

Made in
Germany

Spezialmaschinen
Stehr



Complete Product Listing



**Innovative specialized machinery for
road construction and earth working**

Stehr - Special Machinery Fit for the Future

Founded by Jürgen Stehr in 1983, we are a dynamic mechanical engineering company with a highly motivated staff of men and women dedicated to designing and producing the finest in specialized machinery for road construction and earth working. Stehr machinery is built from hands-on experience for hands-on use and is patented in Germany and various other parts of the world. The design of our machinery focuses on an improved workflow that not only lets our products make better use of the available energy, but also reduces harmful emissions at the same time. We solve tomorrow's problems today - faster than others - because we don't create solutions that create problems down the road. This explains why we were the first company in Germany to tackle the issue of treating, re-using and recycling excavated soil and what makes us the only one today that offers end-to-end solutions. Our plant, located in the center of Germany some 100 kilometers north of the Frankfurt Airport, supplies our machinery to customers the world over. We invite you to visit our one-of-a-kind 30,000 m² field testing grounds and demonstration facility to see for yourself the kind of superior performance our equipment delivers.

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Index

Push-Off Trailer SAW	4 - 5
Plate Compactors for Excavators	6 - 5
Towed Grader SG	8 - 7
Scraper Attachment SASK	10 - 11
Bonding Agent Spreader SBS	12 - 13
Soil Stabilisation dustfree	14 - 15
Soil Stabilisation SBF	16 - 17
Gravel Road Finisher GRF	18 - 19
Manhole Cutter SKF	20 - 21
Dozer Blade SPS	22 - 23
Plate Compactors SBV	24 - 25
Plate Compactors on Road Roller	26 - 27
Recycler / Mixer Bucket SR	28 - 29
Pipe Trench Compactor	30 - 31
Quick change coupling SSK for hydraulic hoses	32 - 33
Compaction Wheel SVR	34 - 35

Technical specifications subject to change without notice. 3/2009.



Technische Daten

Typ	SAW 14
Net Weight	9700 kg
Total Weight (highway code rating) (40 km/h version)	21 tons
Total Off-Road Weight	32 tons
Travel Speed	up to 40 km/h
Hydraulically Adjustable Drawbar	
Hydraulically Operated Rear Gate	
Tow Ball or Towing Eye	

This trailer's low center of gravity provides significantly better stability out in the field than a dump truck. Now the material no longer gets stuck in the trough, but is discharged completely instead. Its overall height of less than 3190 mm even lets you unload it within low buildings. Special attention was given during the design phase to the fact that it will be mostly used in harsh construction conditions away from public roads and highways. This is why a low net weight is not as important as the ability to haul a large payload. Its remarkably sturdy construction allows a working load of approximately 22 tons, not to mention a 32-ton axle assembly. The push plate is guided by ball-bearing-mounted steel rollers in a precision U-shaped frame like the rails used on forklifts, and moved by a double-action telescopic cylinder. The trough-like design with the exterior dimensions of 3.45 x 2.24 x 1.26 m can hold more than 12,6 m³ of material. The floor and side walls are made of 8 mm Hardox 400.

Plate Compactors for Excavators



Benefits

Exerting impact forces of 30 to 120 kN at a frequency of 60 Hz, Stehr attachable compactors have a specially shaped base plate, with no complicated rotary motor or oil line, enabling them to be placed in any position from wherever the carrying vehicle is stationed.

- ✪ The hexagonal base lets the compactor be positioned anywhere
- ✪ Optimum compaction
- ✪ No extra hydraulic circuit needed on the digger for the rotary drive
- ✪ No complicated rotary motor or oil line
- ✪ SBV 60 plate compactor attachment: Newly designed system especially for use on mini excavators
- ✪ The double-shaft vibration gear produces oscillations directed 100 % vertically downward, which means almost none of the vibration is passed on to the carrier vehicle (only SBV 60).
- ✪ The same is valid for SBV 120 HF plate compactor attachment, however with a four-shaft-vibration gear and the double compaction output.

Technical Data

Type	SBV 120 HF	SBV 60 HF
Impact force	120 kN	60 kN
Frequency	60 Hz	60 Hz
Oil required	65 l/min.	39 l/min.
Pressure	210 bar	180 bar
Base plate width	1000 mm *	850 mm
Weight	764 kg	295 kg
Carrying vehicle	from 7.5 tons**	from 2.5 - 14 to.

* optional quick-change plate

** Head plate: Krupp hole pattern no. 6

Towed Grader SG



Benefits

- * Grade both quickly and flawlessly
- * Gooseneck main frame for large volumes of material
- * Hydraulically foldable blade for road transport
- * Horizontally adjustable blade

Technical Data

Type	SG 300	SG 400L
Power Requirement	90 HP or above	120 HP or above
Working Width	3,00 m	4,00 m
Blade Height	0,90 m	0,90 m
Transport Width	2,45 m	2,45 m
Length with Single Axle	4,10 m	4,10 m
Length with Double Axle	5,00 m	5,00 m
Weight	1.600 kg	2.350 kg

Type	SG 400	SG 500
Power Requirement	160 HP or above	200 HP or above
Working Width	4,00 m	5,00 m
Blade Height	1,10 m	1,10 m
Transport Width	2,45 m	2,45 m
Length with Single Axle	5,80 m	5,80 m
Length with Double Axle	6,20 m	6,20 m
Weight	3.170 kg	3.300 kg



Benefits

The Stehr-Scraper attachment loosens the material, loads it, transports it and works it in all by itself. The material can even be graded using a laser control mechanism. A hydraulic discharge mechanism pushes the material out in front of the dozer blade, where it is immediately worked/graded into the surface. It only takes about 10 seconds to discharge and finish working the material. Such efficiency eliminates all that unproductive downtime with its related high operator wages and material book costs.

- ✪ Carrying, Compacting, Transporting Uploading, Filling, Grading
- ✪ Loosens the material, loads it, transports it and works it in all by itself
- ✪ There's no work stoppage

Technical Data

Type	SASK 9
Volume	ca. 8,5 m ³ liquid measure
Width	3000 mm
Weight	7,1 tons
Towing Power	mind. 250 HP
Tires	4 × 445 / 65 × 22,5

Bonding Agent Spreader SBS



Features - all models

- * hydraulically driven rotary vane feeder, exact adjustable spreading quantity

Features - SBS 10

- * filling process: filling cover (0,8 x 0,8 m) from free-standing silo, worm conveyor or big bag
- * fill level check: optical with electronic sensors (full/empty)
- * dust filter (option): cleans in-blown air during filling process, filter is easy to clean and service
- * air-brake system

Technical Data

Type	SBS 10	SBS 3000 Front-mounted spreader
Bonding Agent Capacity	10 m ³	3 m ³
Weight	3.670 kg	890 kg with plane 1.030 kg with steelroof
Dimensions	W: 2.665 mm H: 3.190 mm L: 4.775 mm	W: 2.600 mm H: 1.750 mm L: 1.740 mm
Spread Width	2.400 mm / 1.200 mm hydraulically reduceable	2.400 mm / 1.200 mm mechanically reduceable
Prime Mover	ab 130 PS	-
Wheels	600/55 × 22,5 16 PR	-

Soil Stabilisation dustfree



Combining Stehr-SBF 24 Soil Stabilisation Grinder with SBS Binding Agent Spreader solves one of the biggest problems in soil stabilisation by letting you apply additives and grind the soil without producing a lot of dust. This no-dust adding and mixing of bonding agents with the soil in one single machine can also save you a lot of money. Now you don't have the added expense of having to use a separate spreader vehicle. And your machinery and the surrounding objects and areas won't be dirtied since the additives are inserted directly into the mixing chamber itself.

Benefits

- ✪ Hydraulically driven rotary vane feeder
- ✪ Filling Process
 - Filling cover (0,8 x 0,8 m), worm conveyor or big bag
 - Blow-in device with shut-off valve for silo vehicles
- ✪ Fill level check (optical) with electronic sensors
- ✪ Option: computer-controlled spreading quantity regulation, independently of the driving speed

Technical Data

Type	SBF 24-6
Weight	9.110 kg
Grinding Depth	400 mm max.
Grinding Width	2400 mm
Spread Width	2.400mm, hydraulically reduceable to 1.200 mm
Bonding Agent Capacity	6,0 m ³
Tractor	230 HP or larger

Soil Stabilisation SBF



Stehr- Soil stabilisation mixers were designed to be used with tractors to provide a complete and economical alternative to self-propelled equipment. Towed attachment mixers offer a wide range of advantages:

- ✪ Significantly lower investment outlays (tractor and grinder)
- ✪ Tractor is available for other jobs
- ✪ Less fuel costs
- ✪ Avoids unwanted compaction caused by driving over the processed material
- ✪ 600 mm mixing depth with a cutting width of 2400 mm

Technical Data

Type	SBF 22 L	SBF 24 L	SBF 24
Grinding Width	2.200 mm	2.400 mm	2.400 mm
Grinding Depth max.	400 mm	400 mm	600 mm
Weight	2.220 kg	2.550 kg	4.670 kg
Drive	PTO	PTO	PTO
PTO Output	1.000 rpm	1.000 rpm	1.000 rpm
Power Requirement	125 kW/ 170 HP	147 kW/ 200 HP	170 kW/ 230 HP or larger

Gravel Road Finisher GRF



Stehr-System for Maintaining Gravel Roads

The Gravel Road Finisher is mounted on the front and back of tractors, wheeled loaders, Unimogs and similar carriers. The rear-mounted system consists of a mixing apparatus with an attached shaping device or built-in screed. As the vehicle moves in its normal direction of travel, the roadway material is loosened, mixed and shaped. The built-in screed is designed so that every familiar roadway cross-section or profile can be formed in only one pass of the system.

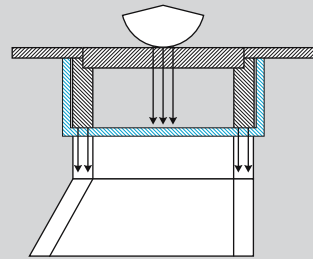
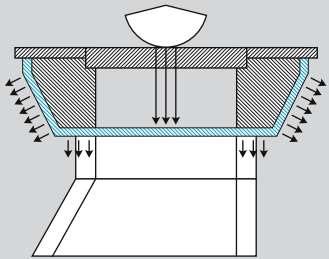
Benefits

- ✦ System to restore streets and roads with water-bound surfaces as rapidly as possible and with a minimum of expense and effort
- ✦ The dimensions of the Stehr-Gravel Road Finisher have been engineered to allow a road of 3 meters in width to be built and restored in three steps:
 - Push organic material (vegetation, humus etc.) from the center of the road outward onto the embankments
 - Loosen, mix and camber
 - Then compact; the latter is accomplished using plate compactors mounted on the front (Stehr Plate Compactor SBV 60 H 4)

Technische Daten

Type	GRF
Working width	3600 mm
Transport width	3000 mm
Carrying vehicle	min. 200 HP
Weight	3280 kg
Stehr-Plate Compactor SBV 60 H 4	
Working width	3000 mm
Frequency	60Hz
Oil required / Pressure	100 l / 200 bar
Centrifugal force	4 x 60 KN

Manhole Cutter SKF



System Stehr / conical

conventional System

The Stehr SKF 950 manhole cutter is the only attachment system that successfully met all the rigorous demands of a long-term test that was funded by the state of North Rhine-Westphalia and conducted by the respected IKT Institute for Underground Infrastructure in Gelsenkirchen. Several large German cities including Düsseldorf and Munich now require that manhole restorations be performed according to the Stehr system. The restoration system patented Europe-wide consisting of a conical grinder head and the Budaplan tapered shaft sleeve from Buderus not only guarantees a long service life, but is the only one that delivers what it promises: Sinking and settling are as good as ruled out. Among its many fields of application are new road construction and restoration work using self-leveling shaft frames.

Technical Data

Type	SKF 950
Weight	890 kg with cutter head Ø 885 mm
Oil flow	100 l/min (max. 240 l/min)
Pressure	210 bar
Torque	12.000 Nm max.
Cutting Depth	300 mm
Diameter of Cutter	up to 1.420 mm
Oil Bleed pressure	max. 1 bar
Cutter Heads available	from 400 up to 1.420 mm

Benefits

- ★ Professional tool for use in surface repaving and repair, new road construction, restoration of embedded assemblies
- ★ Grinding time is about two minutes per shaft
- ★ More Flexible start-up time
- ★ A long useful life and lower costs for replacing the cutter tools
- ★ For use on: wheeled excavators, compact loaders, truck loader cranes, Unimog, wheeled loaders



Benefits

- ✪ For earthmoving and grading, also useable as counter-weight
- ✪ Horizontal Adjustment (2 x 20°)
- ✪ Cutter-Blade is replaceable
- ✪ It can be mounted and removed in seconds using the quick-coupler mounting frame

Technical Data

Type	SPS 3000
Weight	2.800 kg
Width	3.000 mm
Tractor	230 HP or larger

Frame with quick-coupling

A frame with a quick-coupling assembly has been developed that lets you rapidly attach and detach front add-on equipment such as binding-agent spreaders, dozer blades and scarifiers right from within the cab of the vehicle. Now you can switch out front attachments in seconds. The frame even directs the enormous thrust that arises when using the 6-way dozer blade under the rear axle.

The dozer blade is designed to supplement, not replace a bulldozer. How often have you encountered areas at construction sites where grading work needs to be done? Now you can save all the money involved in having a bulldozer driven back and forth on a lowboy.

Plate Compactors SBV



Benefits

Stehr-Compactions systems offer great flexibility in use and are adaptable to solve any number of challenging compaction tasks. Stehr's comprehensive program offers hydraulically driven vibrating plate compactors as single, double or triple-plate assemblies that can be easily attached to various utility vehicles. Since the Stehr Plate Compactors have no drive capability of their own, they are either pulled or pushed by these prime movers. This means that the force produced by the unit's two counteracting eccentric shafts is concentrated 100 % vertically and is dedicated entirely to the job of compaction. This in turn results in a significantly greater level of compaction performance than can be delivered by conventional plate compactors.

Technical Data

Type	SBV 55 H2	SBV 55 H3	SBV 55 H3C
Weight			
Operating Weight (kg)	820	1315	1235
Width			
Operating Width (mm)	1725	2600	2120
Drive			
Hydraulic Motor	Cog Wheel*	Cog Wheel*	Cog Wheel*
Absorption Capacity (ccm)	2 x 19	3 x 19	3 x 19
Carrier vehicle requirements			
Pump Delivery Rate (l/min)	67	67	67
Min. Operating Pressure (bar)	180	180	180
Operational Characteristics			
Laterally Adjustable R/L (mm)	-	-	700 possible
Adjustable Vibration System			
Frequency (Hz)	40 - 60	40 - 60	40 - 60
Amplitude (mm)	2,12	2,12	2,12
Centrifugal Force (kN)	2 x 60	3 x 60	3 x 60

Type	SBV 55 H1S	SBV 55 H4
Weight		
Operating Weight (kg)	685	1890
Width		
Operating Width (mm)	850	3000
Drive		
Hydraulic Motor	Cog Wheel*	Cog Wheel*
Absorption Capacity (ccm)	1 x 19	2 x 14
Carrier vehicle requirements		
Pump Delivery Rate (l/min)	67	67
Min. Operating Pressure (bar)	180	210
Operational Characteristics		
Laterally Adjustable R/L (mm)	900	-
Adjustable Vibration System		
Frequency (Hz)	40 - 60	40 - 60
Amplitude (mm)	2,12	2,12
Centrifugal Force (kN)	1 x 60	4 x 60

* Hydraulic motor connected in series

Plate Compactors on Road Roller



Stehr has developed a vibrating plate compactor for attachment to road rollers. Thanks to its combined roller and plate configuration, it puts several complex steps together into one machine and does them all in one single run. Stehr plate compactors achieved absolutely amazing results when employed at the construction sites of several wellknown companies. Tests made by earthworks laboratories have proven its excellence. EV2 values of over 100 MN/m² were often attained in only on run!

Benefits

- ✦ A completely vertical compaction line using two counteraction eccentric shafts, this means that the force is applied 100 % vertically into the ground
- ✦ The roller operates at low frequency and high amplitude (30 Hz), while the plate compactors work at high frequency (60 Hz) and low amplitude

Technical Data

Type	SBV 55 H3C
Weight	
Operating Weight (kg)	1235
Width	
Operating Width (mm)	2120
Drive	
Hydraulic Motor	Cog Wheel *
Absorption Capacity (ccm)	3 x 19
Carrier vehicle requirements	
Pump Delivery Rate (l/min)	67
Min. Operating Pressure (bar)	180
Operational Characteristics	
Laterally Adjustable R/L (mm)	700 possible
Adjustable Vibration System	
Frequency (Hz)	40 - 60 (variable)
Amplitude (mm)	2,12
Centrifugal Force (kN)	3 x 60

* Hydraulic motor connected in series

Recycler / Mixer Bucket SR



For adding binding agents, mixing, crushing, sifting and for refining and processing construction waste and rubble.

Benefits

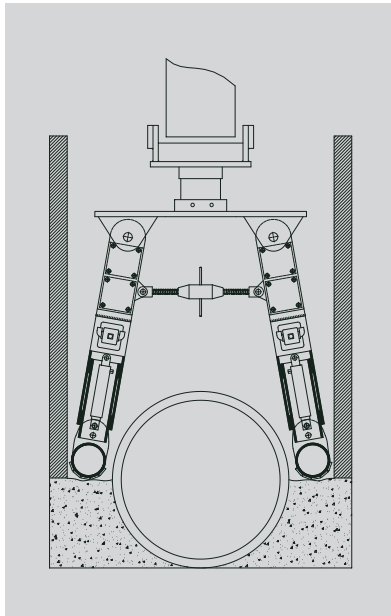
- ✪ Improves the earth through the addition of binding agents such as lime or cement
- ✪ Mechanically enhances soil quality by working in crushed construction waste, rubble and manufactured sand to the standards set forth in the Supplementary Technical Regulations for Earthworking and Road Construction (ZTVE 12.2)
- ✪ Recovers and crushes construction debris and a wide range of other materials
- ✪ Thoroughly mixes, blends and sifts loose earth being stored on waste heaps or in dumps

Technical Data

Type	SR 15	SR 12
Weight	2.400 kg	1.650 kg
Power Rating	105 kW at 210 ltr./min/300 bar	105 kW at 210 ltr./min/300 bar
Rotor Diameter	650 mm	650 mm
Rotor Speed	180 rpm variable	180 rpm variable
Volume	1,5 m ³	1,2 m ³
Width	1.200 mm	1.200 mm
Prime Mover	21-ton or larger excavators	17-ton or larger excavators
Hydraulics	210 l/min/300 bar	210 l/min/300 bar
Action	Hammer and shear controls	Hammer and shear controls

Head plate: Krupp hole pattern no. 6

Pipe Trench Compactor



Technische Daten

Typ	SBV 30 d
Overall Height	2080 mm
Base Plate Width	220 mm *
Impact Force	30 kN
Frequency	60 Hz.
Power	12 kW.
Oil Flow	40 L/180 bar
Länge der Grundplatte	700 mm

* making it the plate compactor with the narrowest base plate on the market

The Stehr pipe trench compactor was engineered to handle those tough compaction challenges often encountered in canalization projects and to meet the standards set forth by German canal and wastewater industry associations, such as the Güteschutz Kanalbau quality assurance organization. This equipment replaces hard manual labor with easy, hand-operated compaction devices in problem areas like those hard-to-reach spaces along the lower half of embedded pipes. Never before has there been a compactor attachment for excavators that allows you to set the compaction force and thereby eliminate any chance of damaging the pipe. Gone are the days when equipment operators had to simply estimate how much pressure the excavator arm needed to apply to the compactor. This new Stehr invention redefines the state of the art. All you do is simply position this add-on compactor onto the area to be compacted. Activating the hydraulic circuit for the exciter gear causes a hydraulic cylinder to exert a previously set, consistent pressure on the plate compactor, without the equipment operator having to guide it. And, a hydraulic rotating motor lets you put the compactor anywhere you need it.



Benefits

- ✪ All coupled up within 3 seconds
- ✪ Secure, fast, effortless and simple

Technical Data

Type	SSK 004	SSK 003
Flow Rate	up to 400 l/min	up to 150 l/min
Pressure	320 bar	300 bar
Back Pressure	at 300 l/min = 3,5 bar	at 100 l/min = 4,5 bar
Connection	Inside thread 1 ¼" BSP	Inside thread ¾" BSP

Type	SSK 002
Flow Rate	up to 60 l/min
Pressure	300 bar
Back Pressure	at 60 l/min = 3,5 bar
Connection	Inside thread ½" BSP

Compaction Wheel SVR



Benefits

- ✪ Economical and fast compaction at lifts ranging to 1.000 mm
- ✪ Up to five-times-better compaction performance and quality than plate compactors and trench rollers
- ✪ Easier to compact canalization ditches and problem areas such as embankments and backfills
- ✪ Safer, because it keeps workers out of the trench during operations
- ✪ Often eliminates the need to replace soils
- ✪ No vibration
- ✪ No malfunction of electronic equipment (computers, etc.)
- ✪ Suitably for cohesive soils

Technische Daten

Type	SVR 15 MB	SVR 25 MB	SVR 28
Rollers	with com- paction feet	with com- paction feet	with com- paction feet
Height to Mounting Plate	655 mm	655 mm	1.070 mm
Overall Wheel Diameter	610 mm	610 mm	920 mm
Overall Wheel Width	150 mm	250 mm	280 mm
Carrier Vehicle	1.5 - 5 tons	1.5 - 7 tons	6 - 14 tons
Number of Rims	1	1	1
Weight	ca. 145 kg	ca. 185 kg	ca. 500 kg
Line Pressure	up to 200 kg/ cm ² mounted on 1,5-ton excavator	up to 480 kg/ cm ² mounted on 4-ton excavator	up to 300 kg/ cm ² mounted on 14-ton excavator

Type	SVR 40	SVR 60 HD	SVR 60 CW40
Rollers	with com- paction feet	with com- paction feet	with com- paction feet
Height to Mounting Plate	1.070 mm	1.070 mm	1.070 mm
Overall Wheel Diameter	920 mm	920 mm	920 mm
Overall Wheel Width	400 mm	570 mm	570 mm
Carrier Vehicle	6 - 16 tons	12 - 50 tons	12 - 50 tons
Number of Rims	1	2	2
Weight	ca. 550 kg	ca. 850 kg	ca. 1040 kg
Line Pressure	up to 259 kg/ cm ² mounted on 16-ton excavator	up to 262 kg/ cm ² mounted on 25-ton excavator	up to 262 kg/ cm ² mounted on 25-ton excavator

Type	SVR 80 HD
Rollers	with com- paction feet
Height to Mounting Plate	1.070 mm
Overall Wheel Diameter	920 mm
Overall Wheel Width	770 mm
Carrier Vehicle	18 - 50 tons
Number of Rims	2
Weight	ca. 940 kg
Line Pressure	up to 198 kg/ cm ² mounted on 25-ton excavator

* Compare these figures with other compaction equipment!