Arrangement of Screening Discs on Shafts

The discs are arranged in a spiral on the shafts, so not all discs are fully engaged at any one time. This makes the machine easier to start with heavy or wet soils and materials.



Maintenance-free bearings and drives

The chains and bearings are sealed, while being permanently lubricated with liquid grease.

Shock Valve

In the event of the shafts becoming blocked, the shock valve causes the hydraulic oil on the pressure side to run back. This prevents damage and premature wear to the bearings and the drives.

Hydraulic Motors

In all our separators we use Parker hydraulic motors, one of the most renowned manufacturers in the world. Up to the Compactline series, motors are used that do not require a leakage connection, for which Parker holds a patent. In the Powerline series we use radial piston motors which start with the first drop of oil (Full torque of the 2400 Nm - motor.) From the TSP184 onwards. two of these motors are installed.

Safe Transport

Intregrated eyelets faciliate easy and safe transporting of the buckets.

Patented Shaft Coupling

Allows easy and therefore guick removal and replacement of the shafts. No bearings or chains have to be disassembled in the process.

Arrangement of the shafts

The shafts are arranged at an angle of 15° to each other. This creates a circular motion which causes the material to rotate for maximum output.

Mixing shafts

For breaking up and crushing slightly brittle materials.

Sieve

Different separation distances for the requirements of different jobs.

Excavator and wheel loader can be combined

All separators can be combined with all excavators and wheeled loaders.



SHAFTS - TOOLS AND DISCS

The tools and discs on the shafts are deliberately made of HX 500 material, as plastics cannot be welded on. Optionally, welding on the wear zones can be carried out on the HX 500 discs, we use armour wire to achieve a surface hardness of 62 HRC. In this way, the tooldiscs are best protected against wear, therefor they can rotate powerfully in both directions, which is essential for machining cohesive material. The possibility of welding on the tooldiscs reduces the operating costs, as there is no need to immediately replace the discs or shafts when they start to wear.

Mixing Shafts

For mixing, screening and aerating soils, also used for crushing slightly brittle materials. High throughput even with wet materials.



Star Discs

For screening and backfilling of pipes and sewer trenches where high throughput is required, especially with wet and cohesive soil.



Penta Discs

For fine screening of freeflowing material and dry soil. With this disc, the material is less crushed.



Also suitable for screening stony material such as crushed stone, gravel, basalt, etc.

... combine your requirements with our experience!

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For mixing and crushing, or aerating the materials. suitable for compost and liquid soil. High throughput even with wet materials.

Cross Discs

Suitable for tearing up swards and crushing clay, peat, compost, etc.



Terra-Star® manufactured from a workbench in Germany



Separator-Technology

- 1. Process soil yourself
- Save landfill costs 2.
- 3. Maximise your profits









Scan Me Demo Videos on YouTube.

INNOVATING SHAFT COUPLING

Our patented shaft coupling makes it quick and easy to remove and replace the shafts. No bearings or chains need to be disassembled. You can convert the Terra-Star shafts at any time - without great effort. The conversion of the shafts takes between 30 to 120 minutes, depending on the machine size and number of shafts that need to be changed

Maximum throughput and productivity in each class is a guarantee

The number of shafts and the placement of the shafts on the Terra-Star range plays a major role in throughput. The more shafts in a row, the larger the machining area and the more space there is for the material to move and loosen up. In combination with the arc-shaped arrangement of the shafts in the Terra-Star, a material-turning rotary movement is created. The waste, free of soil, is pushed to the top and even in the wettest of conditions, the process is effective.

Terra-Star today is an investment for the future

The Terra-Star range offers the widest choice of shafts and tools for separators on the market, no matter what or how you want to process your material. Screening, separating, mixing, breaking up soil, construction waste, biowaste, compost, biomass, etc., we will quickly find the right separator and "the perfect shaft" together with you. Should the task change in the course of time, with the Terra-Star you have a separator that you can use any time.





Terra-Star[®] Ecoline

Designed for gardening and landscaping, or where only small construction machines can be used. By screening out stones or foreign material and separating the soil from rocks, sod and roots, you can significantly reduce your transport and landfill costs. By mixing in sand, compost, substrate or other additives, you can improve the soil quality yourself, promptly and directly on the construction site. The Ecoline range offers the widest choice of separators on the market, with five models of excavators from 1.6 to approx 12 tons. Here, the excavators are very sensitive to attachments that are too large and it is often uneconomical to work with attachments that are too small. With our wide range of separators, you will quickly find the right attachment for your machine. All our separators can be equally equipped with excavator and wheel loader adapters and can therefore be used on the construction site or in storage yards without having to change the Head Brackets.

Terra-Star[®] Greenline

From the original 2-shaft machines, we have constructed a 1.2-metre-wide 3-shaft machine, which can therefore offer enormous throughput. As a result, it is possible to process up to 38 m³ per hour and more with a 10 t excavator. Due to the well thought-out, light and yet stable construction, we have a separator in our program that is also used on 17 t excavators, for example. The TSG.123 is not only interesting because of its performance data, but also because of its price. A comparatively small investment enables you to process soil on site and save a lot of money on transport and landfill costs. We currently have the TSG.152 in our range as a 2-shaft screening bucket, which is used, for example, on tractors with less oil. The TSG series can be fitted equally to excavators and wheel loaders.

No leakage connection necessary

No leakage connection necessary

																					5		
	TSE.053	TSE.054	TSE.074	TSE.083	TSE.103		TSG.123	TSG.152		TSC.104	TSC.153	TSC.154	TSC.183	TSC.184		TSP.124	TSP.125	TSP.153	TSP.154	TSP.155	TSP.184	TSP.224	
Excavator/ Loader Weight	Excavator from 1.6 t Loader from 1.8 t	Excavator from 2.2 t Loader from 2 t	Excavator from 3 t Loader from 2.2 t	Excavator from 4 t Loader from 3.5 t	Excavator from 6 t Loader from 4 t	Excavator/ Loader Weight	Excavator from 9 t Loader from 6.5 t	Excavator from 7 t Loader from 5 t	Excavator/ Loader Weight	Excavator from 11 t Loader from 8 t	Excavator from 11 t Loader from 8 t	Excavator from 14 t Loader from 10 t	Excavator from 14 t Loader from 10 t	Excavator from 16 t Loader from 12 t	Excavator/ Loader Weight	Excavator from 18 t Loader from 10 t	Excavator from 20 t Loader from 12 t	Excavator from 23 t Loader from 12 t	Excavator from 24 t Loader from 13 t	Excavator from 26 t Loader from 14 t	Excavator from 32 t Loader from 17 t	Excavator from 38 t Loader from 18 t	Excavator/ Loader Weight
Cutting Width	500 mm	500 mm	700 mm	800 mm	1000 mm	Cutting Width	1200 mm	1500 mm	CuttinWidth	1000 mm	1500 mm	1500 mm	1800 mm	1800 mm	Cutting Width	1200 mm	1200 mm	1500 mm	1500 mm	1500 mm	1800 mm	2200 mm	Cutting Width
No. of Shafts	3	4	4	3	3	No. of Shafts	3	2	No. of Shafts	4	3	4	3	4	No. of Shafts	4	5	3	4	5	4	4	No. of Shafts
Content	0,12 m ³	0,15 m ³	0,20 m ³	0,30 m ³	0,45 m ³	Content	0,70 m ³	0,55 m ³	Content	0,85 m ³	0,95 m ³	1,25 m ³	1,20 m ³	1,50 m ³	Content	1,50 m ³	1,90 m ³	1,55 m ³	1,85 m ³	2,25 m ³	2,20 m ³	3,00 m ³	Content
Throughput	5 - 7 m³/Std.	6 - 8 m³/Std.	7 - 10 m³/Std.	10,5 - 15 m³/Std.	16 - 23 m³/Std.	Throughput	25 - 38 m³/Std.	19 - 29 m³/Std.	Throughput	30 - 45 m³/Std.	34 - 50 m³/Std.	44 - 65 m ³ /Std.	43 - 62 m ³ /Std.	52 - 77 m ³ /Std.	Throughput	52 - 77 m ³ /Std.	67 - 96 m³/Std.	55 - 78 m³/Std.	64 - 95 m³/Std.	80 - 122 m ³ /Std.	78 - 120 m³/Std.	100 - 160 m³/Std.	Throughput
Inner Dimensions	Height 450 mm Width 500 mm Depth 500 mm	Height 570 mm Width 500 mm Depth 500 mm	Height 570 mm Width 700 mm Depth 500 mm	Height 650 mm Width 800 mm Depth 750 mm	Height 650 mm Width 1000 mm Depth 750 mm	Inner Dimensions	Height 730 mm Width 1200 mm Depth 800 mm	Height 540 mm Width 1500 mm Depth 680 mm	Inner Dimensions	Height 880 mm Width 1000 mm Depth 930 mm	Height 730 mm Width 1500 mm Depth 870 mm	Height 880 mm Width 1500 mm Depth 930 mm	Height 730 mm Width 1800 mm Depth 870 mm	Height 880 mm Width 1800 mm Depth 930 mm	Inner Dimensions	Height 950 mm Width 1200 mm Depth 1270 mm	Height 1150 mm Width 1200 mm Depth 1320 mm	Height 790 mm Width 1500 mm Depth 1230 mm	Height 950 mm Width 1500 mm Depth 1270 mm	Height 1150 mm Width 1500 mm Depth 1320 mm	Height 950 mm Width 1800 mm Depth 1270 mm	Height 950 mm Width 2200 mm Depth 1340 mm	Inner Dimensions
Sieve Area	0.25 m ²	0.30 m ²	0.40 m ²	0.40 m ²	0.60 m ²	Sieve Area	0.80 m ²	0.75 m ²	Sieve Area	0.85 m ²	1.00 m ²	1.30 m ²	1.25 m ²	1.50 m ²	Sieve Area	1.10 m ²	1.40 m ²	1.20 m ²	1.40 m ²	1.70 m ²	1.75 m ²	2.40 m ²	Sieve Area
Weight with 15mm Scree- ning Shafts without adaptor	200 kg	250 kg	290 kg	400 kg	600 kg	Weight with 15mm Scree- ning Shafts without adaptor	905 kg	740 kg	Weight with 15mm Scree- ning Shafts without adaptor	1200 kg	1200 kg	1450 kg	1500 kg	1600 kg	Weight with 15mm Screening Shafts without adaptor	1850 kg	2050 kg	2100 kg	2300 kg	2500 kg	3100 kg	4100 kg	Weight with 15mm Scree- ning Shafts without adaptor
Working Pressure	170 - 190 bar	170 - 190 bar	170 - 190 bar	200 - 250 bar	200 - 250 bar	Working Pressure	200 - 250 bar	200 - 250 bar	Working Pressure	200 - 260 bar	Working Pressure	280 - 300 bar	280 - 300 bar	280 - 300 bar	280 - 300 bar	280 - 300 bar	280 - 300 bar	280 - 300 bar	Working Pressure				
Oil Requirement	30 - 40 l/min	30 - 40 l/min	30 - 40 l/min	50 - 60 l/min	50 - 60 l/min	Oil Requirement	90 - 120 l/min	75 - 85 l/min	Oil Requirement	150 - 180 l/min	Oil Requirement	150 - 200 l/min	150 - 200 l/min	150 - 200 l/min	150 - 200 l/min	150 - 200 l/min	200 - 280 l/min	200 - 280 l/min	Oil Requirement				
Pressure Max	200 bar	200 bar	200 bar	280 bar	280 bar	Pressure Max	280 bar	280 bar	Pressure Max	290 bar	Pressure Max	320 bar	320 bar	320 bar	320 bar	320 bar	320 bar	320 bar	Pressure Max				



Terra-Star[®] Compactline

The TSC.154 always leaves customers in amazement on construction sites as they realise what a high throughput that can be achieved with a 15 t excavator. The TSC.154 only needs between 20 and 30 seconds for a content of 1.25 m³ to be screened. With 50 fillings, this results in well over 60 m³ per hour. The possibility to change the shafts quickly and easily makes the Terra-Star Compactline series unique in the market, especially for customers with different tasks on ever-changing construction sites. The TSC is an excellent machine for use in liquid soil production, soil improvement for mixing in lime or other aggregates, and even for excavating heavily stony soil. Due to the sturdy housing of all TSC separators, attaching it to excavators well over 20 t is no problem. The maintenance-free bearings and chain boxes are filled with liquid grease, in which the drive chains run. Attachment to excavators and wheel loaders is also possible in combination and can be refitted at a later stage if required.

No leakage connection necessary

* All technical data and performance values given by us are based on empirical values determined by us and may deviate in special circumstances.

Terra-Star[®] Powerline

The Powerline is designed for tough continuous operation on construction sites, storage yards or landfills. The radial piston motor produces 2400 Nm of torque from a standing start and thus enables an enormously strong start-up of the shafts, even under the toughest conditions. From the TSP.184, two of these motors are installed, which ensures that the TSP.184 can push through a volume of 2.2 m³ in 20-30 seconds. In order not to let these great forces go completely unchecked, a shock valve is connected to protect the bearings and the chains. The bearings are maintenance-free and there is liquid grease in the chain boxes which provides lubrication at every point due to the movement of the bucket and the running of the chains. This means that the Terra-Star does not need to be re-lubricated and is maintenance-free. All Screening, mixing, breaking up, and crushing shafts can also be used with the Powerline range, and the shafts can also be installed without any problems. Combined use on excavators and wheel loaders is also feasible with the Powerline. In general, each adapter can also be easily retrofitted at a later stage.