## C-FLEX
### TECHNICAL DATA

<table>
<thead>
<tr>
<th>Technical data</th>
<th>C-FLEX M</th>
<th>C-FLEX ER</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dosing unit Type</td>
<td>M</td>
<td>ER</td>
</tr>
<tr>
<td>Material</td>
<td>Polyurethane</td>
<td>Polyurethane</td>
</tr>
<tr>
<td>Power supply (HP)</td>
<td>0.1</td>
<td>0.35</td>
</tr>
<tr>
<td>Gear ratio</td>
<td>23:1</td>
<td>23:1</td>
</tr>
<tr>
<td>Material hopper</td>
<td>Polyurethane</td>
<td>Polyurethane</td>
</tr>
<tr>
<td>Weight of hopper (kg)</td>
<td>30</td>
<td>40</td>
</tr>
<tr>
<td>Weight of extension (kg)</td>
<td>35</td>
<td>50</td>
</tr>
<tr>
<td>Extension module</td>
<td>Polyurethane</td>
<td>Polyurethane</td>
</tr>
<tr>
<td>Volume (l)</td>
<td>23/50</td>
<td>25/50/70/100</td>
</tr>
<tr>
<td>Dosing capacity - Module</td>
<td>CFMS 65 - Single screw (l/h)</td>
<td>1 - 638</td>
</tr>
<tr>
<td>Dosing capacity - Module</td>
<td>CFMT22 - Twin screw (l/h)</td>
<td>1 - 58</td>
</tr>
<tr>
<td>Dosing capacity - Module</td>
<td>CFS65/CFS70 - Single screw (l/h)</td>
<td>0.7 - 5319</td>
</tr>
<tr>
<td>Dosing capacity - Module</td>
<td>CFT22 - Twin screw (l/h)</td>
<td>0.5 - 168</td>
</tr>
<tr>
<td>Dosing capacity - Module</td>
<td>CFT36 - Twin screw (l/h)</td>
<td>7 - 1066</td>
</tr>
<tr>
<td>Dimensions (mm)</td>
<td>L1 (Screw length 350/400/450)</td>
<td>550/600/650</td>
</tr>
<tr>
<td></td>
<td>L2 (Screw length 400/450/500)</td>
<td>655/705/755</td>
</tr>
</tbody>
</table>

Subject to technical changes.

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### YOUR BENEFITS

- Full access to all components from the rear of the unit
- Flexible polyurethane hopper
- Offline cleaning via quick exchange system
- Intelligent sealing concept prevents dirt accumulation in the machine
- Simple removal of the screw via bayonet quick release lock
- Exchangeable hopper with stainless steel inserts as single or twin screw design
- High dosing capacity and dosing accuracy
- Superior processing window with dosing rates ranging from 1 to 6000 l/h
- Maintenance-free drive gear guarantees low operation costs

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Over 130 agencies worldwide. www.motan-colortronic.com

![motan Logo](image)
C-FLEX DOSING UNITS

C-FLEX is ideally suited for dosing powders, pellets, granulates, regrinds, fibers, and flakes in both continuous and batching processes. motan’s unique removable flexible hoppers provide two huge advantages over traditional dosing unit designs:

• the quick exchange hopper enables the user to clean and change materials in less than one minute.
• single and twin screw hoppers are interchangeable, allowing the user to configure the dosing unit for nearly any type of material in a matter of minutes.

In addition to high flexibility, high performance is assured since consistent screw fill is maintained and bridging eliminated through the use of a flexible polyurethane hopper that is activated by friction-free massaging rollers. The C-FLEX units can be integrated into both gravimetric and volumetric systems.

GRAVInet GP control

The GRAVInet GP control is able to control multiple dosing modules/units and the appropriate refilling slides/butterfly valves or material loaders. The control offers user-friendly operation via a 12.1” colour graphic display with TFT touch screen. The GRAVInet GP incorporates comprehensive functions for operation and process control, recipe management, reporting for quality assurance as well as enhanced service functions and trend charts.

The dosing and mixing units being controlled can operate either independently or in tandem on a line. A control system to serve multiple lines is available.

C-FLEX M

• C-FLEX dosing unit can be operated as single units or integrated into a multi-line system
• The housing design allows for compact arrangement of several feeders
• Integration in other motan mixing and dosing systems possible
• Large throughput range from 1 to 700 litres/h
• Hopper volume can be extended from 10 to 60 litres
• Non-free-flowing powders are moved via the flexible hopper walls and adjustable massage rollers

C-FLEX ER

• Steep inlet hopper walls with massage roller activation to prevent bridging
• The massage rollers are powered by an independent motor. They can be set to 48 different positions guaranteeing optimum dosing for every material
• Gentle operation of the rotating massage rollers — no abrasion at the polyurethane hopper
• Large screw intake guarantees constant screw filling
• Hopper volume can be extended from 30 to 300 litres

C-FLEX application C-FLEX M installed on a co-rotating twin-screw extruder

FEATURES:

• Menu-driven control
• Messages in plain text
• Multiple level password protection
• Individual or line operation of the dosing and mixing stations
• Recipe storage
• Event and time protocols
• Multiple line control operation possible
• Graphic display of process parameters and equipment configuration possible
• Automatic calibration
• Print function
• Remote maintenance and/or software updates via VNC
• Modbus/TCP-interface

The menu-driven control is designed for easy operation. Messages and alarms are displayed in plain text, and multiple language options are available. Through the dynamic graphic process visualisation, the most crucial process data can be monitored and changed. GRAVInet GP technology stands out due to its modern, Ethernet-based open network architecture enabling standard networking with all other motan CONTROLnet controls. A GRAVInet GP light control with up to two dosing modules is also available. It has exactly the same functionality and a 12.1” TFT colour graphic display.
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C-FLEX applications

• Quick exchange hopper

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<thead>
<tr>
<th>Parameter</th>
<th>C-FLEX M</th>
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</tr>
</thead>
<tbody>
<tr>
<td>Type</td>
<td>M</td>
<td>ER</td>
</tr>
<tr>
<td>Motor(s)</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Connected load (kW)</td>
<td>0.1</td>
<td>0.35</td>
</tr>
<tr>
<td>Power supply (VDC)</td>
<td>220</td>
<td>220</td>
</tr>
<tr>
<td>Nominal rotation speed (min⁻¹)</td>
<td>3200</td>
<td>3200</td>
</tr>
<tr>
<td>Gear ratios</td>
<td>23:1 (0.1 kW)</td>
<td>9:1 (0.25 kW)</td>
</tr>
<tr>
<td>Material hopper</td>
<td>10</td>
<td>10</td>
</tr>
<tr>
<td>Weight - volumetric (kg)</td>
<td>30</td>
<td>40</td>
</tr>
<tr>
<td>Weight - gravimetric (kg)</td>
<td>35</td>
<td>50</td>
</tr>
<tr>
<td>Extension module</td>
<td>23/50</td>
<td>25/50/70/100</td>
</tr>
<tr>
<td>Throughput - Exchange module</td>
<td>1 - 638</td>
<td>1 - 58 - 0.5 - 168 - 7 - 1066</td>
</tr>
<tr>
<td>Throughput - Single screw (l/h)</td>
<td>350/400/450</td>
<td>655/705/755</td>
</tr>
<tr>
<td>Throughput - Twin screw (l/h)</td>
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<tr>
<td>Dimensions (mm)</td>
<td>L1: 550/600/650</td>
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</tr>
</tbody>
</table>

All dimensions in mm

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