DICTATOR Fire Door Operators
for Sliding and Hinged Doors

Fire door operators have to ensure
the closing of doors and gates in case of
fire alarm, even if the power supply fails.
Therefore in Germany a mechanical
closing device is obligatory. In some
other countries you may use an emergency
power supply, but have to provide a self-
supervision of the emergency battery pack.
Otherwise they might be empty when
needed and the door would stay open.

DICTADOR offers
- partial or complete automation of fire
doors (depending on the frequency of
operation, requirements and budget).
- a large and flexible standard pro-
gramme of modular components, also
suitable for special applications.
- customized solutions (e.g. door goes
around a bend, very large door/gate,
hazardous area, overhead doors).
- easier and faster installation
because of the use of CAD drawings
(e.g. if very little space is available, the
exact position of the operator on the door
is given in the drawing).
- detailed advice, installation (if
required), bringing into service, main-
tenance, service and training.

Technical Data

DC door operators with integrated encoder
DC door operators with separate limit switches
Three-phase-current motors with separate limit switches
Closing with counterweight provided on site
Closing with integrated closing spring
Semi-automatic operators to close sliding fire doors
# 1. Fully Automatic Operators for Sliding Fire Doors

## DICTATOR Fire Door Operators - Summary

<table>
<thead>
<tr>
<th>Approval</th>
<th>Force to open the door (max.)</th>
<th>Weight of door</th>
<th>Width of door</th>
<th>Motor</th>
<th>Customised operators:</th>
</tr>
</thead>
<tbody>
<tr>
<td>in Germany with control system</td>
<td>Fully-automatic</td>
<td>Counter Spring</td>
<td>Battery back-up</td>
<td>Voltage</td>
<td>230/400 VAC</td>
</tr>
<tr>
<td><strong>Square 800</strong></td>
<td>300 N</td>
<td>7 m</td>
<td>800 N</td>
<td>48 VDC</td>
<td>AC Direct current</td>
</tr>
<tr>
<td><strong>Square 800</strong></td>
<td>600 N</td>
<td>7 m</td>
<td>1300 N</td>
<td>48 VDC</td>
<td>AC Direct current</td>
</tr>
<tr>
<td><strong>Square 800</strong></td>
<td>1300 N</td>
<td>7 m</td>
<td>unlimited*</td>
<td>24 VDC</td>
<td>DC Direct current</td>
</tr>
<tr>
<td><strong>E8 with frequency converter + AR20</strong></td>
<td>800 N</td>
<td>7 m</td>
<td>unlimited*</td>
<td>24 VDC</td>
<td>DC Direct current</td>
</tr>
<tr>
<td><strong>E8 with frequency converter + AR20</strong></td>
<td>800 N</td>
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<td>24 VDC</td>
<td>DC Direct current</td>
</tr>
</tbody>
</table>

**Legend:**
- **M** = integrated magnet
- **21** = Modular system DC-21
- **Z** = toothed belt
- **E** = position control with separate limit switches
- **L** = position control with integrated encoder

**Notes:**
- *max. door weight depends on its smooth running
**DICTATOR Fire Door Operators - Summary, cont.**

DICTATOR offers a variety of either fully or semi-automatic standard door operators for fire protection doors. In addition we design and develop customised drive units, e.g. for very large doors, for door and window installations with little space left for the drive unit or for overhead fire protection doors, explosion-proof door operators and so on. The force of the motor is transmitted either by a toothed belt (Z) or a chain (K). The revolving toothed belt/chain permits even to move doors with two leaves with one door drive and one control system only.

All door operators and control systems mentioned in the tables are explained in detail on the following pages.

### 1. Fully-Automatic Sliding Fire Door Operators - cont.

The fully-automatic DICTATOR door operators DICTAMAT are used on doors, that are frequently opened and closed. These doors can be integrated without any problem in the course of manufacture, e.g. as separation to the clean area or to sparsely heated areas, when forklift trucks run frequently between the different areas.

The fully-automatic DICTATOR door operators DICTAMAT are available for different doors sizes, with integrated position control (encoder) or separate limit switches, closing either with an integrated spring or a counter weight provided on site.

The direct current (DC) door operators of the series DC-21 are designed as a modular system. They all feature one central module: the gear module on which the different DC motors are flanged. The driving wheel is determined by the form of power transmission: either toothed belt or chain. Furthermore the position control system can be added to the central module.

This modular system offers several important advantages:
- Individual combination of the modules permits at a very high extent to match the door operators to the requirements of the different doors - even on site (our service team can e.g. increase the force of the door drive by adding a further gear box).
- The modular system simplifies installation, service and maintenance, as each module can be exchanged without any problem.
- Short lead times even for door operators having to be assembled especially.
- All door operators of the modular system are similar and therefore fast and easy to understand and to handle, even when using different types of the modular system.

The summary on the previous page should help you to select the right door operator for your application. Or you simply ask our advice!

### 2. Semi-Automatic Sliding Fire Door Operators

The semi-automatic DICTATOR door operators are designed for doors that are rarely opened and then normally stay open. They keep the door open in every position. In case of alarm or after a closing command the counter weight or the spring rope pulley will close the door. The closing speed is controlled by the adjustable magnetic brake of the door operator.

All semi-automatic DICTAMAT operators are approved in Germany for the use on fire sliding doors.

*All drive units operating with rope are delivered with a steel rope of 25 m. If this should not be enough (column "width of door": unlimited), please order a longer rope.

<table>
<thead>
<tr>
<th>Semi-automatic sliding door operators</th>
<th>Closing</th>
<th>Width of the door</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Closing</td>
<td>up to 6.5 m</td>
</tr>
<tr>
<td></td>
<td>Closed</td>
<td>up to 8 m</td>
</tr>
<tr>
<td></td>
<td>Weight</td>
<td>unlimited*</td>
</tr>
<tr>
<td>DICTAMAT 650</td>
<td>x</td>
<td></td>
</tr>
<tr>
<td></td>
<td>(integrated)</td>
<td></td>
</tr>
<tr>
<td>DICTAMAT 560</td>
<td>x</td>
<td></td>
</tr>
<tr>
<td></td>
<td>(separately)</td>
<td></td>
</tr>
<tr>
<td>DICTAMAT 570</td>
<td>x</td>
<td></td>
</tr>
</tbody>
</table>

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DICTATOR Fire Door Operators - Summary, cont.

DICTATOR provides operators not only for fire protection sliding doors. We also offer solutions for hinged doors, even for special applications as fire protection doors in explosive sectors. Or for very large and heavy hinged doors. For these you would need an individual approval of the responsible authorities.

Information on our DICTAMAT 306 we will send you on demand.

3. Operators for Hinged Fire Protection Doors

<table>
<thead>
<tr>
<th></th>
<th>Open</th>
<th>Close</th>
<th>Width of door</th>
<th>Opening angle max.</th>
<th>Approval in Germany</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Automatic hinged door operators</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>DICTAMAT 204B</td>
<td>x</td>
<td>x</td>
<td>max. 1,4 m</td>
<td>110°</td>
<td>Z-6.5-1944</td>
</tr>
<tr>
<td>DICTAMAT 306</td>
<td>x</td>
<td>x</td>
<td>max. 1,5 m</td>
<td>180°</td>
<td>individual approval</td>
</tr>
</tbody>
</table>