



HIGH  
SPEED  
DOORS

Dear Sir/Madam,

Thank you for downloading the documentation for our Dynamicroll CB 230 cleanroom door: the complete high-speed door solution for sterile environments. In this accompanying letter, we would like to provide you with a brief overview of the door. Additionally, we want to inform you that you can contact us for custom specifications if the standard ones do not meet your requirements.

The attached Dynamicroll CB 230 is suitable for indoor use. It has been specifically designed for sterile environments where an emergency exit must be ensured. To achieve this, the door is equipped with a counterweight integrated into the frame, along with all other components, minimizing the risk of dirt accumulation. Furthermore, the door features a flexible bottom bar. Its performance in terms of wind resistance, air permeability, thermal insulation, and longevity is high, resulting in a very low total cost of ownership.

The door comes with photocells and anti-crash safety features, unless the door width exceeds 3050 mm. In that case, a light bar is utilized. Additionally, the door includes a rectangular transparent strip. The fabric is available in sixteen colors, while the basic frame is zinc-coated. Coverings can be either zinc-coated or coated with RAL 9010. Upon request, both coverings and the basic frame can be coated with a color of your choice from the RAL palette, at an additional cost. The control panel features a control button, an emergency stop button, and a main switch. A closing button is provided for the opposite side.

The attached specification text describes a standard internal door. However, numerous options are available. Therefore, we encourage you to refer to the attached options sheet. Please feel free to contact us for a customized specification text.

Best regards,

**BMP HIGH SPEED DOORS**

The team

All our deliveries/services are subject to the General Terms and Conditions of Sale. These General Terms and Conditions have been deposited with the Chamber of Commerce and are available at our office upon request.



## Standards and Classifications

Applicable standards and essential characteristics, EN 13241

- Machinery Directive 2006/42/EC
- EMC Directive 2014/30/EC
- Low Voltage Directive 2014/35/EC

Water resistance class 1 compliant with EN 12425, tested according to EN 12489.

Wind load resistance class 2 compliant with EN 12424, tested according to EN 12444.

Thermal transmission coefficient  $U = W/m^2.K$ : 6.02, according to EN 12428.

Air permeability class 2 compliant with EN 12426, tested according to EN 12427.

Safety of vertical movement opening according to EN 12453, tested according to EN 12445.

Mechanical aspects - Requirements and test methods compliant with EN 12604, tested according to EN 12605.

Mechanical reliability according to EN 12604: 1,000,000 cycles, tested according to EN 12605.

Particle emissions according to EN 14644-1 class 5, tested according to EN 14644-14.

Hygienic application GMP class C, compliant with Annex 1 of EU GMP.



### 30.63.11 FLEXIBLE DOOR.

#### 0. FLEXIBLE DOOR.

Manufacturer: BMP HIGH SPEED DOORS.

Type: Dynamicroll CB230 high-speed roll-up door.

Position: Internal door for cleanroom, emergency function.

- Opening speed: adjustable, maximum 2.0 m/s.
- Closing speed: adjustable, 0.8 m/s.
- Resistant to excessive pressure and vacuum.
- Width (mm): as indicated in the specification drawings.
- Height (mm): as indicated in the specification drawings.

#### **Door leaf**

- PVC fabric, opaque, 900 grams/m<sup>2</sup>: U = 6.02 W/m<sup>2</sup>K, in RAL .... (see options sheet).

#### **Windows**

- Transparent PVC, rectangular, from 850x500 mm to 1200x500 mm, depending on the daylight width, one row.

#### **Door frame**

- Zinc-coated base frame;
- Covers over the roll, motor, and uprights, zinc-coated or coated in RAL 9010 as standard.

#### **Guides**

- Reinforced polyethylene, PEHD 500;
- Self-lubricating (no lubricants).

#### **Roll-up shaft**

- Aluminum.

#### **Anti-collision**

- Flexible and soft bottom bar;
- Zip fastening;
- Re-introduction slots in the guides.

#### **Operation**

- Automatic opening, electrically operated;
- Automatic closing, gravity.

#### **Control**

- Integrated into the uprights.

#### **Safety**

- Photocells, integrated transversely in the door leaf in the uprights;
- Anti-release protection.

#### **Drive**

- Variable frequency electric motor with reducer, specific for this type of door, speed, and dimensions;
- Integrated into the door frame;
- Progressive start and stop.

**Controls**

- Powder-coated steel electrical panel, RAL 7016, IP54;
- Inverter;
- Main switch;
- Emergency stop;
- Adjustment of time before automatic closing;
- Sluice function between two doors.

**Accessories**

- Wiring;
- Absolute encoder;
- Emergency operation via counterweight.

**Wind resistance**

- Class 2, EN 12424.

**Air permeability**

- $<12 \text{ m}^3/\text{m}^2\text{h}$  ( $\Delta 50 \text{ PA}$ ).

**Expected lifespan**


- 1,000,000 cycles, EN 12604.

## Options Sheet

If you wish to implement any options, please contact us to obtain a customized technical specification:

[Contact](#) | [BMP HIGH SPEED DOORS](#)

### Possible door colors, at no additional cost, approximate::

 RAL 1003 (signal yellow)	 RAL 5012 (light blue)	 RAL 7042 (traffic grey A)
 RAL 1015 (light ivory)	 RAL 6018 (yellow green)	 RAL 8017 (chocolate brown)
 RAL 2004 (pure orange)	 RAL 6026 (opal green)	 RAL 9005 (jet black)
 RAL 3002 (ermine red)	 RAL 7016 (anthracite grey)	 RAL 9010 (pure white)
 RAL 5002 (ultramarine blue)	 RAL 7035 (light grey)	
 RAL 5010 (gentian blue)	 RAL 7037 (dust grey)	

### Wind Resistance

- Class 5, with patented magnetic system, compliant with EN 12424.

### Windows:

- Transparent PVC, rectangular, 1200x500 mm or 850x500 mm, .. rows.
- Transparent PVC, with rounded corners, 1200x300 mm or 850x300 mm, two rows / .. rows.
- Transparent PVC, full width, 500 mm height, one row / .. rows.
- Transparent PVC, full vision.

### Opening Speed:

- Opening speed (m/s): adjustable, maximum 2.5.

### Control:

- PVC electrical panel, IP65;
- 304 stainless steel electrical panel, IP66;

### Control Components:

- Via radar impulse, BEA Falcon type, bi-directional or uni-directional.
- Via radar impulse, BEA Condor type (with stop detection), bi-directional or uni-directional.
- Via pull switch, including 4 meters of cord, bi-directional or uni-directional.
- Via Tof spot radar, (range 6m), bi-directional or uni-directional.
- Single-function transmitter, button-type closure, including receiver for remote control.
- Bi-directional manual transmitter, 2-channel, including receiver for remote control.
- Bi-directional manual transmitter, 4-channel, including receiver for remote control.

**Safety Components:**

- Light curtain barrier, transversely integrated in the door leaf in the uprights.
- Light curtain barrier, transversely integrated in the door leaf in combination with anti-release protection.

**Frame:**

- Zinc-coated base frame, covers coated in a non-standard RAL color: RAL ....
- Base frame and covers coated in a non-standard RAL color: RAL ....
- Stainless steel 441, including covers, motor, and uprights.
- Stainless steel 304, including covers, motor, and uprights.
- Stainless steel 316, including covers, motor, and uprights.

**Other Stainless Steel Components:**

- Roll-up shaft, stainless steel 304.
- Brake, stainless steel 304.

**Emergency Control:**

- Emergency control via UPS including batteries.