



CONVEYING EQUIPMENT

Getting your bulk solids moving



AVITEQ VIBRATION TECHNOLOGY

# We drive your success

For more than 85 years, AViTEQ Vibrationstechnik GmbH have provided oscillating conveyor solutions to almost 375,000 projects. Our extensive experience and vibrating conveyor expertise is evident with our 120 AViTEQ employees worldwide, who are always available to support our international client base.

## Unshakeable Quality

AViTEQ systems and components feature comprehensive functionality including: conveying, sorting, dosing, screening, classifying and dewatering, compacting and loosening, cooling and heating of various bulk materials. We provide extremely varied solutions and can apply these to many different materials, from small pills and coffee beans, to rocks and metal pieces weighing tons.

Every bulk material has its own special requirements and AViTEQ have a vast array of experience, having designed systems and components for more than 3,800 different bulk materials to date. Endurance tests performed in our technical laboratories, and numerous finite element calculations, ensure the highest quality components and systems. Experience the unshakeable quality of AViTEQ.

AVITEQ

# About us



120 employees worldwide



over 85 Years of experience



Expert advice for machine and motor design



large stock warehouse for spare parts



International experiences

AVITEQ

# Components

AViTEQ develops, builds and distributes drive components and control systems for vibrating conveyor systems. We also offer 24-hour replacement part support from the spare part warehouse, as well as various repair services (in-house or on-site).



Magnetic vibrators



Control technology/Accessories

AVITEQ

# Systems

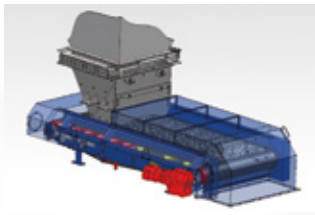
AViTEQ plans and creates vibration and processing engineering solutions. A comprehensive all-round service is possible through AViTEQ and AEG.



Conveying technology



Screening technology



Weighing technology



Process technology

## Conveying technology

AViTEQ vibrating conveyors – proven technology, tried and tested over decades. These systems do much more than the name suggests: they transport bulk material, feed it continuously or in batches, or meter it. These functions are delivered with dependable German quality and engineering prowess.

## Quality Made in Germany

Vibrating conveyors are proven technology, tried and tested with bulk material over decades. They can feed the material continuously or in batches, and can meter it. The conveyor is always custom-built in terms of the design and the materials used. The structure and layout are determined by the intended use, the grain size, the material density and the material behaviour. AViTEQ engineers calculate everything to perfection. There are 85 years of experience to draw upon, as well as a database of more than 3,800 bulk materials and results from countless tests and experiments. Experience shows us what can and cannot be achieved, delivering fast results even in the most challenging applications. That means perfectly tailored conveying technology with durable quality „Made in Germany“.

To achieve this goal, AViTEQ optimises every detail during design, development and execution. We target different areas:

- Type of equipment
- Materials and linings
- Sealing systems
- Vibration isolation
- Drive and control technology

## Conveyor types



### Hopper discharge unit

Hopper discharge units can perform multiple functions including discharging, transporting and metering. When switched off, they seal off the hopper. They are used under hoppers containing free-flowing bulk material, and are attached to the hopper outlet flange preferably with a decline. Components include a trough conveyor, a discharge chute, a container and a safety closure.

- robust and extremely durable
- length up to 6,000 mm, width up to 2,500 mm
- capacity up to 10,000 t/h



### Trough conveyor

Trough conveyors are suitable for conveying and metering virtually any kind of free-flowing bulk material. They can be equipped with a stationary (free-standing) or vibrating (attached) cover. They are extremely robust, both wear and caking can be minimised if the right lining is selected.

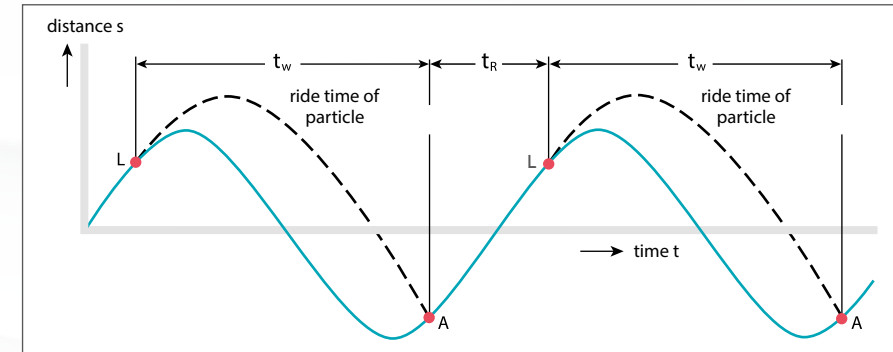
- robust and flexible design for conveying and metering
- length up to 9,000 mm, width up to 3,500 mm
- capacity up to 1,000 m³/h



### Tubular feeder

Tubular feeders can cover distances of up to 10 m, and their enclosed design means they are dust-free. They are characterised by their extremely high capacity of up to 100 m³/h. AViTEQ tubular feeders can transport and meter free-flowing bulk material with a maximum grain size up to 1/3 of the tube diameter.

- dustproof and hygienic
- length up to 9,000 mm, diameter up to 500 mm
- capacity up to 100 m³/h
- declines and inclines possible



s = vibration amplitude  
L = release point  
L\* = release point following L  
A = landing point  
 $t_w$  = jump time  
 $t_R$  = ride time of particle on the trough

### The conveying principle

AViTEQ conveying equipment is based on a single conveying principle that has stood the test of time: a vibrating drive accelerates a trough-shaped steel structure in the jump direction, gently moving the bulk material forward in tiny jumps. The transport process is determined by the frequency and amplitude of vibration, the angle of impact and the trough inclination. The drive system is selected on the basis of the conveying length, the performance, the material characteristics and any additional functions.



### Reversible trough/tubular conveyor

Reversible conveyors can transport and meter bulk material in opposite directions. Highly accurate metering is possible with reversible trough or tubular conveyors if they are equipped with an AViTEQ magnetic vibrator. This also prevents disruption during motor ramp-up and ramp-down.

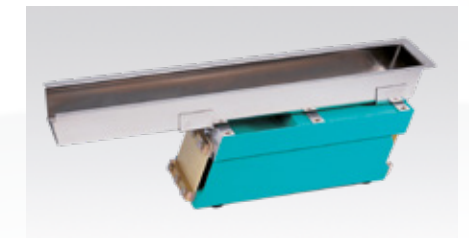
- bulk material deflected without mechanical flaps
- length up to 7,000 mm, width up to 1,200 mm
- capacity up to 200 m³/h



### Spiral conveyor

Spiral conveyors transport bulk material vertically. They can be used to carry fine-grained, coarse-grained and lumpy bulk material. Equipment can be added to heat/cool or dry the bulk material as it is transported.

- handles the material gently, saves energy and space
- conveying height 8,000 mm with a spiral diameter up to 1,500 mm
- capacity up to 30 m³/h



### Compact / Linear feeder

Compact feeders are ideally suited for discharging, conveying, metering, and feeding fine-grained, non-bulky bulk materials from storage containers.

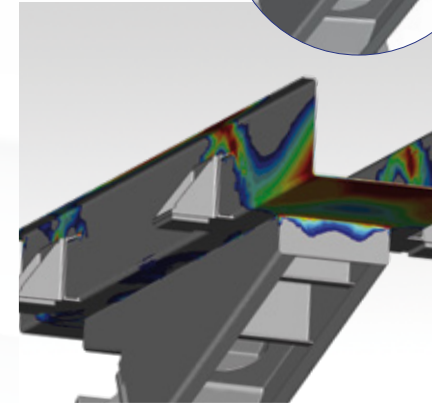
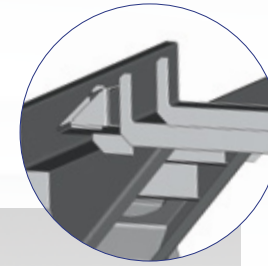
- Conveying and metering of fine-grained, non-bulky bulk materials
- Feeding and storage of bulk parts
- Industry- and product-specific solutions
- Throughput up to 45 m³/h; for single drives up to a maximum length of 2,000 mm or width of 600 mm
- High conveying capacity with compact dimensions

## SPECIAL-PURPOSE EQUIPMENT FROM AVITEQ

### A talent for the special things

For decades now, AViTEQ has been designing special-purpose equipment to perform various functions: horizontal or vertical conveying, sorting and metering, distributing free-flowing material across belts or rolls, knocking-out from moulds or compacting concrete mixes. AViTEQ special-purpose equipment is always perfectly suited to every application, however large or small, heavy or lightweight, robust or gentle, hot, abrasive or sharp-edged. Our bulk materials database contains more than 3,800 materials, and is an outstanding resource. AViTEQ engineers use finite element analysis to optimise systems down to the smallest detail.

That is why no two AViTEQ special-purpose systems ever look quite the same. Five basic equipment types are used to create a whole world of optimised and customised special-purpose equipment, which also meets the highest standards in terms of hygiene. But two things always stays the same: perfect function and supreme durability.



#### Finite element method (FEM)

The finite element method has proved itself to be an excellent way to improve products and components. AViTEQ, too, recognises the benefits of this modern simulation method. We use it to identify hidden weaknesses and eliminate them. But FEM can do more than verify the reliability of a structure. An analysis often shows where cost optimisation is possible, and we are happy to pass this on to our customers.

#### Bulk materials database

About 3,800 different bulk materials, with their principal characteristics, are stored in the AViTEQ bulk materials database – from Aerosil to xanthan, from bauxite to cellulose and quartz powder. The archive also stores the results of tests and experiments, along with vast quantities of empirical data. Our engineers have condensed around 85 years of experience in conveying technology into a single knowledge base of inestimable value.

## Special-purpose equipment



#### Natural frequency feeder

AViTEQ's natural frequency feeders allow vibration frequencies to be optimally matched to the conveyed bulk or unit material, ensuring efficient transport while minimizing energy consumption and excessive noise levels.

- Wide range of applications (dewatering, classifying, protective screening, conveying)
- Lengths up to 5,000 mm
- Widths up to 2,000 mm
- Throughput capacity up to 300 t/h



#### Vibrating table

Vibrating tables can be used to compact and also loosen bulk material. There are two different methods: The load to be vibrated is placed in a container, and either left loose on the vibrating table or clamped firmly to the top of the vibrating table.

- for compaction
- lengths up to 4,000 mm
- widths up to 2,000 mm
- loads up to 3,000 kg



#### Strewing cover/strewing plate

Vibrating strewing units are used to distribute a small quantity of free-flowing material evenly over belts, rolls or surfaces. The size of the equipment depends on the size of the gap, the vibration amplitude and the conveying characteristics of the distributed material.

- high distribution accuracy with magnetic vibrators, food-grade hygienic design available
- distribution width up to 4,000 mm
- distribution performance from 1 to 1,000 litres of material per hour per metre



#### AViTEQ Technical center

The AViTEQ technical center has proven to be highly effective for the development and optimization of systems and components. In this vibration and weighing technology laboratory, bulk materials are thoroughly tested under realistic conditions. Among other things, we analyze flow properties, conveying behavior, drying processes, and screening results. However, the technical center is not only used to reliably verify the functionality of an application. The trials often also provide concrete approaches for optimizing processes and reducing costs, which we systematically incorporate into solutions for our customers.



#### ATEX – Safety that Thinks Ahead

When operating in potentially explosive atmospheres, the highest requirements apply. AViTEQ reliably meets these standards – even for standard equipment. Our vibration drives are designed for various ATEX zones, ensuring safe operation under demanding conditions.

In addition to our drive portfolio, we also offer certification of complete machines. With in-depth engineering expertise and an in-house explosion protection officer, we ensure high safety standards. For particularly stringent requirements, we cooperate with external testing bodies.

MATERIALS AND LININGS

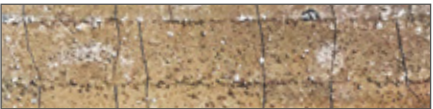
# Perfectly styled for every application

Our vibrating equipment is made of different materials depending on the intended application. S235 JRC structural steel is ideal for most conditions. It is malleable and easy to weld, its resistance to wear is sufficient for most applications, and it is economical.

We use extra strong special steels where increased wear is expected. If there will be contact with foodstuffs, adhesives or aggressive substances, we prefer to use oxidation-resistant chromium-nickel steels such as SS304 or SS316. We use heat-resistant steels like Novotherm® for high temperature applications, keeping AViTEQ systems running reliably at maximum temperatures exceeding 900 °C.

## Linings

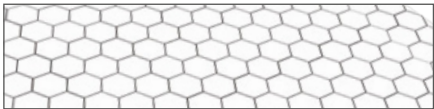
Structural steel is economical and its characteristics are suitable for most applications. However, the troughs sometimes need extra protection. If so, we give them a second skin specifically for the conditions they will encounter. We use the following lining materials:



Composite wear plates



Wear-resistant lining made of V2A®



Ceramic lining

Wear inserts made of S235 JRC or hard materials like XAR30, Hardox®, Dillidur®, Creusabro®, manganese steel, ceramic plates (for extreme wear and temperature conditions) or hardfaced composite wear plates like EIPA® or Vautid®..

**Applications:** abrasive materials like stones, sand or metal parts.



Plastic lining



Textured metal

Screw-in inserts made of chromium-nickel stainless steels or plastics like RCH1000®, Kalen® or Teflon®, or glued inserts made of textured metal or rubber. Coating systems may be used in special cases.

**Applications:** where caking is expected or if there is contact with chemically aggressive material such as molten substances, cement or acids.

SEALING SYSTEMS

# Keeping everything running smoothly

To get bulk material moving, parts of the equipment are vibrated. So that only the bulk material moves, the vibrating parts are isolated from the stationary parts. To do this, AViTEQ uses a range of sealing systems. As well as damping the vibration, they protect sensitive components from dust. AViTEQ sealing systems are all very different from each other, but they all have two things in common: they are maintenance-free and extremely durable.

The following sealing elements are used in AViTEQ vibrating equipment.

| SEAL TYPE                 |  | DESCRIPTION                                      | TEMPERATURE                                                                             | BENEFITS                                                                                                       | NOTES                                                      |
|---------------------------|--|--------------------------------------------------|-----------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|------------------------------------------------------------|
| Gasket                    |  | Closed gasket. Secured with metal straps         | Depending on selected membrane material -20 to +250 °C<br>Special designs up to +400 °C | Simplest and most cost-effective seal type for round inlets and outlets                                        | Materials used: Trellex®, neoprene and silicone            |
| Rubber lip seal           |  | Rubber lip seal attached with steel bar          | Depending on selected membrane material -20 to +250 °C                                  | Simplest and most cost-effective seal type for square inlets and outlets, limited dust protection around edges | The rubber lip seal is made of a soft rubber material      |
| Bar seal                  |  | Rubber membrane attached with two steel bars     | Depending on selected membrane material -20 to +250 °C                                  | Dustproof seal for square and round inlets and outlets                                                         | One material widely used for the seal membrane is Trellex® |
| Seal with snap-on profile |  | Sealing membrane attached with rubber profile    | Depending on selected membrane material -20 to +70 °C                                   | Dustproof seal for square and round inlets and outlets, quick to assemble/remove                               | One material widely used for the seal membrane is Trellex® |
| Compensator               |  | Compensator with cut-outs, attached with flanges | Depending on selected compensator material -70 to +250 °C                               | Completely dustproof seal for square and round inlets and outlets                                              | Pressure-resistant up to around 0.5 bar                    |

VIBRATION ISOLATION

# Hard on the outside, soft on the inside

The support and suspension elements of a vibrating conveyor perform two functions:

- they absorb the loads
- they dampen the vibrations

Whereas rigidity and stability are needed to absorb the loads, vibration damping requires flexibility. The aim is to transfer the least possible dynamic forces to the supporting framework, the hopper or the building structure. It is particularly important to ensure that the resonant frequency of these surrounding structures is different from the working frequency of the vibrating conveyor.

That is why AViTEQ vibrating equipment can be equipped with various different support or suspension elements. Each of them has particular characteristics and benefits.



Vibrating equipment with isolating frame



Pressure spring



Rubber buffer



Articulated rubber supports



Pneumatic element

VIBRATION ISOLATION

# Support and suspension equipment

| SUPPORT TYPE                                    |  | DESCRIPTION                                                                                    | VIBRATION FREQUENCY | TEMPERATURE                                    | BENEFITS                                                                                                                                           |
|-------------------------------------------------|--|------------------------------------------------------------------------------------------------|---------------------|------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| Rubber buffer                                   |  | Support with rubber buffer under compression, Trough position precisely fixed                  | 50 to 60 Hz         | -20 to +80 °C                                  | Simplest type of support, trough position securely fixed even during system startup and shutdown, minimal travel                                   |
| Suspension with rubber buffer under compression |  | Suspension with rubber buffer under compression, Trough position not precisely fixed           | 50 to 60 Hz         | -20 to +80 °C                                  | Simple suspension to hopper or ceiling, height of trough adjustable                                                                                |
| Hollow rubber buffer                            |  | Support with hollow rubber buffer under compression, Trough position precisely fixed           | 25 to 40 Hz         | -20 to +80 °C                                  | Simplest type of support, trough position securely fixed even during system startup and shutdown                                                   |
| Hollow rubber buffer with suspension            |  | Suspension with hollow rubber buffer under compression, Trough position not precisely fixed    | 25 to 40 Hz         | -20 to +80 °C                                  | Simple suspension to hopper or ceiling, height of trough adjustable                                                                                |
| Tension springs                                 |  | Suspension with coil springs under tension, Trough position not precisely fixed                | 12.5 to 60 Hz       | -40 to +200 °C<br>Special design up to +300 °C | Flexible suspension, good vibration isolation, also suitable for high-temperature materials                                                        |
| Compression springs                             |  | Support with coil springs under compression, Trough position precisely fixed, high strength    | 12.5 to 60 Hz       | -40 to +200 °C<br>Special design up to +300 °C | Flexible support, good vibration isolation, also suitable for high-temperature materials                                                           |
| Compression spring suspension                   |  | Suspension with coil springs under tension, Trough position not precisely fixed, high strength | 12.5 to 50 Hz       | -40 to +200 °C<br>Special design up to +300 °C | Simple suspension to hopper or ceiling, height of trough adjustable                                                                                |
| Articulated rubber supports                     |  | Support with oscillation mountings, Trough position precisely fixed                            | 12.5 to 25 Hz       | -40 to +80 °C                                  | High self-damping, no swaying as with coil springs. No torsional movement in the conveying direction, large vibration amplitudes possible          |
| Pneumatic elements                              |  | Support with pneumatic spring element, Trough position precisely fixed, low compressed air     | 12.5 to 60 Hzz      | -20 to +80 °C                                  | Precise height adjustment by modifying air pressure. Effective noise reduction, large vibration amplitudes possible, very good vibration isolation |

DRIVES – MAGNETIC TECHNOLOGY

Supreme muscle packs

The principle behind AViTEQ vibrating conveyors is the uniquely gentle way they handle material. This is also the key to the solid quality and durability. In a trough-shaped steel structure, the material is accelerated by a vibrating drive and moved in the jump direction. This inches the bulk material forward in tiny jumps. It spends most of the time in the air, not even touching the equipment. The transport process depends on three factors:

- the vibration frequency
- the vibration amplitude
- the angle of impact and the trough inclination

The vibration frequency and vibration amplitude are strongly dependent on the selected drive system. There are other factors involved in selecting the best drive, controller and design, such as the conveying length, the performance and the material characteristics. If conveying equipment is expected to perform several functions, the choice of drive must take this into account too. There are two different approaches – magnetic vibrators and unbalanced technology.

Magnetic Vibrators

AViTEQ magnetic vibrators are continuously adjustable. They work at 100% capacity as soon as they are switched on, and when they are switched off they stop the flow of material in fractions of a second.

They are suitable for volumes of a few kg/h to several thousand t/h, and have an impressive service life even with a large number of operating cycles.



TECHNICAL CHARACTERISTICS

Vibration frequency:  
25, 33, 50, 100 Hz in 50 Hz mains  
30, 40, 60, 120 Hz in 60 Hz mains

Capacity: from a few kg/h to more than a thousand t/h

Working weight: 6 – 3,000 kg

Mains frequency: alternating current (50 or 60 Hz)

Mains voltage: 230, 400, 500 V / 220, 380, 440, 480 V (special voltages available on request)

Ambient temperature: -20 °C to + 40 °C (lower and higher temperatures possible)

Protection MV\*: IP55 to DIN EN 60529  
Protection magnetic core\*: IP65 to DIN EN60529

Optional: tropic-proof insulation, special coating, external ventilation, thermal switch (on request)

\* different protection with different types of magnetic vibrator

OUR SAFETY STANDARDS



FOR OUR LIGHTWEIGHTS

Controller up to 6A and Gateway



SDE06/GW-2    SDE06/...-2

FOR OUR HEAVYWEIGHTS

Controller up to 15/25/50A



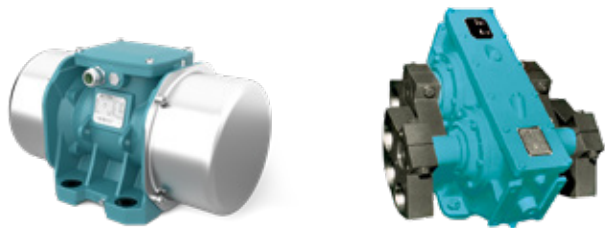
SDE15/...-2    SDE25/...-2    SDE50/...-2

|                                       | SDE06/...-2<br>SDE06/GW-2 (optional)                                                                                                  | SDE15/...-2                                                                                                                                             | SDE25/...-2   | SDE50/...-2    |
|---------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|----------------|
| Mains frequencies                     | 50 Hz and 60 Hz                                                                                                                       |                                                                                                                                                         |               |                |
| Vibration frequencies with 50Hz mains | 25, 33, 50 and 100 Hz                                                                                                                 |                                                                                                                                                         |               |                |
| Vibration frequencies with 60Hz mains | 30, 40, 60 and 120 Hz                                                                                                                 |                                                                                                                                                         |               |                |
| Mains voltage                         | 100-250V                                                                                                                              | 100-250V                                                                                                                                                | 100-250V      |                |
|                                       | -                                                                                                                                     | 380-600V                                                                                                                                                | 380-600V      | 380-600V       |
| Limit current, max                    | 6A                                                                                                                                    | 15A                                                                                                                                                     | 25A           | 50A            |
| Setpoint specification                | Poti, 0-10 VDC, 0-20 mA or 4-20 mA (switchable)                                                                                       |                                                                                                                                                         |               |                |
| Ambient temperature                   | built-in version -5 up to +45 °C                                                                                                      |                                                                                                                                                         |               |                |
| Protection class                      | built-in version: IP 20<br>housing version: IP 55 on request                                                                          |                                                                                                                                                         |               |                |
| Dimensions (W x H x D)                | 45x115.5x110 mm<br>(GW: 22.5x115.5x110 mm)                                                                                            | 75x244x194 mm                                                                                                                                           | 80x244x194 mm | 141x250x194 mm |
| Weight                                | 288 g<br>(GW: 102 g)                                                                                                                  | 2,2 kg                                                                                                                                                  | 2,6 kg        | 4,2 kg         |
| Betriebsarten                         | Single-mode operating modes (B x H x D): Voltage pre-control or vibration amplitude control<br>Master-slave: Reverse or parallel mode |                                                                                                                                                         |               |                |
| Additional function                   | · adjustable soft start<br>· With fill level control/exchange circuit                                                                 |                                                                                                                                                         |               |                |
| Approvals/conformity                  | CE marking in accordance with Low Voltage Directive 2014/35/EU<br>CSA/UL (in planning)                                                |                                                                                                                                                         |               |                |
| Permissible tolerances                | at mains voltage 100-250V: -15% / +6%, at mains voltage 380-600V: -15% / +4%                                                          |                                                                                                                                                         |               |                |
|                                       | Mains frequency: +/-0.5%                                                                                                              |                                                                                                                                                         |               |                |
| Connections (data)                    | · Analogue and digital<br>· Ethernet (only in conjunction with gateway SDE06/GW-2)<br>· USB-A for software & parameter update         | · Analogue and digital<br>· Ethernet/LAN socket 100BaseT with Auto-MDI (RJ45 socket)<br>· USB-A for software & parameter updates<br>· ViCAN socket (2x) |               |                |

DRIVES – UNBALANCED TECHNOLOGY

# POWERFUL ENDURANCE RUNNERS

AViTEQ unbalanced drives are particularly suited to continuous material transport over long distances. Unbalanced motors, unbalanced exciters and slider-crank mechanisms are all characterised by high performance, low-cost running and high reliability and durability. AViTEQ drives are easy-going when it comes to mains frequency, so they are happy to be plugged into 50 and 60 Hz networks.



| TECHNICAL CHARACTERISTICS              | UNBALANCED MOTORS                                                                                                        | UNBALANCED EXCITERS                                                              |
|----------------------------------------|--------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|
| Centrifugal force range                | 59 - 304.000 N                                                                                                           | 28.000 – 424.000 N                                                               |
| Torque                                 | 0.12 - 5.510 kgcm                                                                                                        |                                                                                  |
| Working weight                         | 1 – 11.250 kg                                                                                                            | 900 – 20.000 kg                                                                  |
| Rate power consumption                 | 0.03 - 27.000 W                                                                                                          | 1,8 – 90.000 W                                                                   |
| Ambient temperature                    | -20 °C – + 40 °C/+ 55 °C                                                                                                 | -20 °C – + 50 °C*                                                                |
| Mains connection                       | Three-phase/AC<br>(50 or 60 Hz)                                                                                          | Drehstrom<br>(50 oder 60 Hz)                                                     |
|                                        | All common voltages up to 690 V                                                                                          | in allen gebräuchlichen<br>Spannungen bis 690 V                                  |
| Synchronous speed in 50/60 Hz networks | 750 / 900 min <sup>-1</sup>                                                                                              |                                                                                  |
|                                        | 1.000 / 1.200 min <sup>-1</sup>                                                                                          | 750 – 1.500 min <sup>-1</sup>                                                    |
|                                        | 1.500 / 1.800 min <sup>-1</sup>                                                                                          |                                                                                  |
|                                        | 3.000 / 3.600 min <sup>-1</sup>                                                                                          |                                                                                  |
| Safety standards (optional)            | IP66 (DIN EN 60529)<br>tropic-proof insulation,<br>ATEX Zone 21 and 22,<br>Explosion protection for ATEX<br>Zone 1 and 2 | IP66 (DIN EN 60529)<br>ATEX protection, CSA version only<br>for stationary motor |

\* Different design and alternative drives (e.g. slider-crank mechanisms) on request.

CONTROLLERS – UNBALANCED TECHNOLOGY

# Intelligent clock generators

Specially designed control systems from the AViTEQ VIBTRONIC® range ensure that our vibrating conveyors with unbalanced drive will keep working perfectly over a long service life. You can choose from two controller types depending on the required function:

Our braking units (braking block or braking unit) brake the unbalanced drives when the equipment is switched off. They are used if short stop times are needed. AViTEQ braking systems will work everywhere: controlled or uncontrolled, with or without PTC thermistor protection and as an open-frame version or with housing. Our solutions are tailored and can be equipped with lateral vibration monitoring as an option.

AViTEQ speed controllers (frequency converter or speed controller) are used for continuous adjustment of capacity during operation. The capacity can be adjusted from 40 to 100% of the nominal performance. In addition, they are not sensitive to high inrush currents. This is one of the characteristic features of AViTEQ speed controllers.



| TECHNICAL CHARACTERISTICS                                                             | Braking block                  | Braking unit                                                         | Frequency converter                                                               | Speed controller                                                                  |
|---------------------------------------------------------------------------------------|--------------------------------|----------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| Vibrator current, maximum                                                             | 6 A                            | 15 A                                                                 | 25 or 43 A                                                                        | 25, 50 or 100 A                                                                   |
| Mains voltage in 50/60 Hz networks<br>Special voltages available on request           | 105...115 V<br><br>220...240 V | 220...240 V<br><br>380...420 V<br><br>440...480 V<br><br>500...520 V | 220...240 V <sup>1</sup><br><br>380...420 V<br><br>440...480 V<br><br>460...500 V | 220...240 V <sup>1</sup><br><br>380...420 V<br><br>440...480 V<br><br>480...520 V |
| Vibration frequency in 50 Hz network                                                  | 50 or 100 Hz                   | 25 or 50 Hz                                                          | 25, 33 or 50 Hz                                                                   | 25, 33 or 50 Hz                                                                   |
| Vibration frequency in 60 Hz network                                                  | 60 or 120 Hz                   | 30 or 60 Hz                                                          | 30, 40 or 60 Hz                                                                   | 30, 40 or 60 Hz                                                                   |
| Signal processing                                                                     | analog                         | analog                                                               | analog                                                                            | digital                                                                           |
| Voltage control                                                                       | +                              | +                                                                    | +                                                                                 | +                                                                                 |
| Vibration amplitude control with collision monitoring                                 |                                |                                                                      | +                                                                                 |                                                                                   |
| Limiting control with collision monitoring                                            |                                |                                                                      |                                                                                   | +                                                                                 |
| Effective vibration amplitude control                                                 |                                |                                                                      | +                                                                                 | +                                                                                 |
| Temperature monitoring for magnetic vibrator directly connectable                     |                                |                                                                      | +                                                                                 | +                                                                                 |
| External reference variables directly connectable<br>(0-10 VDC, 4-20 mA and 0-20 mA)  | +                              | +                                                                    | +                                                                                 | +                                                                                 |
| Set value switchable between potentiometer (local) and<br>external reference variable | (+) <sup>2</sup>               | +                                                                    | +                                                                                 | +                                                                                 |

\* + = integrated    1) 25 A version    2) Only possible for 0-10 V DC.

WE ARE THERE FOR YOU

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