



HIGH
SPEED
DOORS

Dear Sir/Madam,

Thank you for downloading the documentation regarding our Dynamicroll® MS 150: the high-speed roller door that serves as a protective barrier. This door is installed near machinery, elevators, or automated lines and serves to safeguard people. In this informational letter, we would like to provide you with a brief overview of the door. More importantly, we want to inform you that you can contact us for a customized specification if the standard one does not meet your requirements.

The high-speed roller door is TÜV certified. Therefore, an impact test has been conducted to measure the force that can be applied to the curtain before it escapes from the guides. The door is equipped with a microswitch at the bottom of the side stile, which emits a signal when the door is closed. The microswitch is certified according to EN 62061 standard and achieves SIL 3 integrity level. The door comes standard with a light curtain safety system and an emergency stop function. Hence, the door complies with category PLd according to EN13849-1 standard.

The door features a strip of rectangular transparent windows. The curtain is available in sixteen colors. The basic structure is galvanized. Cover profiles can be either galvanized or coated in RAL 9010. At an additional cost, both the cover profiles and the basic structure can be coated in a chosen RAL color. The electrical panel is equipped with a control button, an emergency stop button, and a main switch. A release button for the opposite side is also provided.

The attached specification text describes a standard machinery door. Naturally, there are many options available. Therefore, we invite you 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. The General Terms and Conditions have been deposited at the Chamber of Commerce and are available at our office upon request.



Standards and Classifications

Applicable Regulations and Essential Characteristics:

- EN 13241
- Standard Machinery Directive 2006/42/EC
- EMC Directive 2014/30/EC
- Low Voltage Directive 2014/35/EC

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

Wind load resistance dependent on dimensions, up to class 4 compliant with EN 12424, tested according to EN 12444.

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

Air permeability class 1 compliant with EN 12426, tested according to EN 12427.

Safety of vertical moving opening compliant with 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.



30.63.11 FLEXIBLE DOOR.

0. FLEXIBLE DOOR.

Manufacturer: BMP HIGH SPEED DOORS.

Type: Dynamicroll MS 150 high-speed roller door.

Position: Machinery door, interior door.

Opening speed: adjustable, maximum 2.0 m/s.

Closing speed: adjustable, 0.8 m/s.

Resistant to overpressure and underpressure.

Width (mm): as indicated in the specification drawings.

Height (mm): as indicated in the specification drawings.

Door Leaf:

- Opaque PVC curtain, 900 grams/m²: $U = 6.02 \text{ W/m}^2\text{K}$, in RAL ... (see options sheet).

Windows:

- Rectangular transparent PVC, from 850x500 mm to 1200x500 mm, depending on daily width, in a single row.

Door Frame:

- Galvanized base frame;
- Covers above the roller, motor, and columns, standard galvanized or coated in RAL 9010.

Guides:

- Cross-linked polyethylene, PEHD 500;
- Self-lubricating (no lubricant required).

Rolling Shaft:

- Aluminum.

Operation:

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

Control:

- Via 1 button on the control box, plus 1 release button (on the opposite side).

Safety:

- Integrated safety light curtain, built into the door frame and passing through the curtain.

Motor:

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

**Control**

- Powder-coated steel control box, RAL 7016, IP54;
- Inverter;
- Microswitches in the side stiles, SIL 3 EN 62061.
- Main switch;
- Emergency stop;
- Adjustment of time before automatic closing;
- Two potential-free contacts (adjustable).

Accessories

- Wiring;
- Absolute encoder;
- Emergency control via crank.

Wind resistance

- < B 2900 mm x H 2900 mm class 4, EN 12424;
- < B 4700 mm x H 4700 mm class 3, EN 12424;
- < B 5700 mm x H 5700 mm class 2, EN 12424.

Air permeability

- Class 1, EN 12426.

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 sheet:

[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)	

Windows:

- Transparent PVC, rectangular, 1200x500 mm or 850x500 mm, .. strips.
- Transparent PVC, with rounded corners, 1200x300 mm or 850x300 mm, two strips / .. strips.
- Transparent PVC, full width, 500 mm height, one strip / .. strips.
- Transparent PVC, full vision.
- Insect screen, rectangular, 1200x500 mm or 850x500 mm, one strip / .. strips.
- Insect screen with rounded corners, 1200x300 mm or 850x300 mm, two strips / .. strips.
- Insect screen full width, 500 mm height, one strip / .. strips.
- Insect screen, full vision.

Control:

- PVC control panel, IP65;
- 304 stainless steel control panel, IP66;
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Control Components:

- Via radar impulse, BEA Falcon type, bidirectional or unidirectional.
- Via radar impulse, BEA Condor type (with stop detection), bidirectional or unidirectional.
- Via pull switch, including 4-meter cable, bidirectional or unidirectional.
- Via Tof-spot radar, (action range 6m), bidirectional or unidirectional.
- 1-channel transmitter, push button type, including remote control receiver.
- 2-channel transmitter, including remote control receiver.
- 4-channel transmitter, including remote control receiver.
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**Frame:**

- Galvanized 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 on roller, motor, and stiles.
- Stainless steel 304, including covers on roller, motor, and stiles.
- Stainless steel 316, including covers on roller, motor, and stiles.

Other stainless steel components:

- Rolling shaft, stainless steel 304.
- Brake, stainless steel 304.

Emergency control:

- Emergency control via UPS including batteries.