FritsJurgens ${ }^{\circ}$




SYSTEM M
HIDDEN PERFECTION
 control over the flow of the movement.

## The opening is as light as a feather, the movement extremely

 elegant, and the closing as soft as a whisper. This is thanks to our patented system consisting of two state-of-the-artdampers operating in seamless coordination.



## DESIGNED TO STAND THE TEST OF TIME

The hinge system is extremely rigid and virtually
indestructible. Our rigorous testing has shown that even after
1 million cycles (similar to 136 years of daily use) System M
still behaves flawlessly. This is a system truly designed for the
ages: invisible, built-to-last and maintenance-free.

System M packs an enormous amount of force into a compac
space. To harness this power we have developed a casing
out of a single piece of aluminum. We have atoo made the
flol for

NO STRUCTURAL ELEMENTS
The pivot hinges are fully mortised into the top and bottom of the door: no structural elements in floor and ceiling.
LOAD-BEARING CAPACITY: UP TO 500 KG Our systems can support large and heavy doors thanks to robust bearings and
the use of high quality materials like hardened stainless steel and anodized aluminum. In order to select the desired door movement, please refer to the table on page 33.
MINIMUM DOOR THICKNESS: $4 O M M$
maintenance - Free
Built from materials of the highest quality the system is maintenance-fre
FOR NEW AND RETROFIT SITUATIONS The floorplate bolts only need to mortise 8 mm into the floor, which means System $M$ can also be combined with underfloor heating

EASILY-ADJUSTABLE
The innovative design of our hinge systems means the closing gap and the
radial position can be easily adjusted while door remains installed.
Ueal for timber steel framed glass and massive clad doors Perfect

SYSTEM M
ULTIMATE SMOOTHNESS

interior and exterior doors, in both residential and commercial environments.<br>.


(1) hold positionatoo,900 and-90. The door can be placed in a hold position of $90^{\circ}$ or $-90^{\circ}$. Thanks to the self-closing function the door will return to the $0^{\circ}$ position
(2) SELF-CLOSINGFROM $125^{\circ}$ AND - $125^{\circ}$ After opening the door retrns smoothly to the 0 . position unless set (3) ADJUSTAble closing damping
4. ADJUSTABLE HYDRAULIC BACKCHECK
On opening the dorr, the speed decreases starting at $70^{\circ}$ to prevent knocking against any obstacles at $90^{\circ}$.
(5) NO OPENING AND CLOSING FUNCTION
function

NO STRUCTURAL
ELEMENTS IN
FLOOR AND CEILING

The FritsJurgens ${ }^{\circ}$ pivot door system is unique in that there are no structural elements in the floor and the ceiling The pivot hinges are fully mortised into the top and bottom of the door, so that only floor and ceiling plates need to be installed. A virtually invisible system.

The bottom hinge of System $M$ and its floorplate are completely new and designed from the ground up. The system can be combined with existing FritsJurgens* top pivots.


SYSTEM M
COMPONENTS



SYSTEM M
TECHNICAL
DOCUMENTATION

TECHNICAL DRAWINGS

CEILING PLATE

$$
\begin{aligned}
& +\underbrace{0 \bigcirc \bigcirc)}_{60}
\end{aligned}
$$



SYSTEM M
MILLING DRAWINGS

TOP PIVOT



SYSTEM M


[^0]TYPE SELECTOR

To ensure the pivot hinge provides the appropriate door movement for your door, Fritsjurgens ${ }^{\circ}$ has made System $M$ available in five models. Each model offers a different closer strength tuned to handle specific door panels depending on the position of the pivot, the width of the door and its weight.
If you require a system for a pivot door that does not appear ere, do not hesitate to contact us. Fritsjurgens ${ }^{\circ}$ has an on-site testing facility which enables us to determine whether our systems are suitable for your specific situation.



SYSTEM M
GAPS AROUND THE DOOR

TOP PIVOT


System $M$ is designed to be virtually invisible. In addition, the ystem allows for minimal gaps all around the door. The minimum antalation (ceiling) and 11 mm at

The minimum vertical dimensions for installation depend on the The minimum vertical dimensions for installation depend on the
thickness $(X)$ and width of the door in relation to the positioning of the hinge (A and B). Important: the minimum distance from the pivot point of the hinge to the edge of the door $(B)$ is 91 mm .

## SYSTEM M

GAP CALCULATION


EXAMPLE
$X \mid$ Door thickness
A $\begin{aligned} & \text { Distance of rotation point to latch side of } \\ & \text { the door }\end{aligned}$
Distance pivot point to beginining do
E* Minimum gap between door and wall
42

SYSTEM M
PRESSURE LOAD

The Fritsjurgens ${ }^{\circ}$ pivot door stands on a floorplate of $40 \times 80 \mathrm{~mm}$ and produces a pressure load (Fw) of $1.80 \mathrm{~N} / \mathrm{mm}^{2}$ with a door of 500 kg .
As a reference: a woman of circa 70 kg wearing high heels your floor we refer to the specifications of the floor manufacture your floor we refer to the specifications of the floor manufacturer




SYSTEM M
SETTING
TOP PIVOT

SETTING
THE GAP
Gaps around the door can be adjusted using a 5 mm hex key in the top hole.

MOUNTING TOP PIVOT
The top pivot can be set using a 5 mm hex key in the bottom hole. To the right: assembly. To the left: disassembly.
Important: to ensure that the door is secured properly, a minimum of 16 rotations of $360^{\circ}$ are required.



SETTING
SETTING
SYSTEM M

SETTING THE
RADIAL POSITION
Remove the small rectangular caps from the floorplate and adjust the angle of the door using a 3 mm hex key. Afterwards put the caps back.

Important: all 4 screws need to be loosened before setting the radius. Dor't forget to tighten them again after adjusting.

SETTING
THE CLOSING SPEED
The closing speed can be adjusted using the key included with System M

+ Less opening and closing damping $\rightarrow$ faster speed
- More opening and closing damping $\rightarrow$ slower speed



## FRITSJURGENS® <br> OVERVIEW SYSTEMS

Fritsjurgens® provides systems for multiple applications. You can choose systems for pivot doors that are assembled parallel or perpendicular to the wall, $180^{\circ}$ and $360^{\circ}$ revolving doors, soft-closing doors, doors with or without hold positions and many more

Please contact us for assistance in choosing the appropriate pivot hinge system for your door

FRITSJURGENS® SYSTEMS

No structural elements in the floor or ceiling
Quick and simple to install
Maintenance-free
For new construction and retrofit situations
Easily-adjustable

## FRITSJURGENS

APPLICATION AREAS

Timber, steel and aluminium
Steel and timber framed glass doors
Single and double-acting pivot doors
Interior and exterior doors
Commercial and residential


|  | SYSTEM ONE | SYSTEM 3 | SYSTEM M |
| :---: | :---: | :---: | :---: |
| Rotation | $360^{\circ}$ | $360^{\circ}$ | $-125^{\circ}$ to $125^{\circ}$ |
| System dimensions | $160 \times 34 \times 39 \mathrm{~mm}$ | $160 \times 34 \times 143 \mathrm{~mm}$ | $294.8 \times 32 \times 99,6 \mathrm{~mm}$ |
| System weight | $0,335 \mathrm{~kg}$ | 0.75 kg | 2.6 kg |
| Hold positions at every $90^{\circ}$ | $x$ | $\checkmark$ | $x$ |
| Hold positions at $90^{\circ}$ and $-90^{\circ}$ | $x$ | $x$ | $\checkmark$ |
| Self-opening | $x$ | $\checkmark$ | $x$ |
| Self-closing | $x$ | $\checkmark$ | $\checkmark$ |
| Adjustable closing damping (soft-close) | $x$ | $x$ | $\checkmark$ |
| Adjustable hydraulic backcheck | $x$ | $x$ | $\checkmark$ |
| Suitable for single action doors | $\checkmark$ | $x$ | $\checkmark$ |
| Suitable for double action doors | $\checkmark$ | $\checkmark$ | $\checkmark$ |
| Minimal number of movements tested | 1.000 .000 | 1.000 .000 | 1.000 .000 |
| Minimum door thickness | 40 mm | 40 mm | 40 mm |
| Load-bearing capacity (up to) | 500 kg | 500 kg | 500 kg |
| Maximum weight at latch force | NA | 200 kg (See the datasheet of System 3) | 300 kg (According to schedule Type selector) |

MOVEMENT


- Rotates $360^{\circ}$
- No hold position

No hold positions or closing function
POSITIONING
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[| |l
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## FritsJurgens ${ }^{\circ}$

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[^0]:    All dimensions in $m m$.

