SIMATEC

SCREENING MACHINES

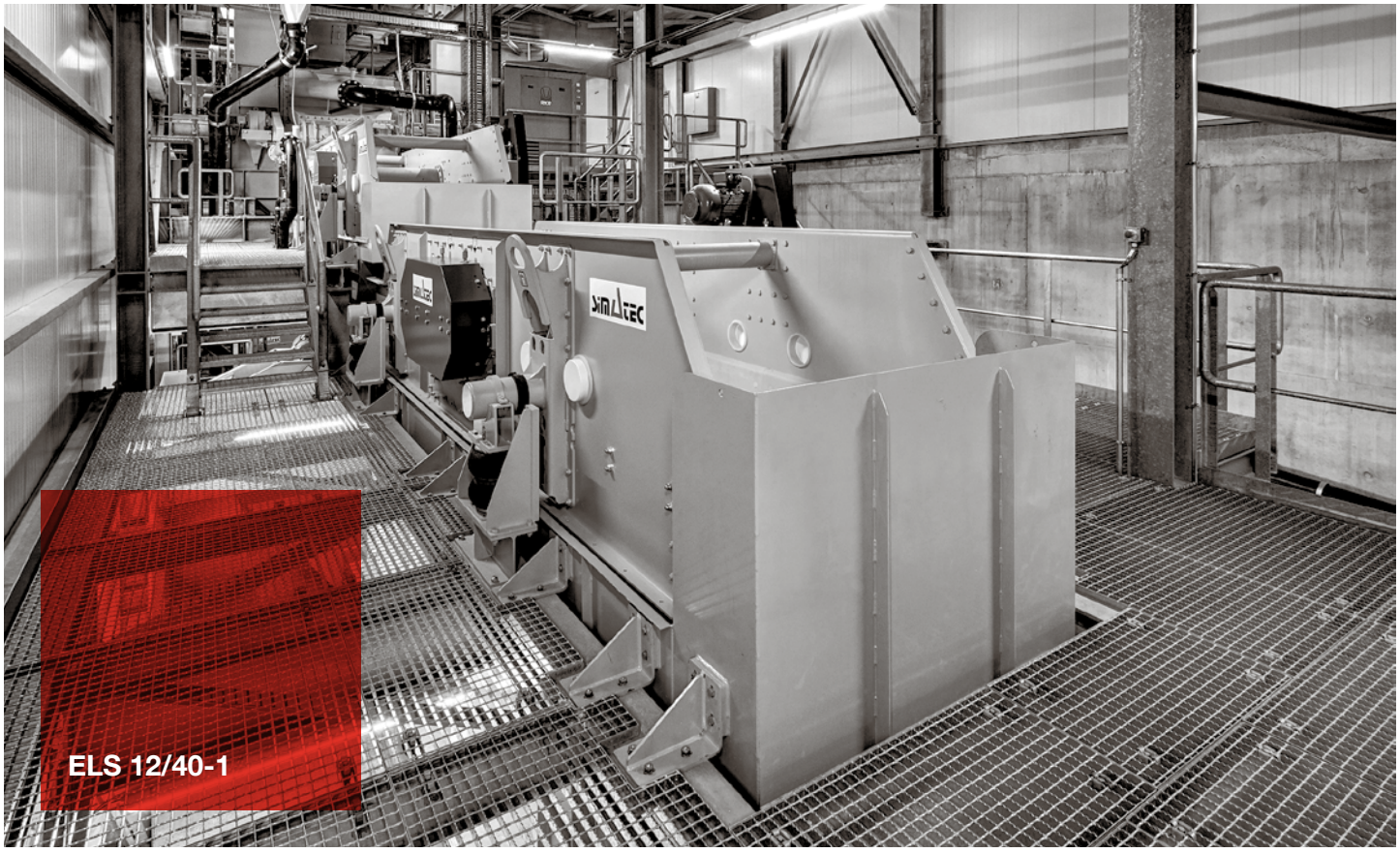
ELLIPSE SCREENING MACHINE

The innovation for maximum screening performance

The ellipse screening machine makes even more out of raw material and is characterised by having good screen quality and a sharp mesh cut. The oscillation parameters of this well-tried ellipse technology can be set independently of each other. It is used in both wet and dry screening. The mesh cuts are preferably in the fine or medium grain segment. A simple and well-organised design also simplifies maintenance and cleaning work on the screening machine.

Description	Screening deck size		
Type	Width (mm)	Length (mm)	Screen area (m²)
ELS 12/40	1 200	4 000	4.8
ELS 12/50	1 200	5 000	6
ELS 15/50	1 500	5 000	7.5
ELS 15/60	1 500	6 000	9
ELS 18/50	1 800	5 000	9
ELS 18/60	1 800	6 000	10.8
ELS 21/50	2 100	5 000	10.5
ELS 21/60	2 100	6 000	12.6
ELS 24/60	2 400	6 000	14.4

Other dimensions and screen sizes on request



THE RIGHT OSCILLATING SYSTEM FOR EVERY TASK AND EVERY USE CASE

1-DECK, 2-DECK, 2.5-DECK AND 3-DECK VERSIONS

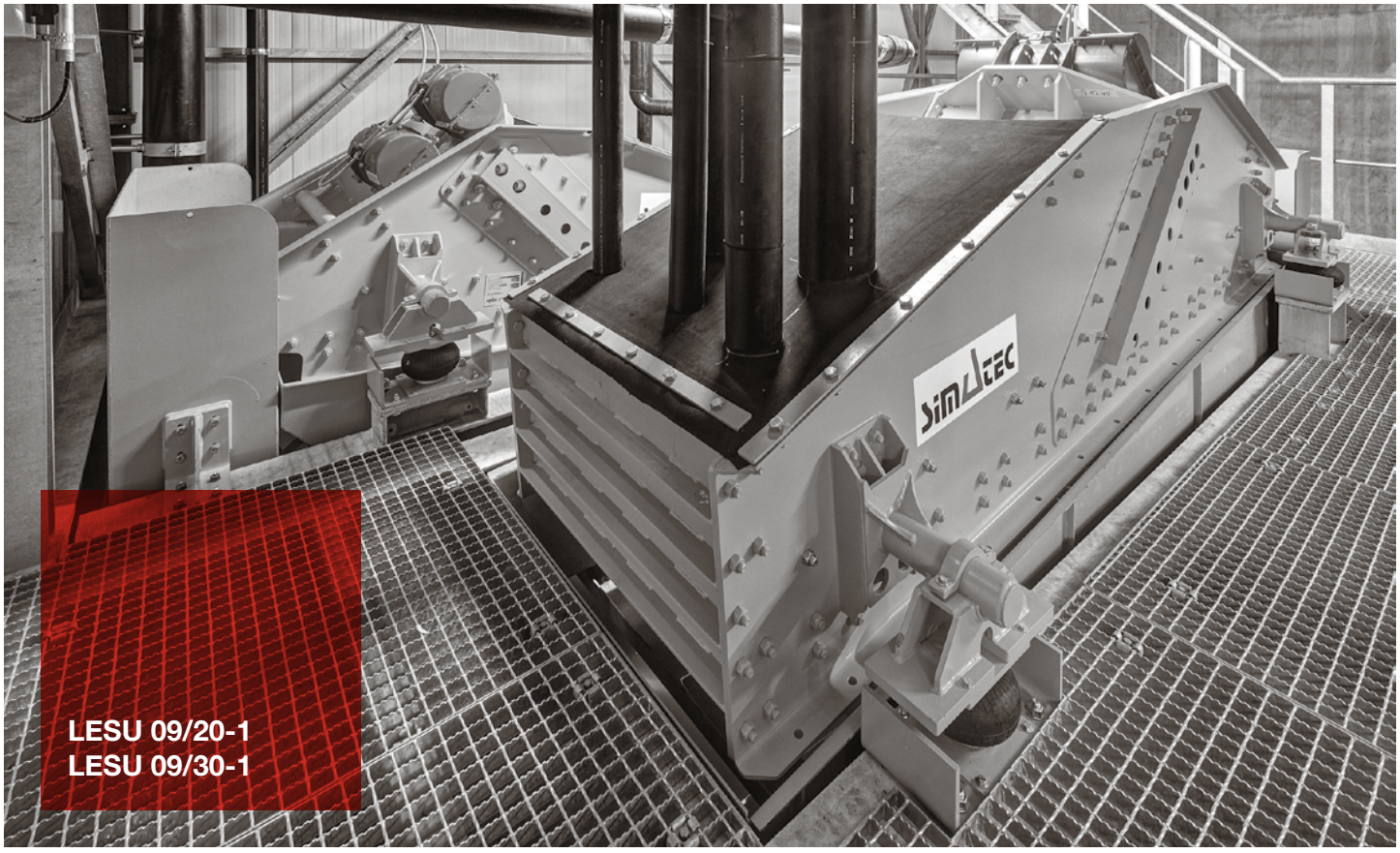
LINEAR SCREENING MACHINE

Efficient post-washing and dewatering

Simatec linear screening machines are very suitable for post-washing and dewatering processes. For classic dewatering, these are used as single-deck screening machines with a rising deck and rear wall dewatering windows. Side dewatering windows are optionally available as an additional dewatering stage. Post washing can be enhanced with efficient sprinkling. The two-deck screening machines are suitable for gravel or mixed gravel and sand dewatering. When this takes place, the upper deck is used as a protective deck or for coarse grain classification.

Description	Screening deck size		
Type	Width (mm)	Length (mm)	Screen area (m²)
LESU 09/20	900	2 000	1.8
LESU 09/30	900	3 000	2.7
LESU 12/30	1 200	3 000	3.6
LESU 12/40	1 200	4 000	4.8
LESU 15/40	1 500	4 000	6
LESU 15/50	1 500	5 000	7.5
LESU 18/50	1 800	5 000	9
LESU 21/60	2 100	6 000	12.6
LESU 24/60	2 400	6 000	14.4

Other dimensions and screen sizes on request



LESU 09/20-1
LESU 09/30-1

THE AIR SUSPENSION PROTECTS THE STEEL STRUCTURE, THE SCREENING MACHINE AND YOUR WALLET

400 MM PU IMPACT DECK FOR CAREFUL MATERIAL ADDITION AND DISTRIBUTION

CIRCUIT OSCILLATOR

The classic for dry and wet screening

Simatec circuit oscillators are widely used as pre-separators or discharge screens at the beginning of the process engineering process. They can also be found in classic dry and wet screening for classifying medium to coarse grained bulk materials. The circular movement, from which the circuit oscillator gets its name, combined with an optimum screen incline of 10° to 20° gives the material the necessary momentum and reduces the risk of clogged particles considerably.

Description	Screening deck size		
Type	Width (mm)	Length (mm)	Screen area (m^2)
KRS 12/40	1 200	4 000	4.8
KRS 12/50	1 200	5 000	6
KRS 15/50	1 500	5 000	7.5
KRS 15/60	1 500	6 000	9
KRS 18/50	1 800	5 000	9
KRS 18/60	1 800	6 000	10.8
KRS 21/50	2 100	5 000	10.5
KRS 21/60	2 100	6 000	12.6
KRS 24/60	2 400	6 000	14.4

Other dimensions and screen sizes on request

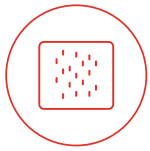
STANDARD PU WEAR PROTECTION AT CROSSMEMBERS AND SHAFT PROTECTION PIPES

OPTIMUM OSCILLATION AMPLITUDE BY MEANS OF FINE OR COARSE GRAIN OSCILLATION PARAMETER COORDINATION

OPTIONS

Sprinkling

Water is put onto one or more screen decks to remove unwanted constituents such as extremely fine particles or organic foreign substances. The addition of water also makes it easier to classify materials which are difficult to sieve. Simatec sprinklers are designed in a procedural way depending on the task. They consist of a stable steel frame that is separate from the screening machine, a distribution pipe and the relevant number of sprinkler pipes and fan nozzles.



Dust protection

Dust in the surrounding air is hazardous to health. It also increases the amount of wear and corrosion on machinery and systems. A dust encapsulation system is normally used with dry screening systems. There are two types of dust encapsulation – resonant and stationary.

The resonant dust encapsulation consists of partially domed covers, a lightweight frame and thin, tensioned rubber cloths. This simpler design is not usually connected to a dust extraction system.

The stationary version consists of a robust steel frame which is detached from the screening machine. The partially rubber and sheet metal covers are fitted to this. The sheet metal covers have connecting pieces to which the suction lines of the dust extraction system are connected. The major advantage of stationary dust encapsulation compared to the resonant version is that no resonant additional weight affects the screening machine.

Electronic DC braking device

This system makes low-wear and reliable braking of the screening machine possible. Maintenance costs are reduced and the service life of the screening machine is increased by using DC brakes. Integrated stop detection also makes it possible to reduce stop times and increases the operational safety of the machines and therefore the entire system.

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