



*High screening performance*



*No trapped and clogged material*



*Low noise and low maintenance*



*Exceptional economic efficiency*



*Extremely reliable*



*Flexible in use*



*Can be integrated in existing plants*

## About S&F GmbH

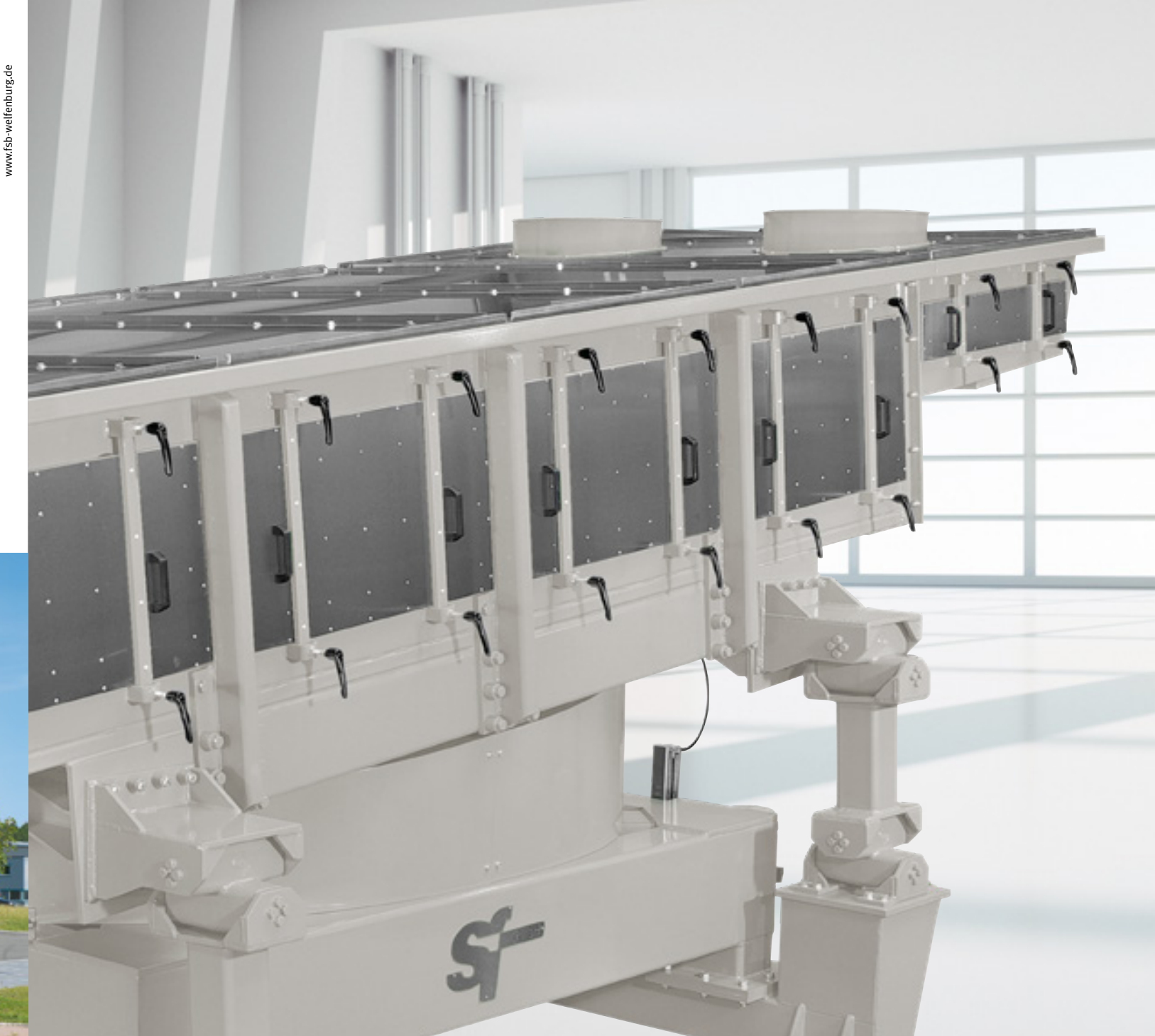
The family-owned company established in 1990 supplies screening machines and conveying systems around the world to meet the specific requirements of different industries and customers. The company takes pride in its excellent, personal service and in the expertise of its employees. All machines are extensively 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



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## Oscillating screens

ASM series

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# Oscillating screens ASM series

The S&F type ASM oscillating screen was specially developed for screening and separating dry and wet bulk materials. Thanks to the wide, circular and vibration-free horizontal oscillating movement of the oscillating screen, long chips or particles are rarely positioned vertically. The robust construction of the screening machine combined with our many years of experience in the production of screening machines guarantee a long, low-maintenance service life. Screening machines in the ASM series offer screen sizes from 0.5 to 24 m<sup>2</sup> and throughputs up to 350 m<sup>3</sup>/h.

## Function description:

The material mixture to be screened is fed evenly into the feed hopper of the screening machine with the help of a dosing system, a conveying system or a similar system. In the feed area, the bulk material to be screened is distributed over a flat surface and fed into the inclined screen area.

### The horizontal-circular oscillating movement of the screening machine makes the difference

The eccentric shaft with a counterweight induces rapid, horizontal-circular vibratory movement in the oscillating screen. The screen box is supported on special rubber-sprung elements. The plane, eccentric oscillating movement ensures that the material fed in is constantly in motion and flows over the screen areas towards the outlet.

### Material to be screened remains flat = no trapped and clogged material

Rotating screening movements spread the material horizontally. Long, fibrous or pencil-shaped particles slide over the screening surface of the screening machine. As a result, the problem of long narrow parts (e. g. slivers) standing upright (trapped material) or falling through is all but eliminated.

Compared with vibration technology, this advantage of this screening method is that the material is screened gently. This has a positive impact on screening quality. The material mixture to be screened, which is smaller than the apertures of the screening element, falls through the screen. From there, it moves on to the next screening stage, if required. This procedure repeats until all of the material has been screened. The screened material is then removed from the oscillating screen via the relevant outlet openings and conveyed by corresponding discharge devices to the downstream processes.

## Application areas:

Oscillating screens are used in the wood processing industry (sawmills, pelletising industry, the chipboard and fibreboard industries, the paper and cellulose industry, in biomass power stations, and by producers of wood fuels). They also serve the recycling industry (waste wood processing plants, recycling plants, alternative fuel power plants) as well as other areas of the waste management industry and environmental technology. They are also used in the animal feed industry, the seasoning industry, the plastics industry, in brick factories and many other sectors.

## Materials to be screened:

S&F oscillating screens screen many types of wet and dry bulk material including wood chips, sawdust, pellets, wood shavings, biomass, bark, waste wood chips, alternative fuels and much more besides.

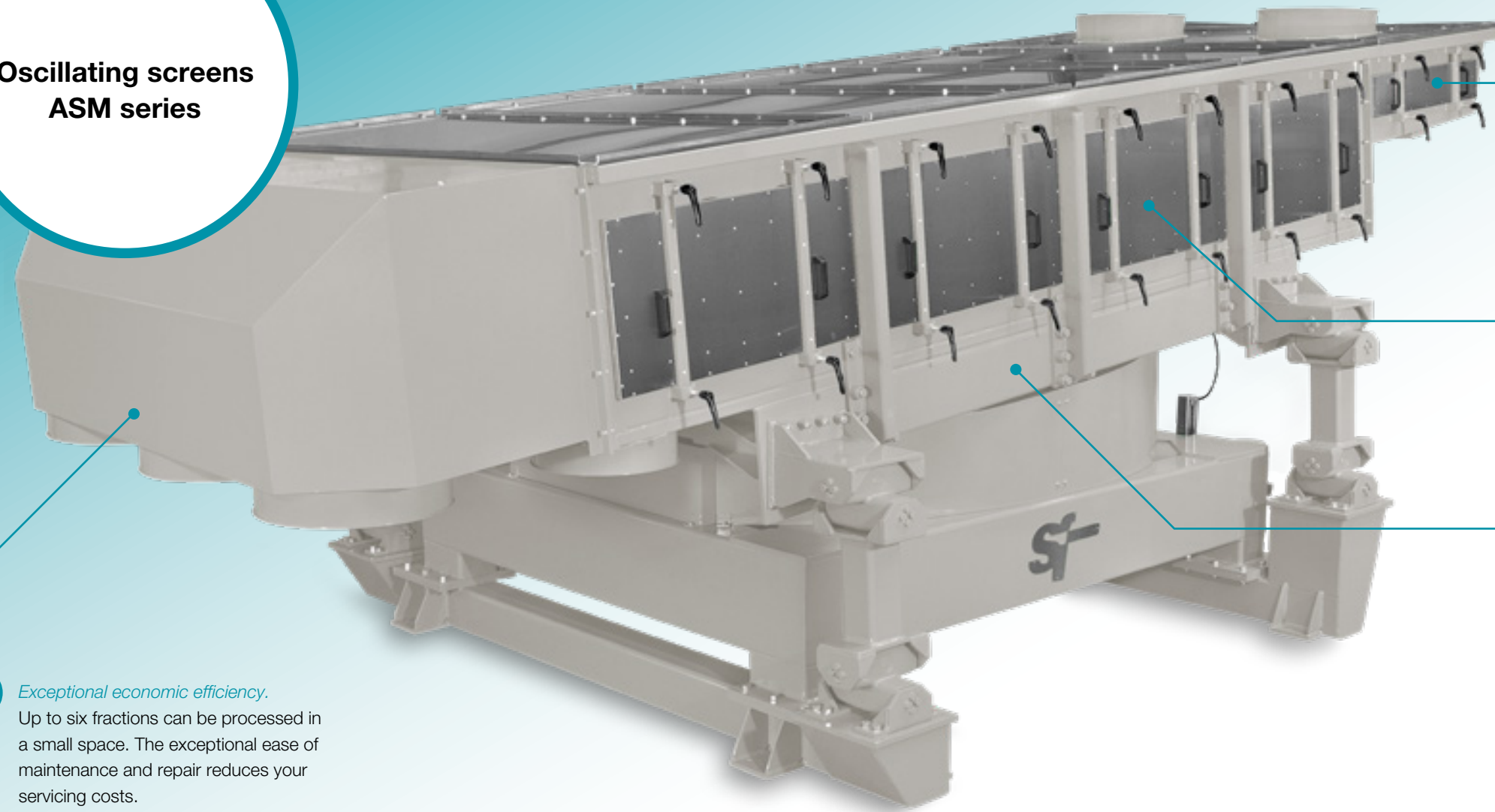
## Advantages of S&F oscillating screens:

- **High screening performance;** the circular screening movement spreads the material more quickly. As a result, the entire installed screening surface is used.
- **High economic efficiency;** as up to six fractions can be handled in a single process in a compact space.
- **No trapped and clogged material;** the horizontal and rotating screening movement ensures that the material to be screened does not stand upright.
- **High separation precision;** thanks to planar screening movement and defined screening parameters, irrespective of the load in the screening machine.
- **Low noise and low maintenance;** the use of maintenance-free, long-lasting oscillating elements along with other high-quality components and materials.
- **Easy to repair;** thanks to good accessibility of bearing points and other wear parts.
- **Rapid screen replacement;** with simple screening attachment systems and standardised screening frames.
- **High reliability with low power consumption;** thanks to the use of energy-saving, high-efficiency motors.
- **High flexibility under changing conditions;** with easily replaceable screens and user-friendly operating parameters.
- **Low dynamic load on foundations;** the oscillating screen compensates the mass distribution, which means that it is perfectly balanced.
- **Material inlet and outlet positions freely configurable;** simplifying the design of the overall plant.
- **A wide variety of screening coatings can be used;** letting you respond quickly to different material parameters.
- **Different fractions in a single work process;** ensuring that a defined end product is created even in confined spaces.
- **Can be integrated in existing plants;** thanks to its compact design and custom configuration options.

## Accessories and options:

- Screening machine with a dust-tight design
- "Double-decker" configuration
- Screen cleaning (e. g. rubber ball cleaning system)
- Central lubrication/automatic lubricant dispenser
- Bearing temperature monitor
- Flexible inlet and outlet collars (compensators)
- Pivoting motor base, self-adjusting
- ATEX design

## Oscillating screens ASM series



**A** *Optimum screening performance with bulk materials. Long narrow parts cannot fall through.*  
Wide, circular and vibration-free screening movements ensure that the material is horizontally aligned. This guarantees optimum results.

**B** *Easier and faster screen replacement.*  
The screen flaps mounted at the side make it easier to replace the screens. This saves precious time.

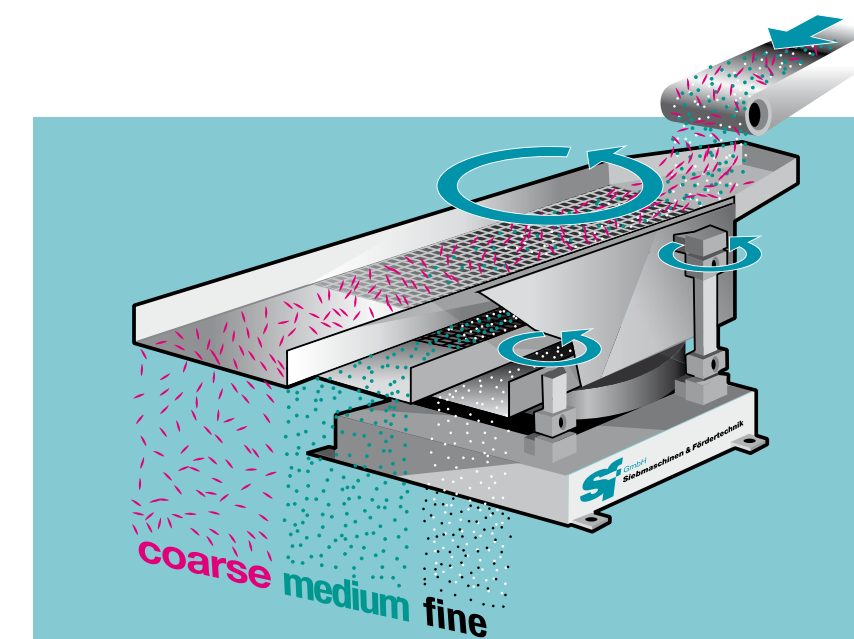
**C** *Exceptionally powerful.*  
By using the entire installed screen area, the machine can handle up to 350 m<sup>3</sup>/h, depending on the bulk material used. The ASM is highly flexible and can be integrated in existing plants.

**D** *Exceptional economic efficiency.*  
Up to six fractions can be processed in a small space. The exceptional ease of maintenance and repair reduces your servicing costs.

## Technical Data:

	Performance [m <sup>3</sup> /h]	Total length [mm]	Total width [mm]	Total height [mm]	Length of screening area [mm]	Width of screening area [mm]	Weight [kg]	Drive output [kW]
ASM-50	5 – 10	1800	850	950	1000	500	350	0,55
ASM-75	7,5 – 15	1800	1200	950	1000	750	450	1,1
ASM-100	10 – 20	2100	1200	1050	1250	800	550	1,1
ASM-150	15 – 30	2600	1550	1150	1500	1000	1200	1,5
ASM-200	20 – 40	3300	1550	1420	2000	1000	1600	2,2
ASM-300	30 – 60	3300	2050	1420	2000	1500	1900	2,2
ASM-400	45 – 90	3500	2700	1800	2000/2300	2000	3200	3,0
ASM-600	60 – 120	5300	3040	2400	3450	2000	6000	4,0
ASM-800	80 – 160	6600	3040	2550	4550	2000	7300	5,5
ASM-1000	100 – 200	6600	3560	2800	4550	2500	9000	7,5
ASM-1200	200 – 350	7800	4060	2850	4950	2750	11000	11,0

All approx. specifications!



## Functional principle of the screening machine

- The unsorted material is fed to the screen.
- The screening movement is circular and arranges the material so that it is flat.
- The screening machine separates the material mixture by using different screens of the required size classes.
- The screened material is then discharged via the corresponding outlet openings.

