SPALEC(®

FORWARD THINKING. SINCE 1869.



CONVEYING & SEPARATION TECHNOLOGY

MSW & INDUSTRIAL WASTE > CONSTRUCTION WASTE > ELECTRONIC-SCRAP

SLAG/ASH > SHREDDER-FRACTIONS > ASR > USED TYRES > GLASS > YOUR MATERIAL



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GRADING

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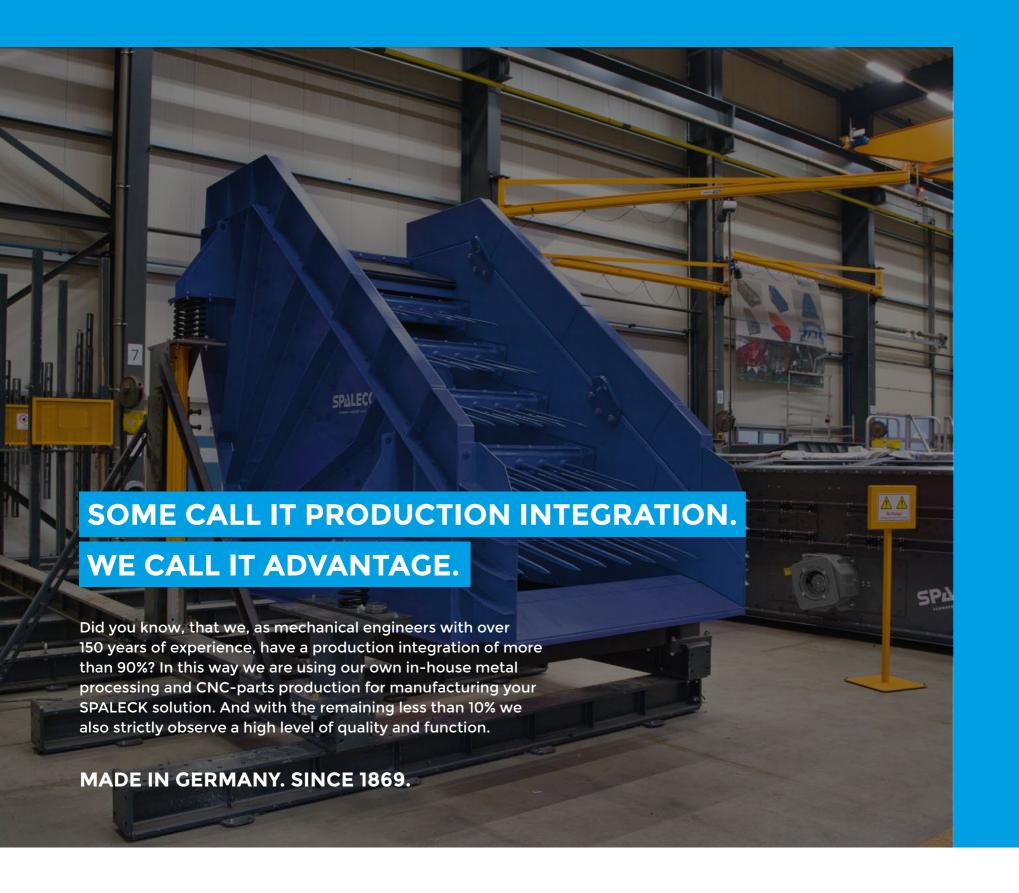
INNOVATION LEADER 4.0 SEPARATION WITH EXPERIENCE

Being a quality manufacturer of screeningmachines, we are uncompromising with regard to high-performance and reliability of your SPALECK screen.

As mechanical engineers in the 5th generation, we know, what counts most for you. This is why our innovations and screening-solutions take you further in your recycling process.









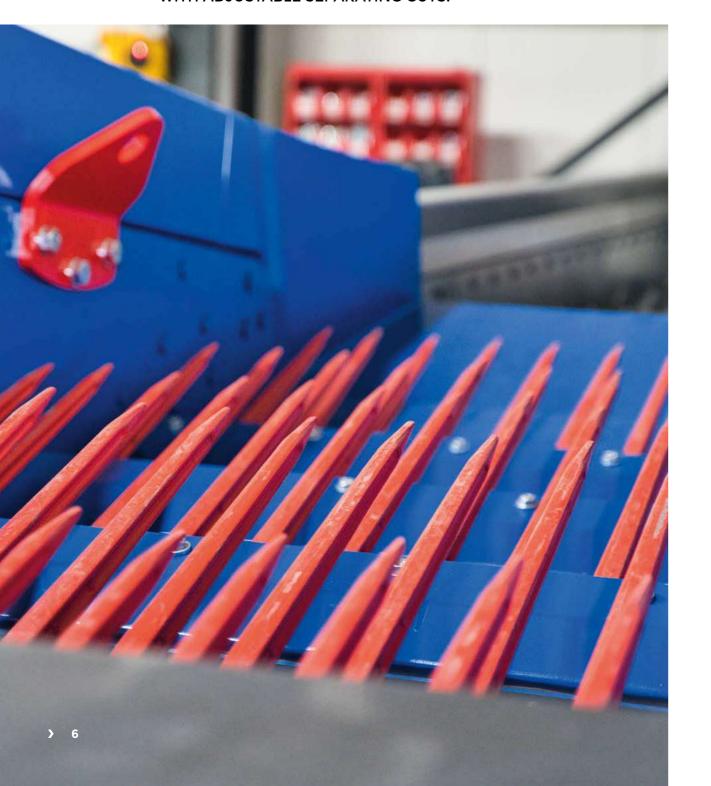
BAR SIZER

PRE-SCREENING



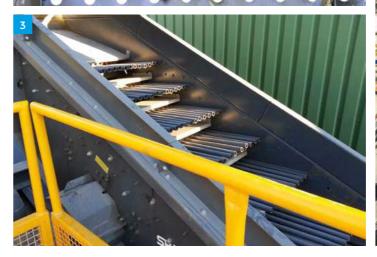
BAR SIZER

FOR THE HIGHLY EFFICIENT PRE-SCREENING OF A WIDE RANGE OF MATERIALS. MAXIMUM OUTPUT WITH ADJUSTABLE SEPARATING CUTS.









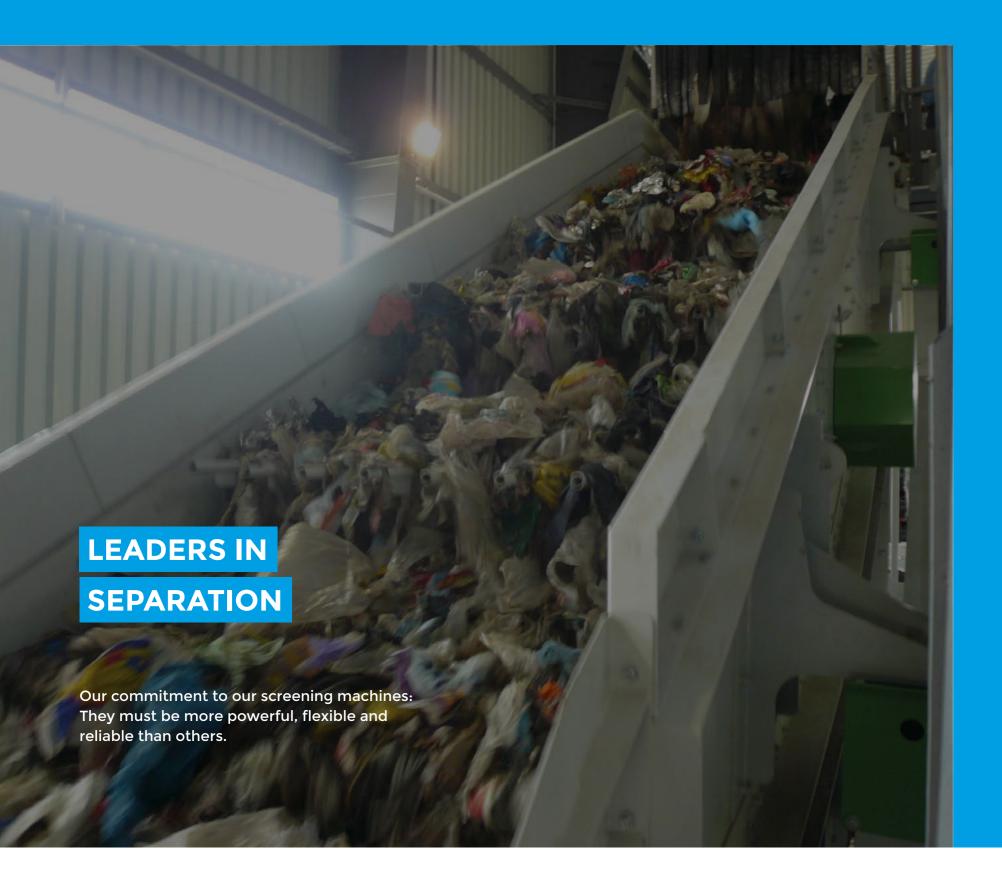


ADVANTAGES

- > Efficient pre-screening of different types of materials
- > Minimum wear due to the robust design
- > Blockage-free pre-screening through a one-sided fixing of the gate bars
- > Adaptable and adjustable separating cuts
- Variable mesh sizes

APPLICATION EXAMPLES

- 1. Pre-screening of C&D waste, separating cuts 0 - 300 mm | > 300 mm
- 2. Pre-screening ASR, separating cuts 0 - 120 mm | > 120 mm
- 3. Pre-screening of E-Scrap, screen with dynamic fingers
- 4. Pre-screening of Incinerator Bottom Ash (IBA), separating cuts 0 - 150 mm | > 150 mm





RECYCLING WASTE SCREENS

GRADING



RECYCLING WASTE SCREENS

RELIABLE. WORLDWIDE. OUR WORLD-CLASS SYSTEM FOR THE EFFICIENT SCREENING OF ALL TYPES OF RECYCLING MATERIALS. PERFECT MATERIAL FLOW AND OPTIMAL SCREENING-RESULTS.









ADVANTAGES

- > Blockage-free
 An almost blockage-free screening
 - procedure, also with differing screening-materials
- Optimal distribution
 thanks to an integrated impact-area
 Cleanest screening-fractions
- Very pure screening-fractions and the highest screening-quality

 Optimal processing
- Optimal material loosening due to the cascaded layout combined with gate bars

 > Very low-maintenance

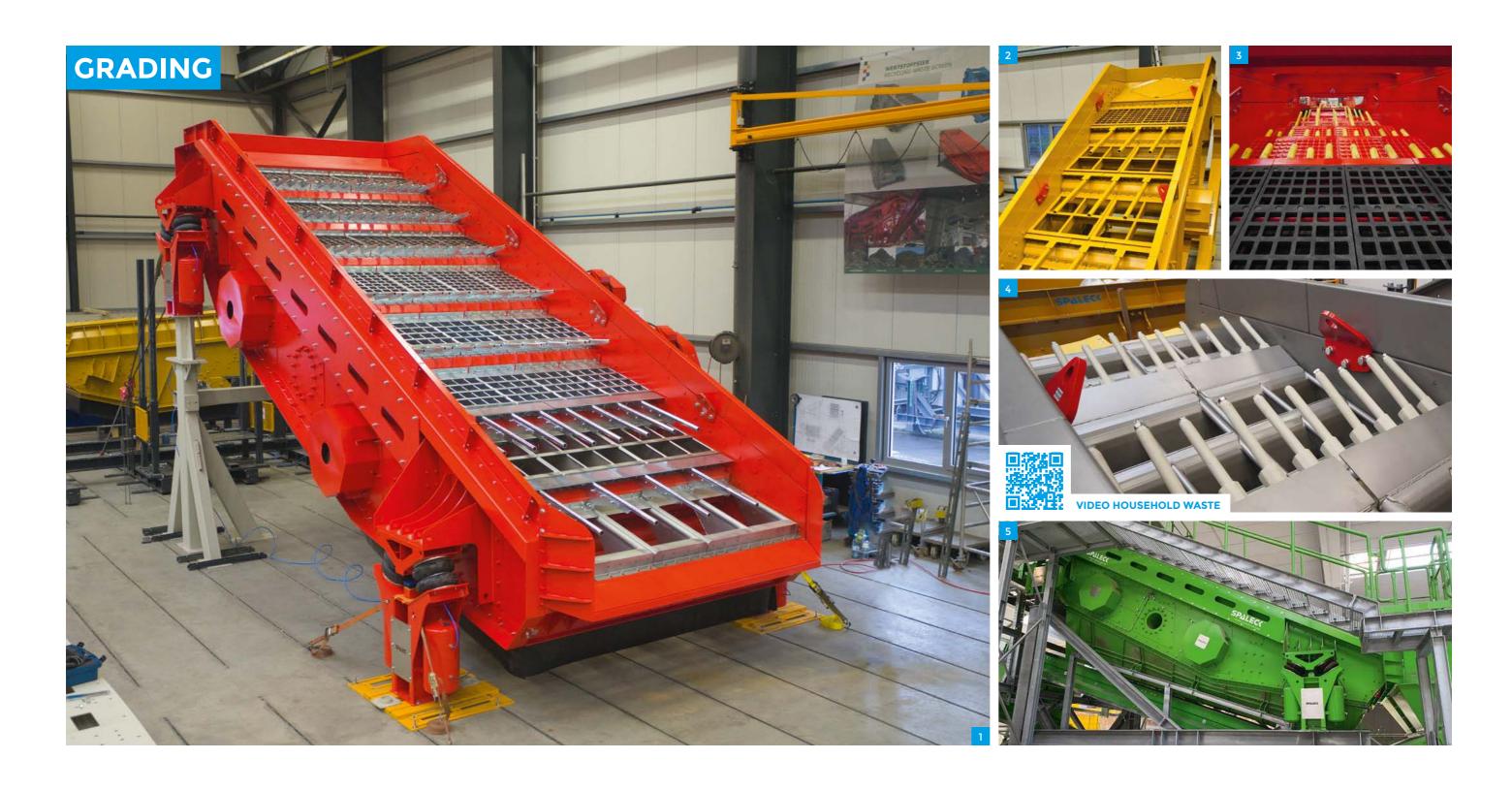
Minimum effort for cleaning with a very

- good accessibility
 High-performance
 High screening-performance because
 of a maximum possible open screen-area
- Economic operation
 Very low operating costs and maximum machine availability



APPLICATION EXAMPLES

- Screen for ASR, separating cuts 0 - 30 mm | > 30 mm
- 2. Processing of SLF
- **3.** SHF/E-Scrap, separating cuts 0 30 mm | 30 60 mm | 60 120 mm
- 4. Cover with personal protective equipment against falls



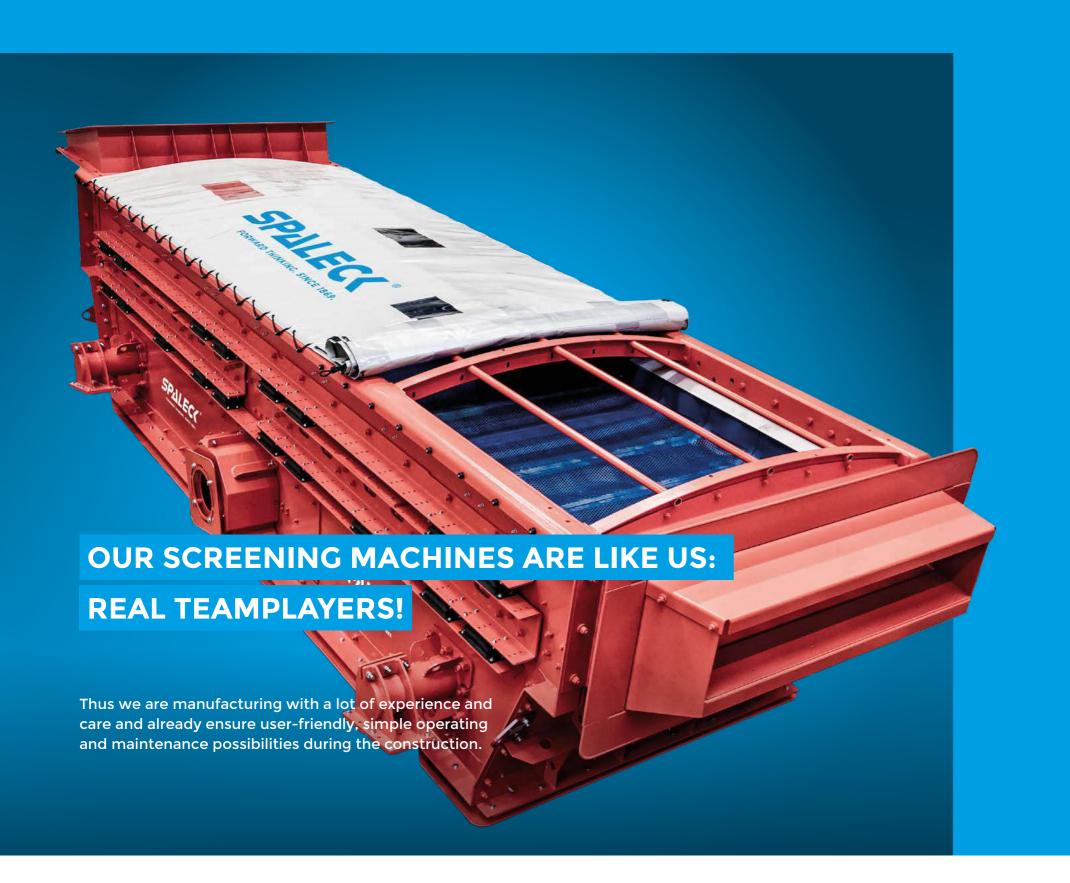


RECYCLING WASTE SCREENS

LEADING RECYCLING COMPANIES THROUGHOUT THE WORLD TRUST IN THE SPALECK RECYCLING WASTE SCREEN. THE REASON WHY? IT OFFERS YOU OPTIMAL SCREENING-QUALITY, PERFORMANCE AND RELIABILITY, WHICH PUTS YOU ON THE SAFE SIDE EVEN WITH THE MOST DIFFICULT MATERIALS.

APPLICATION EXAMPLES

- 1. MSW, separating cuts 0 60 mm | 60 250 mm | > 250 mm
- 2. Screening machine for MSW
- 3. Screen for MSW with protection technology against glass breakage
- **4.** Screening machine with special 3D-screen panel & dynamic fingers for packing material, separating cuts 0 120 mm | > 120 mm
- 5. Screening machine for C&I, separating cuts 0 80 mm | > 80 mm





FLIP-FLOW
SCREENS

> 14 **>** 15

FINE-SCREENING



FLIP-FLOW SCREENS

MOST ECONOMICAL SIZING OF DIFFICULT TO SCREEN, STICKY AND MOIST MATERIALS FOR SEPARATING CUTS FROM 0.2 TO APPROX. 50 MM



Easy adjustment of the vibration parameters to changing material characteristics



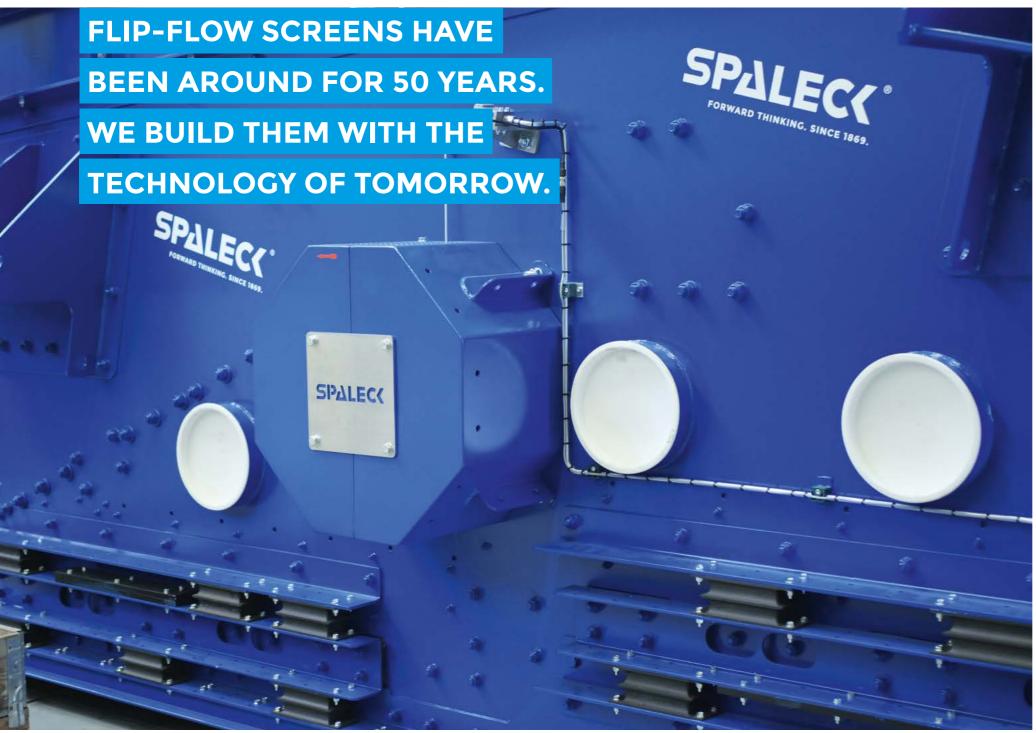






APPLICATION EXAMPLES

- C&D fine-screening, separating cuts 0 - 8 mm | > 8 mm
- 2. Incinerator bottom ash | 0 12 mm | 12 50 mm
- Screening of packing material, separating cuts 0 - 30 mm | > 30 mm
- 4. Screening of MSW (Single Stream)0 10 mm | > 10 mm





SPALECK MultiZONE DECK

with Steps and Fingers for optimal processing

SPALECK FineSideCOVER

The new SPALECK FSC technology gives you maximum flexibility. It allows you to adjust the design for the side-wall ending of your Flip-Flow screen by yourself. Depending on your requirements, you are able to achieve an increased screening-performance, because of the maximum open screen-area, or an optimal screening-quality by the trough-shaped ending.









SPALECK MultiZONE DECK

ONE SCREENING-DECK. COUNTLESS POSSIBILITIES.

SPALECK OFFERS YOU MANY SMART SOLUTIONS FOR SCREENING, SUCH AS THE SPALECK MultiZONE DECK. HERE YOU HAVE A SCREEN-DECK WITH SEVERAL SCREENING-AREAS AVAILABLE. THIS ALLOWS YOU TO SIMPLY CONTROL THE SCREENING-QUALITY AND TO FLEXIBLY ADAPT YOUR SCREEN TO THE DIFFERENT MATERIAL FLOWS.

> 18 > 19







FLIP-FLOW SCREENS

SCREENING MACHINES MUST BE RELIABLE AND POWERFUL.
WITH OUR FLIP-FLOW SCREENS YOU WILL OPTIMISE THE PROCESSING
OF YOUR MATERIAL. THE CAPABILITIES OF OUR MACHINE GUARANTEE
THE STRONG PERFORMANCE OF YOUR RECYCLING SYSTEM.

APPLICATION EXAMPLES

- 1. Fine-screening of incinerator bottom ash, separating cuts 0 8 mm | 8 30 mm | > 30 mm
- 2. Fine-screening of ASR, separating cuts 0 10 mm | 10 18 mm
 (in combination with SPALECK Waste Screen with separating cuts of 0 50 mm and 50 100 mm)
- 3. Screening of shredded plastic, separating cuts 0 15 mm | > 15 mm
- 4. Fine-screening of incineration bottom ash, separating cuts 0 2 mm | 2 6 mm





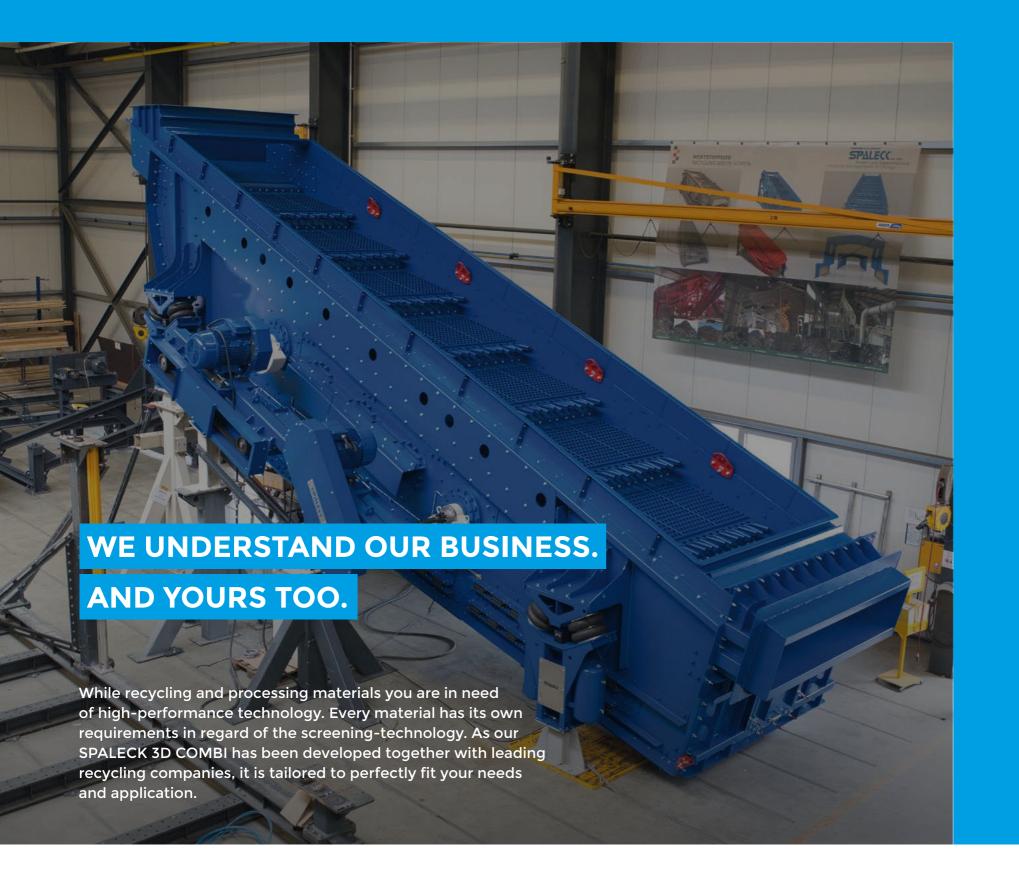
> 20 **>** 21





DEWATERING SCREENS







3D COMBI SCREENS

COMBINED VIBRATING SCREENS



3D COMBI SCREENS

WITH OUR 2-IN-1 SOLUTION YOU WILL MAKE THE RIGHT DECISION. BECAUSE YOUR NEW 3D COMBI OFFERS YOU A PERFECT SCREENING-QUALITY AND A MAXIMUM YIELD.









ADVANTAGES

> Blockage-free

Nearly blockage-free screening in the upper- and lower-deck thanks to the leading 3D and Flip-Flow technologies

> 3D screening-elements

The 3D screening-segments guarantee a pure fraction, without long pieces or extraneous materials, for the Flip-Flow system in the lower-deck

> Screwless mounted screen-mats

The Flip-Flow system with screwless mounted screen-mats avoids an unnecessary cleaning even for very difficult to screen materials

Compact design

This 2-in-1 solution allows huge potential savings for the conveying technology, the steel-supports and the space in the line

APPLICATION EXAMPLES

- 3D COMBI Screen with TwinSHAFT drive for C&D and C&I
- 2. Screening of C&D and C&I, separating cuts 0 - 10 mm | 10 - 80 mm | > 80 mm
- **3.** Screening of compost, separating cuts 0 20 mm | 20 80 mm | > 80 mm

> 28 > 29







APPLICATION EXAMPLES

- 1. 3D COMBI Screen for C&I, separating cuts 0 10 mm | 10 60 mm | > 60mm
- 2. Perfect screening up to five fractions, here C&D waste
- **3.** Efficient screening of E-Waste, separating cuts 0 10 mm | 10 30 mm | 30 60 mm | > 60 mm

> 30 > 31





3D COMBI & FLIP-FLOW COMPOST SCREENS

FOR CLEANEST SCREENING RESULTS OF ORGANIC MATERIALS SUCH AS COMPOST, SUBSTRATE, BIOMASS, MULCH AND GREEN WASTE - FREE OF LONG PARTS.

APPLICATION EXAMPLES

- 1. 3D COMBI Compost Screen for compost, separating cuts 0 10 mm | 10 80 mm | > 80 mm
- 2. 3D COMBI Compost Screen with Flip-Flow Cassettes, special coating against glass breaking & dynamic fingers for material loosening
- 3. SPALECK Compost Screen as Flip-Flow Screen with leading step design



> 32 > 33



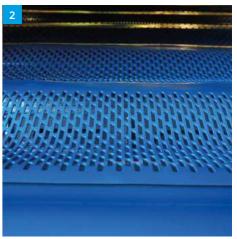


MOBILE SCREENS

MOBILE 3D COMBI FLIP-FLOW SCREEN TRACKED CHASSIS













THIS SPALECK MOBILE SCREENER IS A REAL CHAMPION THANKS TO ITS EXCELLENT SCREENING QUALITY

THE HEART OF THE MACHINE IS THE HIGH-PERFORMANCE SCREENING-BOX WITH TWO DECKS, INCLUDING THE SPALECK FLIP-FLOW TECHNOLOGY.

ADVANTAGES

The unique upper-deck design in combination with the most modern Flip-Flow technology in the lower-deck makes this tracked screener a class of its own. Due to its processing capabilities and flexible usability the machine is a unique complete mobile solution for the processing and separation of recycling materials, such as incinerator bottom ash, SLF and SHF, metal-scrap, E-scrap, C&D and C&I waste, bulky waste, compost, plastic-fractions, biomass and topsoil etc.

APPLICATION EXAMPLES

- 1. 3D upper-deck
- 2. Flip-Flow lower-deck
- 3. Screening of stones & gravel
- **4.** Screening of metal-scrap

> 36 > 37





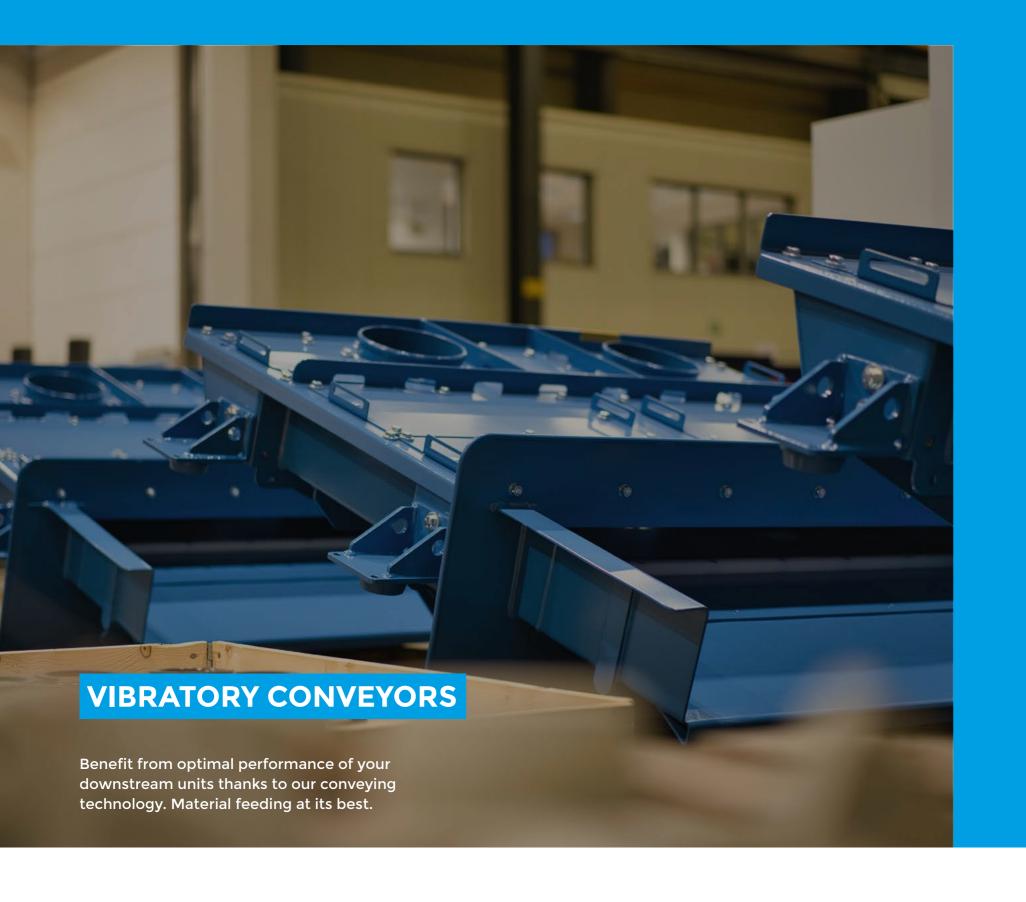
THE COMBIFLEX 3F SCREENING PLANT COMBINES MAXIMISED FLEXIBILITY WITH MAXIMISED MOBILE SCREENING CAPACITY.



ADVANTAGES

The SPALECK screen box of the NEUENHAUSER COMBIFLEX 3F combines all the advantages of mobile screening in just one machine: maximum screening capacity, the latest screening deck features, a user-friendly wheeltracked machine with countless application options even with difficult to screen materials.







VIBRATORY
CONVEYORS &
INFEED UNITS

> 42 > 43

VIBRATORY CONVEYORS





VIBRATORY CONVEYORS

FOR OPTIMAL MATERIAL FEEDING AND DISTRIBUTION.
SPALECK VIBRATORY CONVEYORS GUARANTEE A MAXIMUM
OF MATERIAL FLOW THANKS TO A TAILORED DESIGN AND THE
MATERIAL-OPTIMISED SURFACES.











ADVANTAGES

- Optimal material feed for downstream units
- Compact design for permanent operation
- Most modern drive technology for minimum maintenance needs and silent operation
- Optionally with special coatings for abrasive, cutting or caking materials
- > Processes even very difficult, sticky and clogging materials
- Minimises the cleaning effort maximises the sorting quality
- Simple to retrofit

APPLICATION EXAMPLES

- 1. Conveyor with distribution unit
- 2. SPALECK CASSETTE FEEDER for SHF
- 3. Vibrating bin discharger
- 4. Vibrating feeder with weighing system
- **5.** Partially covered version for overbelt magnets









INFEED UNITS

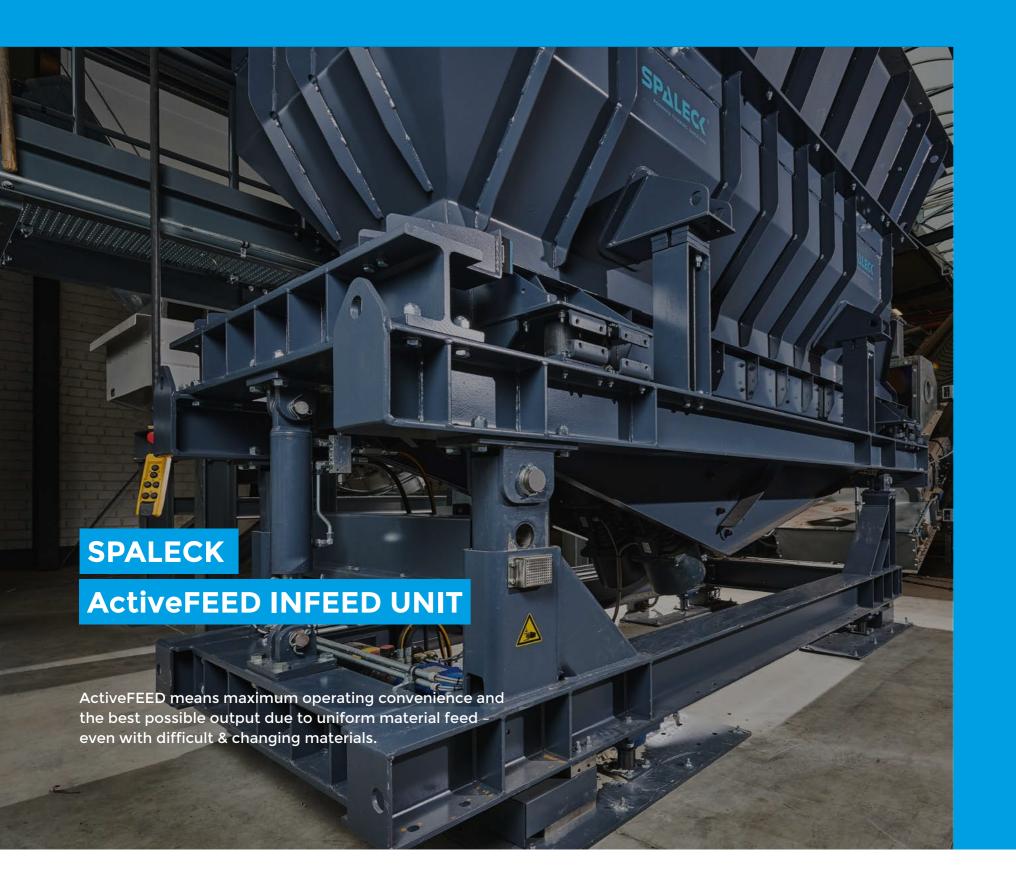
ROBUST, MORE ROBUST, SPALECK. IN ADDITION TO SCREENING QUALITY, RELIABILITY AND THROUGHPUT ARE ALSO IMPORTANT IN PROCESSING MATERIALS. THE SPALECK INFEED UNITS MAKE AN IMPORTANT CONTRIBUTION TO THIS. THEY GUARANTEE BOTH A CONTINUOUS MATERIAL FEED AND A MINIMUM REQUIREMENT OF PERSONNEL.

APPLICATION EXAMPLES

- 1. Infeed unit for SLF
- 2. Infeed unit for incinerator bottom ash
- 3. Infeed unit for E-Waste
- 4. Infeed unit for incinerator bottom ash



> 46 > 47





ActiveFEED

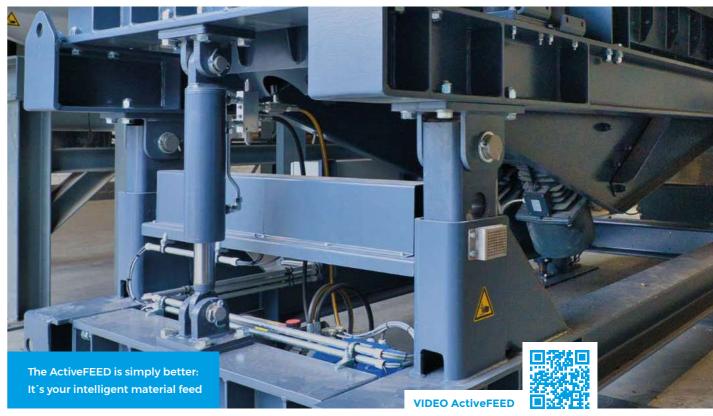
INFEED UNITS



ActiveFEED INFEED UNIT

THE UNIQUE ADVANTAGE OF THE SPALECK ACTIVEFEED:
IT INDEPENDENTLY MONITORS THE DESIRED DISCHARGE RATE AND
AUTOMATICALLY ADJUSTS THE OSCILLATION PARAMETERS OF THE
FEED HOPPER. THIS MEANS THAT EVEN WITH CHANGING FILL LEVELS
IN THE HOPPER, THE DISCHARGE RATE IS ALMOST CONSTANT.





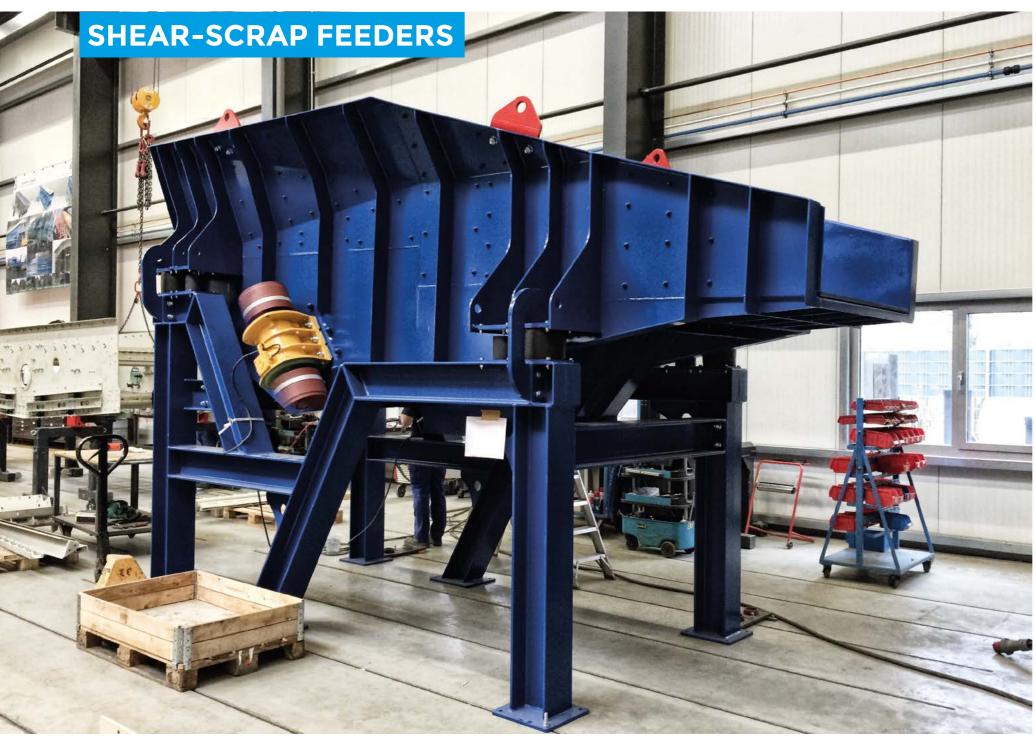




ActiveFEED ADVANTAGES & BENEFITS

- > Prevents costly over- & under-utilisation of sorting equipment
- > Eliminates time-consuming follow-up checks by employees
-) Optimises throughput on sorters due to an uniform material feed
- Available sizes: 3m³, 5m³, 8m³

> 50 > 51







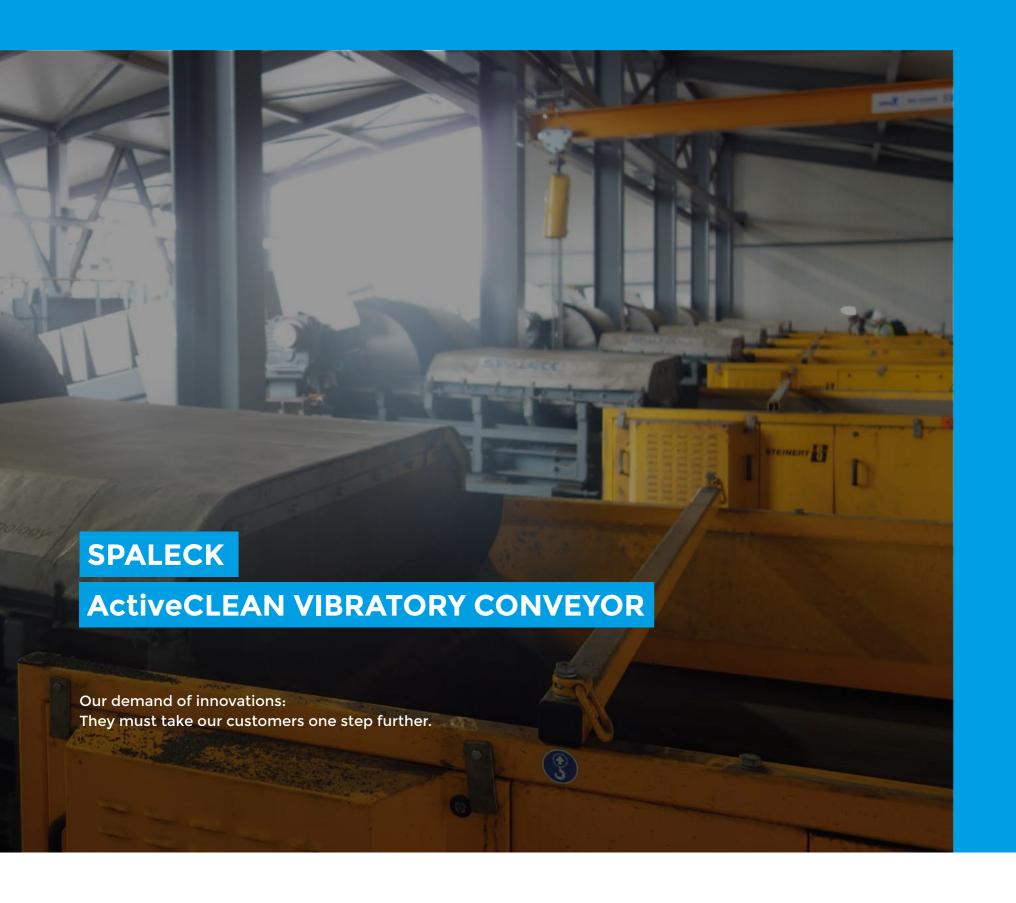
SHEAR-SCRAP FEEDERS

PERFECTLY MADE FOR HEAVY AND DEMANDING APPLICATIONS. OUR SHEAR-SCRAP FEEDERS ARE MANUFACTURED TO ACCURATELY FIT YOUR TASK. FOR EXAMPLE WITH AN ADDITIONAL CASCADE AND SCREENING-AREA TO LOOSEN THE MATERIAL AND TO SCREEN OUT IMPURITIES.

ADVANTAGES

- For high bulk densities
- In order to homogenise the feed material
- Absorption of impact energy (high unit weights)
- > Extremely robust design with integrated damping
- Optionally with integrated screen-section

> 52 **>** 53





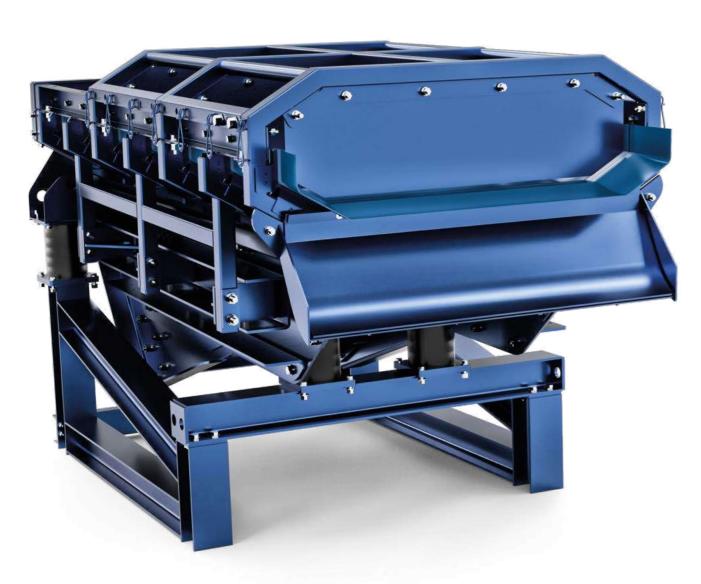
ActiveCLEAN

VIBRATORY CONVEYORS

>

ActiveCLEAN VIBRATORY CONVEYOR

SPALECK'S ACTIVECLEAN VIBRATORY FEEDER IS THE NEW BENCHMARK FOR THE PROCESSING OF WET AND STICKY MATERIALS. THE SELF-CLEANING SYSTEM DISTRIBUTES THE MATERIAL IN AN OPTIMAL WAY. ACTIVECLEAN MEANS: TO ACTIVELY PREVENT THE CAKING AND STICKING OF MATERIAL. DOWNTIME BECAUSE OF CLEANING IS COMPLETELY ELIMINATED.









ActiveCLEAN ADVANTAGES & BENEFITS

- > NO DOWNTIME due to cleaning
- > 100% material flow & clean performance
- > Payback period is usually less than 1 year
- > Retrofittable Change now!

> 56 > 57

SPECIAL MACHINERY







ModularDESIGN+

ModularDESIGN+ OUR STANDARD: THE MOST INDIVIDUAL MACHINE CONFIGURATION

Our ModularDESIGN+ principle guarantees to you the most optimal configuration of your screen and it is a child's play to adopt it in the future. Also in terms of machine monitoring and maintenance we are offering many smart solutions.



SmartSUSPENSION Air suspension

Alternatively to the shifting via screw pressure springs or rubber buffers with isolation-frame, you can choose the unique SPALECK SmartSUSPENSION air suspension. With soft start & stop function and an insulation level of up to 99%.



LubricationCONTROL

With our SPALECK LubricationCONTROL central lubrication unit the bearings of your screening-machine will always be optimally lubricated. Moreover the bearings are protected against impurities from incorrect greasing by the closed system.



FineSideCOVER

Depending on the material and application, you can choose between a flat or curved ending of screening-mats to the side-wall. This will bring you an increased screening-performance by choosing the flat design (maximum open screen-area) or an optimal screening-quality with the trough-shaped ending.



TwinSHAFT DRIVE

In regard of the material, the task and the machine-size it might be necessary to use a double-shaft drive to work. On this behalf the SPALECK TwinSHAFT concept guarantees a maximum performance for an optimal screening-process.



FLIP-FLOW CASSETTE

Your material is particularly sticky and caking? Fine! With our easily retrofitted Flip-Flow Cassette your screening layers will stay clean!



SPALECK CONNECT TECHNOLOGY

With the SPALECK CONNECT Technology you will always have the performance details of your vibratory machines in your focus. In real-time and, if desired, on your Smartphone. This ensures optimal performance and protects against machine failures.

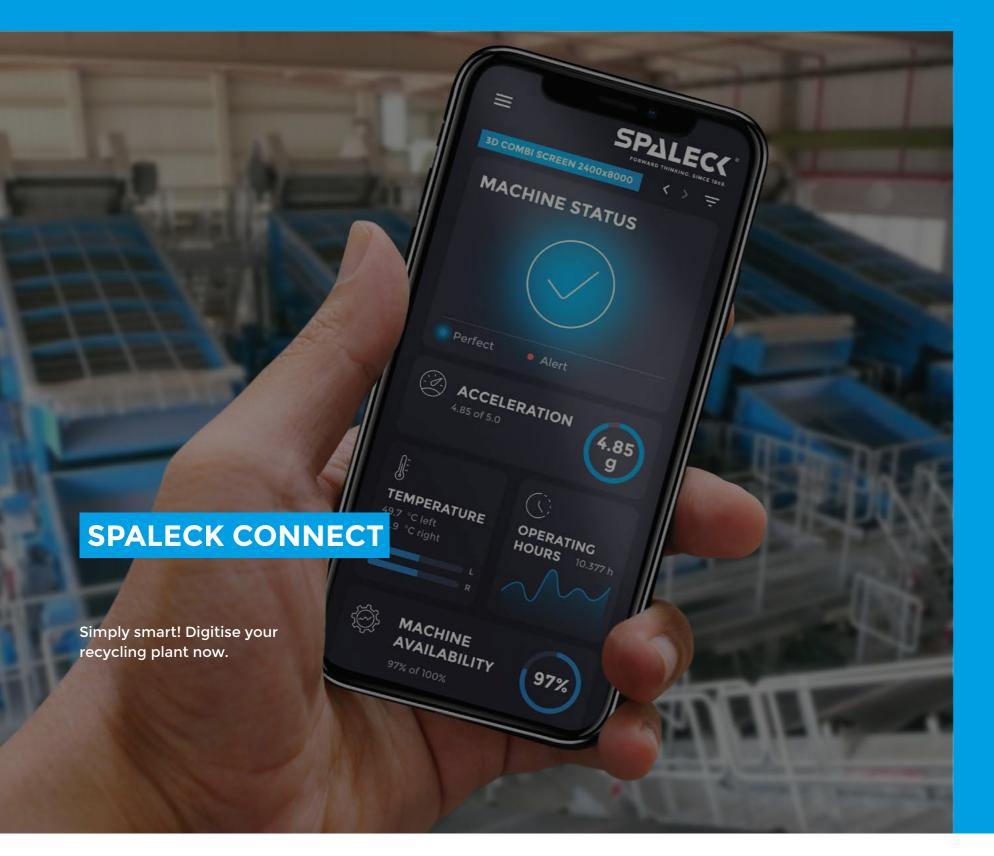


SPALECK MultiZONE DECK

The unique SPALECK MultiZONE deck offers you several screening-areas on just one deck. This enables you to simply control the screening-quality and to flexibly adopt your screen to changing material characteristics.



Modular DESIGN+





SPALECK CONNECT TECHNOLOGY

> 64 **>** 65



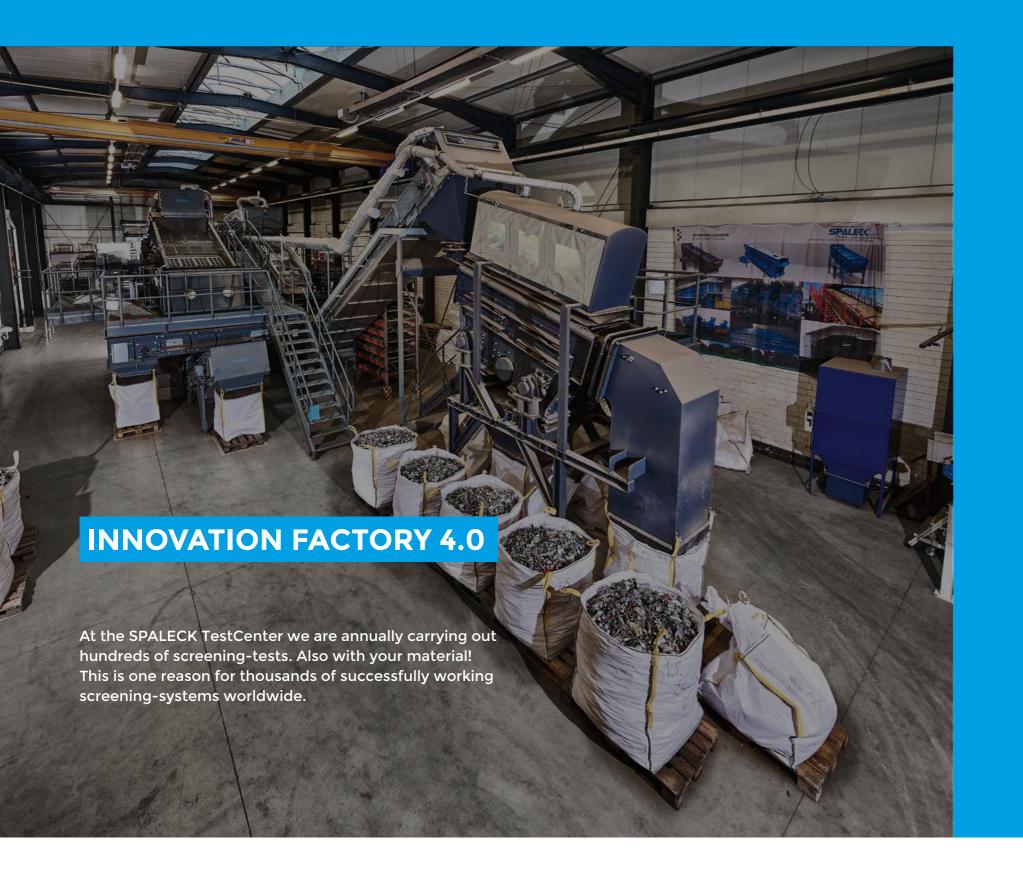




SMART ASSET MANAGEMENT, MAINTENANCE MANAGEMENT & CONDITION MONITORING OF RECYCLING TECHNOLOGY

THE SPALECK CONNECT TECHNOLOGY ENABLES YOU TO PERFORM DATA-BASED MAINTENANCE PLANNING AND OPTIMISATION OF PLANT AVAILABILITY. FOR THIS PURPOSE, YOU RECIEVE YOUR PERSONAL ACCESS TO THE SPALECK CONNECT PLATFORM. WITH OUR IIOT SOLUTION (INDUSTRIAL INTERNET OF THINGS) YOU HAVE AN OPTIMAL OVERVIEW OF YOUR PLANTS.

ADVANTAGES & BENEFITS THE SPALECK CONNECT TECHNOLOGY Easy machine monitoring, maintenance & service High protection against unplanned machine breakdowns Economic operation of the plant Integration of your recycling plant (depending on plan) LIVE-DEMO We would be pleased to present you the SPALECK CONNECT system in our TestCenter, online via video call or directly at your company. Please contact us.





MY SPALECK TESTCENTER



TEST IT NOW!





IT'S SO EASY

- 1 Send us your screening-material.
- 2. We are screening it together.
- **3.** You will profit from the optimum screening-result!

100 % BESPOKE

Thanks to your screening-test in the SPALECK TestCenter, you will already know during the planning stage, that your projected recycling plant is optimally functioning. This will give you a maximum security for your investment. A good decision!



BLACK ON WHITE

Your test-results. Clean documentation included. Why are we so committed to your screening-test? Because we want you to achieve the optimum in screening. For the environment and for your operating result. The detailed documentation of your screening-test provides you with a maximum security, transparency and predictability.

SPALECK screening machine in

your company beforehand? You

are welcome to use our test-units, whether stationary or mobile, for this purpose. With SPALECK you will

achieve the best screening-results.

In addition to our TestCenter in Bocholt and the screening-tests on-site, we also have our TestCenter in the USA available.













