

Linear Vibrating Screen

DU 3.0x6.1 SD Ba, DU 3.0x6.1 DD Ba



thyssenkrupp



Advanced design for economic operation

Proven quality – great flexibility – cost effectively

thyssenkrupp banana screens classify according the principle of thin layer screening. They are designed to handle high throughputs with high separation efficiencies. They meet versatile requirements like dry and wet screening and dewatering of bulk materials such as hard rock, limestone, gravel, coal, ore, sand and salt. The constant infinitely variable stroke and the vibration isolation frame to decrease forces acting on the foundation are only two of interesting key features.

Features

Screen tray

- Bolted design without any welding at the side walls ensures maximum fatigue strength

Screen decks

- Blind deck in the feed zone to compensate impact loads
- Clamping arrangement for the screen cloths
- Perforated plates, polyurethane panels or woven wire available

Wear protection

- Replaceable liners on screen side walls and frame cross members
- Replaceable panels at the feed area, back plate and discharge lip

Adjustability

- Constant infinitely variable stroke

Optional vibration isolation frame

- Vibration isolation frame for reduction of dynamic loads during the operation of the screening machine
- Mitigation of dynamic loads by steel springs

Optional electric brake

- Electric brake for fast passing through the resonance ranges after deactivating the screen drive

Optional dedusting hood or spraying system

Drive system

- Double out-of-balance drive with shafts on which adjustable unbalance discs operate in opposite directions to achieve a straight-lined oscillation path
- Intermediate gear including V-belt drive, V-belt guard, motor base plate and squirrel cage motor
- Universal joint shaft including coupling for connecting the main shaft with the intermediate shaft

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Technical Specification

General data

Materials:	Hard rock, limestone, ore, coal etc.
Maximum feed size:	up to 300 mm edge length, depending on feed material, cut size and type of screen covering

Screen

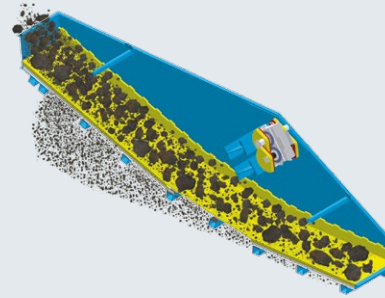
Type of screen:	Linear vibrating screen
Screen execution:	Banana type
Screen area dimension (a x b):	3.0 m x 6.1 m
Screen area (per deck):	18.3 m ²
Screen trough length	– single deck: 7.0 m – double deck: 7.2 m
No. of decks:	1 or 2
Inclinations:	25° / 15° / 5°
Number and size of exciter	– single deck: 2 x 3 – double deck: 2 x 4
Main dimensions (l x w x h)	– single deck: 6,930 mm x 3,980 mm x 3,300 mm – double deck: 7,160 mm x 3,980 mm x 3,750 mm
Main dimensions (L x W x H)*	– single deck: 7,030 mm x 4,040 mm x 4,130 mm – double deck: 7,260 mm x 4,040 mm x 4,580 mm
Total weight	– single deck: up to 14 mt – double deck: up to 21 mt
Total weight*	– single deck: up to 21 mt – double deck: up to 30 mt

Drive

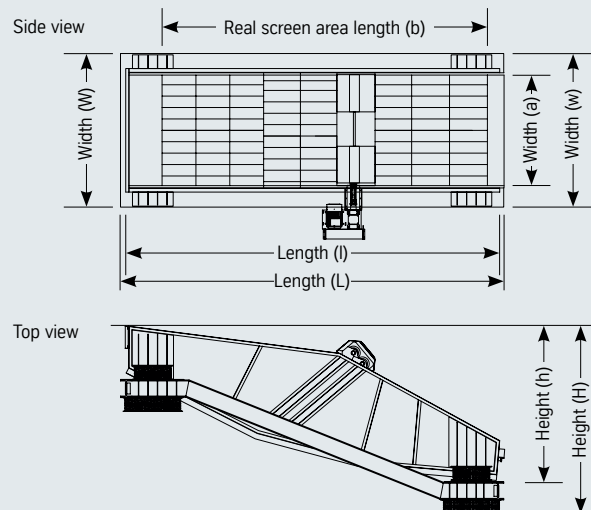
Drive concept:	V-belt
Motor power	– single deck: up to 45 kW – double deck: up to 75 kW

*Main dimensions and total weight with vibration isolation frame

Working principle



Main dimensions



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