Some sand box filling methods are rather out-dated and dusty.

KLEIN sand filling systems offer dust-free handling.

KLEIN Anlagenbau AG
Dust-free filling of brake sand

The ergonomically designed filling valve with sealing cone, which distinguishes itself by easy handling, ensures a dust-free connection to the sand box and is almost universally applicable.

The sand filling process is smooth. In order to prevent sand from being spilled outside the sand box, the filling valve is equipped with a segmental lock. Thanks to the special design of the vent connection, only dust is extracted but no sand.

With the filling valve inserted into the sand box and the sanding system switched on, the sand flow automatically stops when the filling level of the sand box is reached - much like filling your gas tank at the filling station. KLEIN also supplies filling spouts.

Dust Disposal - Sand Storage - Sand Transport

For health reasons it is recommended to dispose of lung piercing silica dust at only one point of the sanding plant. The automatic air return system carries the dust from the individual filling valves to a central filter by means of a special injector system. Here, the dust can be disposed of without harming the environment.

The sizes of the sand storage silos are customized according to specific customer requirements.

A pneumatic pressure vessel conveyor automatically supplies the sanding stations with brake sand from the storage silo via the pneumatic conveying pipe. The gentle plug-flow conveyance preserves the grain structure of the sand and prevents the generation of dust.

Sanding stations

KLEIN sanding systems are suitable for installation inside maintenance halls or at outdoors maintenance sites. According to the specific requirements at site, they can either be mounted as suspended or stationary units.

The conveying pipe, which is continuously filled with sand, automatically supplies the sanding stations with brake sand after each sanding process so that a re-filled sanding station is available prior to the next sanding process. Each sanding station is equipped with either one or two sanding hoses with filling nozzle. Combined with arrestable balancers, the sanding hoses can be handled even more easily. In off-position the sanding hoses are pulled upwards by the balancers into a parking position.
KLEIN sanding systems for the environmentally friendly supply of rail vehicles with brake sand enjoy a good reputation all over the world.

The experienced KLEIN team has the skill and knowledge to offer support and advice from the planning of your maintenance facilities over the individual design of the corresponding sand boxes and their filling opening respectively to extensive service and maintenance of the systems. Take advantage of our more than 30 years of experience.

More than 500 KLEIN sanding systems all over the world are proof of our professional skills. Challenge us!

Here are some of our references:

Deutsche Bundesbahn
Stuttgarter Straßenbahn
Berliner Verkehrsbetriebe
Stadtwerke Augsburg
Mannheimer Verkehrs-AG
Erfurter Verkehrsbetriebe AG
Stadtwerke München
Stadtwerke Bonn
Bremer Straßenbahn AG
Duisburger Verkehrsgesellschaft
Hallesche Verkehrs-AG
Kölner Verkehrsbetriebe
Stadtwerke Bielefeld
Kasseler Verkehrsbetriebe
Leipziger Verkehrsbetriebe
Tuen Mun Honkong
Verkehrsbetriebe Bern
Santa Clara County Transp., San José, USA
West nederland, Nieuwegen-Utrecht
Metro Leger de Tunis, Tunesien
A.T.M., Turin
Edmonton Transit, Alberta, Canada
R.E.T. - Metro Rotterdam
Mass Transport. Admin., Baltimore, USA
Uganda Railways Corp.
Transport publics genevois, Genf
City of Calgary, Alberta, Canada
Stadtwerke Graz
Wiener Stadtwerke Verkehrsbetriebe

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