REO AC electromagnets
Product catalogue

- Fully encapsulated
- With corrosion protection
- Nickel-plated
- Conformity for food contact
- Low frequency
- With corrosion protection
- Nickel-plated
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AC electromagnets

REO - more than 20 years of experience in the electromagnet sector

- Fully encapsulated AC electromagnets
- AC electromagnets with corrosion protection
- Use of FDA compliant materials
- Use of UL compliant materials
- The technical design of REO leads to an optimal size/performance ratio.
- Personal technical advice
- Customer-specific solutions
- Highest quality at optimal prices
- REOplus: REO speaks your language – with sales offices and production operators worldwide, REO is always highly customer-orientated and can react in a quick, efficient and cost-effective way
- All products were developed and tested according to DIN VDE 0580
AC electromagnets

* A slight corrosion cannot be ruled out over time.
Series REOVIB WI 111
Standard series, fully encapsulated, maximum power of 350 VA at 3000 1/min or 6000 1/min
Mounting by means of standard round holes, base plate or slotted holes to allow more adjustment. Cable exit downwards or sideways

Series REOVIB WI 121
Standard series, fully encapsulated, maximum power 3900 VA at 3000 1/min or 6000 1/min
Mounting with blind tapped holes at the base of the magnet and armature
Cable exit downwards with unshielded cable or shielded cable

Series REOVIB WI 321
For use with lower operating frequencies (15 Hz and 25 Hz), fully encapsulated with a maximum power of 2200 VA.
Mounting with blind tapped holes at the base of the magnet and armature
Cable exit downwards with unshielded cable or shielded cable

Series REOVIB WI 421
Nickel-plated model, fully encapsulated at 900 1/min, 1500 1/min, 3000 1/min or 6000 1/min, maximum power 1265 VA.
Mounting with blind tapped holes at the base of the magnet and armature
Cable exit downwards with unshielded cable or shielded cable

Series REOVIB WI 621
Powder-coated model, fully encapsulated at 900 1/min, 1500 1/min, 3000 1/min or 6000 1/min, maximum power 3900 VA.
Mounting with blind tapped holes at the base of the magnet and armature
Cable exit downwards with unshielded cable or shielded cable

Series REOVIB WI 211
Series with configurable voltage/frequency options, fully encapsulated, maximum power 250 VA at 3000 1/min or 6000 1/min
Mounting by means of standard round holes, base plate or slotted holes to allow more adjustment. Cable exit downwards or sideways

Series REOVIB WE 131
Series in EI shape, maximum power 690 VA at 3000 1/min or 6000 1/min
Mounting with blind tapped holes at the base of the magnet and armature

Special solutions / customer-specific magnets
REOVIB WI 111

Benefits
• Optimal size/performance ratio
• Good adjustability
• Safe mounting by means of solid base plate/mountings through core
• Compact and robust structure

Technical data
Vibration frequency 3000 / 6000 1/min

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Compatible REOVIB devices:
- REOVIB SMART, REOVIB RTS, REOVIB MTS, REOVIB MFS

Mounting by means of base plate (optional)
## Typical applications

- Packaging industry and weighing sector for feeding and sorting processes
- Automation process and assembly equipment which utilises electromagnetic drives

### Dimensions in mm

| Types         | a   | b   | c  | d  | e | f1 | f2 | f3 | g  | h  | i  | k  | l  | l1 | m  | øn | øo | øp | ør | s  | øt |
|---------------|-----|-----|----|----|----|----|----|----|-----|----|----|----|----|----|----|----|----|----|----|----|
| REOVIB WI 111/3 | 44.4 | 36.4 | 30 | 32 | 2  | 42 | 9  | 5  | 30 | 12 | 10 | 4.2 | 22 | 20 | 22 | 4.2 | 4.4 |    |    |    | 4.4 | 4.4 | 3.6 |
| REOVIB WI 111/5 | 61.5 | 31.5 | 45 | 50 | 3  | 63 | 14 | 7.5 | 45 | 16 | 15 | 3   | 43 | 35 | 36 | 4.2 | 4.4 | 15 | 5.1 | 28 | 5.1 |
| REOVIB WI 111/6 | 64  | 42  | 45 | 50 | 3  | 63 | 14 | 7.5 | 45 | 20.5 | 15 | -   | 43 | 35 | 36 | 4.2 | 4.4 | 15 | 5.1 | 28 | 5.1 |
| REOVIB WI 111/7 | 78  | 47  | 54 | 60 | 3  | 77 | 17 | 10 | 54 | 21 | 20 | 4.5 | 45 | 40 | 45 | 7   | 5.5 | 20 | 6.5 | 37 | 6.5 |
| REOVIB WI 111/9 | 90  | 56  | 66 | 83 | 3  | 88 | 19 | 11 | 66 | 32.5 | 22 | -   | 66 | 50 | 66 | 7   | 6.4 | 44 | 8.1 | 44 | 8.1 |

**View A**
- Base plate for all types

**WI 111/5-9**

**WI 111/3**

**WI 111/11**

Cable length L in accordance with customer requirements
Benefits

- Optimal size/performance ratio
- Good adjustability
- Maximum power 3900 VA
- Maximum tractive power 6900 N
- Low Profile

Technical data

**Vibration frequency 3000 / 6000 1/min**

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Compatible REOVIB devices:

REOVIB SMART, REOVIB RTS, REOVIB MTS, REOVIB MFS
Typical applications

- Packaging industry and weighing sector for feeding and sorting processes
- Automation process and assembly equipment which utilises electromagnetic drives

Dimensions in mm

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<th>b</th>
<th>c</th>
<th>d</th>
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Cable length L in accordance with customer requirements
## Benefits
- Optimal size/performance ratio
- Good adjustability
- Maximum power 2200 VA for low frequency applications
- Maximum tractive power 8580 N
- Low Profile

## Technical data

**Vibration frequency 900 / 1500 1/min**

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Compatible REOVIB devices: REOVIB MFS
**Typical applications**

- Packaging industry and weighing sector for feeding and sorting processes
- Automation process and assembly equipment which utilises electromagnetic drives.

**Dimensions in mm**

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<th>Types</th>
<th>a</th>
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<th>c</th>
<th>d</th>
<th>f₁</th>
<th>f₂</th>
<th>f₃</th>
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Cable length L in accordance with customer requirements
Benefits

- Corrosion protection by means of nickel plating
- Optimal size/performance ratio
- Good adjustability
- Maximum power 1360 VA
- Also for low frequency applications
- Maximum tractive power 8000 N
- Low Profile

Technical data

Vibration frequency 3000 / 6000 1/min

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Compatible REOVIB devices: REOVIB SMART, REOVIB RTS, REOVIB MTS, REOVIB MFS

Vibration frequency 900 / 1500 1/min

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Compatible REOVIB devices: REOVIB MFS
**Typical applications**

- Packaging industry and weighing sector for feeding and sorting processes
- Automation process and assembly equipment which utilises electromagnetic drives.
- Particularly suited for the food processing sector and the pharmaceutical sector

**Dimensions in mm**

<table>
<thead>
<tr>
<th>Types</th>
<th>a</th>
<th>b</th>
<th>c</th>
<th>d</th>
<th>f1</th>
<th>f2</th>
<th>f3</th>
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<tr>
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<td>108</td>
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<td>169</td>
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<td>M12</td>
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</tbody>
</table>

**Cable length L**
in accordance with customer requirements
## Benefits

- Corrosion protection by means of powder-coating
- FDA compliant
- Optimal size/performance ratio
- Good adjustability
- Maximum power 3900 VA
- Also for low frequency applications
- Maximum tractive power 8580 N
- Low Profile

## Technical data

### Vibration frequency 3000 / 6000 1/min

<table>
<thead>
<tr>
<th></th>
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<tbody>
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Compatible REOVIB devices: REOVIB SMART, REOVIB RTS, REOVIB MTS, REOVIB MFS

### Vibration frequency 900 / 1500 1/min

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<td>8580</td>
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</table>

Compatible REOVIB devices: REOVIB MFS

*Rated air gap, is reduced by 1 mm, for this design due to the powder-coating
**Typical applications**

- Packaging industry and weighing sector for feeding and sorting processes
- Automation process and assembly equipment which utilises electromagnetic drives.
- Particularly suited for the food processing sector and the pharmaceutical sector (FDA compliant)

**Dimensions in mm**

<table>
<thead>
<tr>
<th>Typen</th>
<th>a</th>
<th>b</th>
<th>c</th>
<th>d</th>
<th>f1</th>
<th>f2</th>
<th>f3</th>
<th>g</th>
<th>h</th>
<th>i</th>
<th>p</th>
<th>r</th>
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<tbody>
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<td>M12</td>
</tr>
</tbody>
</table>

Cable length L
in accordance with customer requirements
Benefits

- Maximum power 250 VA
- Configurable voltage/frequency options increases flexibility
- Quick change of the connection voltage by using the appropriate selector key

Technical data

Vibration frequency 3000 / 6000 1/min

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
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Compatible REOVIB devices:
- REOVIB SMART,
- REOVIB RTS,
- REOVIB MTS,
- REOVIB MFS
Typical applications

- Packaging industry and weighing sector for feeding and sorting processes
- Automation process and assembly equipment which utilises electromagnetic drives.

### Dimensions in mm

<table>
<thead>
<tr>
<th>Type</th>
<th>a</th>
<th>b</th>
<th>c</th>
<th>d</th>
<th>e</th>
<th>f1</th>
<th>f2</th>
<th>f3</th>
<th>f4</th>
<th>g</th>
<th>h</th>
<th>k</th>
<th>p</th>
<th>r</th>
<th>s</th>
<th>d1</th>
<th>t</th>
<th>u</th>
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<tbody>
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<td>54</td>
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<td>3</td>
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<td>30</td>
<td>M6</td>
<td>-</td>
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</tbody>
</table>

Standard: without base plate

with voltage/frequency selector

with base plate

Cable length L in accordance with customer requirements

View A

Base plate for all types

Technical data

<table>
<thead>
<tr>
<th>Type</th>
<th>a</th>
<th>b</th>
<th>c</th>
<th>d</th>
<th>e</th>
<th>f1</th>
<th>f2</th>
<th>f3</th>
<th>f4</th>
<th>g</th>
<th>h</th>
<th>k</th>
<th>p</th>
<th>r</th>
<th>s</th>
<th>Øt</th>
<th>t</th>
<th>u</th>
</tr>
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<tbody>
<tr>
<td>REOVIB WI 211/7</td>
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<td>54</td>
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<td>74</td>
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<td>10</td>
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<td>54</td>
<td>21</td>
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<td>20</td>
<td>6,5</td>
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<td>6,5</td>
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<td>66</td>
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<td>38</td>
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<td>31</td>
<td>30</td>
<td>M6</td>
<td>-</td>
<td>-</td>
<td>26</td>
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</tbody>
</table>

Dimensions in mm

Type | typical applications
---|---
REOVIB WI 211/7 | Packaging industry and weighing sector for feeding and sorting processes
REOVIB WI 211/9 | Automation process and assembly equipment which utilises electromagnetic drives.
REOVIB WI 211/10 | Packaging industry and weighing sector for feeding and sorting processes
REOVIB WI 211/12 | Automation process and assembly equipment which utilises electromagnetic drives.

Technical data:

- Type: REOVIB WI 211/7
- Dimensions in mm:
  - a: 78
  - b: 47
  - c: 54
  - d: 60
  - e: 3
  - f1: 77
  - f2: 74
  - f3: 17
  - f4: 10
  - g: 22
  - h: 54
  - k: 21
  - p: 20
  - r: 31
  - s: 20
  - Øt: 6.5
  - t: 37
  - u: 6.5
  - 28

- Type: REOVIB WI 211/9
- Dimensions in mm:
  - a: 90
  - b: 56
  - c: 66
  - d: 83
  - e: 3
  - f1: 91
  - f2: 88
  - f3: 19
  - f4: 11
  - g: 24
  - h: 66
  - k: 32.5
  - p: 22
  - r: 31
  - s: 44
  - Øt: 8.1
  - t: 44
  - u: 8
  - 28

- Type: REOVIB WI 211/10
- Dimensions in mm:
  - a: 100
  - b: 68
  - c: 66
  - d: -
  - e: -
  - f1: 61.5
  - f2: 12
  - f3: 9
  - f4: 48
  - g: 66
  - h: 38
  - k: 17.5
  - p: 31
  - r: 30
  - s: 30
  - Øt: M6
  - t: -
  - u: -
  - 26

Technical data:

- Type: REOVIB WI 211/7
- Dimensions in mm:
  - a: 78
  - b: 47
  - c: 54
  - d: 60
  - e: 3
  - f1: 77
  - f2: 74
  - f3: 17
  - f4: 10
  - g: 22
  - h: 54
  - k: 21
  - p: 20
  - r: 31
  - s: 20
  - Øt: 6.5
  - t: 37
  - u: 6.5
  - 28

- Type: REOVIB WI 211/9
- Dimensions in mm:
  - a: 90
  - b: 56
  - c: 66
  - d: 83
  - e: 3
  - f1: 91
  - f2: 88
  - f3: 19
  - f4: 11
  - g: 24
  - h: 66
  - k: 32.5
  - p: 22
  - r: 31
  - s: 44
  - Øt: 8.1
  - t: 44
  - u: 8
  - 28

- Type: REOVIB WI 211/10
- Dimensions in mm:
  - a: 100
  - b: 68
  - c: 66
  - d: -
  - e: -
  - f1: 61.5
  - f2: 12
  - f3: 9
  - f4: 48
  - g: 66
  - h: 38
  - k: 17.5
  - p: 31
  - r: 30
  - s: 30
  - Øt: M6
  - t: -
  - u: -
  - 26
REOVIB WE 131
AC electromagnets with EI core

Benefits

- Maximum power 690 VA
- Low Profile
- Particularly suited for small air gaps

Technical data

Vibration frequency 3000 / 6000 1/min

<table>
<thead>
<tr>
<th>Types</th>
<th>Maximum rated air gap [mm]</th>
<th>Power at 3000 1/min [VA]</th>
<th>Power at 6000 1/min [VA]</th>
<th>Rated current = thermal rated current at 230V [A]</th>
<th>Weight [kg]</th>
</tr>
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Compatible REOVIB devices: REOVIB SMART, REOVIB RTS, REOVIB MTS, REOVIB MFS
Typical applications
- Packaging industry and weighing sector for feeding and sorting processes
- Automation process and assembly equipment which utilises electromagnetic drives

Dimensions in mm

<table>
<thead>
<tr>
<th>Typen</th>
<th>a</th>
<th>b</th>
<th>c</th>
<th>d</th>
<th>f1</th>
<th>f2</th>
<th>f3</th>
<th>g</th>
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<td>112,5</td>
<td>7,5</td>
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</tr>
</tbody>
</table>

View W - Mounting via angle brackets
View P - Mounting via ground plate

Cable length L in accordance with customer requirements
Key Points about AC electromagnets

General overview
The complete electromagnet consists of the core bearing the winding and the corresponding armature (I Piece). The electromagnet, the armature and the leaf springs form the drive system of the vibratory feeder. The weight differential between the resting mass, the oscillating mass and the spring force result in a resonant vibration system. Vibratory feeders can therefore only work in a relatively small frequency range around the resonance point. All components of the entire drive system must be adjusted to this frequency. It is therefore important that the electromagnet is constructed for the correct frequency otherwise the total power of the magnet cannot be utilised or it could become overheated due to increased losses. Due to conventional control systems, most vibratory feeders work with the same or double vibration frequency of the connection power, 50 Hz or 100 Hz in the European region and the Asian region, 60 Hz or 120 Hz in the American region.

Low frequency vibration systems
Low frequency systems with vibration frequencies of approximately 15 Hz and 25 Hz are used for particular applications (bulk conveying or product with special feeding characteristics); these systems must be operated with special frequency converters (REOVIB MFS).

Vibration frequency
In addition to the frequency specification in Hz, also the terms “full wave” (6000 vibrations/minute) or “half-wave” (3000 vibrations/minute) have become customary for specification of the vibration frequency.

The terms “full wave” and “half-wave” are derived from the sinusoidal wave of the power frequency:

With half-wave = 50 Hz (60 Hz) a sinusoidal half-wave is blocked by a diode or a triac.

With a full wave = 100 Hz (120 Hz) the positive and negative half-waves each produce vibration.

3000 vibrations/minute = 50 Hz (50 x 60 sec), or
6000 vibrations/minute = 100 Hz (100 x 60 sec)
are comparable with the specification of revolutions per minute (rpm) for a motor.

It is important that the mechanical vibration frequency of the feeder system, the air gap as well as the type of drive control (output voltage and output frequency) are considered in the electrical design of the electromagnets.
Structure of the electromagnets
With more than 20 years of experience REO is one of the leading suppliers in the vibratory feeding sector. REO electromagnets are reliable and field proven, and are suitable for industrial operation and laboratory operation as well as for food applications or pharmaceutical applications.

Our strengths - your benefits
Corrosion protection by means of nickel plating*
Corrosion protection by means of powder-coating

Key Points about AC electromagnets

Principle of operation
1 Core with excitation winding
2 Armature
3 Spring system
4 Fixed counterweight
5 Air gap
6 Vibrating tray

Designs with maximum power of 350 VA
Mounting via:
1) Round holes
2) Base plate
3) Slotted holes

Cable models up to 350 VA
Standard, downwards
Sideways

Cable models up to 4000 VA
Standard, downwards, unshielded cable
Shielded cable

Designs with maximum power of 4000 VA
Mounting with blind tapped holes at the base of the magnet and armature depending on dimensions 2 holes or 4 holes
Measurement of the rated voltage and the continuous rated current on the electromagnet or directly with the frequency controller MFS, display via the appropriate menu.

Measurement of the rated voltage and the continuous rated current on the electromagnet or directly via the programmable phase-angle controller MTS, display via the appropriate menu.

Measurement of the rated voltage and the continuous rated current on the electromagnet.
In addition to the standard electromagnets, REO has developed a range of special solutions - for example water-cooled electromagnets which are used in very hot ambient temperatures. Are you also looking for a special requirement? Our team members are happy to assist - please contact us!
# Guide for your electromagnets

- **Application**
  - ☐ Linear feeder
  - ☐ Bowl feeder
  - ☐ Food processing industry

- **Technical parameters**
  - *Supply voltage $U_N =$ ____________V
  - *Magnet voltage $U =$ ____________V
  - *Power frequency $f_N =$ ____________Hz
  - *Operating frequency $f =$ ____________Hz
  - *Magnet power $P =$ ____________VA
  - *Vibration frequency $ = $ ____________1 / min
  - Solenoid current $I =$ ____________A
  - *Rated air gap $LS =$ ____________mm
  - Maximum tractive power $F =$ ____________N
  - Temperature transmitter ☐ yes, °C ☐ no
  - Plug connection ☐ yes ☐ no
  - Switching ☐ yes
    - ☐ Voltage ____________V
    - ☐ Frequency ____________Hz
  - Corrosion protection ☐ yes, ☐ Nickel plating or ☐ Powder-coating ☐ no

- **Mechanical parameters**
  - Shape ☐ WI (U- Core) ☐ WE (E- Core)
  - Base plate ☐ yes ☐ no
  - Dimensions
    - ☐ Reference values ☐ must be met
    - Length: $L1 =$ ____________mm
    - Length: $B1 =$ ____________mm
    - Height: $H1 =$ ____________mm
  - Mounting dimensions
    - Length: $L2 =$ ____________mm
    - Length: $B2 =$ ____________mm
  - Cable length Length: $L =$ ____________mm

- **Other specifications** (for example test criteria, test voltage, standards, UL, mountings, cooling, mechanical requirements)

- **Requirements planning** (for example samples, pre-series, series, expected quantities)

## Contact Information
- Company
- Contact person
- Department
- Street
- Telephone
- City
- Fax
- Postcode
- Email
- Internet
- Date
### Controllers for the vibratory feeder

Each vibratory feeder requires a controller for an adjustable throughput. The ‘REOVIB’ range of controllers provide control solutions for all requirements. No matter, the voltage, frequency, current or application, there is a controller in the ‘REOVIB’ range which is suitable for you. Please see below for a small selection of our controllers:

<table>
<thead>
<tr>
<th>Controllers</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>REOVIB SMART</td>
<td><strong>REOVIB SMART phase-angle controllers</strong>&lt;br&gt;This range of devices provide the main functions commonly required in vibratory feeding applications and represent a cost-effective option for the control of vibratory feeders – and with the addition of REO’s customary high quality. The devices are available in protection classes from IP00 to IP 54 - the series REOVIB SMART provide cost-effective controllers for many applications.</td>
</tr>
<tr>
<td>REOVIB RTS</td>
<td><strong>REOVIB RTS  Phase-angle controllers</strong>&lt;br&gt;In addition to the main functions, the REOVIB RTS devices offer enhanced functionality, such as adjustable soft start and also further control functions, like the implementation of a level scanning system. The devices are available in protection classes from IP00 to IP54.</td>
</tr>
<tr>
<td>REOVIB MTS</td>
<td><strong>REOVIB MTS Programmable phase-angle controllers</strong>&lt;br&gt;The series REOVIB MTS comprise 1-channel, 2-channel and 3-channel control units. These are phase angle-controllers with a triac as the power element. The vibration frequency of the conveyor devices can therefore be the same or twice the size of the power frequency of the input voltage. Connectors for all inputs and outputs allow for quick installation and facilitate the combination of several devices with one another or with external control systems. The devices use digital technology and are operated via an LED display or LCD display and keypad.</td>
</tr>
<tr>
<td>REOVIB MFS</td>
<td><strong>REOVIB MFS frequency converters for vibratory feeders</strong>&lt;br&gt;The REOVIB MFS series for vibratory feeding, produce an output voltage and frequency to the vibratory feeder which is independent of the frequency of the connected power voltage. REO MFS is available as device in protection class IP 54 for the direct mounting onto a feeder system but also as a model in protection class IP 20 for housing within control cabinets. The devices use digital technology and are operated via an LED display (optional with LCD-Display) and buttons. All settings can be adjusted externally without the need for opening the case.</td>
</tr>
</tbody>
</table>

### Meters for vibratory feeders

The REOVIB range of measuring and monitoring equipment has been specially developed for use in vibratory conveyor technology. The range includes equipment designed for monitoring of the current and voltage values, measurement data for the design and development of vibratory feeders and performance monitoring of the conveyor during operation. Whatever the requirement, REOVIB measuring and monitoring devices can provide the necessary data.

Please refer to our catalogue for controllers for vibratory feeders or www.reo.de for a wider selection.
Worldwide Sales Network

With a worldwide sales network and comprehensive product portfolio, REO can react rapidly to your wishes anywhere in the world - no matter what language you speak. Besides our wide selection of standard products, we can of course offer you tailor-made solutions, developed specially to meet your wishes. Our production facilities in China, India and the USA are equipped in exactly the same way as those in Germany, and designed to provide the same product at the same quality. Using the same software and with development and design in Germany we ensure that REO products are always up to the latest state of the art.

Wherever you are, even after the 1000th production run, a REO product always has the same quality.