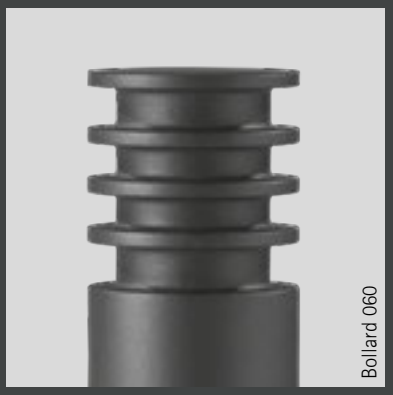
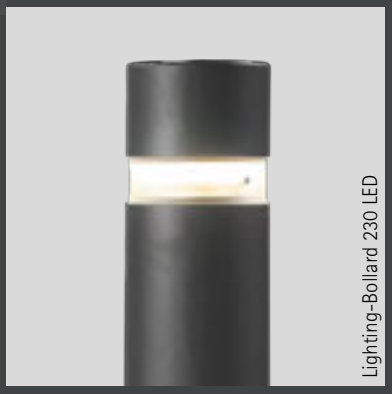
ABES
PUBLIC DESIGN

Bench 146

Bollard 027-2 with coat of arms


Bollard 060

Waste-Container 540


Lighting-Bollard 230 LED

Bicycle-Stand 450-1

STREET FURNITURE 2020

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"A smart bollard has to give in ..."

We have been committed to this motto for over 20 years. Our bollards, regular as well as LED, combined with the 3p-Technology mounting system with integrated predetermined breaking point we have developed, have set new standards. In hundreds of cities and municipal facilities, 3p-Technology has become the standard mounting system. From page 10 you can read what is behind this cost-saving and up-to-date technology.

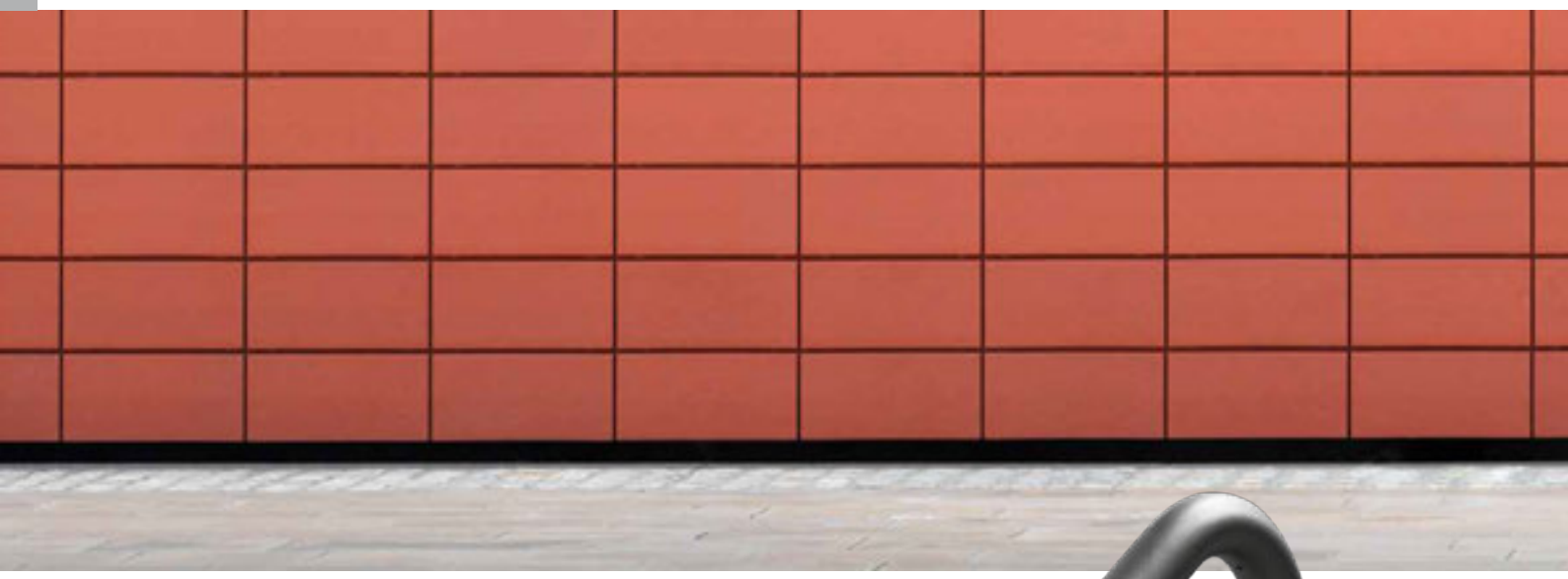
In our current catalog 2020/21 you will also find a wide range of future-oriented street furniture for public spaces and for a livable environment.

If you are looking for solutions to specific problems or need support in the selection of appropriate city furniture for your planning project, do not hesitate to contact us. Your ideas are the focus of our efforts. Free samplings are just as much a part of our service as telephone consultations and personal presentations on site.

We are looking forward to help you.

Rotger Barich and Lutz Barich

ABES
PUBLIC DESIGN



Innovative technology combined with unique design

Founded in 1994, ABES focuses on the design of urban furniture and elements for public space since 1999.

ABES' 3p-Technology system was developed with the customer's needs in mind. This advanced technology, by now used as standard mounting system in many cities, allows easy, time-saving and low-cost repair of public furniture. The main idea is to connect bollards with a junction piece having a predetermined breaking point. If damaged, object and foundation stay intact, and only the junction piece has to be replaced on site.

ABES offers unique products with an individual character. They attract attention, inspire people, and encourage viewers to engage in a variety of opinions and discussions, which creates their uniqueness. This has been confirmed by the "Design Centre North Rhine-Westphalia" by giving the red dot award to the Bicycle-Stand 450-1 (formerly Signum I) and the Bollard 001-1 (formerly Metropol 520 5RK), which are built using 3p-Technology. We use a variety of first-class materials for ABES products.

Apart from galvanised or stainless steel and selected woods, ABES is increasingly using cast iron or cast aluminium. These materials, which have been somewhat forgotten, have special characteristics so that regular welding techniques cannot be used for them.

Last but not least, cast technology is extraordinarily environmentally friendly because 95% of the materials originate from recycled resources, and the products themselves can be almost completely recycled. When choosing these raw materials, you are helping our environment by saving scarce resources and avoiding waste production.

Discover the aesthetically and technically innovative ABES products for yourself.

Bench 146-2 | Page 89

INSTRUCTIVE. INFORMATIVE. INTERESTING.

Online practical guides and technical articles

Interesting and informative articles on the topics urban planning and development. New contributions are published regularly.

Stay up-to-date and receive the latest updates with our newsletter (from 10/2020).

https://abes-online.com/en/publications/

Technical article
www.abes-online.com

Urban planning, urban development and identity

Cities are, in most contexts, growing structures. What often seems arbitrary and random overall is basically a series of changes that have been, at the time of their creation, a reasonable intervention in existing urban structures – always oriented towards the conditions, the requirements, and the possibilities.

Read the full article on our website:

https://abes-online.com/en/guides/urban-planning-urban-development-and-identity/

THE ABES ONLINE-SHOP

From planning to purchase and delivery tracking

Installation guides, videos, technical informations

Download catalogues and flyers

Track order status

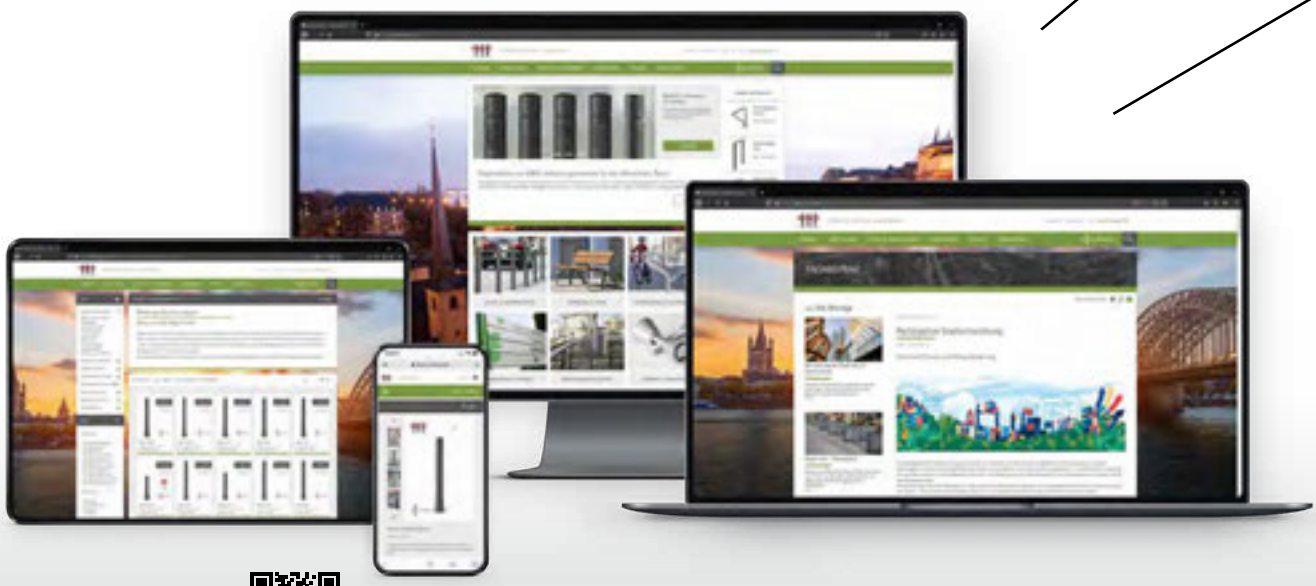
Useful guides and technical articles

Purchase on account

Tender specifications

Add customized products to the shopping cart

Price request



ABES ONLINE-SHOP:
WWW.ABES-ONLINE.COM/EN

Calculate your individual savings in the event of damage

Interactive cost calculator 3p-Technology

In general, a car or a truck hitting a bollard results in considerable repair costs. The interactive cost calculator lets you determine the cost advantages of the 3p-Technology fastening system for bollards:

- **Adjust the values in the yellow boxes according to your prices**
- **Click the button "Savings with 3p-Technology" below the cost calculation to get your result.**

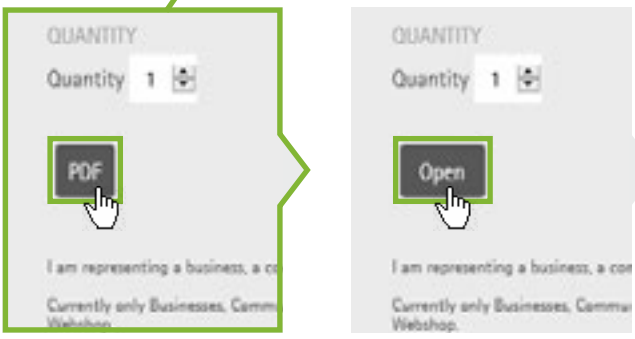
Example:

Savings with 3p-Technology 515,60 €

https://abes-online.com/en/3p-technology/3p-cost-comparison/

Download product offers in PDF format instantly

Offers in PDF format



- **Navigate to a product page, select the requested options and decide on the amount to be calculated**
- **Click the button "PDF" below the amount**

  The PDF is automatically generated
- **Click the button "Open"**

  You can open the PDF in a PDF reader or save it to your hard drive and print it out if necessary

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RELEASES
2020

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Steel + Stainless steel

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LATERAL EMPTYING

WASTE-CONTAINER 540
Steel + Stainless steel

- With lateral door

3p Technologie

109

LATERAL EMPTYING

WASTE-CONTAINER 541
Steel + Stainless steel

- With lateral door

3p Technologie

BENCH 147 91
Steel + Wood

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ADFC recommended quality, Steel + Stainless steel

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ADFC recommended quality, Steel + Stainless steel

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ADFC recommended quality, Steel + Stainless steel

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ADFC recommended quality, Steel + Stainless steel

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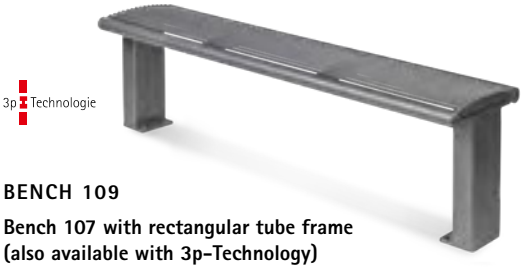
CLASSICS – NEW EDITIONS

92 **BENCH 103**
with stainless steel supports



95 **BENCH 109**
Bench 107 with rectangular tube frame (also available with 3p-Technology)

3p Technologie

What is the ABES 3p-Technology?

Help through ABES 3p-Technology

A complete repairs system

In 2001, ABES has launched 3p-Technology, a mounting system that allows a bollard that has been hit to be repaired in a very short time and in just a few steps.

The core of 3p-Technology is a junction piece with a predetermined breaking point.

Under the effect of an external force carried out by a car, a conventional bollard, including ground shell and locking mechanism, is seriously damaged or even destroyed.

This does not apply to bollards with 3p-Technology: their junction piece yields and breaks at the predetermined breaking point. Except for possible scratches on the bollard, every part, including the foundation and the pavement, remains intact. The junction piece is replaced, and in just a few minutes the bollard is ready for use again – without having lost any of its stability.

In numerous cities and municipal facilities, the 3p-Technology has become the standard mounting system.

It's not just bollards offering flexibility and easy assembly

While the 3p-Technology was originally developed for bollards, it is today also used in other street furniture, such as benches, bins and LED illuminated bollards, all of which enable the same easy assembly and maintenance.

In addition to simple maintenance, the system also offers further advantage:

Objects featuring the 3p-Technology are removable, giving you lots of freedom when it comes to design and layout. Bollards or benches can be easily removed during large events like Christmas markets or public gatherings, and reassembled afterwards in the blink of an eye.

All 3p-Technology products can similarly replace each other: the junction piece can be fitted onto any base, meaning you can easily replace a bin with a bollard if necessary.

Only the 3p-Technology can offer such design freedom!

THE PROBLEM

Defective bollards on the street

Crooked or broken bollards can be seen in every city. These pictures are certainly quite familiar. The replacement of conventional bollards is laborious, it takes a lot of manpower and time. This results in high costs.

Enter your repair costs and compare:
https://abes-online.com/en/3p-technology/3p-cost-comparison/

THE SOLUTION

3p Technologie

Bollards with patented 3p-Technology

The patented ABES 3p-Technology is the solution. If the bollard has been rammed or knocked over by a vehicle, the junction piece with predetermined breaking point gives way.

Bollard hit by a car.

The replaceable junction piece breaks at the predetermined breaking point. The bollard and foundation with base generally remain intact.

The broken junction piece is replaced with a new one, and the bollard can be immediately reassembled.

More informations and videos:
https://abes-online.com/en/3p-technology/

Advantages at a glance

COST ADVANTAGES IN CASE OF DAMAGE

- Cost savings up to 90% compared to all conventional and known bollards made of steel or cast aluminium
- Less than 3 minutes working time
- Bollards, foundations with floor sleeves and plaster usually remain intact

SIMPLIFIED STORAGE

ONE single ground shell for all products with 3p-Technology

- Easy stockpiling
- Less storage space
- Lower storage costs

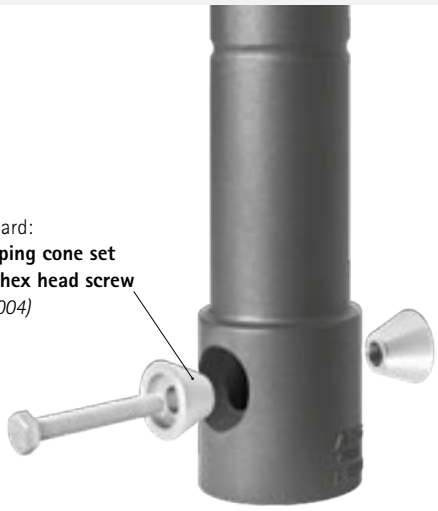
MOUNTING ADVANTAGES

- Quick replacement with simple tools on site
- Removable
- Absolutely accurate and firm

All ABES bollards, lighting bollards, waste containers, etc. can be mounted alternately on the same ground shell.

The 3p-Technology and its individual parts

3p Technologie



Standard:
Clamping cone set with hex head screw
(000.004)

STANDARD

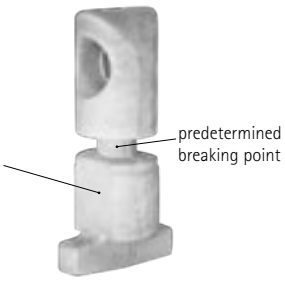
CLAMPING CONE SET **with hex head screw**

· Tightens the system firmly

Consisting of: M12 hexagonal head screw, N1 clamping cone without internal thread, N2 clamping cone with internal thread or N1 with M12 nut

Material: stainless steel 1.4301

Before installation, it's recommended to lubricate hex head screw and nut with a special ceramic paste. Please inquire! We will be happy to advise you.



Standard:
Junction piece without anti-roll device
(000.008)

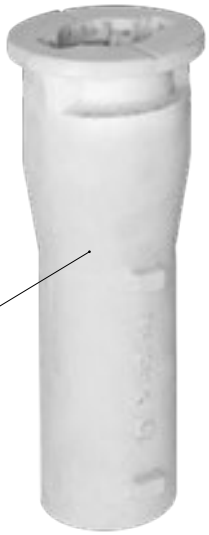
STANDARD

JUNCTION PIECE WITH PREDETERMINED BREAKING POINT

without anti-roll device

· Links bollard to the ground shell
· Breaks at the predetermined breaking point when damaged by a vehicle
· Can be instantly replaced if damaged

Material: cast iron, galvanised



Standard:
Ground shell 300 mm
(000.001)

STANDARD

GROUND SHELL **300 mm**

· Extremely robust component for long-lasting concrete embedment

Material: cast iron, galvanised

Note: In order to prevent the interruption of the construction process, the ground shells can be delivered in advance, if requested.

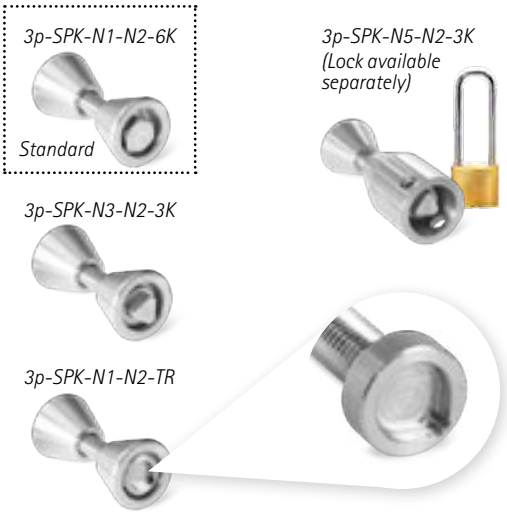
3p Technologie

OPTIONS

3p-SPK-N3-N2-3K **Clamping cone set with triangular head screw**

3p-SPK-N5-N2-3K **Clamping cone set with lengthened clamping cone (N5)**
Additional protection with a padlock in order to prevent unauthorised removal ***(e.g. fire brigade padlock)***, possible use with triangular head screw or with hex head screw

3p-SPK-N1-N2-TR **Clamping cone set with ABES bolt (Drop shaped)**
Special head screw with drop shaped drive
Can only be opened with an optional special tools; hence protection against unauthorised opening with standard tools *(utility model protection)*



OPTIONS

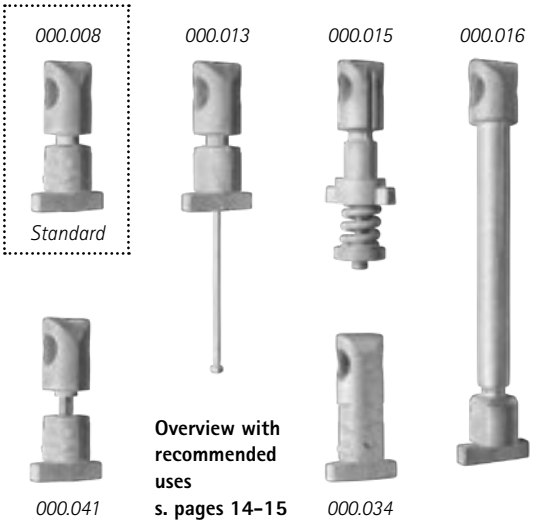
000.013 **Junction piece with anti-roll device**
The metal rod prevents the bollard from rolling away

000.015 **Junction piece with steel spring (3p-Flex)**
The bollard returns to its initial position after impact (8-10° tilt), and only breaks if the breaking load is exceeded

000.016 **Junction piece with extended connection (3p-High)**
Allows to open and close the locking mechanism with long fire brigade triangular keys without a break

000.034 **Junction piece without predetermined breaking point**
Solid protection for people and objects

000.041 **Height-adjustable junction piece**
· Height can be adjusted with a threaded rod
· Compensates for the gap between bollard and ground shell, if it ends below level, e.g. with paving stones of different heights



Overview with recommended uses
s. pages 14–15

OPTIONS

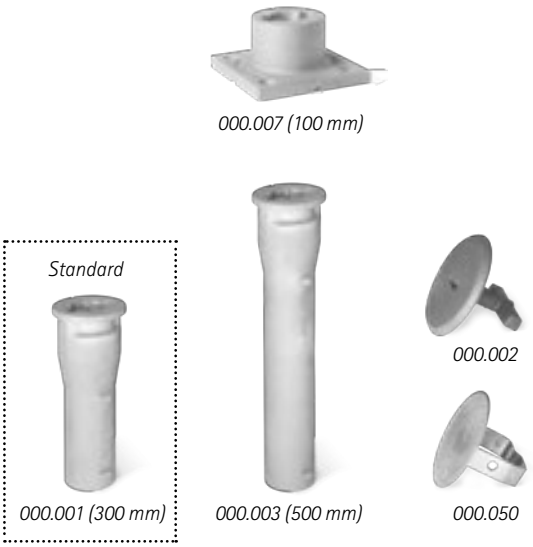
000.003 **Ground shell 500 mm**
For additional stability on unstabilised subsoil, cobblestone pavement etc.

000.007 **Ground shell 100 mm**
As special solution in case of small mounting depth, e.g. car parks, bridges etc.

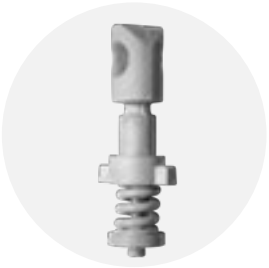
Ground shell cover
Reduces risk of tripping, prevents soiling

000.002 *Cast aluminium*

000.050 *S235 Steel with spring, hot-dip galvanised*



For additional options, see the accessories on pages 158–160 or in the online shop

3p Technologie	Removable WITH predetermined breaking point		
	3p-Technology		
	Junction piece without anti-roll device *000.008 (Standard)* 	**Junction piece with anti-roll device** *000.013* 	**Junction piece with steel spring (3p-Flex)** *000.015* 
Properties when hit by a vehicle	▪ Breaks at the predetermined breaking point	▪ Breaks at the predetermined breaking point ▪ Metal rod prevents the bollard from rolling away (e.g. on slopes)	▪ 8–10° flexure, bollard returns to original position after impact ▪ The predetermined breaking point yields if the spring is overexpanded
Recommended areas of application	▪ Parked cars/Stationary traffic ▪ Inner-city traffic ▪ Parking places	▪ On slopes ▪ Parked cars/Stationary traffic ▪ Inner-city traffic ▪ Parking places	▪ Parked cars/Stationary traffic ▪ Delivery traffic ▪ Parking places
Features	▪ Flexible, since removable (with predetermined breaking point) ▪ Low repair costs after impacts		
Removable	Yes		
Repair costs after impacts	Minor		
Vehicle damage after impacts	Minor to medium		

Removable WITHOUT predetermined breaking point	
3p-Technology	**3p-Snaplock**
Junction piece without predetermined breaking point *000.034* 	**Triangular or cylinder lock** NEW 2020
▪ **High resistance to impacts** (suitable for protecting objects and people)	▪ **Higher resistance to impacts, due to the absence of a predetermined breaking point**
▪ **Protecting people/objects** ▪ **Multiple consecutive rows can be used as simple object protection**	▪ **Critical locations, where the removal has to be done quickly in case of emergency**
▪ **Flexible, since removable (without predetermined breaking point)** ▪ **High resistance to impacts**	▪ **Self-latching, thus allowing a quick insertion** ▪ **Available for most steel or cast aluminium models (also with cast emblem)** ▪ **Hybrid ground shell, also suited for every 3p product with a predetermined breaking point**
Yes	**Yes**
High	**High**
High	**High**

3p-Snap Lock System

An overview of the 3p-Technology

Street furniture with 3p-Technology comes in all kinds of versions, each offering specific advantages depending on the purpose.

(LED) bollards and bins with predetermined breaking point are very inexpensive to repair. If they get damaged, the junction piece breaks at the predetermined breaking point, and can be replaced very quickly. The pavement does not generally require any work.

Street furniture objects with predetermined breaking point are also very flexible to replace. If necessary, they can be removed or replaced quickly and very easily with other street furniture.

If you are looking to provide particular protection for certain areas, we recommend bollards without predetermined breaking point. Not only are they flexible and inexpensive, they are also extremely robust. Unlike bollards with predetermined breaking point, the junction piece does not break. This makes the bollard a stable obstacle. This version – especially if two or three rows of bollards are set up behind one another – is particularly useful for protecting people and objects, e.g. to prevent vehicles from driving into pedestrian zones or areas close to pedestrians. Please keep in mind, however, that the foundations, bollards, ground shells and paving stones are very likely to be (severely) damaged or destroyed.

As you can see, the options offered by 3p-Technology are as varied as the requirements for street furniture. In addition to the versions with and without predetermined breaking point, there are also 3p-Technology products with flexible steel springs and with or without anti-rollaway features. Standard fixed installation is of course also possible.

Contact us; we'll be glad to advise you on the various 3p-Technology options.

Bollard 008 *page 29*

Bundesanstalt für Straßenwesen (Federal Highway Research Institute)

3p Technologie

Report n° V4 – 61/2002 dated Sep 13, 2002

on the

Characteristics of a bollard system regarding the effort required for repair

APPLICATION

Applicant: ABES Büro Deutschland
Zur Ehreneiche 3
57250 Netphen

Application date: 27 August 2002

Subject of application: Confirmation of the effort required to repair a damaged bollard

MATERIAL

Description*: **Metropol bollard with 3p-Technology including:**

- Ground shell n° 000.001, ductile cast iron GGG, embedded at ground level
- Junction piece, ductile cast iron GGG, with hexagon bolt and nut M12, stainless steel 1.4301, n° 000.008
- Clamping cone, stainless steel 1.4301, Nr. 000.004
- Anchor, galvanised steel ST37, n° 000.013
- Bollard, cast iron GG 20, n° 001.003

Serial number: None

Condition: New

*provided by applicant

TEST

A properly installed Metropol bollard with 3p-Technology is damaged by a car (see figure 1 and figure 2).

1 | Bollard before damage

2 | Damaged bollard

3 | Bollard system after damage

The junction piece yields, the bollard falls over and is held to the ground shell by an anchor. The bollard itself, the ground shell and the foundations do not show any visible signs of damage (see figure 3).

The bollard is mounted with a new junction piece within 3 minutes (see figure 4 and figure 5). After repair, the bollard is firmly fixed in place.

4 | Junction piece: damaged (right) and replacement (left)

5 | Repairing the bollard

(Dipl.-Phys. U. Ellmers)
Oberregierungsrat

(Dipl.-Phys. D. Heuzeroth)
Regierungsrat

02

BOLLARDS

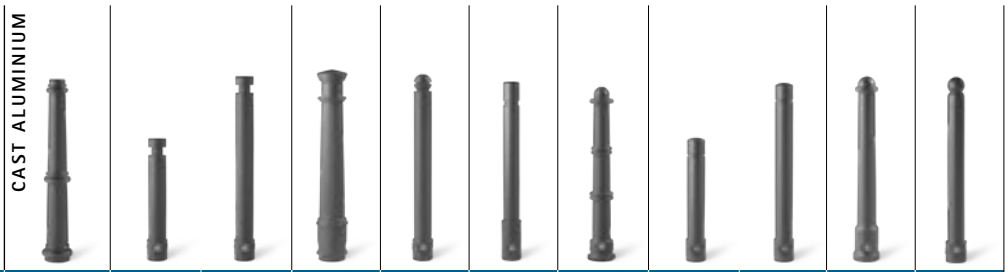
Barrier posts or bollards are natural parts of our cityscapes. Elegant boundaries or driveway and walkway markings are just a few of their many applicabilities. The various ABES designs, ranging from classic to modern, allow the harmonic integration of bollards in any environment.

These objects are permanently exposed to the risk of being knocked over by cars pulling in and out of parking bays. To counteract this risk, ABES has developed the 3p-Technology for bollard fastening as an alternative to fixed mounting. This is an easy and low-cost way to replace damaged bollards.

1: Bollard 055-2 *page 63* | **2: Bollard 005-2** *page 44* | **3: Bollard 001** *page 29*

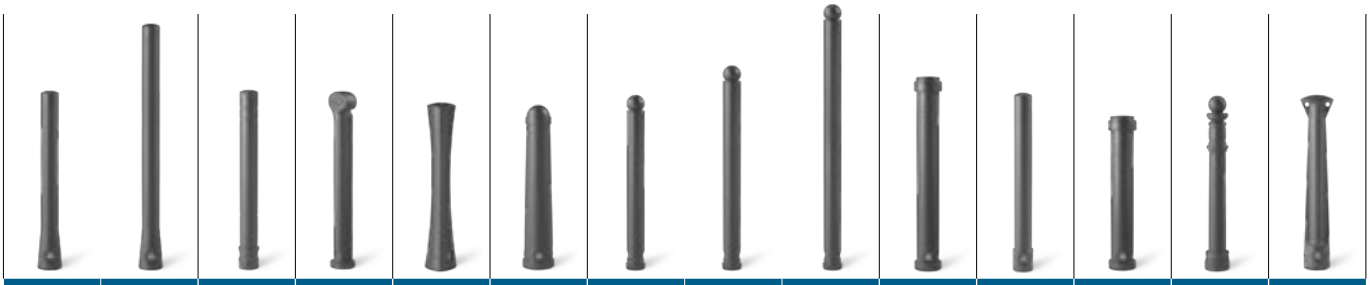
BOLLARD 001 *page 29*

		001	001-1	002	003	004	005-1	005-2	006-1	006-2	007	008
Catalogue page		**29**	**29**	**35**	**50**	**47**	**44**	**44**	**36**	**37**	**43**	**29**
NEW 2020												
Material	Cast aluminium (with powder coating)	■	■	■	■	■	■	■	■	■	■	■
	Steel S235 (galvanised)	-	-	-	-	-	-	-	-	-	-	-
	Steel S235 (galvanised with powder coating)	-	-	-	-	-	-	-	-	-	-	-
	Stainless steel 1.4301 (smoothed, grain 240)	-	-	-	-	-	-	-	-	-	-	-
	Stainless steel 1.4301 (pickled/glass bead blasted)	-	-	-	-	-	-	-	-	-	-	-
	Stainless steel 1.4301 (with powder coating)	-	-	-	-	-	-	-	-	-	-	-
	Rubber granulate	-	-	-	-	-	-	-	-	-	-	-
Mounting	Fixed mounting (concrete embedment)	001.001	001.011	002.001	003.001	004.001	005.001	005.201	006.001	006.201	007.001	008.001
	Removable with 3p-Technology	001.020	001.040	002.020	003.020	004.020	005.020	005.220	006.020	006.220	007.020	008.020
	Removable with 3p-High	○	-	○	○	004.030	○	○	○	○	007.030	○
	Option: Fold-down	-	-	-	-	-	-	-	-	-	-	-
	Option: With flanges to enable screwing	-	-	-	-	-	-	-	-	-	-	-
	Ground rosette included with 3p-Technology	-	-	-	-	-	-	-	-	-	-	-
	Ground rosette as an option	-	-	-	-	-	-	-	-	-	-	-
Measurements	Height above ground level (mm)	870	520	820	738	820	890	900	870	870	905	870
	Diameter (top/bottom, mm)	85/120	85/120	140	144/120	112/180	70/170	80/140	95/120	95/120	84/98	85/120
	Compatible 3p ground shells: 100 mm/300 mm (standard)/500 mm	○/●/○	○/●/○	○/●/○	○/●/○	○/●/○	○/●/○	○/●/○	○/●/○	○/●/○	○/●/○	○/●/○
	Weight (approx. in kg, for fixed mounting + 1.5 kg)	11	7	15,5	10	11,8	10,5	13	11	11	10	11
	Design	hrd	hrd	hrd	hrd				hrd	hrd		hrd

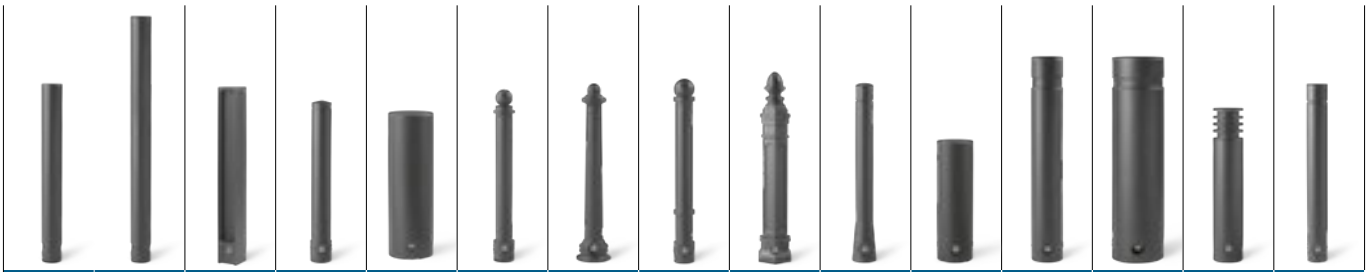


		020	021-1	021-2	022	023	024	025	027-1	027-2	028	029
			600 mm	900 mm					600 mm	870 mm		
Catalogue page		**49**	**39**		**49**	**43**	**39**	**45**	**28**		**<AE>**	**41**
NEW 2020												
Material	Cast aluminium (with powder coating)	■	■	■	■	■	■	■	■	■	■	■
	Steel S235 (galvanised)	-	-	-	-	-	-	-	-	-	-	-
	Steel S235 (galvanised with powder coating)	-	-	-	-	-	-	-	-	-	-	-
	Stainless steel 1.4301 (smoothed, grain 240)	-	-	-	-	-	-	-	-	-	-	-
	Stainless steel 1.4301 (pickled/glass bead blasted)	-	-	-	-	-	-	-	-	-	-	-
	Stainless steel 1.4301 (with powder coating)	-	-	-	-	-	-	-	-	-	-	-
	Rubber granulate	-	-	-	-	-	-	-	-	-	-	-
Mounting	Fixed mounting (concrete embedment)	020.001	021.001.060	021.001.090	022.001	023.001	024.001	025.001	027.001.060	027.001	028.001	029.001
	Removable with 3p-Technology	020.020	021.020.060	021.020.090	022.020	023.020	024.020	025.020	027.001.060	027.020	028.020	029.020
	Removable with 3p-High	○	-	○	○	023.030	○	○	-	027.030	○	○
	Option: Fold-down	-	-	-	-	-	-	-	-	027.005	-	-
	Option: With flanges to enable screwing	-	-	-	-	-	-	-	-	-	-	-
	Ground rosette included with 3p-Technology	-	-	-	-	-	-	-	-	-	-	-
	Ground rosette as an option	-	-	-	-	-	-	-	-	-	-	-
Measurements	Height above ground level (mm)	895	600	900	935	910	870	850	600	870	900	900
	Diameter (top/bottom, mm)	74/102	86/100		140	85/100	80/100	85/140	85/98		90	80/100
	Compatible 3p ground shells: 100 mm/300 mm (standard)/500 mm	○/●/○	○/●/○		○/●/○	○/●/○	○/●/○	○/●/○	○/●/○		○/●/○	○/●/○
	Weight (approx. in kg, for fixed mounting + 1.5 kg)	10	7,8	10,9	12	10,5	10,7	10,7	7	10	12,5	10,4
	Design						tw		hrd			

■ = Material | ● = Standard | ○ = Option (with a surcharge) | - = Not available | hrd = hammer.runge.design | tw = Thomas Wüsten | nt = Nico Thurm



009-1	009-2	010	011	012	013	014-1	014-2	014-3	015	016	017	018	019
870 mm	1200 mm					900 mm	1000 mm	1300 mm					
29		28	48	35	47	41			38	28	38	42	51
■	■	■	■	■	■	■	■	■	■	■	■	■	■
-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-
009.001	009.001.120	010.001	011.001	012.001	013.001	014.001	014.001.100	014.001.130	015.001	016.001	017.001	018.001	019.001
009.020	009.020.120	010.020	011.020	012.020	013.020	014.020	014.020.100	014.020.130	015.020	016.020	017.020	018.020	019.020
○	○	○	○	012.030	013.030	○	○	○	○	○	○	○	○
-	-	010.005	-	-	-	-	-	-	-	016.005	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	000.030	000.030	000.030	-	-	-	-	-
870	1200	870	860	820	820	900	1000	1300	950	870	750	850	850
85/ 120		85/98	102 × 96/108	140	125/160	85/98			105	85/98	105	90/130	160
○/●/○		○/●/○	○/●/○	○/●/○	○/●/○	○/●/○			○/●/○	○/●/○	○/●/○	○/●/○	○/●/○
11	13	10	11,5	15,5	11,9	10	11,5	14	14	10	12	12,9	11,5
hrd		hrd	hrd	hrd						hrd			

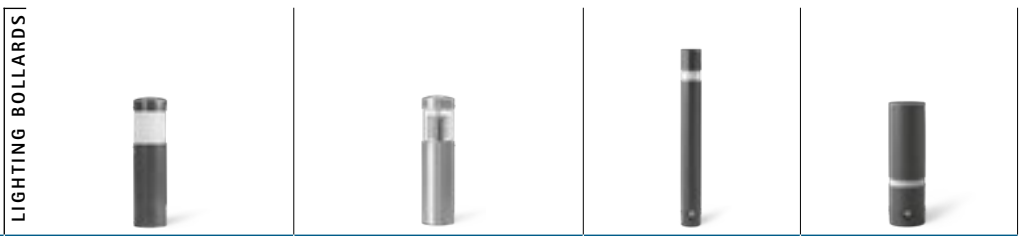


031-1	031-2	032	034	037-1	038	039	040	041	043	055-1	057	058	060	061
870 mm	1200 mm													
32		34	38	53	40	46	40	48	29	53	52	52	34	33
■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
031.001	031.001.120	032.001	034.001	037.001	038.001	039.001	040.001	041.001	043.001	055.001	057.001	058.001	060.001	061.001
031.020	031.020.120	032.020	034.020	037.020	038.020	039.020	040.020	041.020	043.020	055.020	057.020	058.020	060.020	061.020
031.030	○	-	○	-	○	○	○	○	○	-	-	-	-	061.030
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	●	-	-	-	-	-	-	-	-	-	-	-	-
-	-	○	-	-	-	-	-	-	-	-	-	-	-	-
870	1200	860	780	720	830	870	900	925	870	600	1000	1000	750	870
98		96 × 100	90/100	220	80/100	61/80/170	82/100	185	85/120	180	150	250	102/140	98
○/●/○		○/●/○	○/●/○	○/●/○	○/●/○	○/●/○	○/●/○	○/●/○	○/●/○	○/●/○	○/●/○	○/●/○	○/●/○	○/●/○
15,8	21	8	7,4	22	8,5	11	10,5	15	11	13,5	30	29	11	15,5
									hrd				nt	

CAST ALUMINIUM / STEEL

		062	064	068	069	070	071	037-2	055-2	059		063	065
Catalogue page		**42**	**55**	**45**	**54**	**54**	**55**	**63**	**63**	**60**		**61**	**61**
NEW 2020													
Material	Cast aluminium (with powder coating)	■	■	■	■	■	■	-	-	-	-	-	-
	Steel S235 (galvanised)	-	-	-	-	-	-	-	-	■	-	-	-
	Steel S235 (galvanised with powder coating)	-	-	-	-	-	-	■	■	-	■	■	■
	Stainless steel 1.4301 (smoothed, grain 240)	-	-	-	-	-	-	-	-	-	-	-	-
	Stainless steel 1.4301 (pickled/glass bead blasted)	-	-	-	-	-	-	-	-	-	-	-	-
	Stainless steel 1.4301 (with powder coating)	-	-	-	-	-	-	-	-	-	-	-	-
	Rubber granulate	-	-	-	-	-	-	-	-	-	-	-	-
Mounting	Fixed mounting (concrete embedment)	062.001	064.001	068.001	069.001	070.001	071.001	-	-	059.001	059.101	063.001	065.001
	Removable with 3p-Technology	062.020	064.020	068.020	069.020	070.020	071.020	037.120	055.120	059.020	059.120	063.020	065.020
	Removable with 3p-High	○	○	○	○	○	○	-	-	-	-	○	○
	Fixed mounting I	-	-	-	-	-	-	037.101	055.101	-	-	-	-
	Fixed mounting II	-	-	-	-	-	-	037.102	055.102	-	-	-	-
	Option: With flanges to enable screwing	-	-	-	-	-	-	-	-	-	-	-	-
	Ground rosette included with 3p-Technology	-	●	-	-	-	●	-	-	●	●	●	●
	Ground rosette as an option	-	○	-	-	-	○	-	-	○	○	○	○
	Individual height	-	-	-	-	-	-	○	○	○		○	○
Measurements	Height above ground level (mm)	910	1200	950	800	880	937	720	600	900		1000	900
	Diameter (top/bottom, mm)	104/115	100 × 100	82/97	85/120	83/98	90 × 90	220	180	80 × 80		100 × 100	70 × 140
	Compatible 3p ground shells: 100 mm/300 mm (standard)/500 mm	○/●/○	○/●/○	○/●/○	○/●/○	○/●/○	○/●/○	○/●/○	○/●/○	○/●/○		○/●/○	○/●/○
	Weight (approx. in kg, for fixed mounting + 1.5 kg)	10	25	8,2	9	10	14	22	13,5	13,5		20	13
	Design												

LIGHTING BOLLARDS

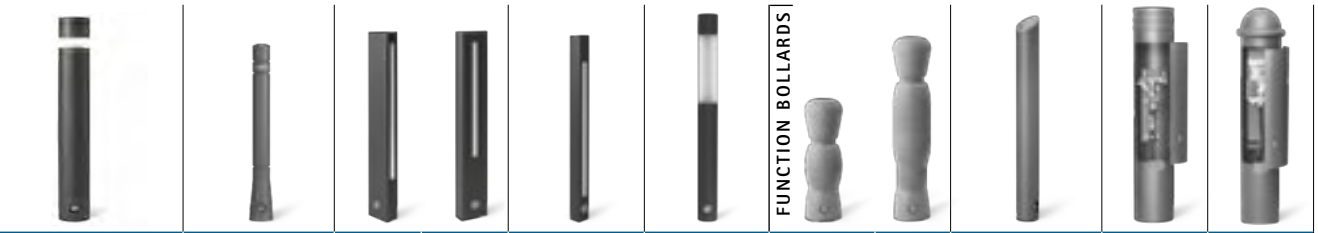


		200				200 LED				210 LED			220 LED		
		Acryl glass: clear		Acryl glass: satined		Acryl glass: clear		Acryl glass: satined		6000 K	4000 K	2700 K	6000 K	4000 K	2700 K
Catalogue page		**78**				**79**				**70**			**71**		
NEW 2020															
Material	Cast aluminium (with powder coating)	-	-	-	-	-	-	-	-	■	■	■	■	■	■
	Steel S235 (galvanised)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Steel S235 (galvanised with powder coating)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Stainless steel 1.4301 (smoothed, grain 240)	■	-	■	-	■	-	■	-	-	-	-	-	-	-
	Stainless steel 1.4301 (pickled/glass bead blasted)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Stainless steel 1.4301 (with powder coating)	-	■	-	■	-	■	-	■	-	-	-	-	-	-
	Rubber granulate	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mounting	Fixed mounting (concrete embedment)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Removable with 3p-Technology	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Removable with 3p-Technology for (LED-)lighting bollards	-	-	-	-	-	-	-	-	210.020	210.120	210.220	220.020	220.120	220.220
	Removable with 3p-High	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Option: Fold-down	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Option: With flanges to enable screwing	200.001	201.001	200.010	201.010	200.101	201.101	200.110	201.110	-	-	-	-	-	-
	Ground rosette included with 3p-Technology	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Ground rosette as an option	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Individual height	○				○				-			-		
Measurements	Height above ground level (mm)	620				620				870			600		
	Diameter (top/bottom, mm)	159				159				98			180		
	Compatible 3p ground shells: 100 mm/300 mm (standard)/500 mm	-				-				○/●/○			○/●/○		
	Weight (approx. in kg, for fixed mounting + 1.5 kg)	6				6				15,5			13,5		
	Design														

■ = Material | ● = Standard | ○ = Option (with a surcharge) | - = Not available | hrd = hammer.runge.design | tw = Thomas Wüsten | nt = Nico Thurm

STEEL / STAINLESS STEEL

066		076-10		076-20		076-30		076-40	042-1		042-2		056		074		079		089	
		Flat		Slightly curved		Round		Spherical	1000 mm		1200 mm									
60		56-57							58				58		62		59		62	
																	2020			
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
■	-	■	-	■	-	■	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	■	-	■	-	■	-	■	■	■	-	■	-	■	-	■	-	■	-	■	-
-	-	○	○	○	○	○	○	-	-	■	-	■	-	■	-	■	-	■	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	■
-	-	○	○	○	○	○	○	○	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
066.001	066.101	076.201	076.301	076.001	076.101	076.401	076.501	076.701	042.001	042.101	042.001.120	042.101.120	056.001	056.101	074.001	074.101	079.201	079.301	089.001	089.101
066.020	066.120	076.220	076.320	076.020	076.120	076.420	076.520	076.720	042.020	042.120	042.020.120	042.120.120	056.020	056.120	074.020	074.120	079.220	079.320	089.020	089.120
○	○	○	○	○	○	○	○	○	042.030	042.130	042.030.120	042.130.120	056.030	056.130	○	○	○	○	○	○
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	○	○	○	○	○	○	○	○	○	○	○	○	○	-	-	079.240	079.340	○	○
●	●	●	●	●	●	●	●	●	-	-	-	-	-	-	-	-	-	-	-	-
○	○	○	○	○	○	○	○	○	-	-	-	-	-	-	-	-	-	-	-	-
○		○		○		○		○	○		○		○		○		○		○	
900		940		952		980		1020	1000		1200		1000		1000		1097		750	
70 × 70		76							108				108		120 × 120		108		90	
○/●/○		○/●/○							○/●/○				○/●/○		○/●/○		○/●/○		○/●/○	
8,5		7,5		7,5		7,5		10	10		12		11,5		15		13		9	



FUNCTION BOLLARDS

230 LED			240 LED		265 LED-A	265 LED-B	266 LED	267 LED	026-1	026-2	525		300-1	300-2
6000 K	4000 K	2700 K	6000 K	2800 K	RGB + White 4000 K		RGB + White 4000 K	4000 K	600 mm	900 mm	Bollard ashtray			
72			73		74		75	77	66		67/113		68	69
								2020						
■	■	■	■	■	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	■	■	■	■	-	-	■	-	■	■
-	-	-	-	-	-	-	-	-	-	-	-	■	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	■	■	-	-	-	-
-	-	-	-	-	-	-	-	●	026.001	026.101	525.001	525.011	-	-
-	-	-	-	-	-	-	-	-	026.020	026.120	525.020	525.022	-	-
230.020	230.120	230.220	240.020	240.120	265.120	265.220	266.120	267.020	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	○	○	○	●	-	-	525.040	525.140	300.010	300.020
-	-	-	-	-	●	●	●	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-			-		○	○	○	○	-	-	○		○	○
1000			870		900		900	1060	600	900	1097		1335	1340
150			85/120		70 × 140		70 × 70	101,6	200		108		245	245
○/●/○			○/●/○		○/●/○		○/●/○	○/●/○	○/●/○	○/●/○	○/●/○		-	-
20			10		13		8,5	10	13	14,5	13,5		56,5	56,5
			hrd											

Mounting variants

3p-Technology is by far the most frequently ordered type of mounting.
It is used in more than 85 % of cases, because it significantly reduces costs.

3p-Technology (Standard)
(see pages 10–15)

3p-High

Fixed mounting

Screw-on

Fold-down*

Door stopper

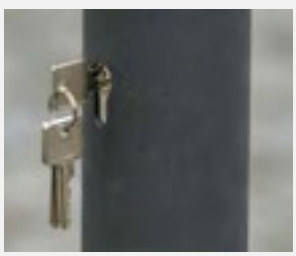
*The embeddable fold-down version is currently available for the following bollards: Bollard 001, 010, 016, 027-1 / -2, 032, 010, 059

NOVELTY: ABES 3p-Snap Lock System

Self-latching fastening system for bollards. Quick positioning into the ground shell, easy removal without bending over.

Easy and intuitive removal with little effort.

Bollards with junction pieces (3p-Technology) fit in the same ground shell.



Available with triangular or cylinder lock

- Removable fastening system without predetermined breaking point
- Optionally with triangular or cylinder lock
- Delivery includes hybrid ground shell* to embed in concrete
- Available for most steel or cast aluminium models, with cast emblem as well

* Suitable for the new 3p-Snap Lock System as well as for the proven 3p-Technology.

Special models

Paintwork, reflective tapes, finishings, eyelets, chains etc. are available on request.

1 ring – reflective tape

3 rings – reflective tape

1 ring – powder-coated

5 rings – powder-coated

With eyelets & chain

Stainless steel: smoothed, grain 240 (standard)

Stainless steel: electropolished/high-gloss

Cat's eye reflectors

NOVELTY: Photoluminescent coating for bollards

Enhanced safety and orientation with photoluminescent bollards

Above: in daylight, below: in the dark

Many have experienced this before – while driving home by bike at night, a hidden obstacle unexpectedly appears. Without artificial lighting, such routes are particularly hazardous.

Here, photoluminescent coatings on bollards or physical barriers could provide a greater security. Due to their light emission, photoluminescent coatings are visible in the dark, especially on routes without artificial lighting.

Features

- High durability and long service life
- Unlike conventional fluorescent colors, these photoluminescent colors do not fade. They keep their properties permanently
- Used among others in the manufacturing of firefighter helmets with significant safety relevance

Your personal ABES bollard

Give your bollard an individual touch and customize it with your coat of arms, your company logo or useful pictograms!

- ✔ Applicable for all cast aluminium bollards if their geometry allows it.
- ✔ From a specific order volume, depending on the shape of the emblem, we bear the non-recurring costs for the mold. Afterwards, single bollards with emblem can also be ordered at list price.

We assist you in designing your personal bollard.
Feel free to contact us!

Kayl-Tétange

Bad Urach

Volksbanken Raiffeisenbanken

Sparkassen

Heidelberg

Erbach

Stadt Heiligenhaus

Nieder-Olm

Luxembourg Fonds Kirchberg

Saarbrücken

Lindau

Luxexpo The Box

Bettembourg

Riedlingen

Airport Hamburg

Eckernförde

INDIVIDUAL. TOP QUALITY. EFFICIENT.

3 reasons for removable[1] bollards with emblem:

Individual concept. Top quality processing.
Efficient maintenance costs.

1 INDIVIDUAL

with the cast-in emblem of your city or the logo of your company

- **Accentuation of the city/municipality image respectively the enhancement of the corporate identity concept**

2 TOP QUALITY

due to powder coating in DB 703 glimmer grey[2]

- **Effective corrosion protection with an elegant look and feel**

3 EFFICIENT

thanks to the patented 3p-Technology

- **Low repair costs after the impact of a vehicle**

3p Technologie

[1] Also available with other fastening options [2] Also available in every Classic-RAL colour

THE ABES CLASSICS

Design: hammer.runge.design | Registered design M 9801747.0

Special models

Cat's eye reflectors, one powder-coated ring or one ring of reflective tape *(f. l. t. r.)*

Also available for other models *(see pages 25 and 159 f).*

With cylindrical base

016 027 010

BOLLARD 016 | 027 | 010

Cast aluminium

Specifications

Cylindrical cast aluminium bollard with a slightly domed top and a cylindrical base. Smooth or with one or three circumferential groove(s).
(See online shop for product-related texts)

Mounting

Removable with 3p-Technology

Alternative: concrete embedment

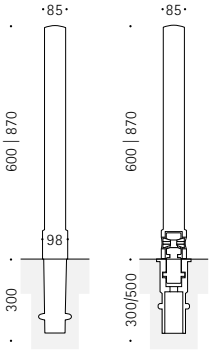
Finish

Powder coating in standard RAL colours or DB 703

			Fixed mounting	3p-Technology	3p-High	Fold-down
Bollard 016	870 mm	0 grooves	**016.001**	**016.020**	**–**	**016.005**
Bollard 027-1	600 mm	1 groove	**027.001.060**	**027.020.060**	**–**	**–**
Bollard 027-2	870 mm	1 groove	**027.001**	**027.020**	**027.030**	**027.005**
Bollard 010	870 mm	3 grooves	**010.001**	**010.020**	**–**	**010.005**

CA

3p Technologie



For available accessories and special designs, refer to pages 158–160 →

With conical base

009 | 043 | 008 | 001 | 001-1

reddot

Bollard 008 also available as
Lighting Bollard 240 LED
(see p. 73)

BOLLARD 009 | 043 | 008 | 001 | 001-1

Cast aluminium

Specifications

Cylindrical cast aluminium bollard with a slightly domed top and a conical base.
Smooth or with one, three or ten circumferential groove(s).
(See online shop for product-related texts)

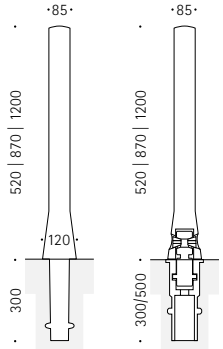
Mounting

Removable with 3p-Technology

Alternative: concrete embedment

Finish

Powder coating in standard RAL colours or DB 703



			Fixed mounting	3p-Technology
Bollard 009-1	870 mm	0 grooves	**009.001**	**009.020**
Bollard 009-2	1200 mm	0 grooves	**009.001.120**	**009.020.120**
Bollard 043	870 mm	1 groove	**043.001**	**043.020**
Bollard 008	870 mm	3 grooves	**008.001**	**008.020**
Bollard 001	870 mm	10 grooves	**001.001**	**001.020**
Bollard 001-1	520 mm	5 grooves	**001.011**	**001.040**

CA

3p Technologie

Detailed information can be found on the catalogue's back cover fold-out →

1

1 **BOLLARD 008** **Mersch** *Luxembourg*
2 **BOLLARD 027-2** **Saarbrücken** *Germany*
3 **BOLLARD 027-2** **Daun** *Germany*
4 **BOLLARD 001** **Grevenmacher** *Luxembourg*
5 **BOLLARD 001** **Luxembourg-Kirchberg** *Luxembourg*
6 **BOLLARD 001** **Grevenmacher** *Luxembourg*

2

3

THE ABES CLASSICS

Design: hammer.runge.design | Registered design M 9801747.0

4

5

6

BOLLARD 031

031-1 | *Cast aluminium* | *870 mm*
031-2 | *Cast aluminium* | *1200 mm*

Specifications

Cylindrical bollard made of cast aluminium, with a flat top.

Mounting

Removable with 3p-Technology
Alternative: concrete embedment

Finish

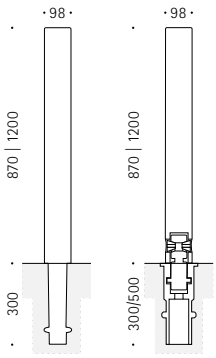
Powder coating in standard RAL colours or DB 703

Bollard 031-1 also available as **Lighting Bollard 210 LED**
(see p. 70)

		Fixed mounting	3p-Technology	3p-High
Bollard 031-1	870 mm	**031.001**	**031.020**	**031.030**
Bollard 031-2	1200 mm	**031.001.120**	**031.020.120**	**-**

CA

3p Technologie



For available accessories and special designs, refer to pages 158–160 ➔

BOLLARD 061

Cast aluminium | 870 mm

Specifications

Cylindrical cast aluminium bollard with a flat top and a cast-in circumferential groove.

Mounting

Removable with 3p-Technology

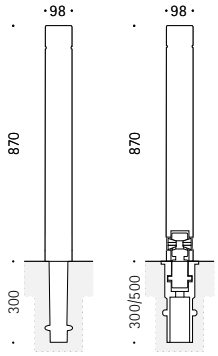
Alternative: concrete embedment

Finish

Powder coating in standard RAL colours or DB 703

Note

Identical with Bollard 031, additionally: cast-in circumferential groove



		Fixed mounting	3p-Technology	3p-High
Bollard 061	870 mm	**061.001**	**061.020**	**061.030**

CA

3p Technologie

1

2

3

1 **BOLLARD 031-1**
with 3p-Technology
DB 703, 870 mm
Art. N° 031.020
Sandweiler *Luxembourg*

2–3 **BOLLARD 031-1**
with 3p-Technology
DB 703, 870 mm
Art. N° 031.020
Rotondes *Luxembourg*

Detailed information can be found on the catalogue's back cover fold-out ➔

BOLLARD 060

Cast aluminium | 750 mm

Specifications

Cylindrical bollard made of cast aluminium with a flat top and a narrowed upper part with four intermitting, protruding rings.

Mounting

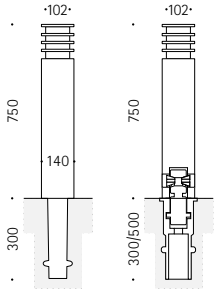
Removable with 3p-Technology

Alternative: concrete embedment

Finish

Powder coating in standard RAL colours or DB 703

Design: Nico Turm



	Fixed mounting	3p-Technology
Bollard 060	**060.001**	**060.020**

CA

3p Technologie

BOLLARD 032

Cast aluminium | 860 mm

Specifications

Rectangular cast aluminium bollard fitted flush with the top, with inward vertical walls.

Mounting

Removable with 3p-Technology

Alternative: concrete embedment

Finish

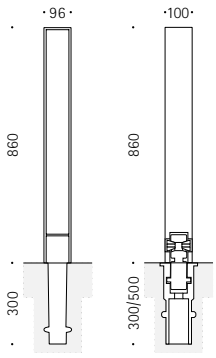
Powder coating in standard RAL colours or DB 703

Note

The ground rosette is part of the delivery (3p-Technology)

Rosette 135 x 135 mm. Completely covers the ground shell

Material: S235 steel, hot-dip galvanised and powder-coated in bollard paint



	Fixed mounting	3p-Technology
Bollard 032	**032.001**	**032.020**

CA

3p Technologie

For available accessories and special designs, refer to pages 158–160 →

BOLLARD 012

Cast aluminium | 820 mm

Specifications

Cast aluminium bollard with a triangular base shape and a slightly domed top. The bollard tapers towards the middle.

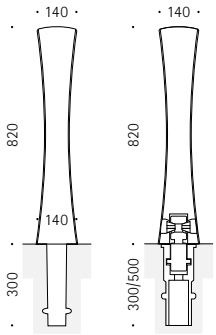
Mounting

Removable with 3p-Technology

Alternative: concrete embedment

Finish

Powder coating in standard RAL colours or DB 703



	Fixed mounting	3p-Technology	3p-High
Bollard 012	**012.001**	**012.020**	**012.030**

CA

3p Technologie

Design: hammer.runge.design | Registered design M 9801747.0

BOLLARD 002

Cast aluminium | 820 mm

Specifications

Bollard made of cast aluminium with a triangular base and a sphere set on top. The bollard tapers towards its centre.

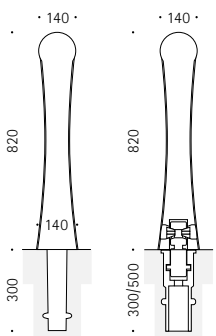
Mounting

Removable with 3p-Technology

Alternative: concrete embedment

Finish

Powder coating in standard RAL colours or DB 703



	Fixed mounting	3p-Technology
Bollard 002	**002.001**	**002.020**

CA

3p Technologie

Design: hammer.runge.design | Registered design M 9801747.0

Detailed information can be found on the catalogue's back cover fold-out →

Design: hammer.runge.design | Registered design M 9801747.0

BOLLARD 006-1

Cast aluminium | 870 mm

Specifications

Conical bollard made of cast aluminium with two cast-in eyelets at the top.

Mounting

Removable with 3p-Technology

Alternative: concrete embedment

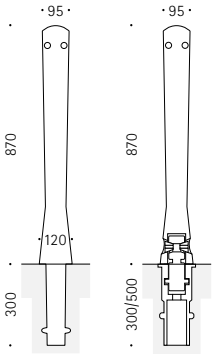
Finish

Powder coating in standard RAL colours or DB 703

	Fixed mounting	3p-Technology
Bollard 006-1	**006.001**	**006.020**

CA

3p Technologie



1 BOLLARD 006-1
with 3p-Technology
DB 703, 870 mm
Art. N° 006.020
Hörnum-Sylt *Germany*

2 BOLLARD 006-1
with 3p-Technology
DB 703, 870 mm
Art. N° 006.020
Bunbury *Australia*

3 BOLLARD 006-2
with 3p-Technology
DB 703, 870 mm
Art. N° 006.220
Walferdange *Luxembourg*

For available accessories and special designs, refer to pages 158–160 →

BOLLARD 006-2

Cast aluminium | 870 mm

Specifications

Bollard made of cast aluminium tapering towards its middle.

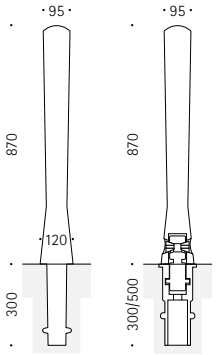
Mounting

Removable with 3p-Technology

Alternative: concrete embedment

Finish

Powder coating in standard RAL colours or DB 703



	Fixed mounting	3p-Technology
Bollard 006-2	**006.201**	**006.220**

CA

3p Technologie

Design: hammerrunge.design | Registered design M 9801747.0

Detailed information can be found on the catalogue's back cover fold-out →

BOLLARD 034

Cast aluminium | 780 mm

Specifications

Cylindrical bollard made of cast aluminium with a cast, narrow groove that separates the slightly tapering top from the bollard and an accentuated cylindrical base.

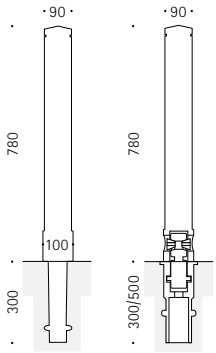
Mounting

Removable with 3p-Technology

Alternative: concrete embedment

Finish

Powder coating in standard RAL colours or DB 703



	Fixed mounting	3p-Technology
Bollard 034	**034.001**	**034.020**

CA

3p Technologie

BOLLARD 015 | 017

015 | *Cast aluminium | 950 mm*
017 | *Cast aluminium | 750 mm*

Specifications

Cylindrical bollard made of cast aluminium with an ornamental ring on the flat top and at the base.

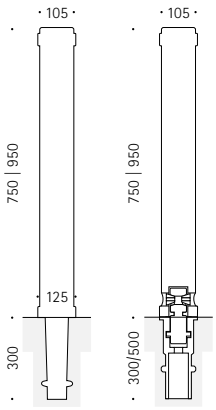
Mounting

Removable with 3p-Technology

Alternative: concrete embedment

Finish

Powder coating in standard RAL colours or DB 703



		Fixed mounting	3p-Technology
Bollard 015	950 mm	**015.001**	**015.020**
Bollard 017	750 mm	**017.001**	**017.020**

CA

3p Technologie

For available accessories and special designs, refer to pages 158–160 →

Design: Thomas Wüsten - GFP

BOLLARD 024

Cast aluminium | 870 mm

Specifications

Cylindrical bollard made of cast aluminium with a cast recess separating the bollard optically from its top and a distinct cylindrical base.

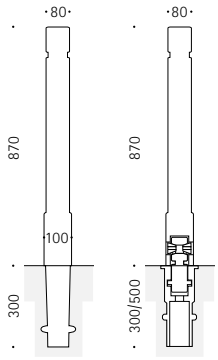
Mounting

Removable with 3p-Technology

Alternative: concrete embedment

Finish

Powder coating in standard RAL colours or DB 703



	Fixed mounting	3p-Technology
Bollard 024	**024.001**	**024.020**

CA

3p Technologie

BOLLARD 021

021-1 | *Cast aluminium | 600 mm*
021-2 | *Cast aluminium | 900 mm*

Specifications

Cylindrical cast aluminium bollard with a flat top by an accentuated by an elongated recess.

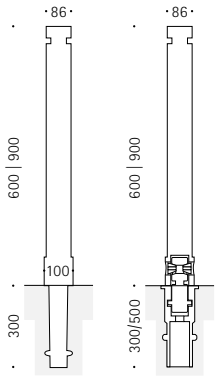
Mounting

Removable with 3p-Technology

Alternative: concrete embedment

Finish

Powder coating in standard RAL colours or DB 703



		Fixed mounting	3p-Technology
Bollard 021-1	600 mm	**021.001.060**	**021.020.060**
Bollard 021-2	900 mm	**021.001.090**	**021.020.090**

CA

3p Technologie

Detailed information can be found on the catalogue's back cover fold-out →

BOLLARD 038

Cast aluminium | 830 mm

Specifications

Cylindrical cast aluminium bollard with a circumferential ring below the spherical top piece.

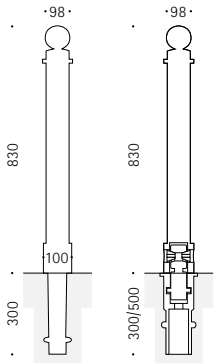
Mounting

Removable with 3p-Technology

Alternative: concrete embedment

Finish

Powder coating in standard RAL colours or DB 703



	Fixed mounting	3p-Technology
Bollard 038	**038.001**	**038.020**

CA

3p Technologie

BOLLARD 040

Cast aluminium | 900 mm

Specifications

Cylindrical cast aluminium bollard with a top sphere, a peripheral ring below the top, and another ring above the pedestal.

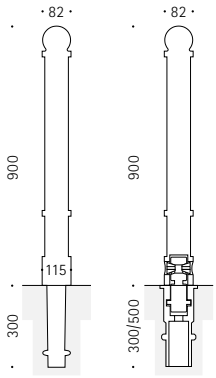
Mounting

Removable with 3p-Technology

Alternative: concrete embedment

Finish

Powder coating in standard RAL colours or DB 703



	Fixed mounting	3p-Technology
Bollard 040	**040.001**	**040.020**

CA

3p Technologie

For available accessories and special designs, refer to pages 158–160 →

BOLLARD 014

014–1 | *Cast aluminium* | *900 mm*
014–2 | *Cast aluminium* | *1000 mm*
014–3 | *Cast aluminium* | *1300 mm*

Specifications

Smooth cylindrical bollard made of cast aluminium with a sphere on the top.

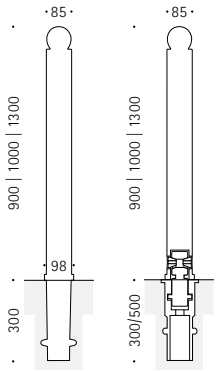
Mounting

Removable with 3p-Technology

Alternative: concrete embedment

Finish

Powder coating in standard RAL colours or DB 703



		Fixed mounting	3p-Technology
Bollard 014–1	900 mm	**014.001**	**014.020**
Bollard 014–2	1000 mm	**014.001.100**	**014.020.100**
Bollard 014–3	1300 mm	**014.001.130**	**014.020.130**

CA

3p Technologie

BOLLARD 029

Cast aluminium | *900 mm*

Specifications

Cylindrical smooth bollard made of cast aluminium with a spherical top.

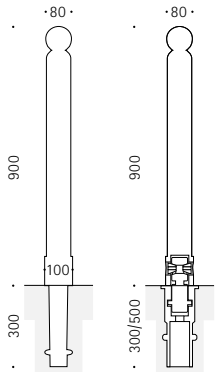
Mounting

Removable with 3p-Technology

Alternative: concrete embedment

Finish

Powder coating in standard RAL colours or DB 703



	Fixed mounting	3p-Technology
Bollard 029	**029.001**	**029.020**

CA

3p Technologie

Detailed information can be found on the catalogue's back cover fold-out →

BOLLARD 018

Cast aluminium | 850 mm

Specifications

Bollard made of cast aluminium with a cylindrical base on a pedestal, several indentations and rings and a sphere on top.

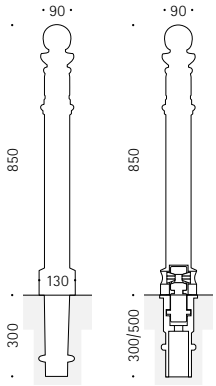
Mounting

Removable with 3p-Technology

Alternative: concrete embedment

Finish

Powder coating in standard RAL colours or DB 703



	Fixed mounting	3p-Technology
Bollard 018	**018.001**	**018.020**

CA

3p Technologie

BOLLARD 062

Cast aluminium | 910 mm

Specifications

Cylindrical bollard made of cast aluminium with a two-part base and a protruding ring below the enlarged spherical head.

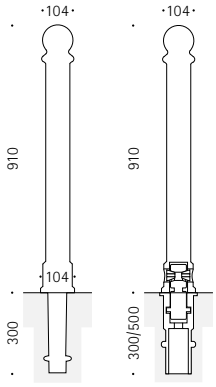
Mounting

Removable with 3p-Technology

Alternative: concrete embedment

Finish

Powder coating in standard RAL colours or DB 703



	Fixed mounting	3p-Technology
Bollard 062	**062.001**	**062.020**

CA

3p Technologie

For available accessories and special designs, refer to pages 158–160 ➔

BOLLARD 023

Cast aluminium | 910 mm

Specifications

Cylindrical bollard made of cast aluminium with a top sphere, with a horizontal indentation, and an accentuated base.

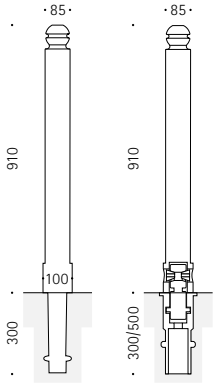
Mounting

Removable with 3p-Technology

Alternative: concrete embedment

Finish

Powder coating in standard RAL colours or DB 703



	Fixed mounting	3p-Technology	3p-High
Bollard 023	**023.001**	**023.020**	**023.030**

CA

3p Technologie

BOLLARD 007

Cast aluminium | 905 mm

Specifications

Cylindrical bollard with a smooth surface, made of cast aluminium with a circumferential groove and a leveled sphere as top piece.

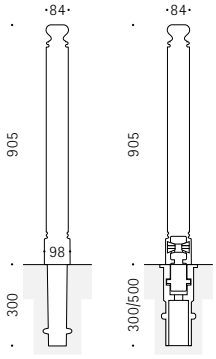
Mounting

Removable with 3p-Technology

Alternative: concrete embedment

Finish

Powder coating in standard RAL colours or DB 703



	Fixed mounting	3p-Technology	3p-High
Bollard 007	**007.001**	**007.020**	**007.030**

CA

3p Technologie

Detailed information can be found on the catalogue's back cover fold-out →

BOLLARD 005–1

Cast aluminium | 890 mm

Specifications

Cylindrical bollard made of cast aluminium with three multilayered rings, as well as a spherical top piece.

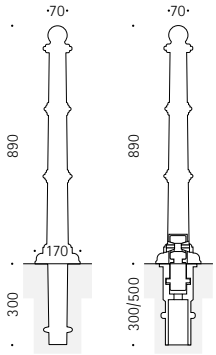
Mounting

Removable with 3p-Technology

Alternative: concrete embedment

Finish

Powder coating in standard RAL colours or DB 703



	Fixed mounting	3p-Technology
Bollard 005–1	**005.001**	**005.020**

CA

3p Technologie

BOLLARD 005–2

Cast aluminium | 900 mm

Specifications

Cylindrical bollard made of cast aluminium with two multilayered rings, a cylindrical base about 100 mm high and a sphere as top piece.

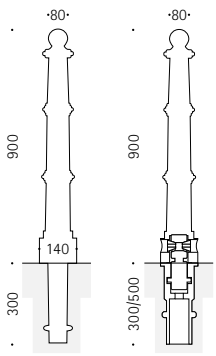
Mounting

Removable with 3p-Technology

Alternative: concrete embedment

Finish

Powder coating in standard RAL colours or DB 703



	Fixed mounting	3p-Technology
Bollard 005–2	**005.201**	**005.220**

CA

3p Technologie

For available accessories and special designs, refer to pages 158–160 ➔

BOLLARD 068

Cast aluminium | 950 mm

Specifications

Cylindrical bollard made of cast aluminium surrounded by two multilayered rings and a tapering cone on top.

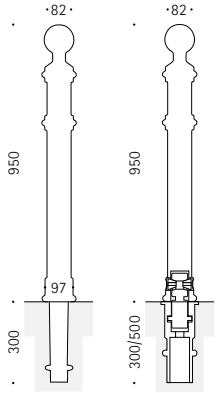
Mounting

Removable with 3p-Technology

Alternative: concrete embedment

Finish

Powder coating in standard RAL colours or DB 703



	Fixed mounting	3p-Technology
Bollard 068	**068.001**	**068.020**

CA

3p Technologie

BOLLARD 025

Cast aluminium | 850 mm

Specifications

Cylindrical bollard made of cast aluminium with two paired rings and a ring below a flattened hemisphere at the top.

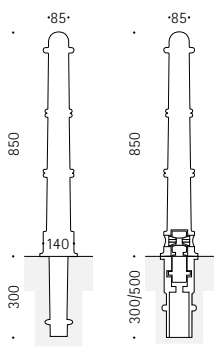
Mounting

Removable with 3p-Technology

Alternative: concrete embedment

Finish

Powder coating in standard RAL colours or DB 703



	Fixed mounting	3p-Technology
Bollard 025	**025.001**	**025.020**

CA

3p Technologie

Detailed information can be found on the catalogue's back cover fold-out →

BOLLARD 039

Cast aluminium | 870 mm

Specifications

Cylindrical bollard made of cast aluminium, with a revolving three split ring below the hemispherical top, as well as above the base.

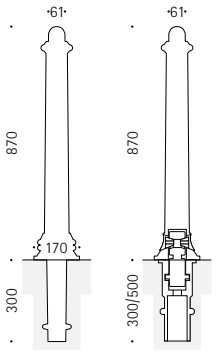
Mounting

Removable with 3p-Technology

Alternative: concrete embedment

Finish

Powder coating in standard RAL colours or DB 703



	Fixed mounting	3p-Technology
Bollard 039	**039.001**	**039.020**

CA

3p Technologie

BOLLARD 028

Cast aluminium | 900 mm

Specifications

Cylindrical bollard made of cast aluminium with a two-part base and a hemisphere on top, separated by a ring.

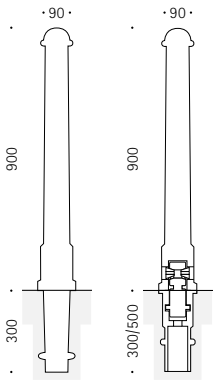
Mounting

Removable with 3p-Technology

Alternative: concrete embedment

Finish

Powder coating in standard RAL colours or DB 703



	Fixed mounting	3p-Technology
Bollard 028	**028.001**	**028.020**

CA

3p Technologie

For available accessories and special designs, refer to pages 158–160 →

BOLLARD 004

Cast aluminium | 820 mm

Specifications

Cone-shaped bollard made of cast aluminium with a circumferential ring which optically separates the top from the rest of the bollard, and a second broader circumferential ring at the base.

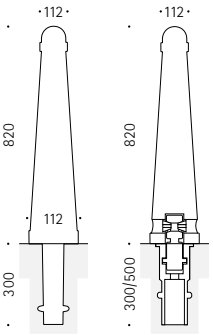
Mounting

Removable with 3p-Technology

Alternative: concrete embedment

Finish

Powder coating in standard RAL colours or DB 703



	Fixed mounting	3p-Technology	3p-High
Bollard 004	**004.001**	**004.020**	**004.030**

CA

3p Technologie

BOLLARD 013

Cast aluminium | 820 mm

Specifications

Slightly cone-shaped bollard made of cast aluminium with a circumferential ring which optically separates the top from the rest of the bollard, and a second broader circumferential ring at the base.

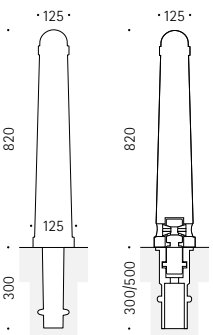
Mounting

Removable with 3p-Technology

Alternative: concrete embedment

Finish

Powder coating in standard RAL colours or DB 703



	Fixed mounting	3p-Technology	3p-High
Bollard 013	**013.001**	**013.020**	**013.030**

CA

3p Technologie

Detailed information can be found on the catalogue's back cover fold-out ➔

BOLLARD 011

Cast aluminium | 860 mm

Specifications

Oval bollard made of cast aluminium with a spiral-shaped head and a protruding vertical joint.

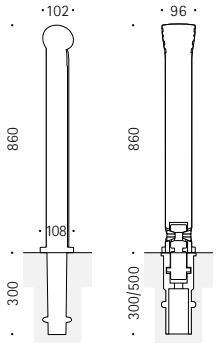
Mounting

Removable with 3p-Technology

Alternative: concrete embedment

Finish

Powder coating in standard RAL colours or DB 703



	Fixed mounting	3p-Technology
Bollard 011	**011.001**	**011.020**

CA

3p Technologie

BOLLARD 041

Cast aluminium | 925 mm

Specifications

Subdivided cast aluminium bollard on a hexagonal base, tapering towards the top and ending in an acorn-shaped figure. The six sides show rectangular, cast-in recesses.

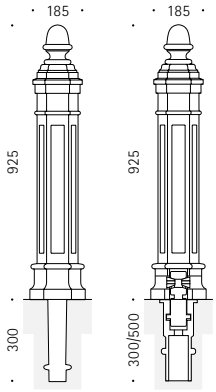
Mounting

Removable with 3p-Technology

Alternative: concrete embedment

Finish

Powder coating in standard RAL colours or DB 703



	Fixed mounting	3p-Technology
Bollard 041	**041.001**	**041.020**

CA

3p Technologie

For available accessories and special designs, refer to pages 158–160 ➔

BOLLARD 020

Cast aluminium | 895 mm

Specifications

Cylindrical bollard made of cast aluminium with three circumferential paired rings, several vertical recesses and a flat top.

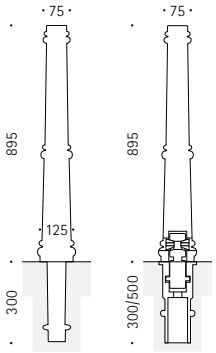
Mounting

Removable with 3p-Technology

Alternative: concrete embedment

Finish

Powder coating in standard RAL colours or DB 703



	Fixed mounting	3p-Technology
Bollard 020	**020.001**	**020.020**

CA

3p Technologie

BOLLARD 022

Cast aluminium | 935 mm

Specifications

Slightly conical bollard made of cast aluminium with several vertical recesses in the middle section. The upper section is accentuated by a circumferential ring, a smooth surface and a slightly protruding tapering top piece. The base is characterised by a smooth shell enclosed by two rings.

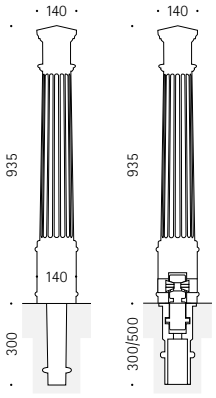
Mounting

Removable with 3p-Technology

Alternative: concrete embedment

Finish

Powder coating in standard RAL colours or DB 703



	Fixed mounting	3p-Technology
Bollard 022	**022.001**	**022.020**

CA

3p Technologie

Detailed information can be found on the catalogue's back cover fold-out ➔

Design: hammer.runge.design | Registered design M 9801747.0

BOLLARD 003

Cast aluminium | 738 mm

Specifications

Cylindrical bollard made of cast aluminium with twelve window-like cast indentations, a protruding top and a distinct cylindrical base.

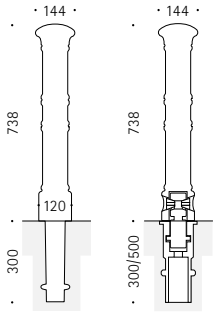
Mounting

Removable with 3p-Technology

Alternative: concrete embedment

Finish

Powder coating in standard RAL colours or DB 703



	Fixed mounting	3p-Technology
Bollard 003	**003.001**	**003.020**

CA

3p Technologie

1–2 BOLLARD 003

with 3p-Technology
RAL 7016, 738 mm
Art. N° 003.020
Echternach *Luxembourg*

1

2

For available accessories and special designs, refer to pages 158–160 ➔

BOLLARD 019

Cast aluminium | 850 mm

Specifications

Conical cast aluminium bollard with four wing-like side parts which taper further up into eyelets. The top is domed.

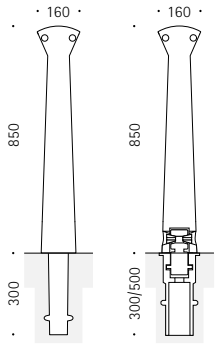
Mounting

Removable with 3p-Technology

Alternative: concrete embedment

Finish

Powder coating in standard RAL colours or DB 703



	Fixed mounting	3p-Technology
Bollard 019	**019.001**	**019.020**

CA

3p Technologie

1–2 BOLLARD 019

with 3p-Technology
DB 703, 850 mm
Art. N° 019.020
Nommern *Luxembourg*

Detailed information can be found on the catalogue's back cover fold-out →

BOLLARD 057

Cast aluminium | 150 · 1000 mm

Specifications

Cylindrical bollard made of cast aluminium with a flat top and a broad ring-shaped recess in the upper region.

Mounting

Removable with 3p-Technology

Alternative: concrete embedment

Finish

Powder coating in standard RAL colours or DB 703

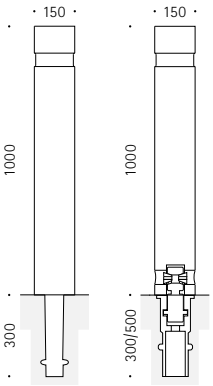
	Fixed mounting	3p-Technology
Bollard 057	**057.001**	**057.020**

CA

3p Technologie

Bollard 057 also available as **Lighting Bollard 230 LED**

(see p. 72)



BOLLARD 058

Cast aluminium | 250 · 1000 mm

Specifications

Cylindrical bollard made of cast aluminium with a flat top and a broad ring-shaped recess in the upper region.

Mounting

Removable with 3p-Technology

Alternative: concrete embedment

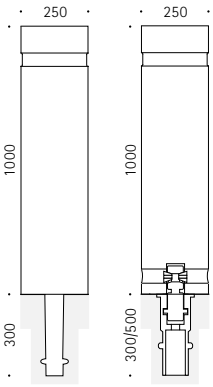
Finish

Powder coating in standard RAL colours or DB 703

	Fixed mounting	3p-Technology
Bollard 058	**058.001**	**058.020**

CA

3p Technologie



For available accessories and special designs, refer to pages 158–160 ➔

Bollard 055-1 also available as **Lighting Bollard 220 LED**
(see p. 71)

BOLLARD 037-1 | 055-1

037-1 | *Cast aluminium* | *220 · 720 mm*
055-1 | *Cast aluminium* | *180 · 600 mm*

Specifications

Cylindrical bollard made of cast aluminium with a flat top.

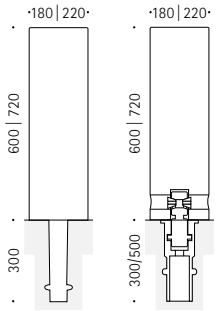
Mounting

Removable with 3p-Technology

Alternative: concrete embedment

Finish

Powder coating in standard RAL colours or DB 703



		Fixed mounting	3p-Technology
Bollard 037-1	220 · 720 mm	**037.001**	**037.020**
Bollard 055-1	180 · 600 mm	**055.001**	**055.020**

CA

3p Technologie

1 **BOLLARD 055-1**
with 3p-Technology
DB 703, 180 · 600 mm
Art. N° 055.020
Cologne *Germany*

2–3 **BOLLARD 058**
with 3p-Technology
DB 703, 250 · 1000 mm
Art. N° 058.020
Manchester *Great Britain*

Detailed information can be found on the catalogue's back cover fold-out →

BOLLARD 069

Cast aluminium | 800 mm

Specifications

Cylindrical cast aluminium bollards with a wide, circular recess at the top and a tapering base.

Mounting

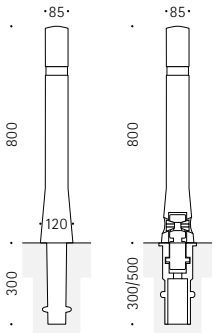
Removable with 3p-Technology

Alternative: concrete embedment

Finish

· Powder coating in standard RAL colours or DB 703

· Reflective tape protected in the recess



	Fixed mounting	3p-Technology
Bollard 069	**069.001**	**069.020**

CA

3p Technologie

BOLLARD 070

Cast aluminium | 880 mm

Specifications

Cylindrical cast aluminium bollards with a wide, circular recess at the top and a cylindrical base.

Mounting

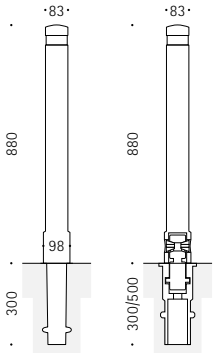
Removable with 3p-Technology

Alternative: concrete embedment

Finish

· Powder coating in standard RAL colours or DB 703

· Reflective tape protected in the recess

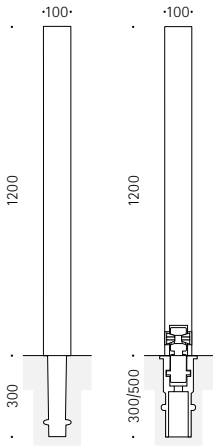


	Fixed mounting	3p-Technology
Bollard 070	**070.001**	**070.020**

CA

3p Technologie

For available accessories and special designs, refer to pages 158–160 →



BOLLARD 064

Cast aluminium | 1200 mm

Specifications

Square bollard made of cast aluminium with a flat top.

Mounting

Removable with 3p-Technology

Alternative: concrete embedment

Finish

Powder coating in standard RAL colours or DB 703

Note

The ground rosette is part of the delivery (3p-Technology)

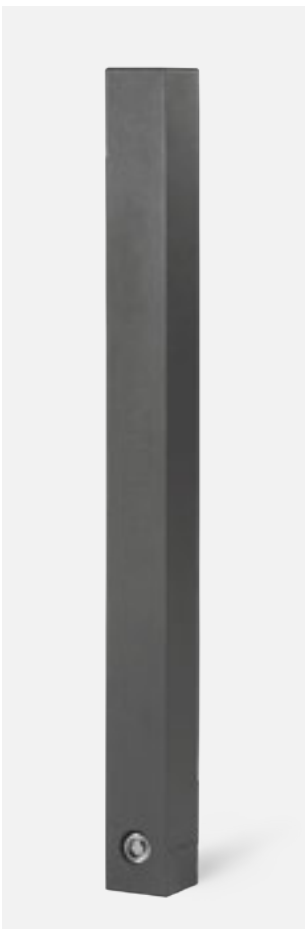
Completely covers the ground shell

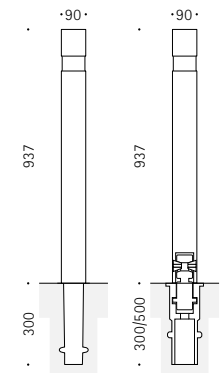
Material: S235 steel, hot-dip galvanised and powder-coated in bollard paint

	Fixed mounting	3p-Technology
Bollard 064	**064.001**	**064.020**

CA

3p Technologie





BOLLARD 071

Cast aluminium | 937 mm

Specifications

Square cast aluminium bollards with rounded corners, a wide circular recess at the top, and flat head piece.

Mounting

Removable with 3p-Technology

Alternative: concrete embedment

Finish

Powder coating in standard RAL colours or DB 703

Note

The ground rosette is part of the delivery (3p-Technology)

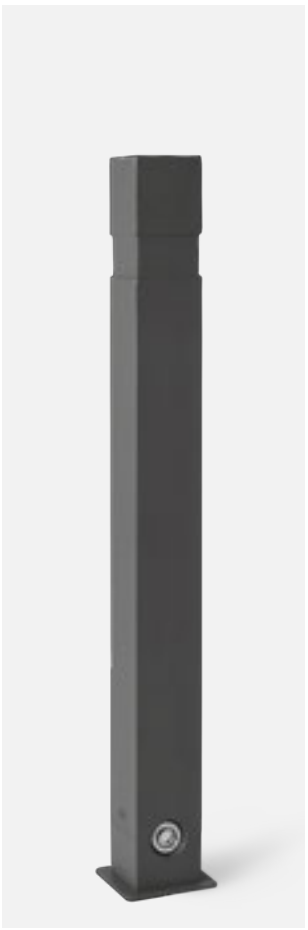
Completely covers the ground shell

Material: S235 steel, hot-dip galvanised and powder-coated in bollard paint

	Fixed mounting	3p-Technology
Bollard 071	**071.001**	**071.020**

CA

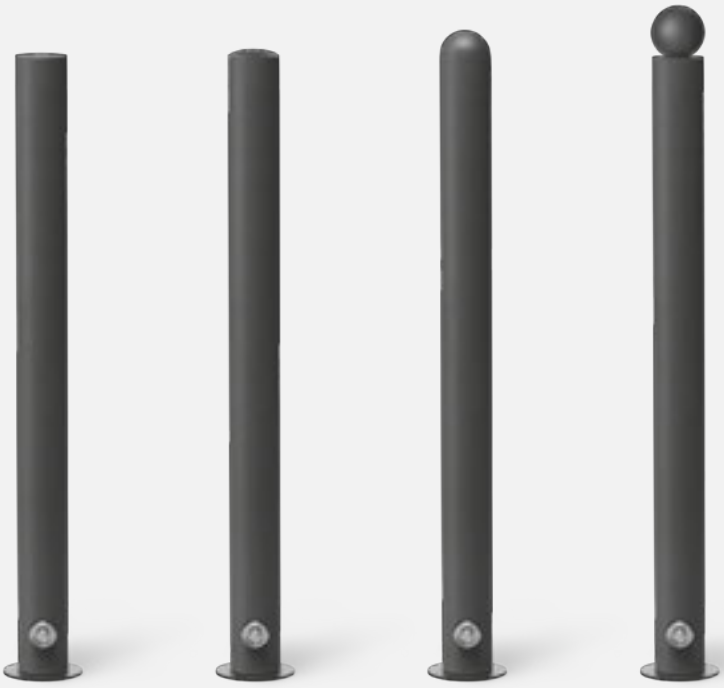
3p Technologie



Detailed information can be found on the catalogue's back cover fold-out →

BOLLARD 076

Steel

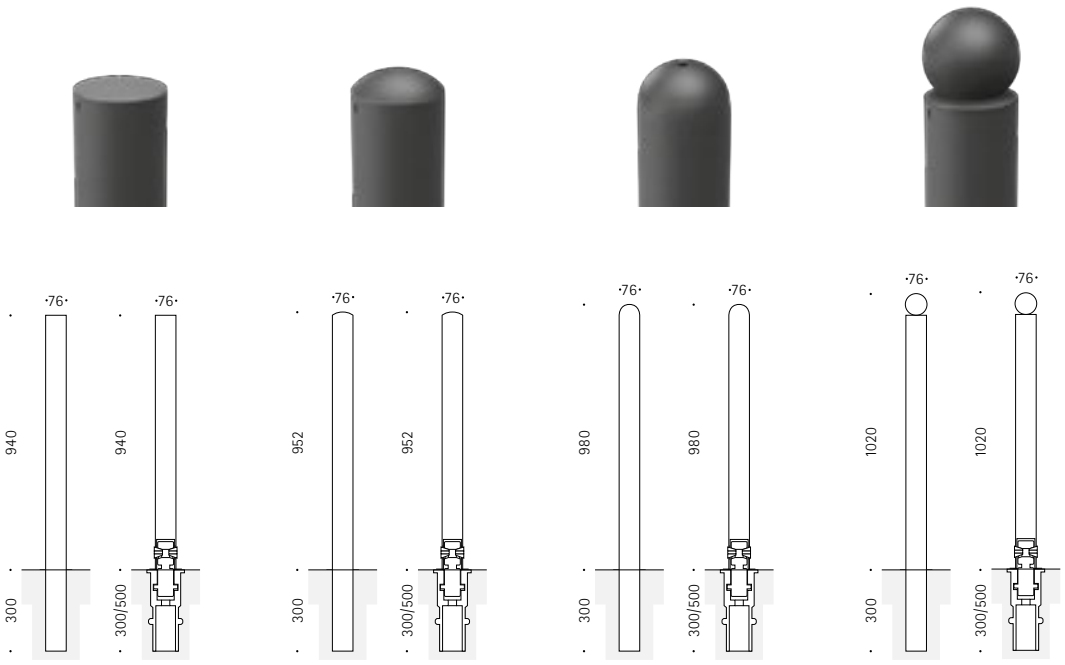


076-10 076-20 076-30 076-40

Diameter 76 mm:

Suitable for multipurpose clips to fasten signs, bins, dog waste containers etc.

Sample application



ST

3p Technologie

For available accessories and special designs, refer to pages 158–160 →

BOLLARD 076

Steel

Specifications

076-10 Cylindrical bollard made of galvanised steel with flat top.

076-20 Cylindrical bollard made of galvanised steel with slightly curved top.

076-30 Cylindrical bollard made of galvanised steel with round top.

076-40 Cylindrical bollard made of galvanised steel with a spherical top.

Mounting

Removable with 3p-Technology

Alternative: concrete embedment

Optional: with flange to enable screwing

Finish

· Steel S235, galvanised with powder coating in standard RAL colours or DB 703

· Stainless steel 1.4301 on request

· Suitable for multipurpose clips to fasten signs, bins, dog waste containers etc.

· Height can be adjusted on customer request

Note

The ground rosette is part of the delivery (for 3p-Technology)

Completely covers the ground shell

Material: S235 steel, hot-dip galvanised and powder-coated in bollard paint

	Top shape	Material	Fixed mounting	3p-Technology
Bollard 076-10	Flat	Steel S235, galvanised	**076.201**	**076.220**
		Steel S235, galvanised/powder-coated	**076.301**	**076.320**
Bollard 076-20	Slightly curved	Steel S235, galvanised	**076.001**	**076.020**
		Steel S235, galvanised/powder-coated	**076.101**	**076.120**
Bollard 076-30	Round	Steel S235, galvanised	**076.401**	**076.420**
		Steel S235, galvanised/powder-coated	**076.501**	**076.520**
Bollard 076-40	Spherical	Steel S235, galvanised/powder-coated	**076.701**	**076.720**

ST

3p Technologie

Detailed information can be found on the catalogue's back cover fold-out ➔

BOLLARD 042

042-1 | *Steel + Stainless steel* | *1000 mm*
042-2 | *Steel + Stainless steel* | *1200 mm*

Specifications

Cylindrical galvanised steel bollard with a slightly domed top.

Mounting

Removable with 3p-Technology

Alternative: concrete embedment

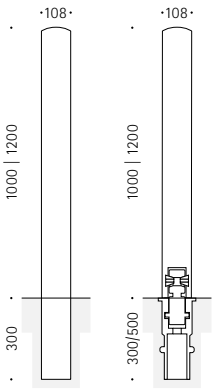
Optional: with flange to enable screwing

Finish

· Stainless steel 1.4301 smoothed, grain 240
Optional: electropolished/high-gloss

· Steel S235, galvanised with powder coating in standard RAL colours or DB 703

· Height can be adjusted on customer request



			Fixed mounting	3p-Technology	3p-High
Bollard 042-1	1000	Steel	**042.001**	**042.020**	**042.030**
Bollard 042-2	1200	Steel	**042.001.120**	**042.020.120**	**042.030.120**
Bollard 042-1	1000	Stainl. Steel	**042.101**	**042.120**	**042.130**
Bollard 042-2	1200	Stainl. Steel	**042.101.120**	**042.120.120**	**042.130.120**

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3p Technologie

BOLLARD 056

Steel + Stainless steel | *1000 mm*

Specifications

Fully cylindrical bollard made of galvanised steel/stainless steel, including a circumferential groove and a slightly domed top.

Mounting

Removable with 3p-Technology

Alternative: concrete embedment

Optional: with flange to enable screwing

Finish

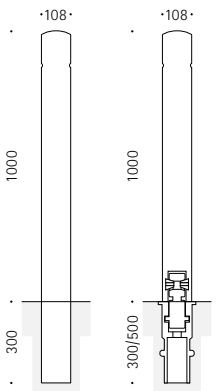
· Stainless steel 1.4301 smoothed, grain 240
Optional: electropolished/high-gloss

· Steel S235, galvanised with powder coating in standard RAL colours or DB 703

· Height can be adjusted on customer request

Note

Identical with Bollard 042, additionally: circumferential groove

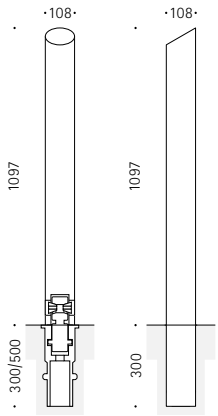


		Fixed mounting	3p-Technology	3p-High
Bollard 056	Steel	**056.001**	**056.020**	**056.030**
Bollard 056	Stainless steel	**056.101**	**056.120**	**056.130**

ST AISI

3p Technologie

For available accessories and special designs, refer to pages 158–160 ➔



BOLLARD 079

Steel + Stainless steel | 1097 mm

Specifications

Fully cylindrical bollard with a slanted top.

Mounting

Removable with 3p-Technology

Alternative: concrete embedment or with flange to enable screwing

Finish

· Stainless steel 1.4301 smoothed, grain 240
Optional: electropolished/high-gloss

· Steel S235, galvanised with powder coating in standard RAL colours or DB 703

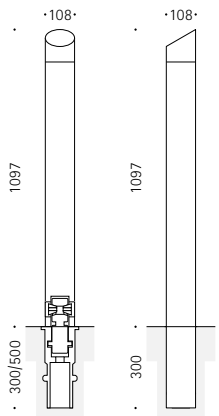
· Height can be adjusted on customer request

Note

Also available with a cigarette slot, see Bollard-Ashtray 525

	Fixed mounting	3p-Technology	For screwing
Bollard 079 Steel S235	**079.201**	**079,220**	**079.240**
Bollard 079 Stainless steel	**079.301**	**079.320**	**079.340**

ST AISI 2020 3p Technologie



BOLLARD-ASHTRAY 525

Steel + Stainless steel | 1097 mm

Specifications

Fully cylindrical bollard ashtray with a sloping slot area. Labelling in the form of an outlined, laser-printed cigarette symbol.

Mounting

Removable with 3p-Technology

Alternative: concrete embedment or with flange to enable screwing

Finish

· Stainless steel 1.4301 smoothed, grain 240
Optional: electropolished/high-gloss

· Steel S235, galvanised with powder coating in standard RAL colours or DB 703

· May be unlocked for emptying using a triangular key

· Height can be adjusted on customer request

	Fixed mounting	3p-Technology	For screwing
525 Steel S235	**525.001**	**525.020**	**525.040**
525 Stainless steel 1.4301	**525.011**	**525.022**	**525.140**

ST AISI 3p Technologie

Detailed information can be found on the catalogue's back cover fold-out →

BOLLARD 059

Steel | 900 mm

Specifications

Square bollard made of flat steel with two open sides, a horizontal divider in the middle, and a solid base.

Mounting

Removable with 3p-Technology

Alternative: concrete embedment

Finish

· Steel S235, galvanised with powder coating in standard RAL colours or DB 703

· Height can be adjusted on customer request

Note

The ground rosette is part of the delivery (3p-Technology)

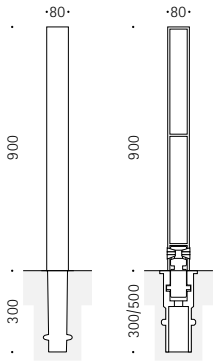
Completely covers the ground shell

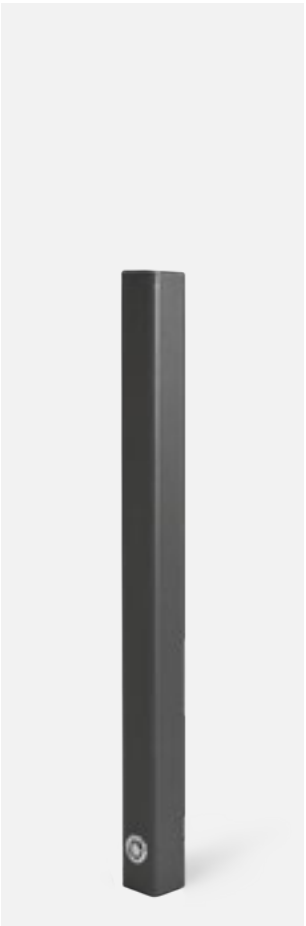
Material: S235 steel, hot-dip galvanised and powder-coated in bollard paint

		Fixed mounting	3p-Technology
Bollard 059	Galvanised	**059.001**	**059.020**
Bollard 059	Powder-coated	**059.101**	**059.120**

ST

3p Technologie





BOLLARD 066

Steel | 900 mm

Specifications

Square steel bollard with slightly rounded corners and a flat, square top.

Mounting

Removable with 3p-Technology

Alternative: concrete embedment

Finish

· Steel S235, galvanised with powder coating in standard RAL colours or DB 703

· Height can be adjusted on customer request

Note

The ground rosette is part of the delivery (3p-Technology)

Completely covers the ground shell

Material: S235 steel, hot-dip galvanised and powder-coated in bollard paint

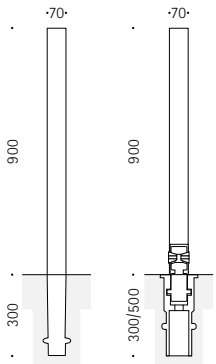
		Fixed mounting	3p-Technology
Bollard 066	Galvanised	**066.001**	**066.020**
Bollard 066	Powder-coated	**066.101**	**066.120**

ST

3p Technologie

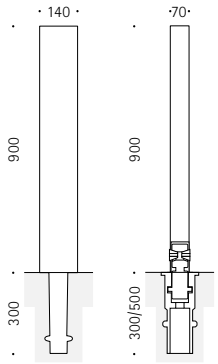
Bollard 066 also available as **Lighting Bollard 266 LED**

(see p. 75)



For available accessories and special designs, refer to pages 158–160 ➔

Bollard 065 also available as
Lighting Bollard 265 LED
(see p. 74)



BOLLARD 065

Steel | 900 mm

Specifications

Rectangular bollard made of steel with a flat top.

Mounting

Removable with 3p-Technology

Alternative: concrete embedment

Finish

· Steel S235, galvanised with powder coating in standard RAL colours or DB 703

· Height can be adjusted on customer request

Note

The ground rosette is part of the delivery (3p-Technology)

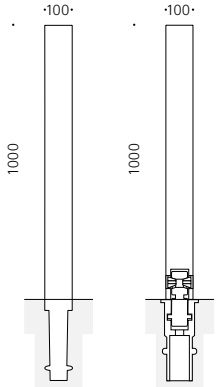
Completely covers the ground shell

Material: S235 steel, hot-dip galvanised and powder-coated in bollard paint

	Fixed mounting	3p-Technology
Bollard 065	**065.001**	**065.020**

ST

3p Technologie



BOLLARD 063

Steel | 1000 mm

Specifications

Square bollard made of galvanised steel with rounded corners (approx. 15 mm radius) and a flat top.

Mounting

Removable with 3p-Technology

Alternative: concrete embedment

Finish

· Steel S235, galvanised with powder coating in standard RAL colours or DB 703

· Height can be adjusted on customer request

Note

The ground rosette is part of the delivery (3p-Technology)

Completely covers the ground shell

Material: S235 steel, hot-dip galvanised and powder-coated in bollard paint

	Fixed mounting	3p-Technology
Bollard 063	**063.001**	**063.020**

ST

3p Technologie

Detailed information can be found on the catalogue's back cover fold-out ➔

BOLLARD 089

Steel + Stainless steel | 750 mm

Specifications

Fully cylindrical bollard made of galvanised steel/stainless steel, with a slightly curved top end.

Mounting

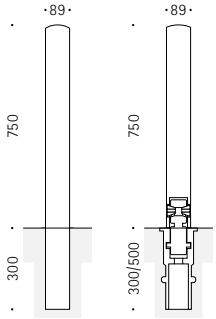
Removable with 3p-Technology

Alternative: concrete embedment

Optional: with flange to enable screwing

Finish

- Stainless steel 1.4301 smoothed, grain 240
  Optional: electropolished/high-gloss or glass bead blasted
- Steel S235, galvanised with powder coating in standard RAL colours or DB 703
- Height can be adjusted on customer request



		Fixed mounting	3p-Technology
Bollard 089	Steel	**089.001**	**089.020**
Bollard 089	Stainless steel	**089.101**	**089.120**

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3p Technologie

BOLLARD 074

Stahl + Stainless steel | 1000 mm

Specifications

Square steel bollard with slightly pyramidal square top.

Mounting

Removable with 3p-Technology

Alternative: concrete embedment

Finish

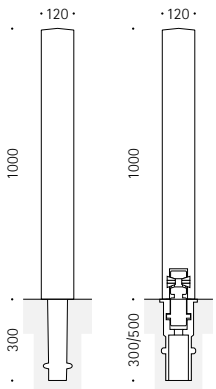
- Stainless steel 1.4301 smoothed, grain 240
  Optional: electropolished/high-gloss
- Steel S235, galvanised with powder coating in standard RAL colours or DB 703
- Height can be adjusted on customer request

Note

The ground rosette is part of the delivery (3p-Technology)

Completely covers the ground shell

Material: S235 steel, hot-dip galvanised and powder-coated in bollard paint



		Fixed mounting	3p-Technology
Bollard 074	Steel	**074.001**	**074.020**
Bollard 074	Stainless steel	**074.101**	**074.120**

ST AISI

3p Technologie

For available accessories and special designs, refer to pages 158–160 ➔

BOLLARD 037-2 | 055-2

037-2 | *Steel* | *220 · 720 mm*
055-2 | *Steel* | *180 · 600 mm*

Specifications

Cylindrical bollard made of steel with a slightly domed top.

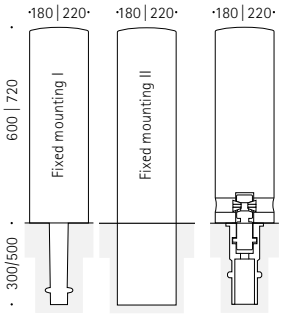
Mounting

Removable with 3p-Technology

Alternative: concrete embedment (see illustration Fixed mounting I and II)

Finish

· Steel S235, galvanised with powder coating in standard RAL colours or DB 703
· Stainless steel 1.4301 on request
· 2 fixed installation versions (see illustration Fixed mounting I and II)
· Height can be adjusted on customer request



		Fixed mounting I	Fixed mounting II	3p-Technology
Bollard 037-2	220 · 720 mm	**037.101**	**037.102**	**037.120**
Bollard 055-2	180 · 600 mm	**055.101**	**055.102**	**055.120**

ST

3p Technologie

1–3 BOLLARD 037-2
with 3p-Technology
DB 703, 220 · 720 mm
Art. N° 037.120
Esch-Belval *Luxembourg*

Detailed information can be found on the catalogue's back cover fold-out →

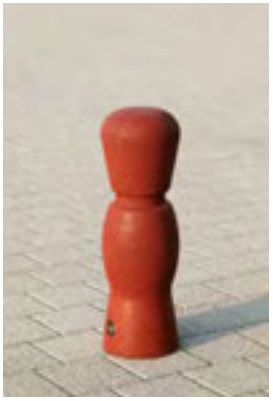
FUNCTION BOLLARDS & LIGHTING BOLLARDS

1: Lighting-Bollard 210 LED *page 70* | **2: Lighting-Bollard 220 LED** *page 71*
3: Feeder-Bollard 300-2 *page 69*

- **Suitable for playgrounds and sports fields**
- **Low risk of injury due to rubber granulate**
- **High stability due to internal steel tube**
- **Can be used as seat**

BOLLARD 026

026-1 | *Rubber granulate* | *600 mm*
026-2 | *Rubber granulate* | *900 mm*



Specifications

Dual waisted bollard made of rubber granulate with a distinct top, middle and base section.

Mounting

Removable with 3p-Technology

Alternative: concrete embedment

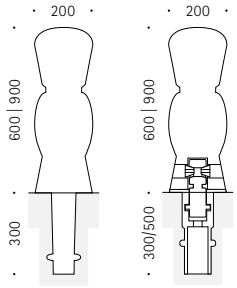
Finish

- Rubber granulate (anthracite)
- Available colours (not RAL): reddish-brown (see photo), grey, green

		Fixed mounting	3p-Technology
Bollard 026-1	600 mm	**026.001**	**026.020**
Bollard 026-2	900 mm	**026.101**	**026.120**

RUB

3p Technologie



SEATING-BOLLARD 105

Cast aluminium | *450 mm*

Specifications

One-piece seat bollard made of cast aluminium with small diamond-shaped apertures in the circular seat supported by a cylindrical leg, tapering slightly at the base.

Mounting

Removable with 3p-Technology

Alternative: concrete embedment

Finish

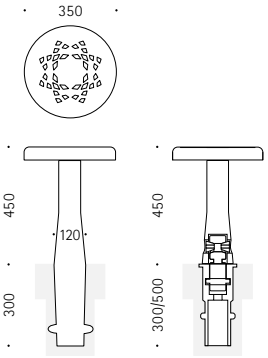
- Powder coating in standard RAL colours or DB 703
- Other colours available on request at a surcharge

Design: Charles O. Job | Registered design 129813

	Fixed mounting	3p-Technology
Seating-Bollard 105	**105.001**	**105.101**

CA

3p Technologie



For available accessories and special designs, refer to pages 158–160 →

BOLLARD-ASHTRAY 525

Steel + Stainless steel | 1097 mm

Specifications

Fully cylindrical bollard ashtray with a sloping slot area. Labelling in the form of an outlined, laser-printed cigarette symbol.

Mounting

Removable with 3p-Technology

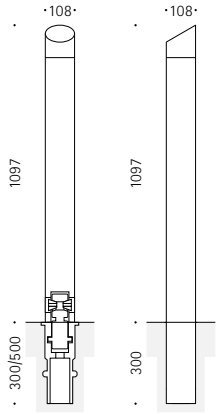
Alternative: concrete embedment or with flange to enable screwing

Finish

- Stainless steel 1.4301 smoothed, grain 240
  Optional: electropolished/high-gloss
- Steel S235, galvanised with powder coating in standard RAL colours or DB 703
- May be unlocked for emptying using a triangular key
- Height can be adjusted on customer request

Note

Identical with Bollard 079 (without ashtray), *see page 59*



		Fixed mounting	3p-Technology	For Screwing
Bollard-Ashtray 525	Steel	**525.001**	**525.020**	**525.040**
Bollard-Ashtray 525	Stainless steel	**525.011**	**525.022**	**525.140**

ST AISI

3p Technologie

The only bollard ashtray with predetermined breaking point

Detailed information can be found on the catalogue's back cover fold-out →

FEEDER-BOLLARD 300-1

Steel | 1335 mm

Specifications

Cylindrical tube with two grooves at the top and a flattened upper end. Access to the internal circuit via a lockable door, including cable slide. IP Code IP44.

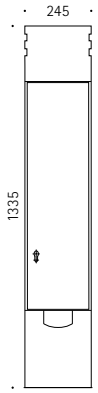
Mounting

Screw-on inside the bollard

Finish

- Hot-dip galvanised steel S235, cast aluminium top, powder coating in standard RAL colours or DB 703
- Standard design with adapter plate without electricity and water connections
- Incl. cable slide (operation possible with the flap closed)

Equipment with either electrical or water connection possible at an additional cost.



	Fixed mounting
Feeder-Bollard 300-1	**300.010**

ST

FEEDER-BOLLARD 300-1
EII *Luxembourg*

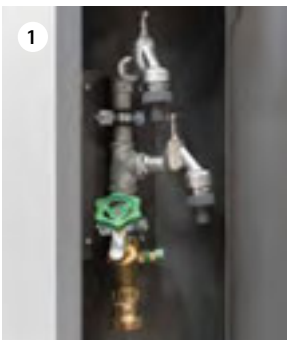
FEEDER-BOLLARD 300-1 AND 300-2

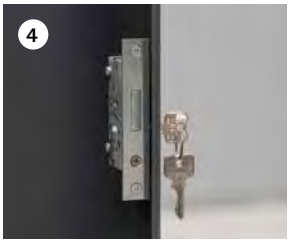
1 **Fittings for electrical or water connection (optional)**
Example: Water connection with two 3/4" tapping points with hose coupling and an emptying facility before periods of frost.

2 **Incl. cable feeder**
Wires can be led out through the cable feeder, enabling operation even when the flap is closed.

3 **Lockable access panel**
With profile cylinder lock

4 **Delivery incl. 3 keys**





For available accessories and special designs, refer to pages 158–160 →

FEEDER-BOLLARD 300-2

Steel | 1340 mm

Specifications

Cylindrical tube with a circumferential set-on ring in the top section as well as a hemispherical upper closure. Access to the internal circuit via a lockable door, including cable slide. IP Code IP44.

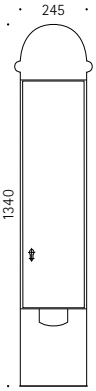
Mounting

Screw-on inside the bollard

Finish

- Hot-dip galvanised steel S235, cast aluminium top, powder coating in standard RAL colours or DB 703
- Standard design with adapter plate without electricity and water connections
- Incl. cable slide (operation possible with the flap closed)

Equipment with either electrical or water connection possible at an additional cost.



	Fixed mounting
Feeder-Bollard 300-2	**300.020**

ST

1 **FEEDER-BOLLARD 300-2**
Daun *Germany*

2 **FEEDER-BOLLARD 300-1/ FEEDER-BOLLARD 300-2**
Mersch *Luxembourg*

Detailed information can be found on the catalogue's back cover fold-out →

LED – BLAZING ROLE MODELS

The LED lighting bollards 210, 220, 230 and 240 are setting an example in matters of energy consumption. With a power consumption of less than 4 watts per hour, they significantly reduce the urban electricity costs compared to conventional light sources.

All these models are available with 3p-Technology only.

LIGHTING-BOLLARD 210 LED

Cast aluminium | 870 mm

Specifications

Fully cylindrical lighting bollard made of cast aluminium with a flat top. With LED lighting in the head section, 2 LED strips each with 14 LEDs and Perspex diffuser (PMMA). Operated with 24 V extra-low voltage, 2 m connector cable with plug coupling in the base. IP Code IP67.

Mounting

Available only with 3p-Technology

Finish

Powder coating in standard RAL colours or DB 703

Technical information

- Light unit: 2 LED strips, each with 14 LEDs
- Power supply: 24 Volt DC
- Power input: 4 W
- Luminous flux: approx. 430 lm
- Beam angle: vertical 360°, horizontal approx. 120°
- Light colour: 6000 K, 4000 K or 2700 K
- IP Code: IP67

Note

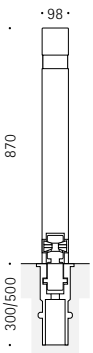
- Including power cable, consisting of a bollard-sided cable with a plug (IP67, 50 cm) and a ground-sided cable with a socket (IP67, 150 cm).
- Technical components for power supply and control are not included. The connection has to be made by the customer.

Identical with Bollard 031-1, *see page 32*

			3p-Technology
Lighting-Bollard 210 LED	6000 K	Cool white	**210.020**
Lighting-Bollard 210 LED	4000 K	Neutral white	**210.120**
Lighting-Bollard 210 LED	2700 K	Warm white	**210.220**

CA LED

3p Technologie



For available accessories and special designs, refer to pages 158–160 ➔

No risk of electric shock

due to low 24 V voltage

ADVANTAGES AT A GLANCE

- Significantly lower power consumption by LEDs
- Considerably longer life than conventional light sources
- LED unit is replaceable
- No risk of electric shock, since safety extra-low voltage
- The junction piece can be replaced in a few minutes only
- Quick disassembly for short-term space requirements
- Ground shell can be covered, therefore no risk of tripping

LIGHTING-BOLLARD 220 LED

Cast aluminium | 180 · 600 mm

Specifications

Fully cylindrical lighting bollard made of cast aluminium with a flat top. With LED lighting in the lower section, 1 LED strip of 21 LEDs and acrylic glass diffuser (PMMA). Operated with 24 V extra-low voltage, 2 m connector cable with plug coupling in the base. IP Code IP67.

Mounting

Available only with 3p-Technology

Finish

Powder coating in standard RAL colours or DB 703

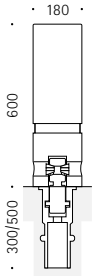
Technical information

· Light unit: 1 LED strip of 21 LEDs
· Power supply: 24 Volt DC
· Power input: 3 W
· Luminous flux: approx. 320 lm
· Beam angle: vertical 360°, horizontal approx. 120°
· Light colour: 6000 K, 4000 K or 2700 K
· IP Code: IP67

Note

· Including power cable, consisting of a bollard-sided cable with a plug (IP67, 50 cm) and a ground-sided cable with a socket (IP67, 150 cm).
· Technical components for power supply and control are not included. The connection has to be made by the customer.

Identical with Bollard 055-1, *see page 53*



			3p-Technology
Lighting-Bollard 220 LED	6000 K	Cool white	**220.020**
Lighting-Bollard 220 LED	4000 K	Neutral white	**220.120**
Lighting-Bollard 220 LED	2700 K	Warm white	**220.220**

CA LED

3p Technologie

Detailed information can be found on the catalogue's back cover fold-out ➔

LIGHTING-BOLLARD 230 LED

Cast aluminium | 150 · 1000 mm

Specifications

Continuous cylindrical light bollard made of cast aluminium with a flat top. With LED lighting in the head section, 1 LED strip of 21 LEDs and acrylic glass diffuser (PMMA). Operated with 24 V extra-low voltage, 2 m connector cable with plug coupling in the base. IP Code IP67.

Mounting

Available only with 3p-Technology

Finish

Powder coating in standard RAL colours or DB 703

Technical information

· Light unit: 1 LED strip of 21 LEDs
· Power supply: 24 Volt DC
· Power input: 3 W
· Luminous flux: approx. 320 lm
· Beam angle: vertical 360°, horizontal approx. 120°
· Light colour: 6000 K, 4000 K or 2700 K
· IP Code: IP67

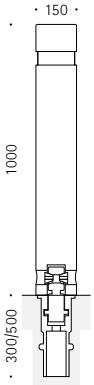
Note

· Including power cable, consisting of a bollard-sided cable with a plug (IP67, 50 cm) and a ground-sided cable with a socket (IP67, 150 cm).
· Technical components for power supply and control are not included. The connection has to be made by the customer.

Identical with Bollard 057, *see page 52*

			3p-Technology
Lighting-Bollard 230 LED	6000 K	Cool white	**230.020**
Lighting-Bollard 230 LED	4000 K	Neutral white	**230.120**
Lighting-Bollard 230 LED	2700 K	Warm white	**230.220**

CA LED 3p Technologie



For available accessories and special designs, refer to pages 158–160 ➔

LIGHTING-BOLLARD 240 LED

Cast aluminium | 870 mm

Specifications

Cylindrical cast aluminium bollard with three circumferential grooves and a conical base. Ring-shaped installation of six LED spotlights in V4A stainless steel casing between the first and second groove. Operated with 12 V DC safety extra-low voltage, 2 m connector cable with plug coupling in the base. IP Code IP67.

Mounting

Available only with 3p-Technology

Finish

Powder coating in standard RAL colours or DB 703

Technical information

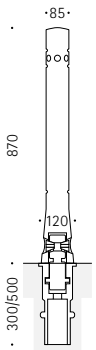
- Light unit: 6 x LED spotlights, Ø 25 mm
- Power supply: 12 Volt DC
- Power input: 1.5 W (6 x 0.25 W)
- Luminous flux: 6 x approx. 16 lm
- Beam angle: vertical 360°, horizontal approx. 120°
- Light colour: 5000 K (cool white), 2700 K (warm white)
- IP Code: IP67

Note

- Including power cable, consisting of a bollard-sided cable with a plug (IP67, 50 cm) and a ground-sided cable with a socket (IP67, 150 cm).
- Technical components for power supply and control are not included. The connection has to be made by the customer.

Identical with Bollard 008, *see page 29*

Design: hammerl runge.design | Registered design M 98017470



			3p-Technology
Lighting-Bollard 240 LED	5000 K	Cool white	**240.020**
Lighting-Bollard 240 LED	2700 K	Warm white	**240.120**

CA LED

3p Technologie

Detailed information can be found on the catalogue's back cover fold-out →

Lighting-Bollard 265 LED-A

LIGHTING-BOLLARD 265 LED

Steel | 900 mm

Specifications

Lighting-Bollard 265 LED-A:
Rectangular steel bollard with a flat top and a vertical LED light strip (650 mm) on both narrow sides. Each with 2 LED strips, acrylic glass (PMMA) diffuser, operated using 24 V safety extra-low voltage, 2 m connector cable with plug socket at the base of the bollard. IP Code IP67.

Lighting-Bollard 265 LED-B:
Rectangular steel bollard with a flat top and a vertical LED light strip (550 mm) on both wide sides. Each with 2 LED strips, acrylic glass (PMMA) diffuser, operated using 24 V safety extra-low voltage, 2 m connector cable with plug socket at the base of the bollard. IP Code IP67.

Mounting

Removable with 3p-Technology

Optional: with flange to enable screwing

Finish

- Steel S235, galvanised with powder coating in standard RAL colours or DB 703
- Height can be adjusted on customer request

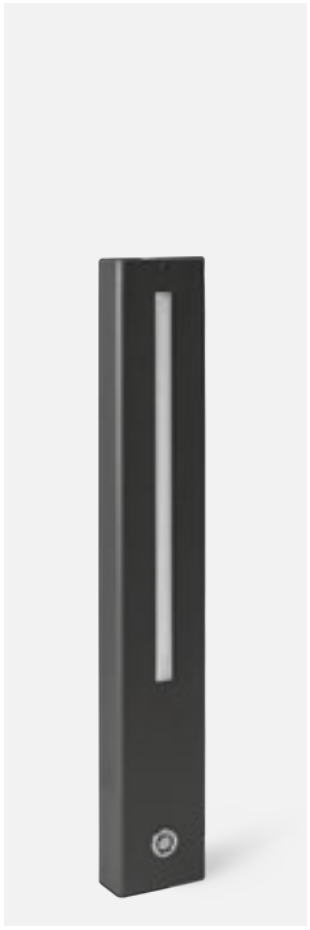
Technical information

- Light unit: 2 LED strips (550 mm/650 mm)
- Power supply: 24 Volt DC
- Power input (max.): approx. 2 × 8 W (550 mm) resp. approx. 2 × 9.5 W (650 mm)
- Luminous flux (max.): approx. 2 × 360 lm (550 mm) resp. approx. 2 × 430 lm (650 mm)
- Beam angle: 120°
- Light colour: RGB + white (4000 K)
- IP Code: IP67

Note

- Including power cable, consisting of a bollard-sided cable with a plug (IP67, 50 cm) and a ground-sided cable with a socket (IP67, 150 cm).
- Technical components for power supply and control are not included. The connection has to be made by the customer.
- The ground rosette is part of the delivery (for 3p-Technology)
  Completely covers the ground shell
  Material: S235 steel, hot-dip galvanised and powder-coated in bollard paint

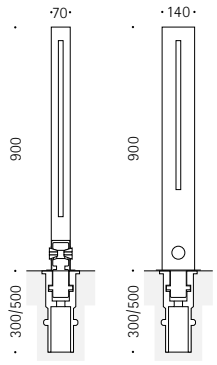
Identical with Bollard 065, *see page 61*



Lighting-Bollard 265 LED-B

		3p-Technology
Lighting-Bollard 265 LED-A	RGB + white (4000 K)	**265.120**
Lighting-Bollard 265 LED-B	RGB + white (4000 K)	**265.220**

ST LED 3p Technologie



For available accessories and special designs, refer to pages 158–160 →

LIGHTING-BOLLARD 266 LED

Steel | 900 mm

Specifications

Square steel bollard with a flat top and a vertical LED light strip (650 mm) on two opposite sides. Each with 2 LED strips, acrylic glass (PMMA) diffuser, operated using 24 V safety extra-low voltage, 2 m connector cable with plug socket at the base of the bollard. IP Code IP67.

Mounting

Removable with 3p-Technology

Optional: with flange to enable screwing

Finish

· Steel S235, galvanised with powder coating in standard RAL colours or DB 703

· Height can be adjusted on customer request

Technical information

· Light unit: 2 LED strip (650 mm)

· Power supply: 24 Volt DC

· Power input (max.): approx. 2 × 8.5 W

· Luminous flux (max.): approx. 2 × 430 lm

· Beam angle: 120°

· Light colour: RGB + 4000 K

· IP Code: IP67

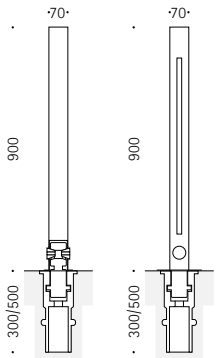
Note

· Including power cable, consisting of a bollard-sided cable with a plug (IP67, 50 cm) and a ground-sided cable with a socket (IP67, 150 cm).

· Technical components for power supply and control are not included. The connection has to be made by the customer.

· The ground rosette is part of the delivery (for 3p-Technology) Completely covers the ground shell Material: S235 steel, hot-dip galvanised and powder-coated in bollard paint

Identical with Bollard 066, *see page 60*



		3p-Technology
Lighting-Bollard 266 LED	RGB + white (4000 K)	**266.120**

ST LED 3p Technologie

Detailed information can be found on the catalogue's back cover fold-out →

Feeder-Bollard 300-2 *page 69*

LIGHTING-BOLLARD 267 LED

Steel | 1060 mm

Specifications

Fully cylindrical lighting bollard made of steel with a flat top. Lighting unit, consisting of a light fixture with 4 LED strips and a diffuser made of satined acrylic glass. Operates with 24 V safety extra-low voltage. 2 m power cable with plug and socket coupling in the lower part of the bollard. IP Code IP67.

Mounting

Removable with 3p-Technology

Optional: with flange to enable screwing

Finish

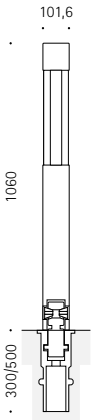
- Steel S235, galvanised with powder coating in standard RAL colours or DB 703
- Height can be adjusted on customer request

Technical information

- Light unit: 4 LED strips with a length of approx. 30 cm each
- Power supply: 24 volt DC
- Power input (max.): 11,5 W
- Luminous flux (max.): approx. 960 lm approx. 960 lm (lighting unit, without diffusor)
- Beam angle: 360°
- Light colour: 4000 K (white)
- IP Code: IP67 at the base

Note

- Including power cable, consisting of a bollard-sided cable with a plug (IP67, 50 cm) and a ground-sided cable with a socket (IP67, 150 cm).
- Technical components for power supply and control are not included. The connection has to be made by the customer.



			3p-Technology
Lighting-Bollard 267 LED	4000 K	Neutral white	**267.020**

ST LED 2020

3p Technologie

Detailed information can be found on the catalogue's back cover fold-out ➔

LIGHTING-BOLLARD 200

Stainless steel | 620 mm

Specifications

Fixed mounting: Cylindrical stainless-steel lighting bollard as permanent fixtures. With satined or clear acryl glass. Reflective slats surround the light unit. With standard lighting. Internal cable plus electric ballast for connection to a 230 Volt (AC) power source. IP Code IP54.

Mounting

Screw-on (fixed mounting)

Finish

- Stainless steel 1.4301 smoothed, grain 240
- Stainless steel 1.4301 with powder coating in standard RAL colours or DB 703
- Available with satined or clear acryl glass
- Supplied with standard Dulux D/E 13 watts TC-DEL lighting (26 watts available on request with a surcharge)
- Lower fitting: hexagon shell safety screws with pin, incl. key

Note

- Including power cable, consisting of a bollard-sided cable with a plug (IP67, 50 cm) and a ground-sided cable with a socket (IP67, 150 cm).
- Technical components for power supply and control are not included. The connection has to be made by the customer.

	Light unit	Acryl glass	Finish	Fixed mounting
Lighting-Bollard 200	standard	Clear	Pickled/smoothed	**200.001**
Lighting-Bollard 200	standard	Satined	Pickled/smoothed	**200.010**
Lighting-Bollard 200	standard	Clear	Powder coating	**201.001**
Lighting-Bollard 200	standard	Satined	Powder coating	**201.010**

AISI

Technical information
(Standard lighting)

- Light unit: Osram Dulux TC-DEL 13 watts
- Connection voltage: 230 Volt AC
- Luminous flux: 900 lm
- Light colour: 830 K (warm white)
- Protection class 1, IP Code IP54

Stainless steel, satined acryl glass

For available accessories and special designs, refer to pages 158–160 ➔

LIGHTING-BOLLARD 200 LED

Stainless steel | 620 mm

Specifications

Fixed mounting: Cylindrical stainless-steel lighting bollard as permanent fixtures. With satined or clear acryl glass. Reflective slats surround the light unit. With energy efficient LED technology. Internal cable plus electric ballast for connection to a 230 Volt (AC) power source. IP Code IP54.

Mounting

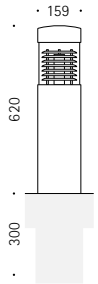
Screw-on (fixed mounting)

Finish

- Stainless steel 1.4301 smoothed, grain 240
- Stainless steel 1.4301 with powder coating in standard RAL colours or DB 703
- Available with satined or clear acryl glass
- Supplied with LED stick with 3 x 3 LEDs
- Lower fitting: hexagon shell safety screws with pin, incl. key

Note

- Including power cable, consisting of a bollard-sided cable with a plug (IP67, 50 cm) and a ground-sided cable with a socket (IP67, 150 cm).
- Technical components for power supply and control are not included. The connection has to be made by the customer.



	Light unit	Acryl glass	Finish	Fixed mounting
Lighting-Bollard 200 LED	LED stick	Clear	Pickled/smoothed	**200.101**
Lighting-Bollard 200 LED	LED stick	Satined	Pickled/smoothed	**200.110**
Lighting-Bollard 200 LED	LED stick	Clear	Powder coating	**201.101**
Lighting-Bollard 200 LED	LED stick	Satined	Powder coating	**201.110**

AISI LED

LED, Stainless steel, clear acryl glass

Technical information
(LED stick)

- Light unit: LED stick with 3 x 3 LEDs
- Connection voltage: 230 Volt AC
- Power: 9 watts (incl. 11 watts driver unit)
- Luminous flux: 1000 lm
- Max. power input: 350 mA
- Light colour: 3000 K (warm white)
- Protection class 1, IP Code IP54

Detailed information can be found on the catalogue's back cover fold-out ➔

03

BENCHES & TABLES

Since park benches are meant to invite passers-by to rest and relax, they should be comfortable. Located in public parks or squares they add to the urban space with their aesthetic appearance. In public places, the bench is not only a resting place or viewpoint: meeting others, communicating with people of different ages, strangers before, symbolise the function of the bench in the urban context.

ABES benches are a tasteful composition of robust steel, stainless steel and aluminium frames, which – combined with wooden, steel and stainless steel supports – make a finely designed outdoor furniture. Weatherproof materials and solid anchoring to the ground protect the benches from vandalism and can be installed all year round.

1: Bench 100 *page 90* | **2: Bench 141-1** *page 84* | **3: Seating-Bollard 105** *page 101*

		100	103	103	104	107-1	107-2
		With back rest	With wooden supports	With stainless steel supports	Modular	Round tube frame	
Catalogue page		**90**	**93**	**92**	**96-97**	**94**	
NEW 2020				2020			
Model	Bench without back rest	-	-	-	■	■	-
	Bench with back rest	■	■	■	-	-	■
	Stool	-	-	-	■	-	-
	Chair	-	-	-	-	-	-
	Table	-	-	-	-	-	-
Material	Cast aluminium (with powder coating)	-	-	-	■	-	-
	Steel S235 (galvanised with powder coating)	■	■	-	-	■	■
	Stainless steel 1.4301 (smoothed, grain 240)	■	■	■	-	■	■
	Modular configuration	-	-	-	■	-	-
Mounting	For screwing	■	■	■	■	■	■
	For concrete embedding	-	-	-	-	■	■
	Free standing	■	■	■	■	(■)	(■)
	Removable with 3p-Technology	-	-	-	-	-	-
Options	Individual color (RAL/DB)	○	○	○	○	○	○
	Individual length	○	-	-	-	-	-
	Individual (seat) height	-	○	○	-	○	○
	Individual wooden slats	○	○	-	-	-	-
Measurements	Total width (mm)	1700	2380	2380	modular	1585	1585
	Total height (mm)	740	835	835	modular	576	840
	Total depth (mm)	760	730	730	modular	340	522
	Seat width (mm)	1700	2380	2380	modular	1500	1500
	Seat height (mm)	420	430	430	452	437	437
	Weight (approx. in kg)	79	62,5	90	modular	26	46
	Design	hammer.runge.design	Charles O. Job	Charles O. Job			

		142-1		142-2		143-1		143-2		143	144-1	144-2	144
		Without back rest		With back rest		Without back rest		With back rest		Table	Without back rest	With back rest	Table
Catalogue page		**85**				**86**					**87**		
NEW 2020													
Model	Bench without back rest	■	-	-	-	■	-	-	-	-	■	-	-
	Bench with back rest	-	-	■	-	-	-	■	-	-	-	■	-
	Stool	-	■	-	-	-	■	-	-	-	-	-	-
	Chair	-	-	-	■	-	-	-	■	-	-	-	-
	Table	-	-	-	-	-	-	-	-	■	-	-	■
Material	Cast aluminium (with powder coating)	-		-		-		-		-	-	-	-
	Steel S235 (galvanised with powder coating)	■		■		■		■		■	■	■	■
	Stainless steel 1.4301 (smoothed, grain 240)	-		-		-		-		-	-	-	-
	Modular configuration	-		-		-		-		-	-	-	-
Mounting	For screwing	■		■		■		■		■	■	■	■
	For concrete embedding	-		-		■		■		■	■	■	■
	Free standing	-		-		■		■		■	-	-	-
	Removable with 3p-Technology	-		-		-		-		-	-	-	-
Options	Individual color (RAL/DB)	○		○		○		○		○	○	○	○
	Individual length	○		○		○		○		○	○	○	○
	Individual (seat) height	-		-		○		○		○	○	○	○
	Individual wooden slats	○		○		○		○		○	○	○	○
Measurements	Total width (mm)	2002	722	2002	722	1590/1890	610	1590/1890	610	1587	1587	1587	1587
	Total height (mm)	550	550	821	821	453	453	823	823	750	453	813	750
	Total depth (mm)	440	440	542	542	444	444	544	544	735	400	544	735
	Seat width (mm)	1800	520	1800	520	1500/1800	520	1500/1800	520	-	1500	1500	-
	Seat height (mm)	453	453	453	453	453	453	453	453	-	453	453	-
	Weight (approx. in kg)	22	16	27	20	18	13	23	16	31	18	23	31
	Design	Stefan Wehrmann 3Dsign				Stefan Wehrmann 3Dsign					Stefan Wehrmann 3Dsign		

■ = Model | ● = Finish | ○ = Option (with a surcharge) | - = Not available

109-1	**109-2**	**121-1**	**121-2**	**131**	**141-1**	**141-2**
Rectangular tube frame		Without back rest	With back rest	Without back rest	Without back rest	With back rest
95		**99/100**		**98/100**	**84**	
2020						
■	-	■	-	■	■	-
-	■	-	■	-	-	■
-	-	-	-	-	-	-
-	-	-	-	-	-	-
-	-	-	-	-	-	-
-	-	■	■	■	-	-
■	■	-	-	-	■	■
■	■	-	-	-	-	-
-		■	■	■	-	-
■	■	-	-	-	■	■
■	■	■	■	■	-	-
-	-	-	-	-	-	-
■	■	■	■	■	-	-
○	○	○		○	○	○
-	-	-	-	-	○	○
○	○	-	-	-	-	-
-	-	-	-	○	○	○
1585	1585	2060	2060	2060	2240	2240
576	840	458	820	450	453	823
340	522	340	528	340	430	537
1500	1500	1500	1500	1500	1800	1800
437	437	458	458	450	453	453
26	46	48	61	48	22	27
		hammer.runge.design		hammer.runge.design	Stefan Wehrmann	

145		**146-1**	**146-2**	**147**	**105**	**108**	**1.120**
Stool	Table	Without back rest	With back rest	With back rest	Seating bollard	Lean-on bench	Lounger
88		**89**		**91**	**66/101**	**103**	**102**
				2020			**2020**
-	-	■	-	-	-	-	-
-	-	-	■	■	-	-	-
■	-	-	-	-	■	-	-
-	-	-	-	-	-	-	-
-	■	-	-	-	-	-	-
-	-	■	■	-	■	-	-
■	■	-	-	■	-	■	■
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
■	■	■	■	■	-	■	-
■	■	-	-	■	■	■	-
-	-	■	■	■	-	-	■
-	-	-	-	-	■	-	-
○	○	○	○	○	○	○	○
○	○	○	○	-	-	-	-
○	○	-	-	-	-	-	-
○	○	○	○	-	-	○	-
401	574	2100	2100	1800	350	740	1000
453	750	602	877	800	450	1250	760
401	574	615	588	780	350	300	1840
342	-	2000	2000	1800	350	-	1000
453	-	447	447	448	450	-	420
9	12	18	23	40	8	105	62,5
Stefan Wehrmann		Stefan Wehrmann 3Dsign		Max Steffen	Charles O. Job	J. P. Gillen	

Every bench is also available without wood (except lean-on bench 108 and lounger 1.120). Blueprints for the wooden slats are then part of the delivery.

Design: Stefan Wehrmann 3Dsign

BENCH 141

Steel

141-1 | *without back rest*
141-2 | *with back rest*

Specifications

Bench 141-1 without back rest, consisting of two semi-circular steel side parts capable of holding five wooden slats ending level with the steel frames.

Bench 141-2 with back rest
Optionally includes a back rest consisting of three wooden slats connected to steel girder.

Mounting

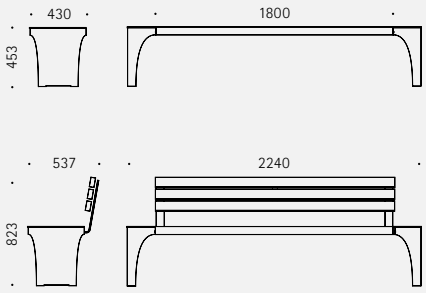
Screw-on

Finish

- Steel S235, galvanised with powder coating in standard RAL colours or DB 703
- Seating slats made of hardwood
- The following changes are possible for an extra price: colour, length and wooden surface

		Seat width	Seat height	W	D	H	For screwing
Bench 141-1	Without back rest	1800	453	2240	430	453	**141.001**
Bench 141-2	With back rest	1800	453	2240	537	823	**141.101**

ST



For available accessories and special designs, refer to pages 158–160 →

Design: Stefan Wehrmann 3Dsign

BENCH 142

Steel

142-1 | *without back rest*
142-2 | *with back rest*

Specifications

Bench 142-1 without back rest, consisting of two steel side parts bent outwards at the top, capable of holding five wooden slats. The side parts are higher than the seating slats and serve as armrests.

Bench 142-2 with back rest
Optionally includes a back rest consisting of three wooden slats connected to steel girders.

Mounting

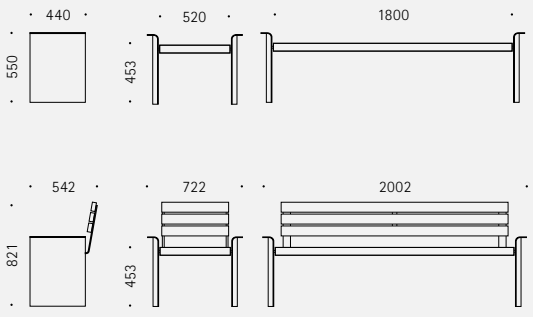
Screw-on

Finish

- Steel S235, galvanised with powder coating in standard RAL colours or DB 703
- Seating slats made of hardwood
- The following changes are possible for an extra price: colour, length and wooden surface

		Seat width	Seat height	W	D	H	For screwing
Bench 142-1	Bench without back rest	1800	453	2002	440	550	**142.001**
Bench 142-1	Stool	520	453	722	440	550	**142.002**
Bench 142-2	Bench with back rest	1800	453	2002	542	821	**142.101**
Bench 142-2	Chair	520	453	722	542	821	**142.102**

ST



Detailed information can be found on the catalogue's back cover fold-out →

Design: Stefan Wehrmann 3Dsign

BENCH 143

Steel

143-1 | *without back rest*
143-2 | *with back rest*

Specifications

Bench 143-1 without back rest, consisting of two perpendicular side parts made of steel profiles, which hold five wooden slats.

Bench 143-2 with back rest consisting of three wooden slats connected to steel girders.

Mounting

Screw-on or concrete embedment

Finish

- Steel S235, galvanised with powder coating in standard RAL colours or DB 703
- Seating slats made of hardwood
- The following changes are possible for an extra price: colour, length and wooden surface

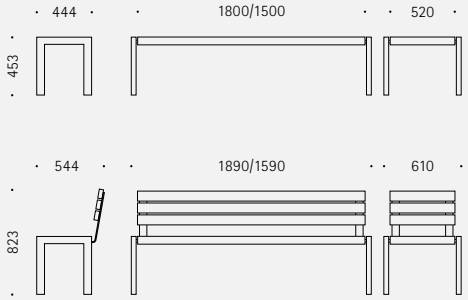
TABLE 143

Specifications

Table consisting of two perpendicular side parts made of steel profiles and a rectangular steel frame into which eight wooden slats are set flush. The lower areas of the side parts are stabilised lengthways and diagonally by supports.

		Seat width	Seat height	W	D	H	For concrete embedding	For screwing
Bench 143-1	Bench w/o back rest	1800	453	1890	444	453	**143.051**	**143.001**
Bench 143-1	Bench w/o back rest	1500	453	1590	444	453	**143.053**	**143.003**
Bench 143-1	Stool	520	453	610	444	453	**143.052**	**143.002**
Bench 143-2	Bench with back rest	1800	453	1890	544	823	**143.151**	**143.101**
Bench 143-2	Bench with back rest	1500	453	1590	544	823	**143.153**	**143.103**
Bench 143-2	Chair	520	453	610	544	823	**143.152**	**143.102**
Table 143		-	-	1587	735	750	**143.550**	**143.500**

ST



For available accessories and special designs, refer to pages 158–160 →

Design: Stefan Wehrmann 3Dsign

BENCH 144

Steel

144-1 | *without back rest*
144-2 | *with back rest*

Specifications

Bench 144-1 without back rest, consisting of two T-shaped side parts made of steel profiles, connected to a rectangular steel frame into which four wooden slats are set flush as a seating slat.

Bench 144-2 with back rest consisting of three wooden slats connected to steel girders.

Mounting

Screw-on or concrete embedment

Finish

- Steel S235, galvanised with powder coating in standard RAL colours or DB 703
- Seating slats made of hardwood
- The following changes are possible for an extra price: colour, length and wooden surface

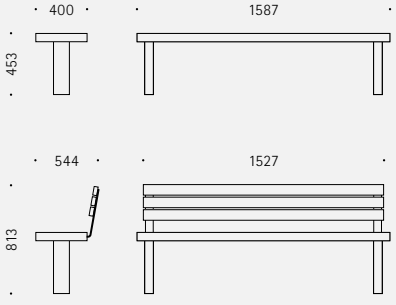
TABLE 144

Specifications

Table consisting of two T-shaped side parts made of steel profiles, connected to a rectangular steel frame into which eight wooden slats are set flush. The lower areas of the side parts are stabilised lengthways by a support.

		Seat width	Seat height	W	D	H	For concrete embedding	For screwing
Bench 144-1	Without back rest	1500	453	1587	400	453	**144.051**	**144.001**
Bench 144-2	With back rest	1500	453	1587	544	813	**144.151**	**144.101**
Table 144		-	-	1587	735	750	**144.550**	**144.500**

ST



Detailed information can be found on the catalogue's back cover fold-out →

Design: Stefan Wehrmann 3Dsign

STOOL 145

Steel

Specifications

Stool consisting of a revolving square steel frame sitting on a steel profile and into which four wooden slats are set flush.

Finish

- Steel S235, galvanised with powder coating in standard RAL colours or DB 703
- Seating slats made of hardwood
- The following changes are possible for an extra price: colour and wooden surface

TABLE 145

Specifications

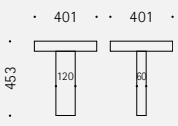
Table consisting of an encompassing square steel frame which sits on a steel profile and into which six wooden slats are set flush.

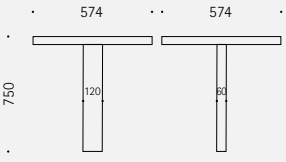
Mounting

Screw-on or concrete embedment

	Seat width	Seat height	W	D	H	For concrete embedding	For screwing
Stool 145	342	453	401	401	453	**145.051**	**145.001**
Table 145	-	-	574	574	750	**145.550**	**145.500**

ST





For available accessories and special designs, refer to pages 158–160 →

Design: Stefan Wehrmann 3Dsign

BENCH 146

Cast aluminium

146-1 | *without back rest*
146-2 | *with back rest*

Specifications

Bench 146-1 without back rest
Armrests and wood slatting, consisting of two cast aluminium frames, each with two legs, an inwardly inclined panel and supports for the seat.

Bench 146-2 with back rest
Armrests and wood slatting, consisting of two cast aluminium frames, each with two legs, an inwardly inclined panel and supports for the seat. The back rest and armrests merge with one another, forming an almost 90° angle to one another.

Mounting

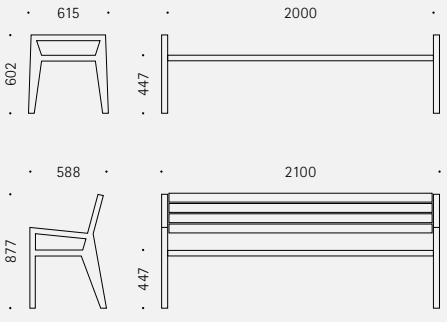
Screw-on

Finish

- Powder coating in standard RAL colours or DB 703
- Seating slats made of hardwood
- The following changes are possible for an extra price: colour, length and wooden surface

		Seat width	Seat height	W	D	H	For screwing
Bench 146-1	Without back rest	2000	447	2100	615	602	**146.101**
Bench 146-2	With back rest	2000	447	2100	588	877	**146.201**

CA



Detailed information can be found on the catalogue's back cover fold-out →

BENCH 100

"The Original Design"

Steel + Stainless steel

Specifications

Park bench with back rest made of 140 mm wide steel profiles to hold the wooden slats. The profiles are bent and closed at the footing. The wooden slats align with the frames.

Mounting

Screw-on

Finish

- Stainless steel 1.4301 smoothed, grain 240
  Optional: electropolished/high-gloss
- Steel S235, galvanised with powder coating in standard RAL colours or DB 703
- Seating slats made of hardwood
- The following changes are possible for an extra price: colour, length and wooden surface

		Seat width	Seat height	W	D	H	S235 steel	Stainless steel 1.4301
Bench 100	With back rest	1700	420	1700	760	740	**100.002**	**100.003**

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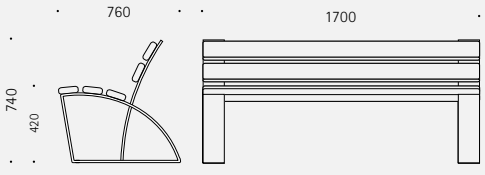


Design: hammerrunge design | Registered design M 9801747.0

For available accessories and special designs, refer to pages 158–160 →

BENCH 147

Steel

Specifications

Bench with back rest, frame made of bent steel tubes without armrests, accommodating two seats conically converging towards the center, and a slanted wooden back rest.

Mounting

Free standing, Screw-on or concrete embedment

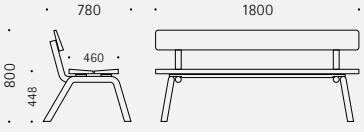
Finish

- Steel S235, galvanised with powder coating in standard RAL colours or DB 703
- Seating slats made of hardwood

		Seat width	Seat height	W	D	H	Steel S235
Bench 147	Free standing	1800	448	1800	780	800	**147.101**
Bench 147	For screwing	1800	448	1800	780	800	**147.111**
Bench 147	For concrete embedding	1800	448	1800	780	800	**147.151**

ST

2020



Design: Max Steffen | Registered design

Detailed information can be found on the catalogue's back cover fold-out →

BENCH 103

WITH STAINLESS STEEL SUPPORTS

Stainless steel

Specifications

Bench made of curved and mitred stainless steel tubes, with two diagonally opposite backrests. The stainless steel frame holds seats and backrests made of closed stainless steel profiles.

Mounting

Screw-on (recommended) or free standing

Finish

· Stainless steel 1.4301 smoothed, grain 240
Optional: electropolished/high-gloss

	Supports	Seat width	Seat height	W	D	H	Stainless steel 1.4301
Bench 103	Stainless steel	2 × approx. 900	430	2380	730	835	**103.203**

AISI

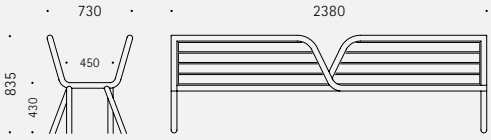
2020

Stainless steel supports

Design: Charles O. Job | Registered design 129813

New design with stainless steel seats for the "Métropole européenne de Lille" (MEL), World Capital of Design 2020

www.designiscapital.com/en/project



For available accessories and special designs, refer to pages 158–160 →

BENCH 103

WITH WOODEN SUPPORTS

Steel + Stainless steel

Specifications

Park bench made of bent steel tubes adjusted to miter with two diagonally opposite back rests. The steel frame is designed to accommodate seating supports and back rests made of wood.

Mounting

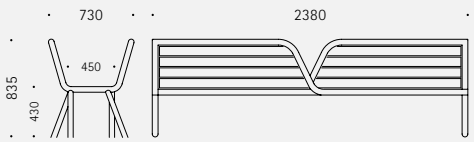
Screw-on (recommended) or free standing

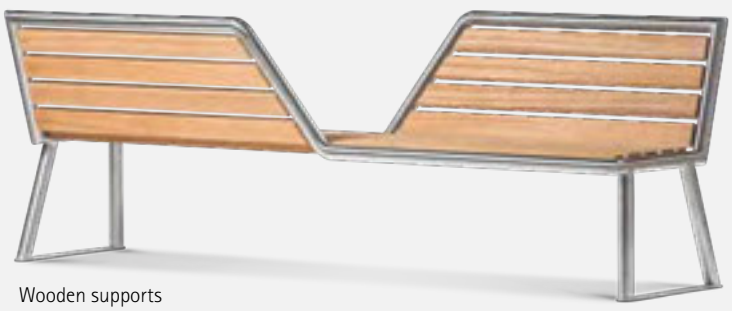
Finish

- Stainless steel 1.4301 smoothed, grain 240
  Optional: electropolished/high-gloss
- Steel S235, galvanised with powder coating in standard RAL colours or DB 703

	Supports	Seat width	Seat height	**W**	**D**	**H**	S235 steel	Stainless steel 1.4301
Bench 103	Wood	2 × approx. 900	430	2380	730	835	**103.102**	**103.103**

ST AISI





Wooden supports

Design: Charles O. Job | Registered design 129813

Detailed information can be found on the catalogue's back cover fold-out →

Also available as bench for senior citizen

- 10 cm higher
- Seating surface tilted slightly forward
- 10% surcharge

BENCH 107

ROUND TUBE FRAME

Steel + Stainless steel

107-1 | *without back rest*
107-2 | *with back rest*

Specifications

Bench 107-1 without back rest, consisting of two U-shaped steel tube frames including mounting options for a seating slat made of several steel tube profiles.

Bench 107-2 with back rest, connected to the seat's rear tube with crescent-shaped suspensions.

Finish

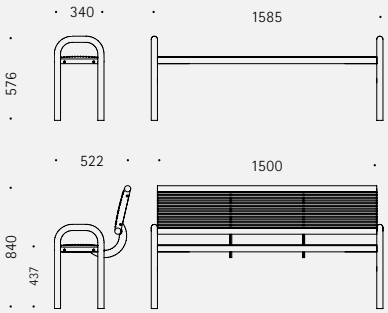
- Stainless steel 1.4301 pickled
  Optional: electropolished/high-gloss
- Steel S235, galvanised with powder coating in standard RAL colours or DB 703
- Other colours available on request at a surcharge

Mounting

Screw-on (recommended) or free standing

		Seat width	Seat height	W	D	H	S235 steel	Stainless steel 1.4301
Bench 107-1	Without back rest	1500	437	1585	340	576	**107.001**	**107.003**
Bench 107-2	With back rest	1500	437	1585	522	840	**107.101**	**107.103**

ST AISI



For available accessories and special designs, refer to pages 158–160 →

BENCH 109

RECTANGULAR TUBE FRAME

Steel

109-1 | *without back rest*
109-2 | *with back rest*

Specifications

Bench 109-1 without back rest, consisting of two rectangular hollow steel elements without armrests, including attachment options for a seat made of multiple steel tube profiles.

Bench 109-2 with back rest, connected to the seat's rear tube with crescent-shaped suspensions.

Mounting

Removable with 3p-Technology, with flange to enable screwing or concrete embedment

Bench 109-3 Seat cover, to bolt onto stone or concrete.

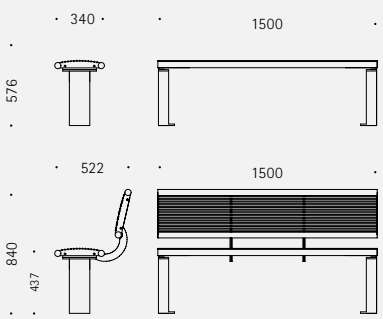
Finish

- Steel S235, galvanised with powder coating in standard RAL colours or DB 703
- Other colours available on request at a surcharge

		Seat width	Seat height	W	D	H	Steel S235
Bench 109-1	Without back rest, for screwing	1500	437	1585	340	437	**109.102**
Bench 109-1	Without back rest, with 3p-Technology	1500	437	1585	340	437	**109.120**
Bench 109-1	Without back rest, for concrete embedding	1500	437	1585	340	437	**109.101**
Bench 109-2	With back rest, for screwing	1500	437	1585	522	840	**109.202**
Bench 109-2	With back rest, with 3p-Technology	1500	437	1585	522	840	**109.220**
Bench 109-2	With back rest, for concrete embedment	1500	437	1585	522	840	**109.201**
Bench 109-3	Screw-on seat cover	1500	-	1585	340	-	**109.302**

ST 2020

3p Technologie



Detailed information can be found on the catalogue's back cover fold-out →

BENCH 104

Cast aluminium

Specifications

Cast aluminium bench system without back rest, consisting of four basic units. The system has a modular construction:

- A straight seating unit
- A seating unit bent at a 45° angle
- A seating unit bent at a 90° angle
- Base with inward-facing legs, joined to a plate at the lower end, with the upper end of the plate supporting the seating units

Mounting

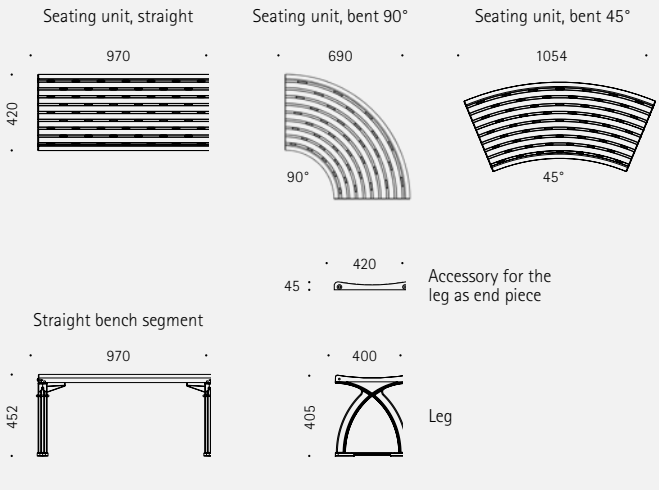
Screw-on (recommended) or free standing

Finish

- Powder coating in standard RAL colours or DB 703 (other colours available on request at a surcharge)

		For screwing
Bench 104	Seating unit, straight	**104.101**
Bench 104	Seating unit, bent 45°	**104.201**
Bench 104	Seating unit, bent 90°	**104.202**
Bench 104	Leg	**104.301**
Bench 104	Accessory for the leg as end piece	**104.350**

CA

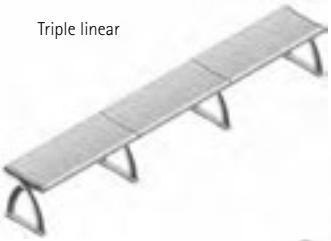


For available accessories and special designs, refer to pages 158–160 →

BENCH 104

Sample configurations

Triple linear



Semi-circle

S form with 45° units

S form with 90° units

Open ¾ circle

Detailed information can be found on the catalogue's back cover fold-out →

BENCH 131

Cast aluminium

Specifications

Bench system without back rest, made of at least two conical cast aluminium bollards with a diameter of 220 mm at the base. The upper end serves to support three seating slats. Each bench bollard has a groove all around the top to distinguish the bollards from the seat support.

Mounting

Removable with 3p-Technology
Alternative: concrete embedment

Finish

- Bench bollard: cast aluminium, powder coating in standard RAL colours or DB 703 (other colours available on request at a surcharge)
- Seating slats made of hardwood
- The following changes are possible for an extra price: colour, wooden surface

Example of a Bench 131

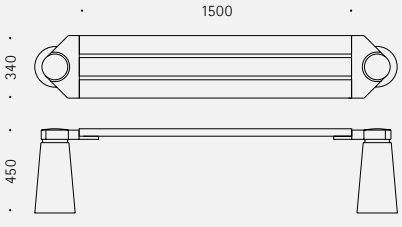
	Fixed mounting	Removable (3p-Technology)*
2 cast aluminium bench bollards	**2 × 131.004**	**2 × 131.005**
1 set of hardwood bench seats	**1 × 132.001**	**1 × 132.001**

		Fixed mounting	Removable (3p-Technology) *
Bench 131	Bench bollard as end piece	**131.004**	**131.005**
Bench 131	90° right-angle junction	**131.006**	**131.007**
Bench 131	180° series junction	**131.008**	**131.009**
Bench 131	120° star-shaped formation	**131.010**	**131.011**
Bench 131	Set of hardwood bench seats	**132.001**	

CA

3p Technologie

Design: hammerstrunge design | Registered design M 9801747.0



For available accessories and special designs, refer to pages 158–160 →

BENCH 121

Cast aluminium

121-1 | *without back rest*
121-2 | *with back rest*

Specifications

Bench 121-1 without back rest, made of two conical cast aluminium bollards with a diameter of 220 mm at the base. The upper end serves to support 14 seat strips. Each bench bollard has a groove all around the top to distinguish the bollards from the seat support.

Bench 121-2 with back rest, connected to the rear tube of the seat support on sickle-shaped suspensions.

Mounting

Removable with 3p-Technology

Alternative: concrete embedment

Finish

- Bench bollard: cast aluminium, powder coating in standard RAL colours or DB 703 (other colours available on request at a surcharge)
- Bench seats and back rests: Stainless steel 1.4301 smoothed, grain 240
- Bench seats and back rests: Steel S235, galvanised with powder coating in standard RAL colours or DB 703

		Fixed mounting	Removable (3p-Technology) *
Bench 121	Bench bollard as end piece	**121.004**	**121.005**
Bench 121	90° right-angle junction	**121.006**	**121.007**
Bench 121	180° series junction	**121.008**	**121.009**
Bench 121	120° star-shaped formation	**121.010**	**121.011**

		S235 steel	Stainless steel 1.4301
Bench 121	Set of bench seats	**121.200**	**121.210**
Bench 121	Back rest	**121.100**	**121.110**

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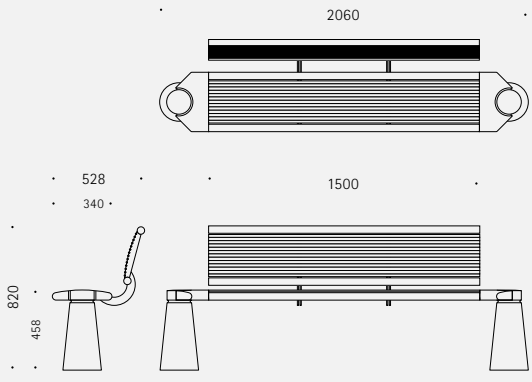
3p Technologie

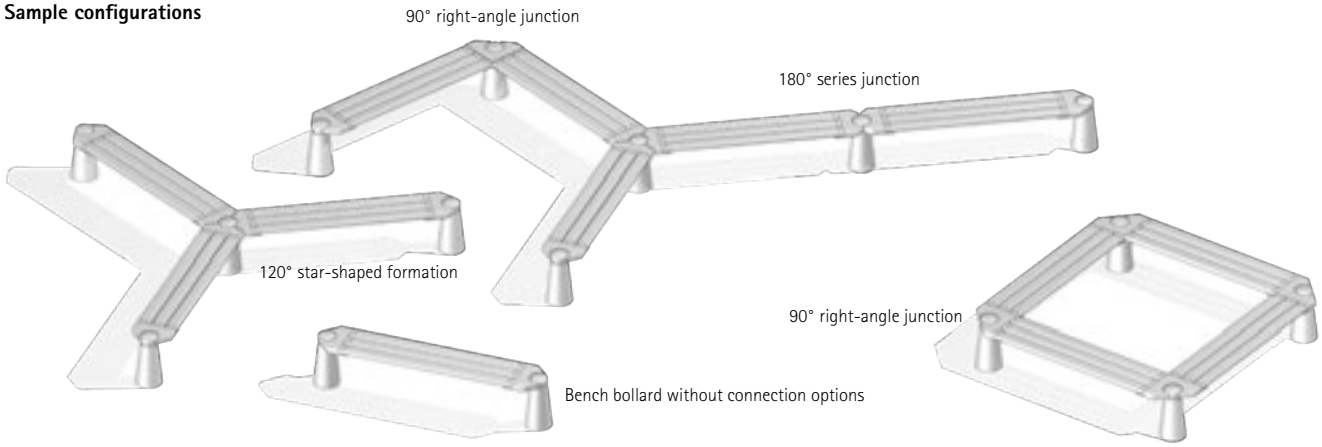


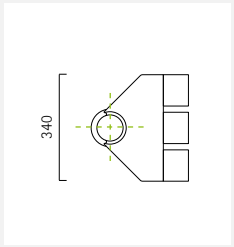
Design: hammerl.runge design | Registered design M 9801747.0

Detailed information can be found on the catalogue's back cover fold-out →

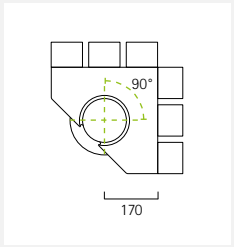
BENCH 131

Sample configurations

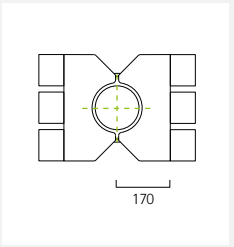




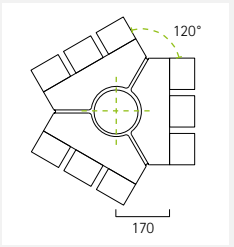
Bench bollard without connection option



Right angle junction 90°



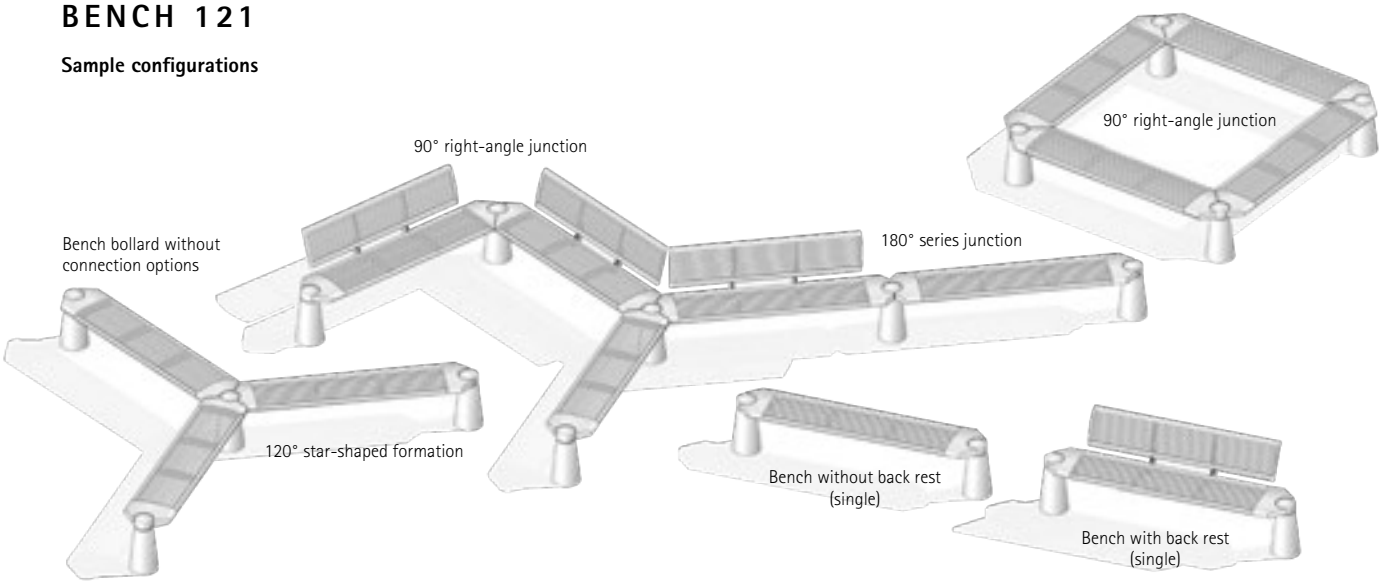
180° series junction

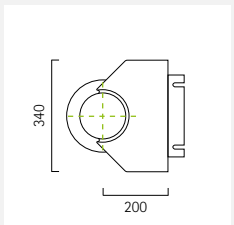


120° star-shaped connection

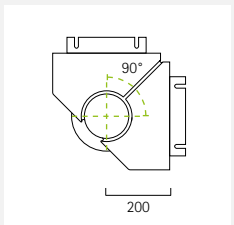
BENCH 121

Sample configurations

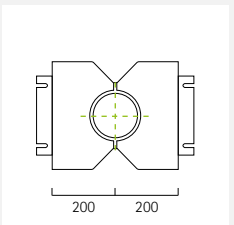




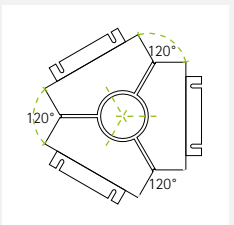
Bench bollard without connection option



Right angle junction 90°



180° series junction



120° star-shaped connection

For available accessories and special designs, refer to pages 158–160 ➔

SEATING-BOLLARD 105

Cast aluminium

Specifications

One-piece seat bollard made of cast aluminium with small diamond-shaped apertures in the circular seat supported by a cylindrical leg, tapering slightly at the base.

Mounting

Removable with 3p-Technology

Alternative: concrete embedment

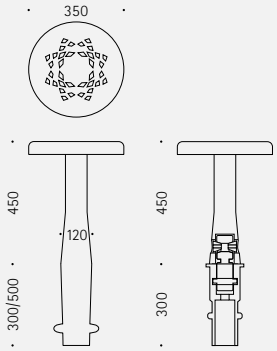
Finish

· Powder coating in standard RAL colours or DB 703 (other colours available on request at a surcharge)

	Seat width	Seat height	W	D	H	Fixed mounting	Stainless steel 1.4301
Seating-Bollard 105	ø 350	450	350	350	450	**105.001**	**105.101**

CA

3p Technologie



Design: Charles O. Job | Registered design 129813

Detailed information can be found on the catalogue's back cover fold-out →

LOUNGER 1.120

Steel

Specifications

Lounger with ergonomically shaped surface, wooden slats and base made of zinc-phosphated (KTL) and powder-coated steel.

Mounting

Free standing

Finish

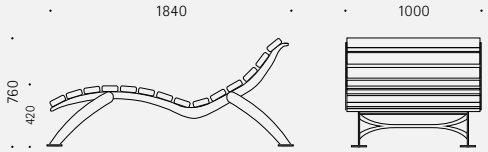
- Frame: steel S235, zinc-phosphated (KTL) and powder-coated in RAL 7016 (anthracite grey)
- Bench supports: 14 slats of thermo-wood (ash)

Details see in ABES Online Shop

		Free standing
Lounger 1.120	Steel S235, wooden support	**1.120.001**

ST

2020



For available accessories and special designs, refer to pages 158–160 →

With the Bollard-Ashtray 525 suitable e.g. for smoke breaks *(see photo)*

LEAN-ON-BENCH 108

Steel

Specifications

Back to top widening lean-on element with a curved profile. The upper half is equipped with a wooden covering.

Mounting

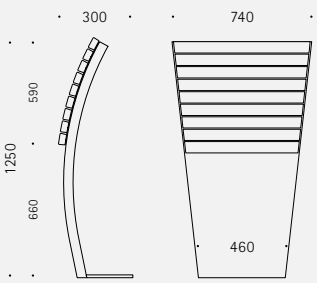
Screw-on or concrete embedment

Finish

- Steel S235, galvanised with powder coating in standard RAL colours or DB 703
- Lean-on surface made of wood

	Lean-on width	Lean-on height	W	D	H	For screwing	For concrete embedding
Lean-On-Bench 108	740	590	740	300	1250	**108.101**	**108.151**

ST



Design: J. P. Gillen | Registered design

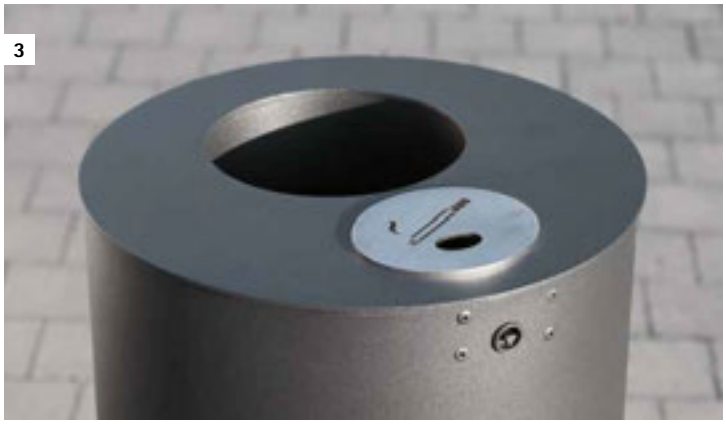
Detailed information can be found on the catalogue's back cover fold-out →

04

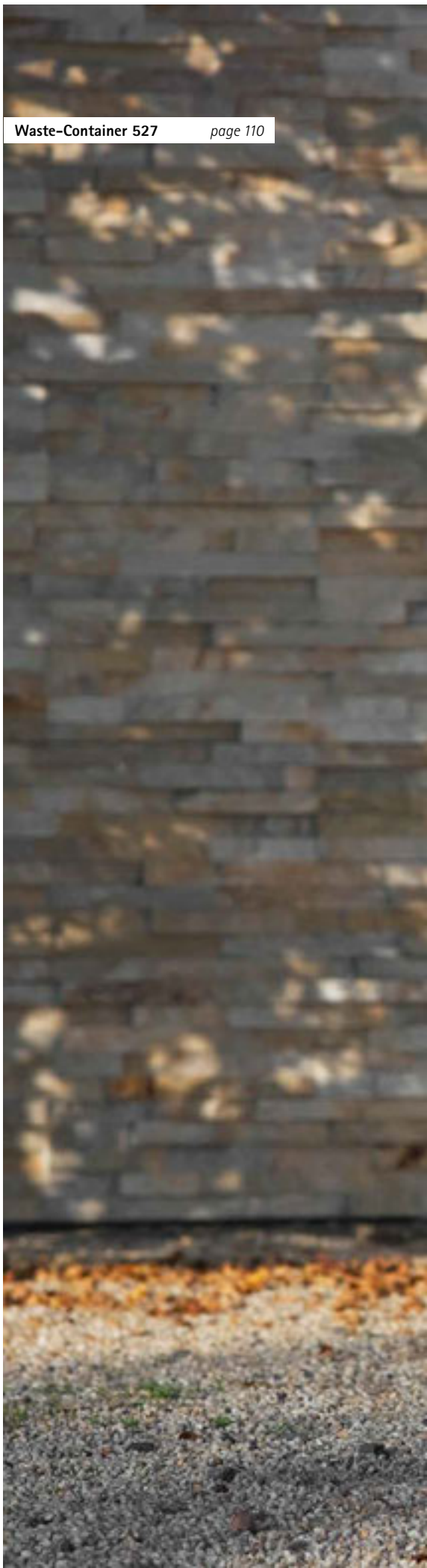
WASTE CONTAINERS

Waste containers are essential for a well-kept urban environment. ABES' models impress with their sophisticated functionality and attractive design, and fit perfectly into the cityscape.

The containers are robust and resistant to vandalism. They are supplied with a cover to prevent rainwater from leaking in, as well as from having unwanted household waste disposed of here. Separate internal containers facilitate cleaning, thereby ensuring hygienic waste disposal.



1: Bollard-Ashtray 525 *page 113* | **2: Waste-Container 523** *page 107*
3: Waste-Container 529 *page 111*



Waste-Container 527 *page 110*

		523	524	525		527	529	530	531	540	541
				Bollard ashtray							
Catalogue page		**107**	**107**	**67/113**		**110**	**111**	**111**	**110**	**108**	**109**
NEW 2020										2020	2020
Material	Steel S235 (galvanised)	-	■	-	-	-	-	-	-	-	-
	Steel S235 (galvanised with powder coating)	■	■	■	-	■	■	■	■	■	■
	Stainless steel 1.4301 (smoothed, grain 240)	-	-	-	■	■	■	-	-	-	-
	Stainless steel 1.4301 (with powder coating)	-	-	-		-	-	-	-	-	-
Mounting	For screwing (with flanges)	■	-	525.040	525.140	-	-	-	-	-	-
	For concrete embedding	-	■	525.001	525.011	■	■	■	■	■	■
	Removable with ground shell	-	■	-	-	-	-	-	-	-	-
	Removable with 3p-Technology			525.020	525.022	■	■	■	■	■	■
Configuration	Incl. internal container	●	●	●	●	●	●	●	●	●	●
	Covered slot	●	●	-	-	-	-	-	-	-	-
	Unlocking/emptying using a triangular key	●	●	●	●	●	●	●	●	●	●
	Lateral emptying	-	-	-	-	-	-	-	-	●	●
	Emptying at the top	●	●	●	●	●	●	●	●	-	-
	Ashtray/cigarette slot	○	-	●	●	●	●	●	●	●	●
	Individual color (RAL/DB)	○	○	○	○	○	○	○	○	○	○
Measurements	Capacity (liters)	50	33	3,5	3,5	75	75	50	50	50/75	50/75
	Height above ground level (mm)	969,5	1100	1097	1097	1181	910	855	1027	1027/1181	855/910
	Container diameter (mm)	462	385	108	108	400	400	350	350	350/400	350/400
	Container height (mm)		620	-	-	961	690	635	807	807/961	635/690
	Weight (approx. in kg)	24	9	13,5	13,5	40	40	37	37	37/40	37/40
	Design	hrd+hz									

■ = Model | ● = Configuration | ○ = Option (with a surcharge) | - = Not available | hrd+hz = ammer.runge design and Heiko Zetzsche

Design: hammer.runge.design and Heiko Zetzsche

WASTE-CONTAINER 523

Steel | 50 liters

Specifications

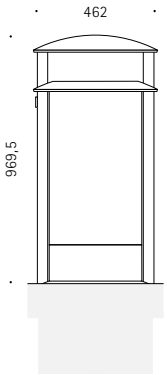
The first part of the stand-alone waste container consists of a frame made of two parallel tubes, connected by a lower and an upper rim as well as a cover, the second part consists of a cylindrical steel container to be hung into the frame.
The container can be swung off the frame. The container is attached to the ground from the inside. Contains approx. 50 l.

Mounting

On the ground from the interior of the container base

Finish

· Powder coating in standard RAL colours or DB 703
· Other colours available on request at a surcharge
· Incl. internal container or alternatively with spikes to hold bin liners
· Cover including ashtray available as an optional accessory
· May be unlocked for emptying using a triangular key



		For Screwing
Waste-Container 523	S235 steel, powder-coated	**523.002**
Waste-Container 523	Ashtray, stainless steel 1.4301	**500.001**

ST

Optional:
including ashtray

WASTE-CONTAINER 524

Steel | 33 liters

Specifications

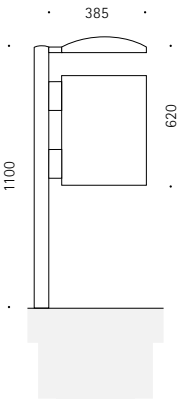
Cylindrical waste container covered with a lid and holding a capacity of approx. 33 l, affixed to a circular post. A triangular lock must be opened to empty the container.

Mounting

Concrete embedment or insertion into a standard ground shell (not 3p-Technology)

Finish

· Hot-dip galvanised steel S235, alternatively with powder coating in standard RAL colours or DB 703
· Other colours available on request at a surcharge
· Incl. internal container
· May be unlocked for emptying using a triangular key



		For concrete embedding
Waste-Container 524	S235 steel, galvanised	**524.001**
Waste-Container 524	S235 steel, powder-coated	**524.002**

ST

Detailed information can be found on the catalogue's back cover fold-out →

LATERAL EMPTYING

WASTE-CONTAINER 540

Steel | 75 + 50 liters

Specifications

Cylindrical waste container made of steel with an O-shaped slanted slot and a separate cigarette slot. Lateral door with internal hinges, triangular lock and curved opening flap for the easy removal of the inner container. The waste container is delivered together with a mounted bollard.

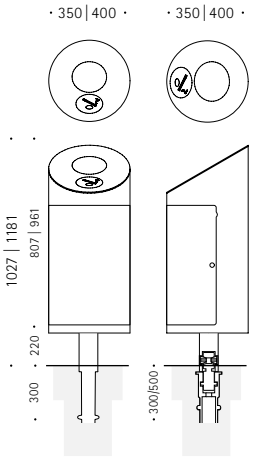
Mounting

Removable with 3p-Technology

Alternative: concrete embedment

Finish

- Steel S235, galvanised with powder coating in standard RAL colours or DB 703
- Other colours available on request at a surcharge
- Cigarette slot: Stainless steel 1.4301
- Incl. internal container
- Emptying: Lateral door for an easier removal of the inner container
- May be unlocked for emptying using a triangular key



			Steel S235
Waste-Container 540	75 liters	Fixed mounting	**540.201**
Waste-Container 540	75 liters	With 3p-Technology	**540.220**
Waste-Container 540	50 liters	Fixed mounting	**540.101**
Waste-Container 540	50 liters	With 3p-Technology	**540.120**

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3p Technologie

ADVANTAGES AT A GLANCE

- Waste container stands completely firm without moving
- Thanks to its solid shell, the container generally remains undamaged after an impact
- Over 90% cost reduction for repairs
- Junction piece can be replaced in less than 3 minutes
- Only one call-out – reduced staff and vehicle costs
- Repair work does not have to be done on site
- Quick to disassemble if more space is needed at short notice
- Ground shells can be locked to prevent risk of tripping

3p Technologie

WASTE CONTAINERS WITH 3P-TECHNOLOGY

Practical but stylish

This type of waste container combines functionality with design. Its classic cylindrical shape fits into any cityscape.

Its strong outer shell is extremely damage-resistant and also provides enough space for signs or billboards. When combined with the optional 3p-Flex junction piece, the waste container is even more resistant to everyday (traffic) inconveniences.

For available accessories and special designs, refer to pages 158–160 →

LATERAL EMPTYING

WASTE-CONTAINER 541

Steel | 75 + 50 liters

Specifications

Cylindrical waste container made of steel with an O-shaped horizontal slot and a separate cigarette slot. Lateral door with internal hinges, triangular lock and curved opening flap for the easy removal of the inner container. The waste container is delivered together with a mounted bollard.

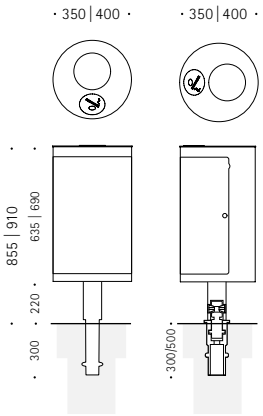
Mounting

Removable with 3p-Technology

Alternative: concrete embedment

Finish

- Steel S235, galvanised with powder coating in standard RAL colours or DB 703
- Other colours available on request at a surcharge
- Cigarette slot: Stainless steel 1.4301
- Incl. internal container
- Emptying: Lateral door for an easier removal of the inner container
- May be unlocked for emptying using a triangular key



			Steel S235
Waste-Container 541	75 liters	Fixed mounting	**541.201**
Waste-Container 541	75 liters	With 3p-Technology	**541.220**
Waste-Container 541	50 liters	Fixed mounting	**541.101**
Waste-Container 541	50 liters	With 3p-Technology	**541.120**

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3p Technologie

Laterally opening door for the comfortable removal of the inner container.

Curved opening flap for an easier opening of the door.

Detailed information can be found on the catalogue's back cover fold-out →

EMPTYING AT THE TOP

WASTE-CONTAINER 527 | 531

527 | *Steel + Stainless steel | 75 liters*
531 | *Steel | 50 liters*

Specifications

Cylindrical steel waste container with O-shaped, sloping slot area, separate cigarette slot and top opening lid. The container comes with an assembled bollard.

Mounting

Removable with 3p-Technology

Alternative: concrete embedment

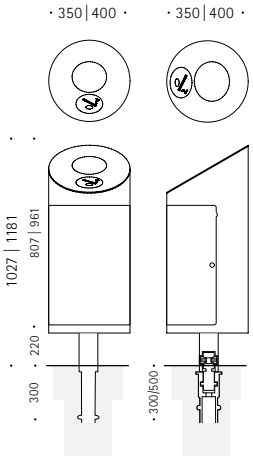
Finish

- Stainless steel 1.4301 smoothed, grain 240
  Optional: electropolished/high-gloss
- Steel S235, galvanised with powder coating in standard RAL colours or DB 703
- Other colours available on request at a surcharge
- Cigarette slot: Stainless steel 1.4301
- Incl. internal container
- May be unlocked for emptying using a triangular key

			Steel S235	Stainless steel 1.4301
527	75 liters	Fixed mounting	**527.001**	**527.011**
527	75 liters	With 3p-Technology	**527.020**	**527.022**
531	50 liters	Fixed mounting	**531.001**	**-**
531	50 liters	With 3p-Technology	**531.020**	**-**

ST AISI

3p Technologie



ABES Waste-Containers equipped with 3p-Technology are always removable. They can easily be carried to different locations (e.g. the building yard) for cleaning or maintenance work.

More about 3p-Technology: see pages 10-17

For available accessories and special designs, refer to pages 158–160 →

EMPTYING AT THE TOP

WASTE-CONTAINER 529 | 530

529 | *Steel + Stainless steel* | *75 liters*
530 | *Steel* | *50 liters*

Specifications

Cylindrical steel waste container with O-shaped, horizontal slot area and separate cigarette slot. The container comes with an assembled bollard.

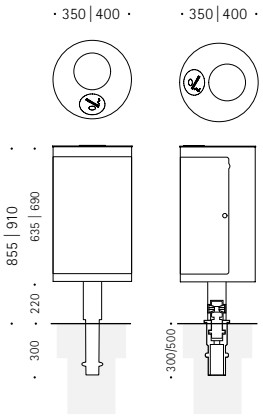
Mounting

Removable with 3p-Technology

Alternative: concrete embedment

Finish

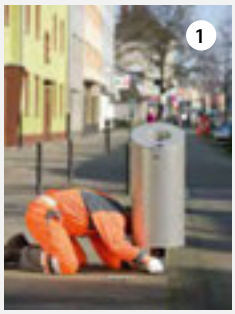
- Stainless steel 1.4301 smoothed, grain 240
  Optional: electropolished/high-gloss
- Steel S235, galvanised with powder coating in standard RAL colours or DB 703
- Other colours available on request at a surcharge
- Cigarette slot: Stainless steel 1.4301
- Incl. internal container
- May be unlocked for emptying using a triangular key

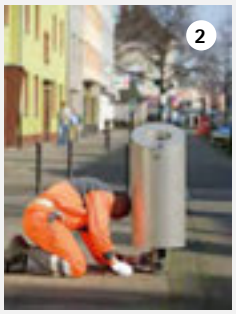


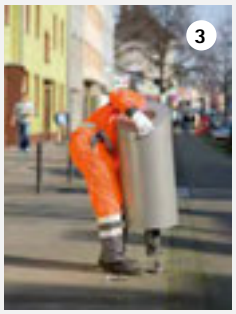
			Steel S235	Stainless steel 1.4301
529	75 liters	Fixed mounting	**529.001**	**529.011**
529	75 liters	With 3p-Technology	**529.020**	**529.022**
530	50 liters	Fixed mounting	**530.001**	-
530	50 liters	With 3p-Technology	**530.020**	-

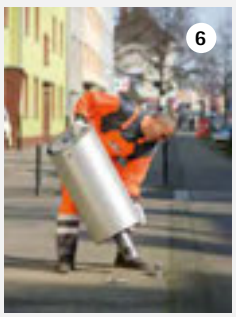
ST AISI

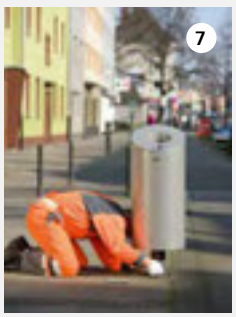
3p Technologie











Patented system:

Simple disassembly and assembly thanks to 3p-Technology

Removing waste container

1 Unscrew
2 Remove junction piece
3 Lift waste container out
4 Finished

Mounting waste container

5 Insert junction piece
6 Set up waste container
7 Screw in tightly
8 Finished

Detailed information can be found on the catalogue's back cover fold-out →

BOLLARD-ASHTRAY 525

Steel + Stainless steel | 1097 mm

Specifications

Fully cylindrical bollard ashtray with a sloping slot area. Labelling in the form of an outlined, laser-printed cigarette symbol.

Mounting

Removable with 3p-Technology

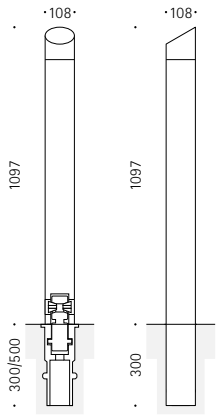
Alternative: concrete embedment or with flange to enable screwing

Finish

- Stainless steel 1.4301 smoothed, grain 240
  Optional: electropolished/high-gloss
- Steel S235, galvanised with powder coating in standard RAL colours or DB 703
- May be unlocked for emptying using a triangular key
- Height can be adjusted on customer request

Note

Identical with Bollard 079 (without ashtray), *see page 59*



		Fixed mounting	3p-Technology	For Screwing
Bollard-Ashtray 525	Steel	**525.001**	**525.020**	**525.040**
Bollard-Ashtray 525	Stainless steel	**525.011**	**525.022**	**525.140**

ST AISI

3p Technologie

The only bollard ashtray with predetermined breaking point

Detailed information can be found on the catalogue's back cover fold-out →

05

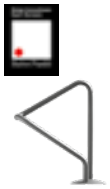
BICYCLE STANDS

ABES bicycle stands are characterised by functionality and modern design, provide a firm grip and prevent the bikes from falling over, or having their wheels bent. The stands also allow bikes to be locked up securely, thereby protecting them from theft. The shape and function of the Bicycle-Stand 450-1 was given the "red dot" award by the NRW Design Centre for its high design quality.

The bicycle stands offer a wide variety of setup combinations, allowing different sized groups of stands to be combined. Their sophisticated design makes the various stands attractive objects in the urban setting. The tube constructions can be fitted with a curved cover, making it harder for the bikes to roll away, which allows them to be parked without risk to other road users.

1: Bicycle-Stand 453 LED *page 126* | **2: Bicycle-Stand 451** *page 119*
3: Bicycle-Stand 450-1 row configuration *page 121*

BICYCLE STANDS



ROW CONFIGURATIONS

		450-1	450-2	451	480	450-1		452		473		
		Bicycle stand	Bicycle stand	Bicycle stand	Bicycle stand	2	3	2	3	2	3	4
Catalogue page		**118–120**	**118–120**	**119–120**	**131**	**121**		**125**		**128**		
NEW 2020					**2020**							
Material	Steel S235 (galvanised)	■	■	■	■	■		■		■		
	Steel S235 (galvanised with powder coating)	■	■	■	■	■		■		■		
	Stainless steel 1.4301 (smoothed, grain 240)	■	■	■	■	■		■		■		
Mounting	For concrete embedding (Installation depth: -300 mm)	■	■	■	■	-		-		-		
	Removable with ground shell(s)	■	■	■	-	-		-		-		
	For screwing (with flanges)	-	-	-	■	■		■		■		
	With LED strip	-	-	-	-	-		-		○		
Options	Individual color (RAL/DB)	○	○	○	○	○		○		○		
	Cover plate	○	○	○	-	-		-		-		
	Option: knee rail	-	-	-	-	-		○		○		
	Individual dimensions	-	-	-	-	-		○		○		
Measurements	Height above ground level (mm)	845	845	855	810	848	848	800	800	860	860	860
	Length (in mm)	683	1240	340	720	1500	2250	1900	2850	800	1450	2100
	Width (in mm)	224	224	290	188	ca. 700	ca. 700	900	900	820	820	820
	Weight (approx. in kg)	8	10	8	6	-	53	-	21	20	28	-
	Design	hrd	hrd	hrd	cm	hrd		jpg				

RECOMMENDED BY ADFC

		1.414		1.415		1.416		1.417
		High	Low	High	Low	High	Low	Low
Catalogue page		**134**		**135**		**136**		**133**
NEW 2020		**2020**		**2020**		**2020**		**2020**
Material	Steel S235 (galvanised)	■	■	■	■	■	■	■
	Steel S235 (galvanised with powder coating)	■	■	■	■	■	■	■
	Stainless steel 1.4301 (electropolished)	□	□	□	□	□	□	□
Mounting	For bolting on trapezoidal rails	■	■	■	■	■	■	■
	Extended version for underground bolting on trapezoidal rails	■	■	■	■	■	■	■
	For concrete embedding	■	■	■	■	■	■	■
	Individual color (RAL/DB)	○	○	○	○	○	○	○
	Surcharge for concrete bollard (from 450 mm wheel distance)	□	□	□	□	□	□	□
Measurements (Single rack)	Height above ground level (mm)	985	740	985	740	800	800	680
	Height wheel support in mm	340	95	340	95	283	83	90
	Width single sided at 90° in mm	275	275	270	270	260	260	240
	Width double sided at 90° in mm	305	305	285	285	380	380	-
	Rail distance (centre point) at 90° (45°/60°) wheel support in mm	365	365 *(330)*	365	365 *(330)*	400	400	325
	Total depth single sided in mm	610	610	695	695	852	740	585
	Total depth double sided in mm	650	650	705	705	1084	1084	-
	Storage footprint depth single sided at 90° *(45°/60°)* in mm	1900	1900 *(1300)*	1900	1900 *(1300)*	1900	1900 *(1300)*	1900 *(1600)*
	Storage space depth double sided in mm	3000	3000	3000	3000	3000	3000	-
	Weight single sided in kg	10	10	8,5	8,5	13	13 *(15)*	7
	Weight double sided in kg	12	12	10,5	10,5	16	16	-

■ = Model | □ = On request | ● = Configuration | ○ = Option (with a surcharge) | - = Not available | hrd = hammer.runge.design | jpg = J. P. Gillen | cm = Christoph Marzi

	BICYCLE STANDS							
	453	453 LED	470	471	472	474	476	477
	Bicycle stand	Bicycle stand	Bicycle stand	Bicycle stand	Bicycle stand	Bicycle stand	Bicycle stand	Bicycle stand
Catalogue page	**126–127**	**126–127**	**124**	**129**	**130**	**130**	**122**	**123**
NEW 2020						2020	2020	2020
Material: Steel S235 (galvanised)	■	■	■	■	■	■	■	■
Material: Steel S235 (galvanised with powder coating)	■	■	■	■	■	■	■	■
Material: Stainless steel 1.4301 (smoothed, grain 240)	■	■	■	■	■	■	■	■
Mounting: For concrete embedding (Installation depth: -300 mm)	■	■	■	■	■	■	■	■
Mounting: Removable with ground shell(s)	■	■	■	■	-	-	■	■
Mounting: For screwing (with flanges)	■	■	■	■	■	■	■	■
With LED strip	-	●	-	-	-	-	-	-
Options: Individual color (RAL/DB)	○	○	○	○	○	○	○	○
Options: Cover plate	-	-	-	-	-	-	-	-
Options: Option: knee rail	○	○	●	●	●	●	●	●
Options: Individual dimensions	○	○	○	○	○	○	○	○
Measurements: Height above ground level (mm)	860	860	860	800	800	900	900	900
Measurements: Length (in mm)	820	820	860	800	850	900	700	350
Measurements: Width (in mm)	50	50	48	60	80	80	48	48
Measurements: Weight (approx. in kg)	6,5	6,5	5,5	6,5	7,5	7,5	7	5,5
Design								

Practical guide
www.abes-online.com

A closer look on ... bicycle stands!

Urbanization is a leading trend of our time. Creating a livable urban environment is the challenge within that growth. How can the infrastructural, ecological, economic, and social problems resulting from an increasing urbanization be solved? How can quality of life and sustainability be guaranteed in an environment where everything is becoming increasingly condensed?

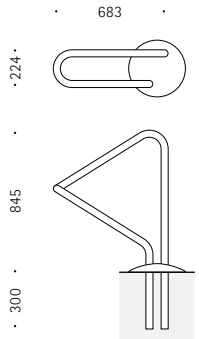
Read the full text on our website:
https://abes-online.com/a-closer-look-on-bicycle-stands

BICYCLE-STAND 450-1

Steel + Stainless steel

Specifications

Frame made of bent steel tubes with a 42.4 x 2.5 mm diameter, a vertical rear tube, and mutually offset tube ends.



		Bicycle stand	Cover plate (optional)
450-1	Steel S235, galvanised	**450.001**	**455.001**
450-1	Steel S235, powder-coated	**450.011**	**455.011**
450-1	Stainless steel 1.4301	**450.002**	**455.002**

Ground shell for removable model: **456.002**

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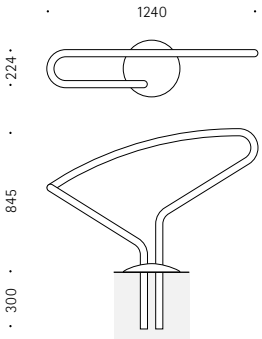
BICYCLE-STAND 450-2

Steel + Stainless steel

Specifications

Frame made of bent steel tubes with a 42.4 x 2.5 mm diameter, an overhanging rear tube, as well as mutually offset tube ends.



		Bicycle stand	Cover plate (optional)
450-2	Steel S235, galvanised	**450.003**	**455.001**
450-2	Steel S235, powder-coated	**450.013**	**455.011**
450-2	Stainless steel 1.4301	**450.004**	**455.002**

Ground shell for removable model: **456.002**

ST AISI

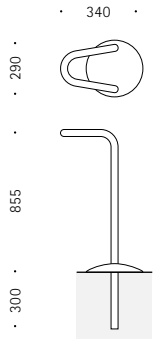
For available accessories and special designs, refer to pages 158–160 →

BICYCLE-STAND 451

Steel + Stainless steel

Specifications

Frame made of bent steel tubes with a 42.4 × 2.5 mm diameter and parallel tube ends.



Mounting

Concrete embedment (only one foundation required)

Alternative: removable with ground shell

Optional: convex cover plate with a 300 mm diameter

Finish

- Stainless steel 1.4301 smoothed, grain 240
  Optional: electropolished/high-gloss
- Steel S235, galvanised with powder coating in standard RAL colours or DB 703
- Other colours available on request at a surcharge

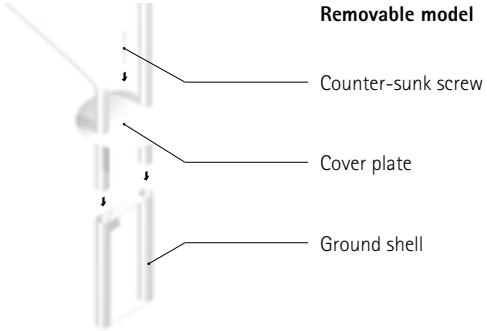
Note

For the removable version, the cover plate is needed.

		Bicycle stand	Cover plate (optional)
451	Steel S235, galvanised	**451.003**	**455.003**
451	Steel S235, powder-coated	**451.013**	**455.013**
451	Stainless steel 1.4301	**451.004**	**455.004**

Ground shell for removable model: **456.003**

ST AISI

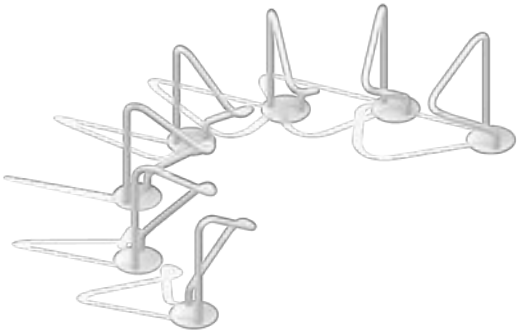


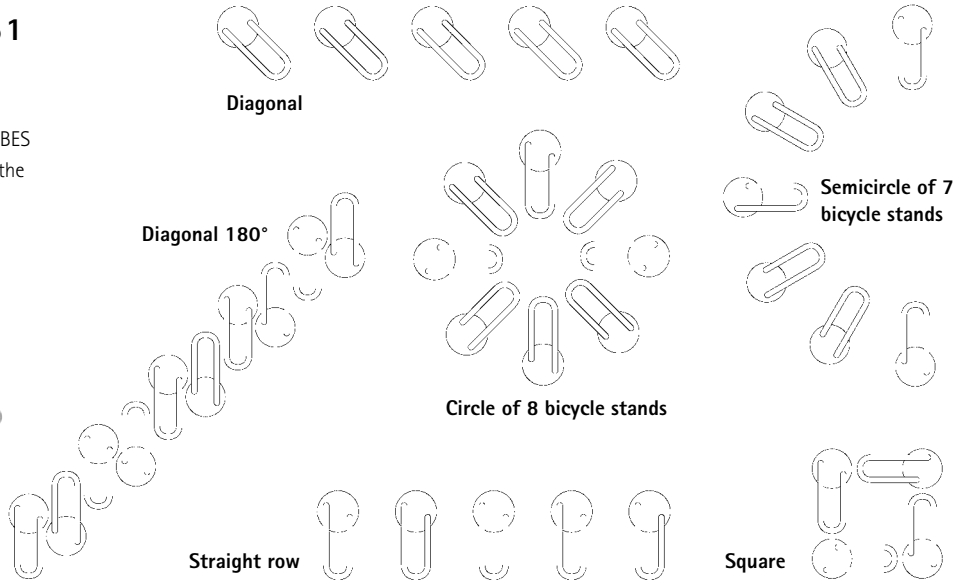
Detailed information can be found on the catalogue's back cover fold-out →

BICYCLE-STAND 450 | 451

Sample configurations

These examples for designing parking areas with the ABES Bicycle-Stand 450 or 451 may serve as inspiration for the variety of configuration options.

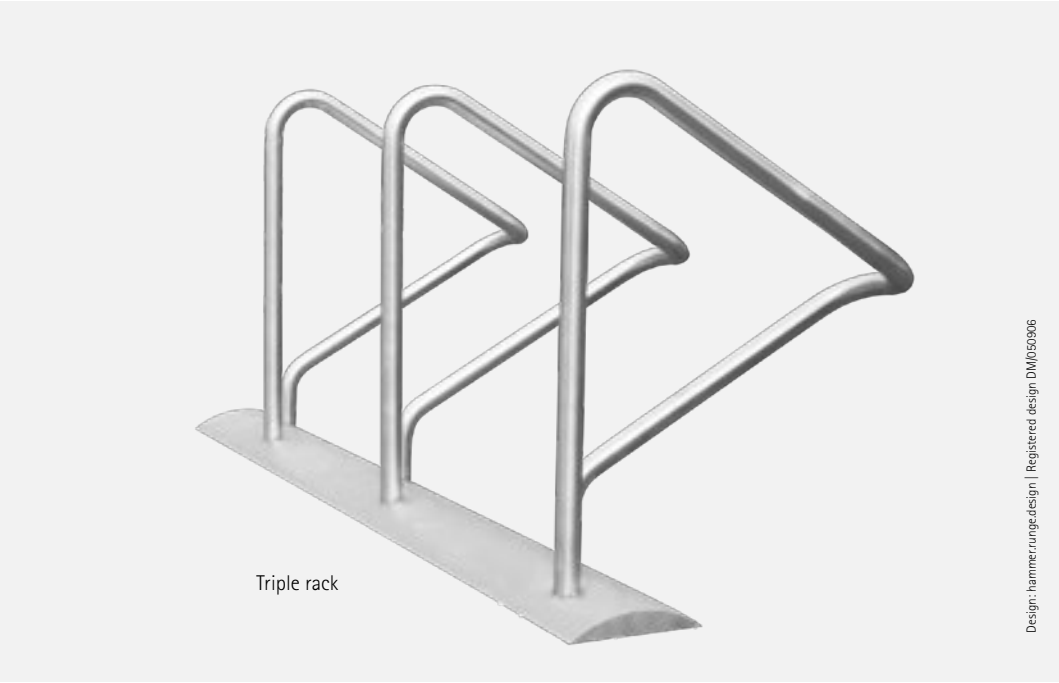




1 Bicycle-Stand 450-5
Powder-coated, DB703 glimmer grey

2 Bicycle-Stand 450-1
Powder-coated, DB703 glimmer grey

3 Bicycle-Stand 450-2
Powder-coated, DB703 glimmer grey



Triple rack

Design: hammer.runge.design | Registered design DM/050906

Note

The division into segments of 2 or 3 racks and the row adapter plate allow the installation of any number of racks to create a row parking facility.

BICYCLE-STAND 450-1 row configuration

Steel + Stainless steel | Double or triple racks, prepared for row connection

Specifications

Two or three adjacent bars made of bent steel tube with a tube diameter of 42.4 × 2.5 mm, a vertical rear tube run, and with staggered tube ends. Each bar is welded at an angle of 90° (45° on request) to the curved base plate which can be assembled in rows at both ends.

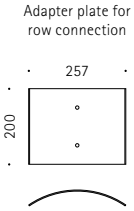
Mounting

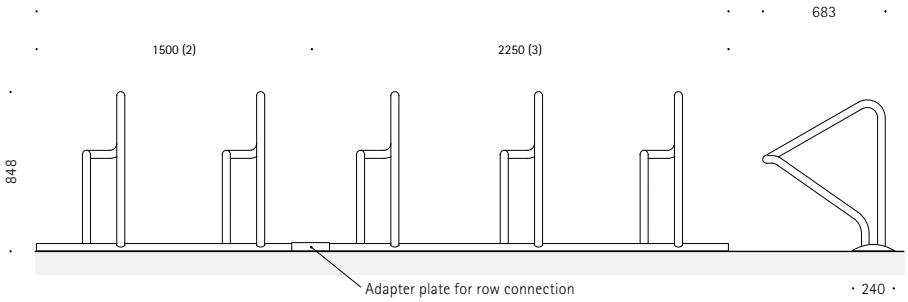
Screw-on

Finish

- Stainless steel 1.4301 smoothed, grain 240
  Optional: electropolished/high-gloss
- Steel S235, galvanised with powder coating in standard RAL colours or DB 703
- Other colours available on request at a surcharge

Installation example: combination of 2 and 3 rack row system





		Double rack	Triple rack	Adapter plate
450-1 Row configuration	Steel S235, galvanised	**450.201**	**450.301**	**450.901**
450-1 Row configuration	Steel S235, powder-coated	**450.211**	**450.311**	**450.903**
450-1 Row configuration	Stainless steel 1.4301	**450.202**	**450.302**	**450.902**

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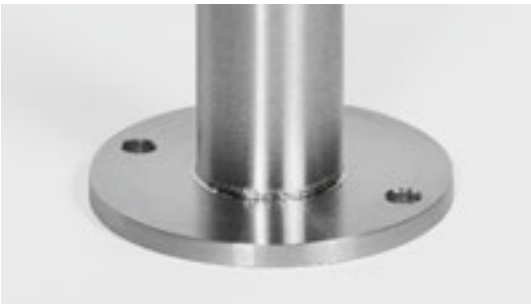
Detailed information can be found on the catalogue's back cover fold-out →



BICYCLE-STAND 476

Steel + Stainless steel

Specifications

U-rack made of steel tube with a tube diameter of 48 mm and a knee rail, optionally with or without knee rail.

Mounting

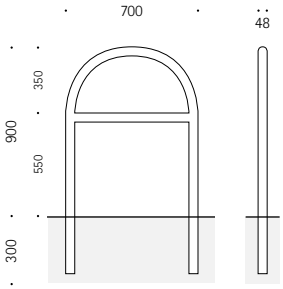
Concrete embedment

Alternative: version with two flanges to enable screwing

Option: removable with ground shells

Finish

- Stainless steel 1.4301 smoothed, grain 240
  Optional: electropolished/high-gloss
- Steel S235, galvanised with powder coating in standard RAL colours or DB 703
- Other colours available on request at a surcharge
- Tube dimensions, heights and widths other than specified are available on request and at an additional cost
- Optionally with or without knee rail



		Concrete embedding	With flanges to enable screwing
Bicycle-Stand 476 without knee rail	Steel S235, galvanised	**476.001**	**476.040**
Bicycle-Stand 476 without knee rail	Steel S235, powder-coated	**476.101**	**476.140**
Bicycle-Stand 476 without knee rail	Stainless steel 1.4301	**476.201**	**476.240**
Bicycle-Stand 476 with knee rail	Steel S235, galvanised	**476.301**	**476.340**
Bicycle-Stand 476 with knee rail	Steel S235, powder-coated	**476.401**	**476.440**
Bicycle-Stand 476 with knee rail	Stainless steel 1.4301	**476.501**	**476.540**

ST AISI

2020

For available accessories and special designs, refer to pages 158–160 →

BICYCLE-STAND 477

Steel + Stainless steel

Specifications

Rack made of a narrow U-shaped steel tube with a diameter of 48 mm, optionally with or without knee rail.

Mounting

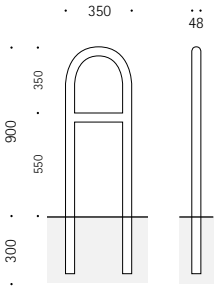
Concrete embedment

Alternative: version with two flanges to enable screwing

Option: removable with ground shells

Finish

- Stainless steel 1.4301 smoothed, grain 240
  Optional: electropolished/high-gloss
- Steel S235, galvanised with powder coating in standard RAL colours or DB 703
- Other colours available on request at a surcharge
- Tube dimensions, heights and widths other than specified are available on request and at an additional cost
- Optionally with or without knee rail



		Concrete embedding	With flanges to enable screwing
Bicycle-Stand 477 without knee rail	Steel S235, galvanised	**477.001**	**477.040**
Bicycle-Stand 477 without knee rail	Steel S235, powder-coated	**477.101**	**477.140**
Bicycle-Stand 477 without knee rail	Stainless steel 1.4301	**477.201**	**477.240**
Bicycle-Stand 477 with knee rail	Steel S235, galvanised	**477.301**	**477.340**
Bicycle-Stand 477 with knee rail	Steel S235, powder-coated	**477.401**	**477.440**
Bicycle-Stand 477 with knee rail	Stainless steel 1.4301	**477.501**	**477.540**

ST AISI

2020

Detailed information can be found on the catalogue's back cover fold-out →

BICYCLE-STAND 470

Steel + Stainless steel

Specifications

Bike rail made of a bent steel tube with a tube diameter of 48,3 mm, optionally with or without knee rail.

Mounting

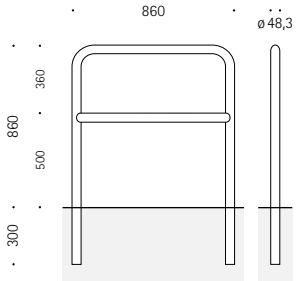
Concrete embedment

Alternative: version with two flanges to enable screwing

Option: removable with ground shells

Finish

- Stainless steel 1.4301 smoothed, grain 240
  Optional: electropolished/high-gloss
- Steel S235, galvanised with powder coating in standard RAL colours or DB 703
- Other colours available on request at a surcharge
- Tube dimensions, heights and widths other than specified are available on request and at an additional cost
- Optionally with or without knee rail



		Concrete embedding	With flanges to enable screwing
Bicycle-Stand 470 without knee rail	Steel S235, galvanised	**470.001**	**470.040**
Bicycle-Stand 470 without knee rail	Steel S235, powder-coated	**470.101**	**470.140**
Bicycle-Stand 470 without knee rail	Stainless steel 1.4301	**470.201**	**470.240**
Bicycle-Stand 470 with knee rail	Steel S235, galvanised	**470.301**	**470.340**
Bicycle-Stand 470 with knee rail	Steel S235, powder-coated	**470.401**	**470.440**
Bicycle-Stand 470 with knee rail	Stainless steel 1.4301	**470.501**	**470.540**

ST AISI

For available accessories and special designs, refer to pages 158–160 →

Note

The division into segments of 2 or 3 racks and the row connector allow the installation of any number of racks to create a row parking facility.

BICYCLE-STAND 452

Steel + Stainless steel | Double or triple racks, prepared for row connection

Specifications

Two or three U-rack steel tubes with a tube diameter of 42.4 mm × 2.5 mm, bolted onto two flat bars which can be assembled in rows.

Holes for ground anchor bolts provided.

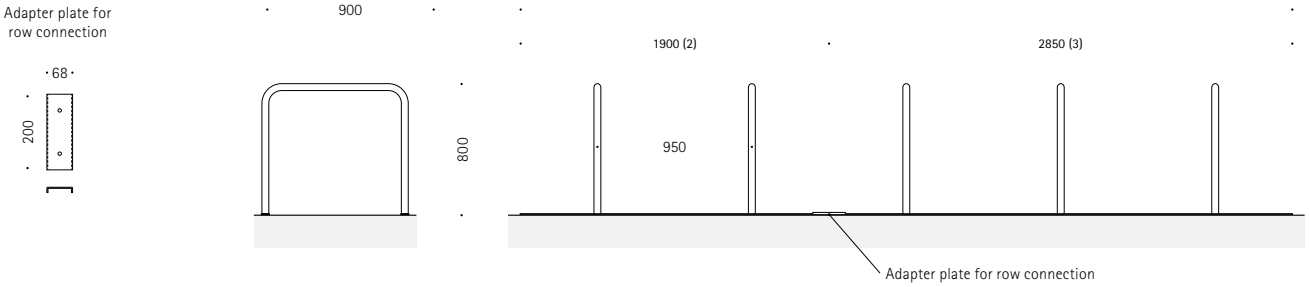
Mounting

Screw-on

Finish

- Stainless steel 1.4301 smoothed, grain 240
  Optional: electropolished/high-gloss
- Steel S235, galvanised with powder coating in standard RAL colours or DB 703
- Other colours available on request at a surcharge
- Tube dimensions, heights and widths other than specified are available on request and at an additional cost
- Optionally with knee rail

Installation example: combination of 2 and 3 rack row system



		Double rack	Triple rack	Adapter plate for row connection
Bicycle-Stand 452	Steel S235, galvanised	**452.201**	**452.301**	**452.901**
Bicycle-Stand 452	Steel S235, powder-coated	**452.211**	**452.311**	**452.903**
Bicycle-Stand 452	Stainless steel 1.4301	**452.202**	**452.302**	**452.902**

ST AISI

Detailed information can be found on the catalogue's back cover fold-out →

BICYCLE-STAND 453

Steel + Stainless steel

Specifications

U-rack made of perpendicular steel profiles (rectangular profile 50 × 20 mm mitre-cut), optionally with knee rail.

ST AISI

BICYCLE-STAND 453 LED

Steel + Stainless steel

Specifications

Bike rail made of right-angled steel profiles with LED strip on the underside of the cross tube (50 × 20 mm rectangular profile, mitre-cut). Operated with 24 V low voltage, 1 m connector cable with plug socket at the base of the rail. IP Code IP67, optionally with knee rail.

Technical information

LED strip (approx. 24.5 × 770 mm) on the underside of the cross tube

Power supply:	24 Volt DC
Power input:	ca. 6,7 W
Luminous flux:	approx. 560 lm
Beam angle:	120°
Light colour:	4000 K
Light output:	CRI > 80
IP Code IP67:	IP67
Connector cable:	approx. 1 m with plug, IP67

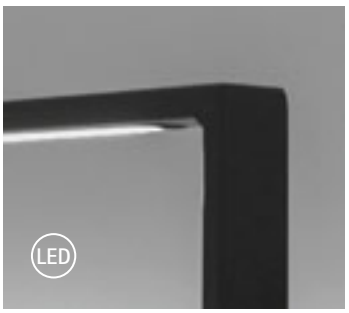
Note

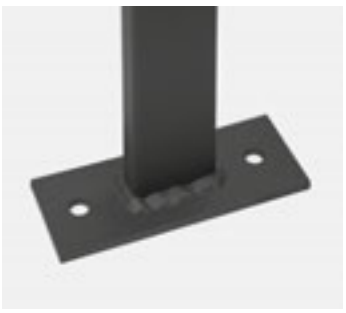
- Including power cable, consisting of a bollard-sided cable with a plug (IP67, 50 cm) and a ground-sided cable with a socket (IP67, 150 cm).
- Technical components for power supply and control are not included. The connection has to be made by the customer.

The LED unit is available as a spare part and be replaced in case of damage.

ST AISI LED

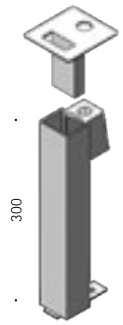
For available accessories and special designs, refer to pages 158–160 →

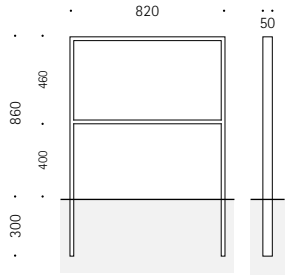




Usable side by side
as a handrail or railing
(see page 141) ▼

Ground shell with clamping cover rosette
(removable version)*





Mounting

Concrete embedment

Option: removable with ground shells

Alternative: version with two flanges to enable screwing

Finish

- Stainless steel 1.4301 smoothed, grain 240
  Optional: electropolished/high-gloss
- Steel S235, galvanised with powder coating in standard RAL colours or DB 703
- Other colours available on request at a surcharge
- Profile dimensions, heights and widths other than specified are available on request and at an additional cost
- Optionally with knee rail

		Concrete embedding/Removable*	With flanges to enable screwing
453	Steel S235, galvanised	**453.001**	**453.240**
453	Steel S235, powder-coated	**453.011**	**453.040**
453	Stainless steel 1.4301	**453.002**	**453.140**

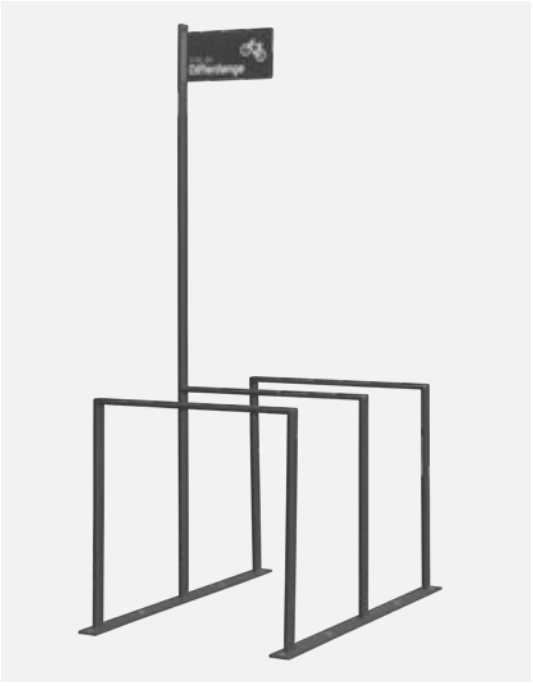
		Concrete embedding	Removable*	With flanges to enable screwing
453 LED	Steel S235, galvanised	**453.101**	**453.201**	**453.540**
453 LED	Steel S235, powder-coated	**453.111**	**453.211**	**453.340**
453 LED	Stainless steel 1.4301	**453.102**	**453.202**	**453.440**

Accessories for the removable version*		
Pair of ground shell with clamping cover rosette for 453 + 453 LED	Steel, galvanised	**458.002 + 458.005**
Pair of ground shell with clamping cover rosette for 453 + 453 LED	Steel, powder-coated	**458.002 + 458.006**
Pair of ground shell with clamping cover rosette for 453 + 453 LED	Stainless steel	**458.002 + 458.007**
Cover plates for ground shells		**458.003**

*For the removable version, two ground shells and clamping cover rosettes are mandatory.

ST AISI LED

Detailed information can be found on the catalogue's back cover fold-out →



Sample application

BICYCLE-STAND 473

Steel + Stainless steel | Two, three or four adjacent bicycle stands

Specifications

Two, three or four adjacent Bicycle-Stands 453 made of rectangular steel profiles (50 × 20 mm) with welded mast and rigid flag panel with individual laser cut pattern. Racks are bolted onto two flat bars, prepared to be assembled in a row.

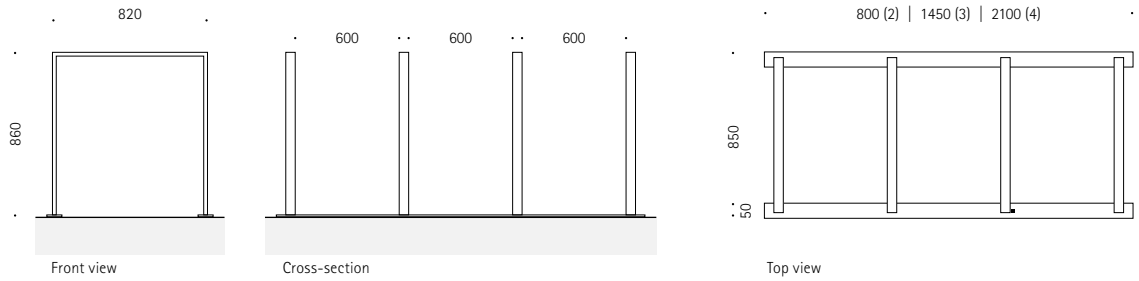
Mounting

Screw-on

Finish

- Stainless steel 1.4301 smoothed, grain 240
  Optional: electropolished/high-gloss
- Steel S235, galvanised with powder coating in standard RAL colours or DB 703
- Other colours available on request at a surcharge
- Profile dimensions, heights and widths other than specified are available on request and at an additional cost
- Optionally with knee rail

Also available with LED strip on the underside of the cross tube or with knee rail *(s. page 126)*

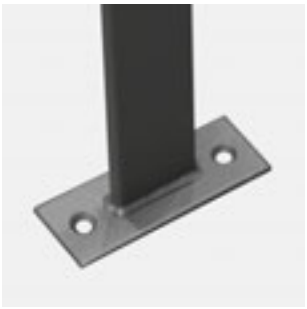


Front view | Cross-section | Top view

		2 bicycle stands	3 bicycle stands	4 bicycle stands
Bicycle-Stand 473	Steel S235, galvanised	**473.201**	**473.301**	**473.401**
Bicycle-Stand 473	Steel S235, powder-coated	**473.211**	**473.311**	**473.411**
Bicycle-Stand 473	Stainless steel 1.4301	**473.202**	**473.302**	**473.402**

ST AISI

For available accessories and special designs, refer to pages 158–160 →



BICYCLE-STAND 471

Steel + Stainless steel

Specifications

Bike rail with rounded edges made of 60 x 12 mm flat steel, optionally with or without knee rail.

Mounting

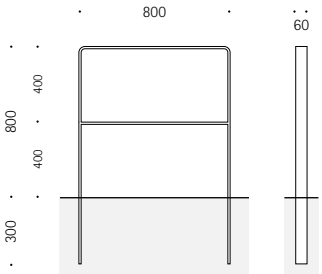
Concrete embedment

Alternative: version with two flanges to enable screwing

Option: removable with ground shells

Finish

- Stainless steel 1.4301 smoothed, grain 240
  Optional: electropolished/high-gloss
- Steel S235, galvanised with powder coating in standard RAL colours or DB 703
- Other colours available on request at a surcharge
- Additional material thicknesses, heights and widths available upon request and at a surcharge
- Optionally with or without knee rail



		Concrete embedding	With flanges to enable screwing
Bicycle-Stand 471 without knee rail	Steel S235, galvanised	**471.001**	**471.040**
Bicycle-Stand 471 without knee rail	Steel S235, powder-coated	**471.101**	**471.140**
Bicycle-Stand 471 without knee rail	Stainless steel 1.4301	**471.201**	**471.240**
Bicycle-Stand 471 with knee rail	Steel S235, galvanised	**471.301**	**471.340**
Bicycle-Stand 471 with knee rail	Steel S235, powder-coated	**471.401**	**471.440**
Bicycle-Stand 471 with knee rail	Stainless steel 1.4301	**471.501**	**471.540**

ST AISI

Detailed information can be found on the catalogue's back cover fold-out →

BICYCLE-STAND 472

Steel + Stainless steel

Specifications

Rack with knee rail and rounded edges made of 80 x 10 mm bent flat steel.

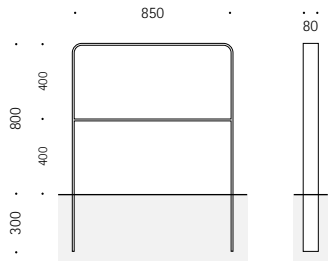
Mounting

Concrete embedment

Alternative: version with two flanges to enable screwing

Finish

- Stainless steel 1.4301 smoothed, grain 240
  Optional: electropolished/high-gloss
- Steel S235, galvanised with powder coating in standard RAL colours or DB 703
- Other colours available on request at a surcharge
- Additional material thicknesses, heights and widths available upon request and at a surcharge
- Optionally without knee rail



		Concrete embedding	For screwing
472	Steel S235, galvanised	**472.001**	**472.040**
472	Steel S235, powder-coated	**472.101**	**472.140**
472	Stainless steel 1.4301	**472.201**	**472.240**

ST AISI

BICYCLE-STAND 474

Steel + Stainless steel

Specifications

Rack with knee rail made of flat steel 80 x 10 mm with mitred edges and welded (90°).

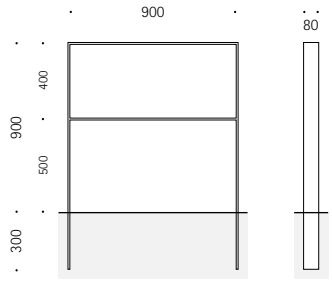
Mounting

Concrete embedment

Alternative: version with two flanges to enable screwing

Finish

- Stainless steel 1.4301 smoothed, grain 240
  Optional: electropolished/high-gloss
- Steel S235, galvanised with powder coating in standard RAL colours or DB 703
- Other colours available on request at a surcharge
- Additional material thicknesses, heights and widths available upon request and at a surcharge
- Optionally without knee rail



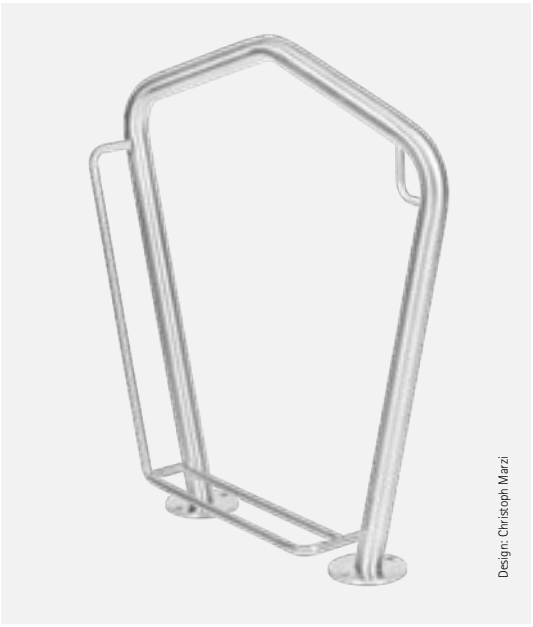
		Concrete embedding	For screwing
474	Steel S235, galvanised	**474.001**	**474.040**
474	Steel S235, powder-coated	**474.101**	**474.140**
474	Stainless steel 1.4301	**474.201**	**474.240**

ST AISI

For available accessories and special designs, refer to pages 158–160 →

▶
High/low position to save parking space

▼
Suitable for all bicycles with a tire width of up to approx. 60 mm.



Design: Christoph Marzi

BICYCLE-STAND 480

Steel + Stainless steel

Specifications

Bicycle stand made of triple bent steel tube with a tube diameter of 42 mm. Lateral steel bar construction to store the front wheel at a 90° angle. Inward eyelet for attaching a bicycle lock

Mounting

Concrete embedment

Alternative: version with two flanges to enable screwing

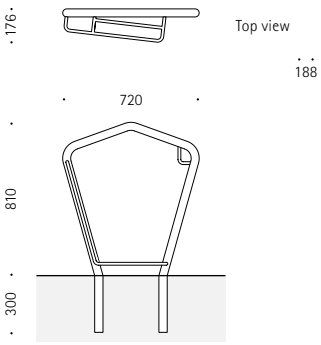
Finish

- Stainless steel 1.4301 smoothed, grain 240
  Optional: electropolished/high-gloss
- Steel S235, galvanised with powder coating in standard RAL colours or DB 703
- Other colours available on request at a surcharge

On request:

- Bicycle stand with two-sided wheel storage (2 bikes per bracket)
- Bicycle stand row configuration bolted onto flat steel rails
- High/low position to save parking space

▸ *Suitable for all bicycles with a tire width of up to approx. 60 mm.*



		Concrete embedding	With flanges to enable screwing
Bicycle-Stand 480	Steel S235, galvanised	**480.001**	**480.040**
Bicycle-Stand 480	Steel S235, powder-coated	**480.101**	**480.140**
Bicycle-Stand 480	Stainless steel 1.4301	**480.201**	**480.240**

ST AISI

2020

Detailed information can be found on the catalogue's back cover fold-out →

Bicycle stands recommended by the ADFC

Finding the right model among a large selection of bicycle stands is mostly not easy. In order to define a common standard for bicycle parking facilities, the "Allgemeine Deutsche Fahrrad-Club" (ADFC) has summarized certain criteria in a certification.

Even though our bike racks have proven themselves in every possible situation over the past 25 years, we are also offering ADFC recommended bicycle stands from this year on.

On the topic of cycling, the ADFC is considered as an institution in Germany. As an interests group, it is committed to the consistent promotion of bicycles in road traffic. Furthermore, the association supports manufacturers in the development of serviceable products related to bicycles. The ADFC experts have also made recommendations for bicycle parkers which are all met by our ADFC recommended bicycle stands: they are easy to use and are suitable for a wide range of models. They also offer the option of securing bikes on both the front and the rear wheel. Furthermore, the ADFC certified bicycle stands are protected against vandalism, offer extra space between the individual bikes and are no hazardous obstacle for pedestrians. Last but not least, their design prevents the handlebar of the bike to turn, even with strong cross winds, and provides a stable and secure stand even in poor conditions.

See for yourself the advantages of our ADFC recommended bicycle stands – you will find the entire range on the following pages.

Technical article
www.abes-online.com

Bicycle traffic – a challenge

Many cities and municipalities have been struggling with increased traffic for years. Promoting bicycle transport is a possible solution to reduce road congestion – associated with structural changes. Making this mode of transport to be safe in an urban environment and a real alternative to private motorized transport, the infrastructure has to be adapted to its particular needs.

Read the full article on our website:

https://abes-online.com/en/guides/bicycle-traffic-a-challenge/

For available accessories and special designs, refer to pages 158–160 →

- ✔ LOW REQUIREMENTS ON THE SITE (MINOR UNDERGROUND WORK)
- ✔ NO ROLLING AWAY OR TIPPING OVER

TESTED BY THE ADFC FOR CONVENIENT AND CAUTIOUS PARKING.

BICYCLE-STAND 1.417

Steel

Specifications

Bicycle stand, slightly inclined to the right, made of round steel tubes (Ø 27 mm) with single sided bike support made of steel rods.
ADFC recommended quality, ADFC test no. Q 1203.

Mounting

For bolting with trapezoidal rails

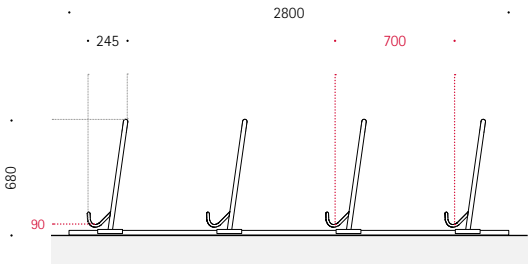
On request: version for concrete embedment or extended version for screw fixing at –200 mm

Finish

- Steel S235, galvanised with powder coating in standard RAL colours or DB 703
- Other colours available on request at a surcharge
- On request: Stainless steel 1.4301, electropolished/high-gloss

▸ *Details and additional versions in ADFC recommended quality on request or in the ABES online shop*

Configuration example: 4 rack row system for bolting, 90° – for 4 bicycles



Single sided, low
Rack spacing recommended by the ADFC: 700 mm

	galvanised	galvanised/powder-coated
Single rack for bolting with trapezoidal rails, bike support 90°	**1.417.101**	**1.417.102**
Single rack for bolting with trapezoidal rails, bike support 60° left	**1.417.104**	**1.417.105**
Single rack for bolting with trapezoidal rails, bike support 60° right	**1.417.106**	**1.417.107**
Single rack for concrete embedment	**1.417.110**	**1.417.111**

ST

No distribution in Austria and Switzerland 2020

Detailed information can be found on the catalogue's back cover fold-out →

- ✔ LOW REQUIREMENTS ON THE SITE (MINOR UNDERGROUND WORK)
- ✔ VERSATILE THANKS TO MANY VARIANTS
- ✔ NO ROLLING AWAY OR TIPPING OVER
- ✔ CAUTIOUS PARKING AS THE BIKE FRAME DOES NOT TOUCH THE MAIN BAR

TESTED BY THE ADFC FOR CONVENIENT AND CAUTIOUS PARKING.

BICYCLE-STAND 1.414

Steel

Specifications

Bicycle stand made of round steel tube (Ø 42,4 mm) with single or double sided wheel support made of solid steel (Ø 16 mm) and either high or low support position. Possibility to attach a bike lock.
ADFC recommended quality, ADFC test no. Q 0904.

Mounting

For bolting with trapezoidal rails

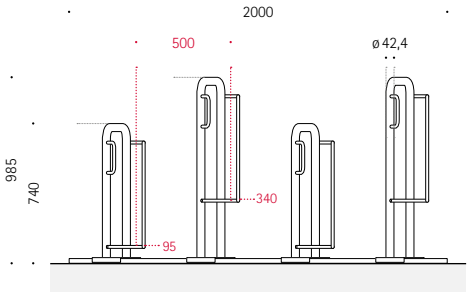
On request: version for concrete embedment or extended version for screw fixing at –250 mm

Finish

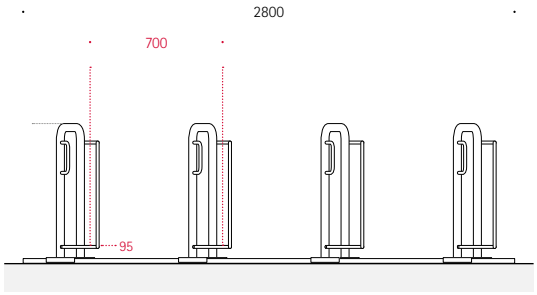
- Steel S235, galvanised with powder coating in standard RAL colours or DB 703
- Other colours available on request at a surcharge
- On request: Stainless steel 1.4301, electropolished/high-gloss

▸ *Details and additional versions in ADFC recommended quality on request or in the ABES online shop*

Configuration example: 4 rack row system on trapezoidal rail, for bolting, 90° bike support



Single sided, low/high
Rack spacing recommended by the ADFC: 500 mm



Single sided, low/low
Rack spacing recommended by the ADFC: 700 mm

				high/low	low/low
4 rack row system for bolting, 90°	Single sided	for 4 bicycles	Steel S235, galvanised	**1.414.411**	**1.414.412**
4 rack row system for bolting, 90°	Double sided	for 8 bicycles	Steel S235, galvanised	**1.414.421**	**1.414.422**

ST

No distribution in Austria and Switzerland 2020

For available accessories and special designs, refer to pages 158–160 →

- ✔ EXTENDED LOCKING RACK FOR NEWER FRAME GEOMETRIES
- ✔ LOW REQUIREMENTS ON THE SITE (MINOR UNDERGROUND WORK)
- ✔ VERSATILE THANKS TO DIFFERENT VARIATIONS
- ✔ NO ROLLING AWAY OR TIPPING OVER
- ✔ CAUTIOUS PARKING AS THE BIKE FRAME DOES NOT TOUCH THE MAIN BAR

TESTED BY THE ADFC FOR CONVENIENT AND CAUTIOUS PARKING.

BICYCLE-STAND 1.415

Steel

Specifications

Bicycle stand made of round steel tube (Ø 33,7 mm) with single or double sided wheel support made of solid steel (Ø 16 mm) and either high or low support position. Possibility to attach a bike lock.
ADFC recommended quality, ADFC test no. Q 1204.

Mounting

For bolting with trapezoidal rails

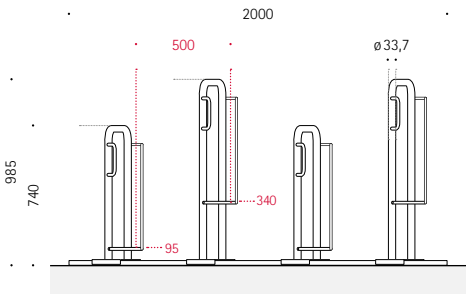
On request: version for concrete embedment or extended version for screw fixing at –250 mm

Finish

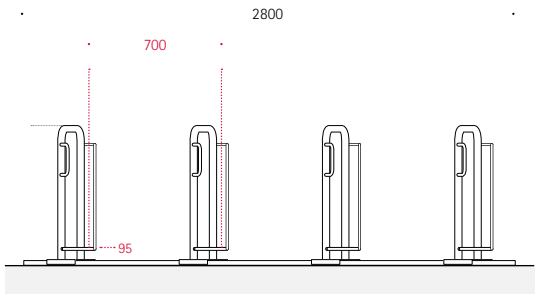
- Steel S235, galvanised with powder coating in standard RAL colours or DB 703
- Other colours available on request at a surcharge
- On request: Stainless steel 1.4301, electropolished/high-gloss

▸ *Details and additional versions in ADFC recommended quality on request or in the ABES online shop*

Configuration example: 4 rack row system on trapezoidal rail, for bolting, 90° bike support



Single sided, low/high
Rack spacing recommended by the ADFC: 500 mm



Single sided, low/low
Rack spacing recommended by the ADFC: 700 mm

				high/low	low/low
4 rack row system for bolting, 90°	Single sided	for 4 bicycles	Steel S235, galvanised	**1.415.411**	**1.415.412**
4 rack row system for bolting, 90°	Double sided	for 8 bicycles	Steel S235, galvanised	**1.415.421**	**1.415.422**

ST

No distribution in Austria and Switzerland 2020

Detailed information can be found on the catalogue's back cover fold-out →

- ✔ IN ALL WHEEL SUPPORT VARIANTS (HIGH/LOW), THE MAIN RACK REMAINS AT THE SAME HEIGHT
- ✔ LOW REQUIREMENTS ON THE SITE (MINOR UNDERGROUND WORK)
- ✔ NO ROLLING AWAY OR TIPPING OVER

TESTED BY THE ADFC FOR CONVENIENT AND CAUTIOUS PARKING.

BICYCLE-STAND 1.416

Steel

Specifications

Bicycle stand made of round steel tube (Ø 42,4 mm) wheel support made of solid steel (Ø 16 mm) and either high or low support position. Possibility to attach a bike lock.
ADFC recommended quality, ADFC test no. Q 0901.

Mounting

For bolting with trapezoidal rails

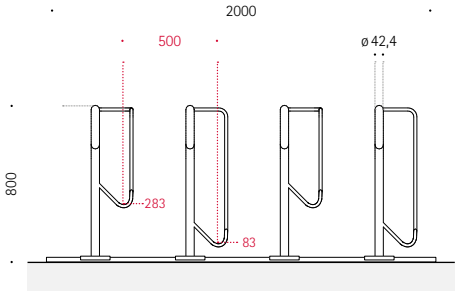
On request: version for concrete embedment or extended version for screw fixing at –200 mm

Finish

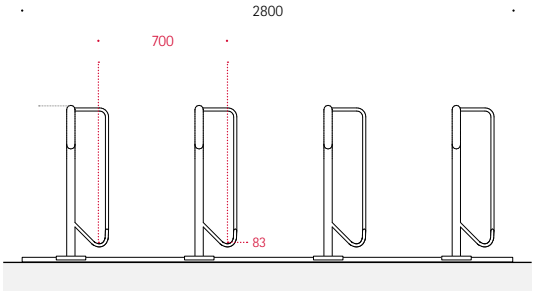
- Steel S235, galvanised with powder coating in standard RAL colours or DB 703
- Other colours available on request at a surcharge
- On request: Stainless steel 1.4301, electropolished/high-gloss

▸ *Details and additional versions in ADFC recommended quality on request or in the ABES online shop*

Configuration example: 4 rack row system on trapezoidal rail, for bolting, 90° bike support



Single sided, high/low
Rack spacing recommended by the ADFC: 500 mm



Single sided, low/low
Rack spacing recommended by the ADFC: 700 mm

				high/low	low/low
4 rack row system for bolting, 90°	Single sided	for 4 bicycles	Steel S235, galvanised	**1.416.411**	**1.416.412**
4 rack row system for bolting, 90°	Double sided	for 8 bicycles	Steel S235, galvanised	**1.416.421**	**1.416.422**

ST

No distribution in Austria and Switzerland

2020

For available accessories and special designs, refer to pages 158–160 →

CONFIGURATION ASSISTANT for bicycle stands recommended by the ADFC

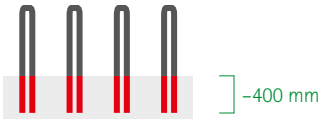
using the example of the bicycle parker 1.414

Six simple steps to the desired configuration.

STEP 1: FASTENING

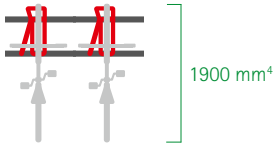
FOR SCREW FIXING
Single racks in a row – mounted on trapezoidal rails[1]

FOR CONCRETE EMBEDMENT
Single rack

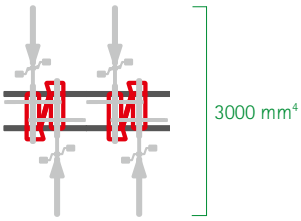


STEP 2: : SINGLE OR DOUBLE SIDED BIKE SUPPORT

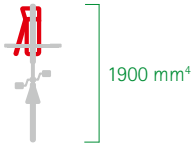
SINGLE SIDED
1 bike support per rack



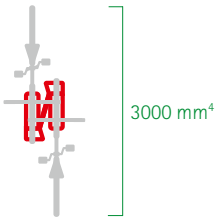
DOUBLE SIDED
2 bike supports per rack



SINGLE SIDED
1 bike support per rack

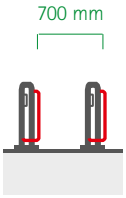


DOUBLE SIDED
2 bike supports per rack

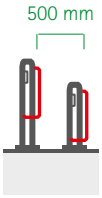


STEP 3: BIKE SUPPORT HEIGHT

LOW/LOW
Rack spacing recommended by the ADFC:



HIGH/LOW
Rack spacing recommended by the ADFC:



LOW
Free arrangement[1]

HIGH
Free arrangement[2]

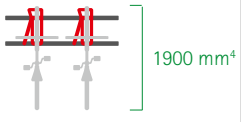
STEP 4: BIKE SUPPORT ANGLE

Available only for single sided and low/low configuration

45° LEFT[3]
ergonomically recommended

45° RIGHT[3]

90°



FREE CHOICE OF ANGLE FOR SINGLE RACK
Determined by the client

STEP 5: CHOICE OF MATERIAL

ST **STEEL S235, GALVANISED**

ST **STEEL S235, GALVANISED AND POWDER-COATED**

AISI **STAINLESS STEEL 1.4301 ELECTROPOLISHED/HIGH-GLOSS**

STEP 6: NUMBER OF RACKS

Single side option: 1 bike support per rack
Double side option: 2 bike supports per rack

[1]Extended version for underground bolting on request [2]ADFC recommended rack spacing: 700 mm or 500 mm [3]for Bicycle-Stand 1.417: angle = 60°
[4]Stellraumtiefe bei gebräuchlichen Fahrrädern mit einer Gesamtlänge von ca. 1900 mm

06

PARKLANDS & CITY

Handrail

Attractive and safe route guidance in the city center.

Tree stand

Removable (Christmas) tree stand (with 3p-Technology) for your festive city center.

Planters

Shrubs, small trees and other plants in the city.

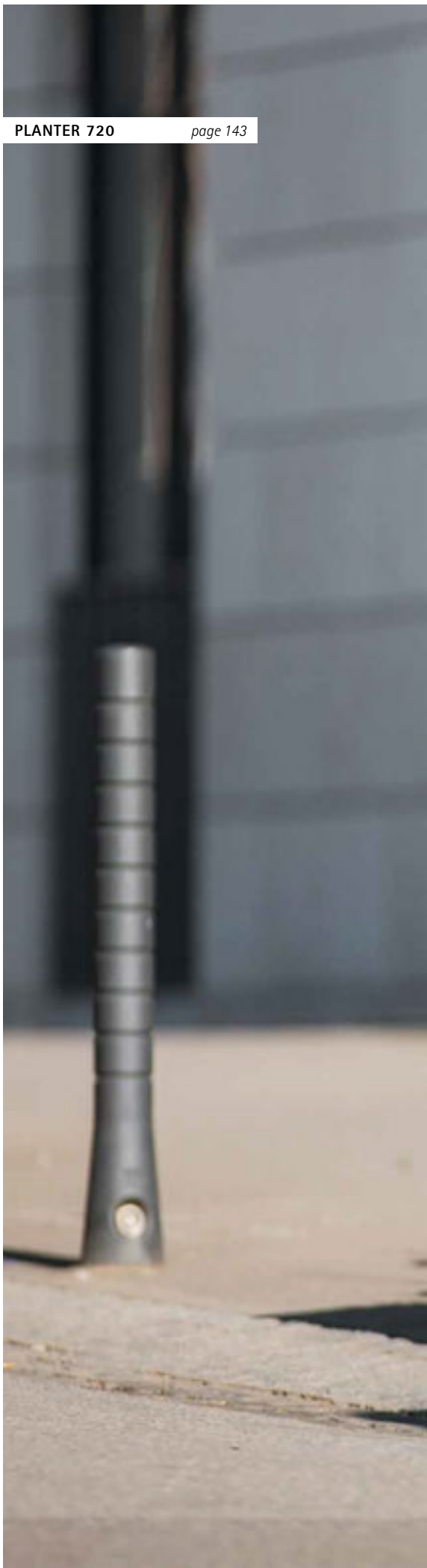
Tree guard

For the protection of trees or plants.

Fire basket

Pleasurable anticipation of a social gathering after work.

1: Tree-Guard 662 *page 144* | **2: Fire-Basket 935** *page 145*



PLANTER 720 *page 143*

		710 S	710 M	710 L	710 XL	720	721
		Planter	Planter	Planter	Planter	Planter	Planter
Catalogue page		**142**	**142**	**142**	**142**	**143**	**143**
Material	Aluminium (with powder coating)	-	-	-	-	720.004	721.004
	Steel S235 (galvanised)	-	-	-	-	-	-
	Steel S235 (galvanised with powder coating)	-	-	-	-	-	-
	Sheet steel (untreated)	-	-	-	-	-	-
	Stainless steel 1.4301 (with powder coating)	710.002	711.002	712.002	713.002	-	-
Mounting	For concrete embedding	-		-	-	-	-
	Removable with ground shell(s)	-	-	-	-	-	-
	With flanges to enable screwing	-	-	-	-	-	-
	Free standing	■	■	■	■	■	■
	With LED strip	-	-	-	-	-	-
	With knee rail	-	-	-	-	-	-
Options	Individual color (RAL/DB)	○	○	○	○	○	○
	Customised laser cuttings	○	○	○	○	○	○
	Individual dimensions	-	-	-	-	-	-
Measurements	Length (in mm)	1200	1500	1800	2000	700	1000
	Width (in mm)	691	650	750	801	700	700
	Height (in mm)	500	500	600	600	800	800
	Capacity (approx. in liters)	210	250	430	450	343	560
	Weight (approx. in kg)	65	68	85	87	35	45
	Design	Doris Herrmann					

		662	935	936	453 (LED)
		Tree Guard	Fire Basket	Tree stand	Bicycle stand as handrail/railing
Catalogue page		**144**	**145**	**141**	**141**
Material	Aluminium (with powder coating)	-	-	-	-
	Steel S235 (galvanised)	662.001	-	936.020	■
	Steel S235 (galvanised with powder coating)	662.011	-	936.120	■
	Sheet steel (untreated)	-	935.001	-	-
	Stainless steel 1.4301 (smoothed, grain 240)	662.002	-	-	■
Mounting	For concrete embedding	■	-	-	■
	Removable with ground shell(s)	■	-	-	■
	With flanges to enable screwing	□	-	-	■
	Free standing	-	■	-	-
	Removable with 3p-Technology	-	-	■ Junction piece without predetermined breaking point	-
	With LED strip	-	-	-	○
	With knee rail	-	-	-	○
Options	Individual color (RAL/DB)	○	-	○	○
	Customised laser cuttings	-	○	-	-
	Individual dimensions	○	-	○	○
Measurements	Length (in mm)	1200	-	-	820 / each stand
	Width (in mm)	1200	Ø 355	Ø 133	50
	Height (in mm)	Variable	750	390	860
	Capacity (approx. in liters)	-	50	Object-Ø max. 95 mm	-
	Weight (approx. in kg)	15	5	3,8	6,5 / each stand
	Design	J. P. Gillen			

■ = Model | □ = On request | ● = Configuration | ○ = Option (with a surcharge) | - = Not available

BICYCLE-STAND 453 (LED)
as handrail or railing

Steel + Stainless steel

Specifications

U-rack made of perpendicular steel profiles (rectangular profile 50 × 20 mm mitre-cut). Other profile dimensions, heights and widths are available upon request at a surcharge.

Finish

· Stainless steel 1.4301 smoothed, grain 240
Optional: electropolished/high-gloss

· Steel S235, galvanised with powder coating in standard RAL colours or DB 703

· Optionally with knee rail

ST AISI LED

For more informations see: BICYCLE-STAND 453 (LED) *page 126*

TREE-STAND 936

Steel | 390 mm

Specifications

Cylindrical stand with three locking screws in the upper area to hold a tree.

Mounting

Removable with 3p-Technology (with junction piece without predetermined breaking point)

Finish

· Steel S235, galvanised with powder coating in standard RAL colours or DB 703

· Other colours available on request at a surcharge

- **Removable with 3p-Technology (Empty ground shell can be covered with ground shell cover)** *See page 13*
- **Other ABES products with 3p-Technology can be mounted on the same ground shell**

		3p-Technology
Tree-Stand 936	Steel S235, galvanised	**936.020**
Tree-Stand 936	Steel S235, powder-coated	**936.120**

ST

3p Technologie

Detailed information can be found on the catalogue's back cover fold-out →

PLANTER 710

Stainless steel

Specifications

Plant pot with curved sides that taper at both ends. The base has apertures which may be sealed with a perforated plate cover. The container stands on rectangular tubes which serve as supports for hoisting equipment.
The apertures of the tubes can be covered with removable caps.

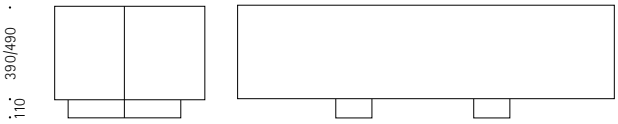
Mounting

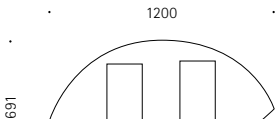
Free standing element

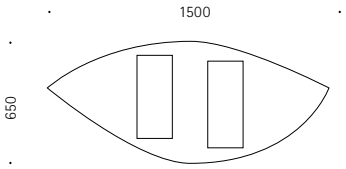
Finish

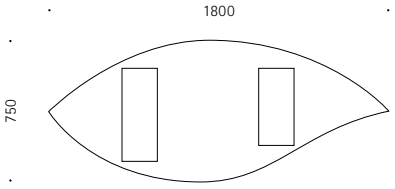
· Stainless steel 1.4301 with powder coating in standard RAL colours or DB 703

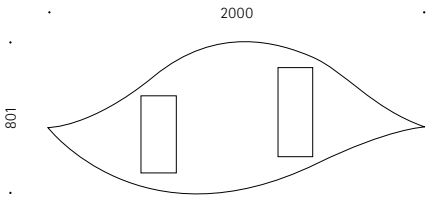
· Other colours available on request at a surcharge











Customised laser cuts available

			Stainless steel 1.4301, powder-coated
Planter 710	S	1200 × 691 mm	**710.002**
Planter 710	M	1500 × 650 mm	**711.002**
Planter 710	L	1800 × 750 mm	**712.002**
Planter 710	XL	2000 × 801 mm	**713.002**

For available accessories and special designs, refer to pages 158–160 →

PLANTER 720 | 721

720 | *Aluminium* | *700 × 700 mm*
721 | *Aluminium* | *700 × 1000 mm*

Specifications

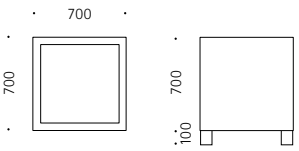
Plant pot with square or oblong basic shape and vertical side walls. Openings are countersunk in the base and closed with a perforated sheet metal cover. The container stands on four individual feet made of square tubes.

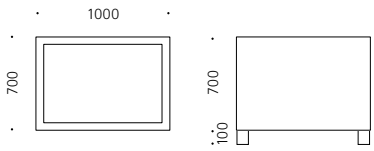
Mounting

Free standing element

Finish

- Aluminium with powder coating in standard RAL colours or DB 703
- Containers are also available without legs and with welded frames for chain suspension upon request





Customised laser cuts available

		Aluminium, powder-coated
Planter 720	700 mm × 700 mm	**720.002**
Planter 721	700 mm × 1000 mm	**721.002**

AL

Detailed information can be found on the catalogue's back cover fold-out →

TREE-GUARD 662

Steel + Stainless steel

Specifications

A bent, U-shaped steel frame with a diameter of 48.3 x 2.6 mm.
Three foundations are required.

Optional: a ground shell for the removable model

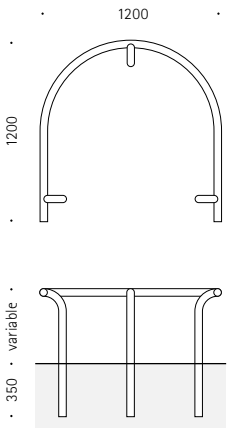
Mounting

Concrete embedment or inserted into a standard ground shell
(not available with 3p-Technology)

Optional: with flanges to enable screwing

Finish

- Stainless steel 1.4301 smoothed, grain 240
  Optional: electropolished/high-gloss
- Steel S235, galvanised with powder coating in standard
  RAL colours or DB 703
- Other colours available on request at a surcharge



	Concrete embedding
S235 steel, galvanised	**662.001**
S235 steel, powder-coated	**662.011**
Stainless steel 1.4301	**662.002**
Ground shell for removable model	**600.200**

ST AISI

Verfügbare Zubehörteile und Sonderausführungen siehe Seite 158–160 →

FIRE-BASKET 935

Sheet steel | 50 l

Specifications

Fire basket made of non-galvanised sheet steel with three welded feet and capacity of approx. 50 liters. Suitable as a simple fireplace or grill for all kinds of occasions.

Customised laser cuts at the top, middle and case ensure diverse designs, and make the basket unique.

The holes in the upper area may be used for spits. A grate is available as an accessory.

Using non-galvanised sheet steel ensures no harmful vapours are formed as heat builds up.

Mounting

Free-standing, with three feet

Finish

· Untreated steel

· Default or customised laser cutting

Measurements

Diameter: approx. 355 mm

Height: approx. 750 mm

Weight: approx. 5,0 kg

		Sheet steel
Fire-Basket 935	without laser cutting	**935.001**
Fire-Basket 935	with flame	**935.101**
Fire-Basket 935	with flame + name	**935.201**
Fire-Basket 935	with 1 preferred laser cutting	**935.301**
Fire-Basket 935	with 2 preferred laser cuttings	**935.401**

Accessories

Matching grate	**935.002**
Soil protection	**935.003**

▶ **Ask about additional accessories**

▶ **Customised laser cuttings possible**

ST

Detailed information can be found on the catalogue's back cover fold-out →

07

SHELTERS

In relation to new construction or renovation measures, appropriate shelters that – in terms of design and technology – are easy to integrate, simply belong to a well ordered environment.

Customers can choose between open shelters which protect the bicycles from rain, snow, sun, and heat, and semi-open and lockable shelters in which valuable bicycles and garbage cans are equally safe from prying eyes.

Available in different versions, the modular shelters can be individually adapted.

Shelter 1.310 *page 148*

SHELTER 1.310

Modular multi-purpose shelter system

Specifications *(Basic unit)*

Multi-purpose shelter, closed on all sides on request, for garbage cans, bicycles, and other equipment. Weatherproof steel construction with lockable sliding doors, panels made of perforated sheet metal and roof covering made of corrugated sheet metal.

Supports with ground plates for bolting. Basic unit with add-on elements for extension.

Fastening

Supports with ground plates for bolting at -200 mm on foundations to be built by the customer according to our specifications.

Installation is possible on request, fastening material included.

Specifications

Construction

Solid steel construction made of hot-dip galvanized square and rectangular steel tubes. Supports with ground plates for bolting at -200 mm. Rectangular tube roof rack.

Optional: with additional powder coating in RAL color.

Door

Two-part free-hanging sliding door with blended caster wheels (low-noise). Hook lock with profile cylinder (single key) with 6 keys.

Roof

Pent roof, optionally tilted backward or forward. Roof covering made of corrugated sheet metal (aluminium-zinc).

Optional: trapezoidal sheet, galvanized and powder-coated in RAL 9002 gray-white (surcharge), three-sided parapet (height 140 mm).

Back and side panels

Fillings made of perforated aluminium sheet (natural, thickness 2 mm, hole diameter 20 mm).

Optional: wood (larch, untreated), HPL facade panels (TRESPA® in uni-colors) or double-rod mats (steel, galvanized).

Drainage

Free draining

Optional: with gutter and downspout

Snow load (sk)

1,50 kN/m²

Wind load

Zone 2

- *Other dimensions, a preparation for roof greening, higher snow loads, lighting, transparent roofing or a double-sided version are available on request and for an additional charge.*
- *Up to 9 bicycles can be stored per basic unit.*

ST

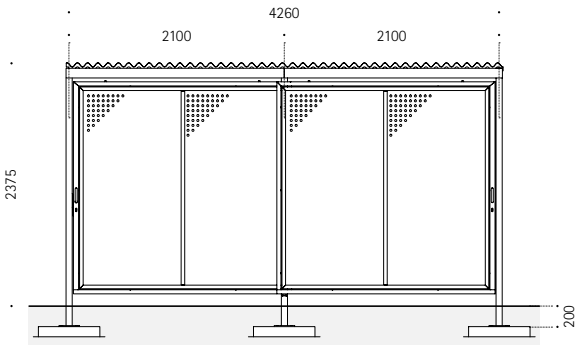
Distribution/assembly only in Luxembourg and Germany 2020

For available accessories and special designs, refer to pages 158–160 →

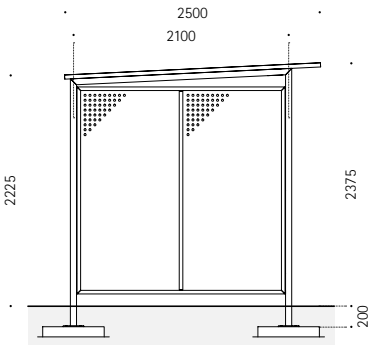
Installation information

- By default, the shelters are designed to be installed on a flat surface.
- The construction can be adapted by the factory to any existing longitudinal or transverse gradient (surcharge).
- The measurements of the ground have to be provided by the customer. The foundation is to be built according to ABES specifications.
- We only carry out the installation if the foundations were made according to our plans.
- Installation by ABES is possible on request, fastening material included.
- ABES does not set up shelters above cellars, underground garages etc. If subsoil conditions are uncertain, the expertise from a structural engineer may be required.
- In individual cases, exceptions are possible after clarification of all details and the presentation of static load calculations.

Shelter 1.310, single sided



Front view



Side view

ST

Distribution/assembly only in Luxembourg and Germany 2020

Detailed information can be found on the catalogue's back cover fold-out →

08

FLOOD PREVENTION

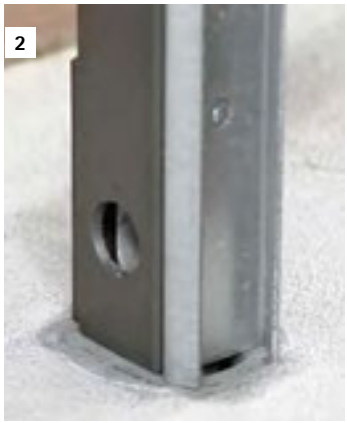
Extreme thunderstorms, with heavy rain and wind, are constantly increasing due to climate change. Even a small brook can unexpectedly transform into a raging river in a very short time. Result: flooding does not just occurring outdoors, it also spreads into houses and cellars rapidly.

In such scenarios, there is mostly no time left to take effective flood protection measures. It is time for a mobile flood prevention solution that can be set up quickly and easily, even with approaching floods.

HWS-mobil complies with the above criteria.

A mobile flood protection that is suitable for private users as well as municipalities.

There can be no guarantee that thunderstorms won't create some damage, despite the use of flood prevention systems. But you can at least try to prepare yourself with appropriate solutions.

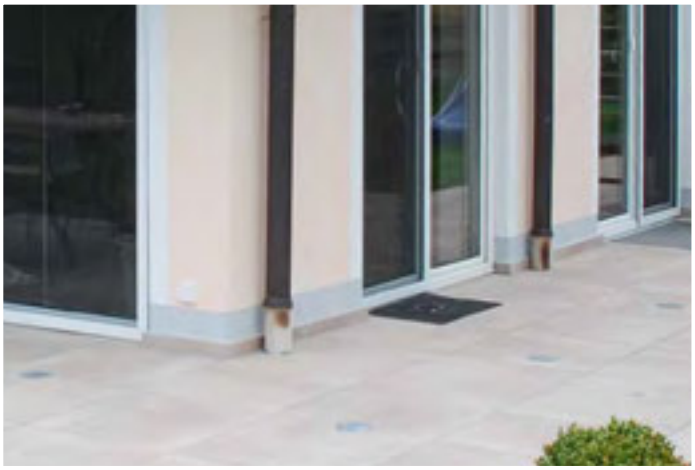


1: Inserting the junction piece into the ground shell | **2:** Placing a support on the junction piece | **3:** Installation of the Howatec mobile flood prevention system in front of an underground garage

COMPATIBLE

HWS-mobil

3p Technologie



After the mobile flood protection is no longer used, the openings of the ground shells can be closed with a cover *(see accessories on page 159)*. Mere optical reasons set aside, these floor covers help to avoid tripping and prevent the ingress of dirt over the course of the year.

Innovation IN STEEL

HWS-mobil

The mobile flood prevention system

HWS-mobil is a mobile flood prevention system developed in cooperation with the Water Management and Environmental Research Institute (fwu) at the University of Siegen. Working in an opposite way to a barrage, the baffle plates curve "away from the water" and are exposed to pressure by the rising flood waters. As sheet steel absorbs tractive forces very well, the protective walls, which are "just" 1 millimetre thick, provide reliable protection for damming heights of more than one metre.

Major characteristics of HWS-mobil:

- ✔ Lightweight = easy to transport without the need of lifting devices
- ✔ Minimum amount of seals
- ✔ Property protection
- ✔ Linear protection
- ✔ Interchangeable with ABES products

Advantages at a glance

Assembly & storage

- Quick assembly/disassembly using a single tool
- Only two people required for setup
- Easy to use (no component weighs more than 20 kg)
- Reusable and long-lasting due to hot-dip galvanising
- Compact for storage

Usage

- Very durable due to steel components
- Very good density; only two seals per field
- Effective protection against vandalism
- Personalised solutions possible

Areas of application

- Building projection: Protection of doors, gates and driveways
- Linear protection of company premises and private complexes
- Linear protection in the event of dyke raising

Compatibility with ABES products

Thanks to 3p-Technology, the ground shells can be used to mount benches, waste containers and other pieces of furniture, while not looking like eyesores during flood-free times.

HOWATEC

SOLID | LIGHTWEIGHT | SECURE

Implementation of HWS-mobil

Protection of an underground car park

Protection of a private house

COMPATIBLE

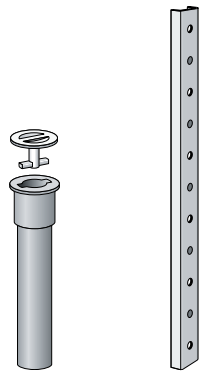
HWS-mobil

3p Technologie

HWS-mobil is compatible with all ABES 3p Technology products

HWS-mobil individual parts

Permanently embedded parts

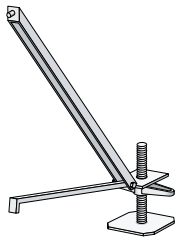


1 2

Temporarily fitted parts

3 4 5 6

Optional



7

1 Ground shell
2 Wall connection profile

3 Wall module
4 Support module
5 Slide-in module
6 Baffle plate

7 Support protection

More information can be found in the installation instructions, which we will gladly send you free of charge, or visit www.howatec-online.com

PROJECTS AND REFERENCES

A Selection

Vianden | **Luxembourg**

Washington D. C. | **U. S. A.**

Grevenmacher | **Luxembourg**

Kleinwalsertal | **Austria**

Findel | **Luxembourg**

Grevenmacher | **Luxembourg**

Bitburg | **Germany**

Daun | **Germany**

Orscholz-Cloef | **Germany**

Diekirch | **Luxembourg**

Gerstetten | **Germany**

Ask for references in your area!

Pictures of projects:
https://abes-online.com/en/projects/

FEEDER-BOLLARD 300-2 *page 69*

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3P-TECHNOLOGY

3p Technologie

Ground shells *(cast iron, galvanised)*

Ground shell 300 mm*
(standard for 3p-Technology)
000.001

Ground shell 500 mm
for additional stability with unstabilised subsoil, cobblestone pavement etc.
000.003

Ground shell 100 mm
as special solution in case of small mounting depth, e.g. car parks, bridges etc.
000.007

Junction pieces w. predetermined breaking point *(cast iron, galvanised)*

Junction piece without anti-roll device*
(standard for 3p-Technology)
000.008

Junction piece with anti-roll device
After a collision with a vehicle, the metal rod prevents the bollard to roll away.
000.013

Junction piece w. anti-roll device + cable slot
for LED lighting bollards
The metal rod prevents the rolling away of the bollard after a collision with a vehicle
000.017

Junction piece with short anti-roll device
for ground shell 100 mm (000.005)
The metal rod prevents the rolling away of the bollard after a collision with a vehicle
000.018

Junction piece extended version
for 3p-High
Allows to open and close the locking mechanism with long fire brigade triangular keys without offsets
000.016

Junction piece 3p-Flex (without cable slot)
The bollard returns to its initial position after impact (8-10° tilt), and only breaks if the breaking load is exceeded.
000.015

3p Technologie

Junction pieces w/o predetermined breaking point *(cast iron, galvanised)*

Junction piece w/o predetermined breaking point
Solid protection for people and objects.
Does not break in case of an impact.
000.034

Height-adjustable junction piece
Height can be adjusted with a threaded rod
Compensates for the gap between bollard and ground shell, if it ends below level, e.g. with paving stones of different heights.
000.041

Clamping cone sets *(stainless steel 1.4301)*

Clamping cone set with hex head screw*
(standard for 3p-technology)
N1 + N2 + hexagonal head screw
3p-SPK-N1-N2-6K

Clamping cone set with triangular head screw
N3 + N2 + triangular head screw
3p-SPK-N3-N2-3K

Clamping cone set w. lengthened clamping cone
N5 (75 mm) + N2 + triangular head screw
Additional protection by a padlock in order to prevent unauthorised removal. Possible use with triangular head screw.
3p-SPK-N5-N2-3K

Clamping cone set with ABES Bolt – Teardrop shaped
Screw with special head, with droplet-shaped hole
Can only be opened with optional special tool so as to prevent it from being opened without authorisation using standard tools
(Utility model protection)
3p-SPK-N1-N2-TR

Screws and clamping cones *(stainless steel 1.4301)*

Hexagonal head screw
spare part, M12, length 80 mm
000.009

Triangular head screw
spare part, M12, length 75 mm
000.019

ABES Bolt – Teardrop shaped
special asseccory, M12, length 75 mm
000.035

Cover caps (pair), for hexagonal head screw
grey or black, *plastic*
000.006

Clamping cone N1*
spare part, without internal thread
N1.000

Clamping cone N2*
spare part, three-slotted and with internal thread
(suitable tool see next page: 000.029/000.026)
N2.001

Clamping cone N3, for triangular head screw
spare part, without internal thread
N3.000

* Part of the standard delivery for products with 3p technology.

3p Technologie

	Clamping cone N4 lengthened, for protection by a padlock	**N4.000**
	Clamping cone N5 lengthened, for protection by a padlock	**N5.000**

Ground shell covers

	Ground shell cover *cast aluminium, powder-coated in DB 703*	**000.002**
	Ground shell cover with ressort *steel S235, galvanised*	**000.050**

Tools

	Nut for for triangular head screws M12, *stainless steel 1.4571*	**000.027**
	Nut for ABES Bolts – Teardrop shaped *stainless steel 1.4571*	**000.037**
	Nut with 3-pin adapter to tighten the clamping cone N2.001 *stainless steel 1.4571*	**000.029**
	Socket wrench for triangular head screws robust design	**000.024**
	Socket wrench for ABES Bolts – Teardrop shaped robust design	**000.036**
	Socket wrench with 3-pin adapter to tighten the clamping cone N2.001 robust design	**000.026**
	Triangular key simple, with short holder, M12 × 75 mm	**000.011**
	Triangular key simple, with long holder, M12 × 160 mm	**000.014**

Ground rosettes *(steel S235, galvanised, powder-coated in bollard paint)*

	Ground rosette for Bollard 032 with 3p-Technology	**000.032**
	Ground rosette for Bollard 066 with 3p-Technology	**000.066**
	Ground rosette for Bollard 014 with 3p-Technology	**000.030**

BOLLARDS

Chains & accessories *(galvanised, powder-coated in bollard paint)*

	Chain 8 x 52 mm sold per meter	**000.100**
	Eylet	**000.200**
	Shackle	**000.300**
	Chainlink for eylet	**000.303**

Special models

	Bollard 001, 5 rings red painted RAL 3020/9016	**000.301**
	Bollard 008 + 010, 1 ring red painted RAL 3020/9016	**000.302**
	1 ring of reflective foil 100 mm wide; red, white or red/white	**000.321**
	2 rings of reflective foil 100 mm wide; red, white or red/white	**000.322**
	3 rings of reflective foil 100 mm wide; red, white or red/white	**000.323**
	Cat's eye reflectors affixed reflectors	**000.326**
	Finished with logo individual production	**000.327**
	1 cutting of reflective foil 100 mm wide; red, white or red/white, self-adhesive, for manual installation	**000.328**
	Reflective foil sold by the meter 50 mm or 100 mm wide; red, white or red/white, self-adhesive, to apply individually	**on demand**
	Powder coating except standard RAL colours free of charge for more than 9 bollards in the same colour	**000.310**

Stainless steel – surface treatments

Smoothed
e. g. grain 240 (standard) — **000.410**

Electropolishing (high-gloss) — **000.420**

Special coatings

Long-lasting phosphorescent coating
Maintains fluorescent properties permanently — **on demand**

GENERAL

Bicycle stands

Ground shells (pair), 300 mm
for Bicycle-Stand 453 and 453 LED
(needed for removable version) — **458.002**

Clamping cover rosette
for Bicycle-Stand 453 and 453 LED
(needed for removable version)
steel S235, galvanised — **458.005**
steel S235, galvanised, powder-coated in RAL or DB — **458.006**
stainless steel 1.4301, smoothed, grain 240 — **458.007**

Cover plates for ground shells (pair)
for Bicycle-Stand 453 and 453 LED — **458.003**

Ground shell for removable model
for Bicycle-Stand 451
galvanised — **456.003**

Ground shell for removable model
for Bicycle-Stand 450-1 and 450-2
galvanised — **456.002**

Cover plate
for Bicycle-Stand 451
steel S235, galvanised — **455.003**
steel S235, galvanised, powder-coated in RAL or DB — **455.013**
stainless steel 1.4301, smoothed, grain 240 — **455.004**

Ground shell for removable model
for Bicycle-Stand 450-1 and 450-2
steel S235, galvanised — **455.001**
steel S235, galvanised, powder-coated in RAL or DB — **455.011**
stainless steel 1.4301, smoothed, grain 240 — **455.002**

Waste containers

Triangular key for waste containers
standard — **500.003**

Ground shells (other)

Ground shell, ø 48 mm
for standard tube with diameter 48 mm
(e.g. for Tree-Guard 662) — **600.200**

Ground shell, ø 60 mm
for standard tube with diameter 60 mm — **on demand**

Clean & care products

Ceramic grease aerosol — **on demand**

Liqui Moli assembly paste — **on demand**

Touch-up paint (RAL or DB colour)
correct small defects in the product's coating — **on demand**

Color Fans

RAL K7 CLASSIC colour fan
containing 213 RAL CLASSIC colours — **000.341**

DB Glimmer Grey fan
TL / TP-KOR steel structures
attachment H - colour cards, 14 shades — **000.340**

All presentations and descriptions in the brochure, as well as the product models and properties, including the 3p-Technology, are given for information purposes only.

Due to the unpredictability of daily usage, no guarantee can be given for the described product properties. All products have been carefully developed for a tough everyday use and are built accordingly robust.

We reserve the right to make technical or optical amendments without prior notice at any given time or when we believe this serves the further development and improvement of our products.

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EXPLANATION OF SYMBOLS & TENDER SPECIFICATIONS

DELIVERABLE MOUNTING VARIANTS

With 3p-Technology*

Removable with 3p-Technology, comprising a 300 mm ground shell, junction piece with predetermined breaking point (without anti-roll device), 1 clamping cone with internal thread, 1 clamping cone without internal thread and a hex head bolt as a standard.

**All bollards (except feeder bollards) can be supplied with 3p-Technology*

With 3p-Technology for LED lighting bollards

Comprising a 300 mm ground shell, junction piece with predetermined breaking point, anti-roll device and cable slot, 1 clamping cone with internal thread, 1 clamping cone without internal thread and a hex head bolt as a standard.

With 3p-Technology "3p-High"*

For the use of long fire brigade triangular keys without offsets.

**Is basically possible with all bollards. Extended junction piece required for 3p-High*

Fixed mounting

Fold down

Screw-on *(for bollards: with flange)*

Removable with ground shells

Free standing *(for benches)*

FINISH

CA **Products made of cast aluminium**

Powder coating in standard RAL colours or DB 703

ST **Products made of steel S235**

Steel S235, galvanised with powder coating in standard RAL colours or DB 703

Only for bollards: The height can be adjusted individually *(except feeder bollards)*

AISI **Products made from stainless steel 1.4301**

Stainless steel 1.4301 pickled and smoothed, grain 240
Optional: electropolished/high-gloss (no surcharge)

Only for bollards: The height can be adjusted individually

Other colours available on request at a surcharge.

Only for bollards: Accessories and special requirements such as different colours, red and white paint, reflective film or powder coating of chains, rings, shackles, etc. in the same colour as the bollard are available on request at a surcharge *(except feeder bollards and Bollard 026)*

LED **With LED Light unit**

The ground rosette is part of the delivery (3p-Technology)

Completely covers the ground shell, material: S235 steel, hot-dip galvanised and powder coated in bollard paint

For detailed product descriptions, tender texts and installation instructions for download, visit **www.abes-online.com**

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