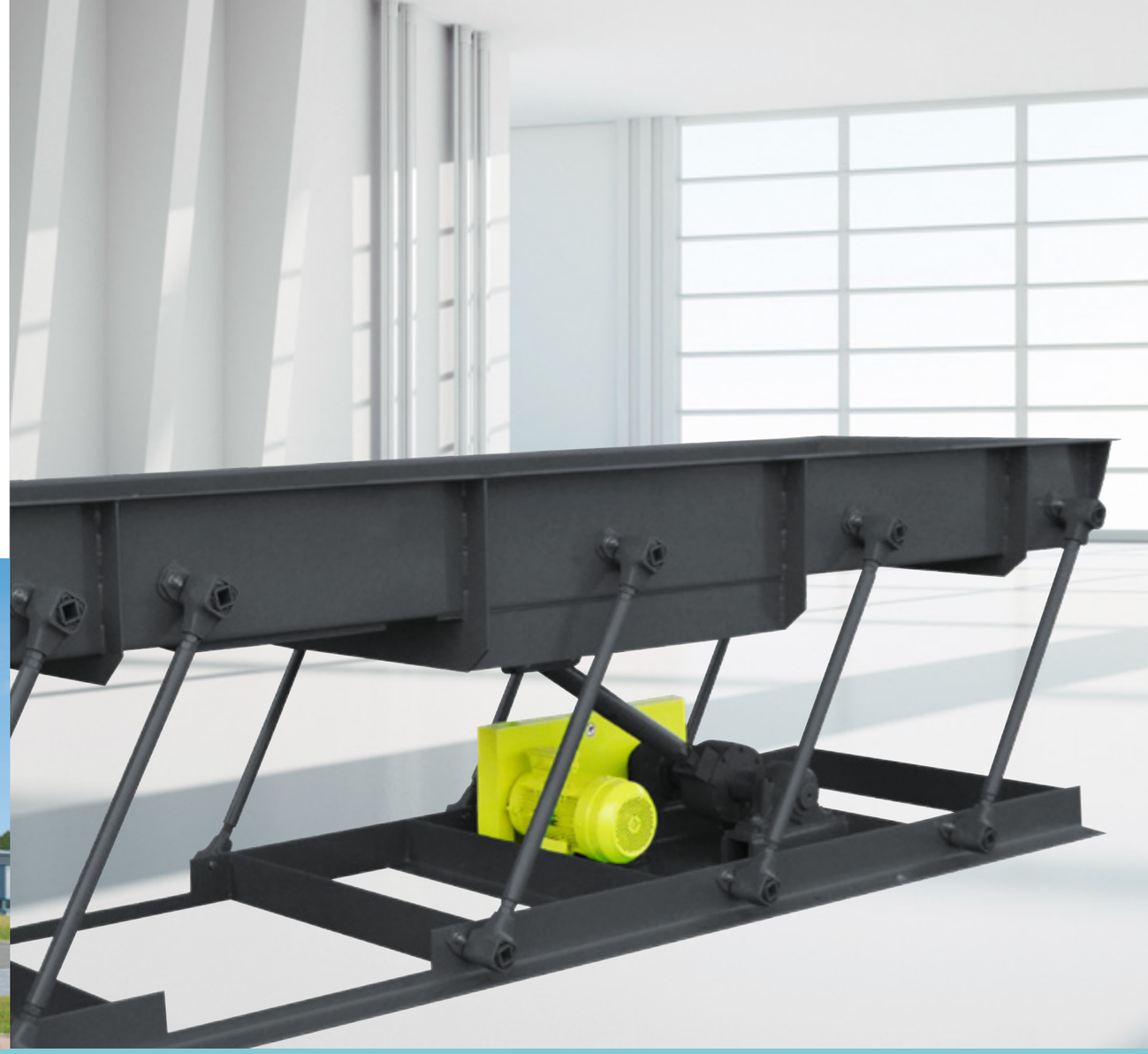
About S&F GmbH

The family-owned company established in 1990 supplies screening machines and conveying systems around the world to meet the specific requirements of different industries and customers. The company takes pride in its excellent, personal service and in the expertise of its employees. All machines are extensively tested and optimised at S&F for the various tasks. The result: bespoke, long-lasting and service-friendly solutions.

- **Screening machines and systems**
- **Separating and screening plants**
- **Dosing and conveying plants**
- **Project planning**
- **Assembly and spare part service**

www.fsb-welfenburg.de



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Vibrating conveyor

AVR Series

GmbH
Siebmaschinen & Fördertechnik
Screening machines and materials handling technology

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Vibrating conveyor AVR Series

S&F type AVR vibrating conveyors are suitable for horizontal conveying and feeding of bulk and piece materials. The robust eccentric shaft unit, the resilient construction and the high-quality vibrating components provide a long, maintenance-free service life. Vibrating conveyors in the „AFR“ model series provide conveyor widths from 400 to 1,500 mm, construction size-dependent conveyor lengths of up to 20 m and material-dependent capacities of up to 150 m³/h.

Function description:

S&F vibrating conveyors consist of a base frame with robust crankshaft drive, several rubber-mounted vibrating elements attached at the side and an open, rigid conveyor trough. The vibrating frequency is applied to the thrust rod via an eccentric shaft. Vibrating conveyors operate in accordance with the throw procedure.

Robust drive units provide fast conveying speeds and gentle product transportation

The material is transported in a gentle way at a constant speed. The material that is fed is constantly in motion and flows via the conveyor trough towards the discharge. Then the material is led to the downstream system, such as a drum chipper.

Vibrating conveyors are used to transfer short and long pieces of waste wood from upstream machinery and systems. They are also suitable as a discharge device in push floor systems.

Possibility of combining vibrating conveyor with screen zone for simple screening tasks within the conveyor system

It is possible to equip vibrating conveyors with screen zones for separating excess lengths and fine material. This makes it possible to separate into different size classes within the conveyor system.

Application areas:

S&F vibrating conveyors are used in the wood industry (sawmills, planing factories, pulp industry, pelleting industry, derived timber product industry, bio-mass power stations), the recycling industry (waste wood recycling systems, refuse derived fuel power stations, refuse derived fuel plants) and other areas.

Materials to be conveyed:

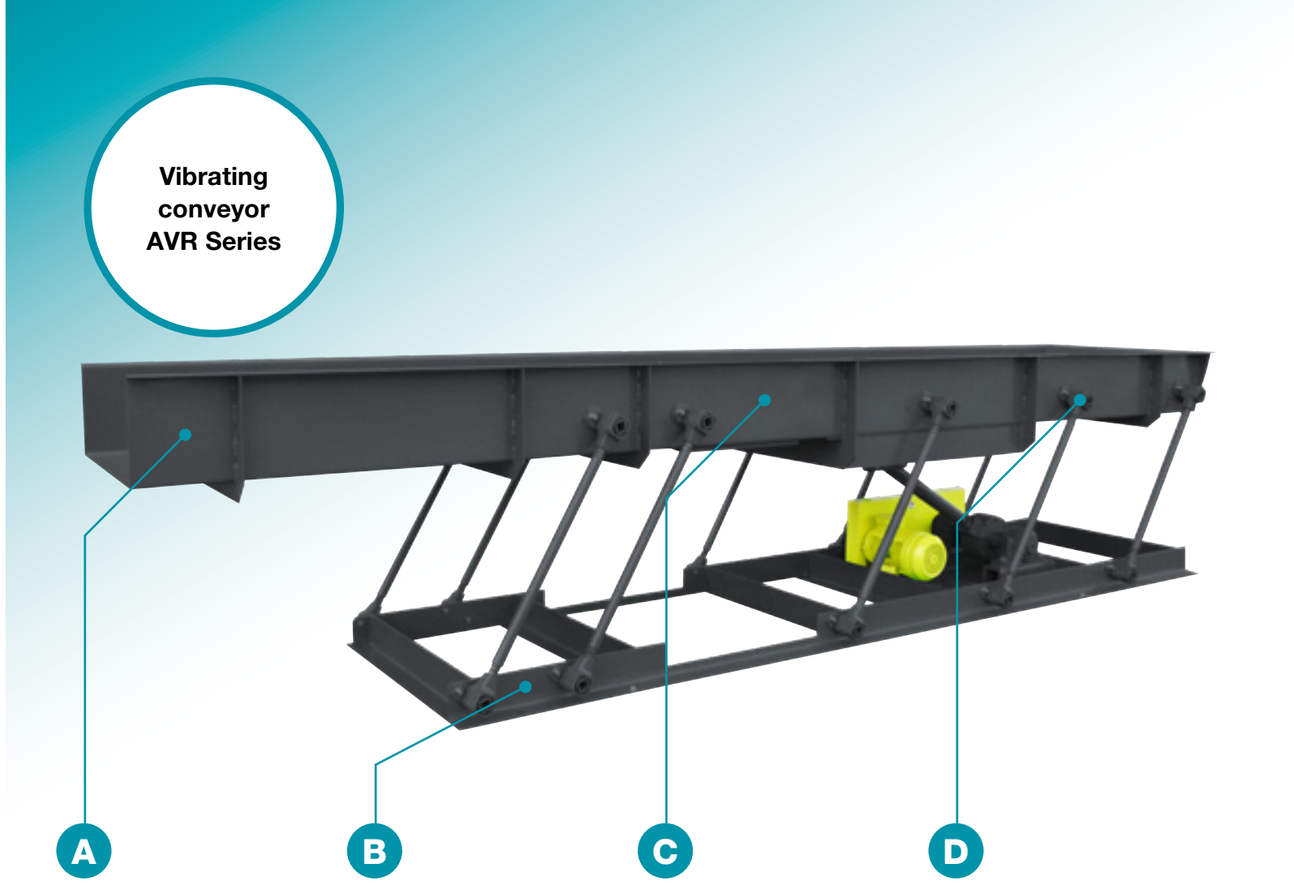
Vibrating conveyors convey and transport short and long piece and bulk materials, including wood chips, sawdust and wood shavings, bio-mass, sawing residue, wood blocking, bark, waste wood, commercial waste, refuse derived fuel and much more.

Advantages of S&F vibrating conveyors:

- **Gentle product conveying.** The eccentric shaft transmits the acceleration to the conveyor via a thrust rod and speeds up the movement of the material in a gentle way.
- **Solid and robust construction** with long-lasting drive unit and maintenance-free, rubber-mounted vibrating elements.
- **Easy to maintain and repair** thanks to ease of access to bearing points and the low number of wear parts.
- **Operationally safe and reliable,** even under extreme conditions such as heat and dust.
- **Low noise** due to energy-efficient and low-noise drive system and the use of high-quality materials and components.
- **Favourable price–performance ratio** due to simple mechanical structure and long service life of the installed components.
- **Low power consumption;** thanks to the use of energy-saving, high-efficiency motors.
- **Low wear,** since there is no direct contact between the conveyed material and the mechanical machinery components.
- **Flexibly deployable** for different tasks and materials.
- **Can be integrated in existing plant systems** by means of customer-specific special solutions.

Accessories and options:

- Screen zone
- Trapezoidal trough
- Metal-free zone
- Metal search coil, metal detector
- Material inlet and outlet
- Cover hood
- Dedusting nozzles
- Special materials
- Special paint
- Inspection and safety equipment
  - Speed control
  - Bearing temperature monitor



A

Exceptional economic efficiency.

The low proportion of maintenance and wear parts and the robust and resilient construction ensure that the equipment will have a long and low-maintenance service life.

B

Extremely powerful.

The generously-dimensioned drive unit makes size-dependent conveying distances of up to 20 m possible. Depending on the feed material, up to 150 m³/h can be transported.

C

Possibility of vibrating conveyor/ screen zone combination.

Vibrating conveyors can be equipped with screens for simple screening tasks. This makes it possible to separate into different size classes within the conveyor system.

D

Low-maintenance, durable vibrating components.

The damped vibrating elements and the rubber-mounted thrust rod head are maintenance free and provide quiet running of the machine, even under extreme ambient conditions.

Technical data:

Machine model	AVR-400	AVR-500	AVR-650	AVR-800	AVR-1000	AVR-1200	AVR-1500
Conveyor width [mm]	400	500	650	800	1,000	1,200	1,500
Conveyor length [mm]	2,500 – 20,000	2,500 – 20,000	2,500 – 18,000	3,000 – 18,000	3,000 – 16,000	4,000 – 14,000	4,000 – 12,000
Trough height [mm]	130 – 200	130 – 200	130 – 250	150 – 300	150 – 300	200 – 350	200 – 350
Trough plate thickness [mm]				4 / 5 / 6 / 8 **			
Conveying capacity (material-dependent) [m³/h] *	5 – 25	15 – 35	25 – 40	30 – 50	40 – 70	50 – 90	70 – 150
Conveying speed [m/min] *				up to 12 **			
Drive output [kW]	1.5 – 4.0	2.2 – 5.5	3.0 – 7.5	4.0 – 11.0	4.0 – 11.0	5.5 – 18.5	5.5 – 18.5

* The performance data depends on the material properties of the conveyed material (bulk weight, grain size, material moisture), the conveying speed, layer height etc.
**dependent on size

Subject to technical amendments. | All approximate specifications. | Excerpt from our model list. Additional models upon request. | Version: 06/2018