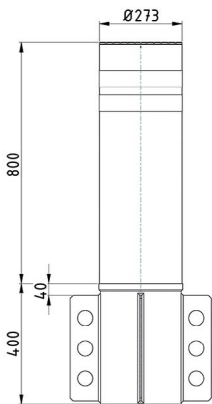


Techn. specifications	Automatically retractable	Automatically retractable with reinforced cylinder	Semi-automatic retractable	Fixed with installation frame
Height above ground	800 / 600 mm	800 mm	800 / 600 mm	800 / 600 mm
Specifications Cylinder: Polished stainless steel  Cylinder: Hot-dip galvanized steel, painted (anthracite)	ART-275-HY-H800-SSB ART-275-HY-H600-SSB  ART-275-HY-H800-NSP	ART-275-HY-H800/10-SSB  ART-275-HY-H800/10-NSP	SRT-275-MOHY-H800-SSB SRT-275-MOHY-H600-SSB  SRT-275-MOHY-H800-NSP	FIX-275-CF-H800-SSB FIX-275-CF-H600-SSB  FIX-275-CF-H800-NSP FIX-275-CF-H600-NSP
Drive	Hydraulic drive	Hydraulic drive	Manual hydraulic pump	-
Resistance strength Impact resistance Breakout resistance	40'000 J 250'000 J	40'000 J 400'000 J	40'000 J 250'000 J	40'000 J 250'000 J
Options	- Sensors for pedestrian protection - LED light head «Top-View» - Heating - Automatic lowering in case of powerR failure/malfunction - RAL colors - Adjustment to road incline - Impact sensors	- Sensors for pedestrian protection - LED light head «Top-View» - Heating - Automatic lowering in case of powerR failure/malfunction - RAL colors - Adjustment to road incline - Impact sensors	- Heating - RAL colors - Adjustment to road incline - Battery-operated with hydraulic drive - Impact sensors	- RAL colors - Adjustment to road incline

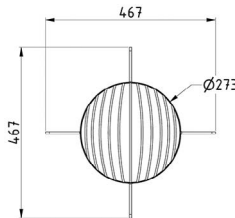
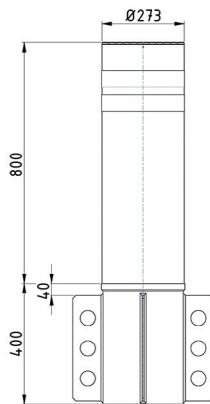
**Fixed with installation frame**  
and LED light head



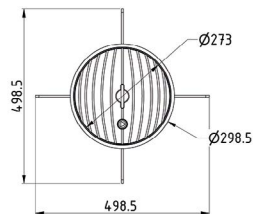
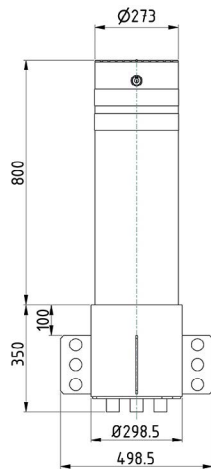
**Fixed without installation frame**



**Fixed without installation frame**  
with reinforced cylinder



**Removable with ground sleeve**



	Fixed with installation frame and LED light head	Fixed without installation frame	Fixed without installation frame with reinforced cylinder	Removable with ground sleeve
	800 / 600 mm	800 / 600 / 400 mm	800 / 600 / 400 mm	800 / 600 / 400 mm
	FIX-275-CF-H800-SSB-LED FIX-275-CF-H600-SSB-LED  FIX-275-CF-H800-NSP-LED FIX-275-CF-H600-NSP-LED	FIX-275-GA-H800-SSB FIX-275-GA-H600-SSB FIX-275-GA-H400-SSB FIX-275-GA-H800-NSP FIX-275-GA-H600-NSP FIX-275-GA-H400-NSP	FIX-275-GA-H800-10-SSB FIX-275-GA-H600-10-SSB FIX-275-GA-H400-10-SSB FIX-275-GA-H800-10-NSP FIX-275-GA-H600-10-NSP FIX-275-GA-H400-10-NSP	REM-275-GA-H800-10-SSB REM-275-GA-H600-10-SSB REM-275-GA-H400-10-SSB REM-275-GA-H800-10-NSP REM-275-GA-H600-10-NSP REM-275-GA-H400-10-NSP
	-	-	-	manual
	250'000 J	250'000 J	400'000 J	40'000 J 200'000 J
	- LED light head «Top-View» - RAL colors - Adjustment to road incline	- RAL colors - LED light head «Top-View»	- RAL colors - LED light head «Top-View»	- RAL colors

## Intelligent control

A smart bollard control system allows for continuous self-monitoring through a wide range of sensors.

### Self-Monitoring Features:

- Detailed error analysis displayed on the control unit
- Automatic emergency lowering in the event of a fault (programmable)
- Visual fault indication with a special flashing sequence on the head lighting
- Brightness adjustment and acoustic pre-warning
- Automatic brightness adjustment of the head lighting and deactivation of the acoustic warning (at night) using geo-coordinates
- Data recording and storage for simplified fault analysis or evidence gathering in case of incidents (accidents/collisions)

### Remote Monitoring and Control (Optional):

- Real-time system status display
- Web-based system control
- Automatic fault notifications via e-mail/SMS

## Control element

For system control, we offer a wide range of control elements, from basic solutions to complex systems with visualization and traffic management:

- Radio transmitter
- Keys
- Biometric fingerprint readers
- Contactless transponder systems
- Remote opening via mobile phone and apps
- Automatic number plate recognition
- Communication systems or internet
- Operating and communication pillars
- Communication/video surveillance systems
- Centralized management systems for monitoring and remote control of multiple systems

## Installation

Pre-fabricated foundation shafts with installation frames (cover available upon request) allow for a cost-effective and quick construction process. The height of the bollard shafts can be adjusted to ensure a seamless connection to natural stone.

[www.conselgroup.com](http://www.conselgroup.com)

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Safe, reliable,  
functional and  
economical.