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NO TILL, NO YIELD

Low-disturbance subsoilers

Low disturbance

In-line subsoilers

These in-line subsoilers are intended for **decompacting** and hollowing out the soil, to promote **aeration**, **water absorption** capacity and to facilitate the growth of the roots of the crop.

Given the shape of the tillers and their blades, a **uniform cracking** of the soil is achieved with a minimum variation in its natural layers; For this reason, we call them **"low disturbance"**.

Operating Mode

The subsoiler is attached to the tractor through the rear three-point hitch. The tractor pulls the implement and lowers its arms, allowing the shanks to dig into the ground, up to the desired working depth. The **front control roller** and the height position in which it is placed is what determines the working depth of the shanks. Regarding the height of the roller, this is regulated hydraulically by means of cylinders controlled from the tractor cabin. There is a depth scale for the operator's reference. Likewise, this roller has **weed cutting discs**, positioned in front of each shank.

Based on this setup, the tractor goes forward with its shanks dug into the soil and, in turn, the blades in the lower part cut the soil and move it vertically upwards in a wavy pattern, thus allowing to **crack it without stirring it**.

A greater or lesser disturbance of the surface is achieved by changing the angle of attack of the blade, by shortening or lengthening the third point of the tractor.

Advantages / Benefits of our subsoilers

- ✔ Optimum decompaction and oxygenation of the soil, in addition to greater water retention.
- ✔ Design of the shanks and shovels (in-line): it does not modify the vegetative layers of the earth, it does not stir, it only cracks and hollows the land uniformly (low disturbance).
- ✔ Good rooting of plants: easy and fast.
- ✔ High-quality materials: made of Hardox, highly resistant anti-wear steel.
- ✔ Possibility of covering the shanks and blades with different wear materials, for different types of terrain.
- ✔ Very robust and easy to handle machine.
- ✔ Front roller: in addition to cutting weeds, it allows instant control of the implement from the cabin.
- ✔ Optional: packer roller and rear three-point hitch.
- ✔ Minimal maintenance.
- ✔ Various series and models available.

Subsoilers models

We classify the Baabor subsoiler models according to their protection against the overstress they may suffer, depending on each terrain. Thus, there are two machine possibilities: **S** and **SF Series** (folding) with hydraulic cylinders and the **SR Series** (rigid) with fuse-pin.

S and SF Series

In these series, the subsoilers have **retractable shanks** in case of overexertion.

The shank is preloaded to maximum penetration force by a hydraulic firing cylinder connected to a hydraulic accumulator.

In the event of overstress, the cylinder compresses, sending the oil inside it to the accumulator, allowing the shank to tilt and rise, thus overcoming the obstacle. Once the obstacle has been overcome, the accumulator, which maintains the pressure in the cylinder, causes the latter to push the shank to its working position again.

The firing force is regulated by increasing or decreasing the internal pressure of the hydraulic accumulator. This process is carried out from the tractor cabin.

The **SF series** refers to the **folding subsoiler** models. The operation in terms of protection is the same as the S series (retractable shanks), but they also have 2 independent front control rollers.

SR Series (rigid)

In this series, protection against overstress is achieved by means of a **fuse-pin**.

When the effort exceeds a certain limit, the fuse-pin is sheared, allowing the tiller to tilt and overcome the obstacle without causing breakage or deformation in the implement.

Returning to its working position requires the action of the operator, replacing the sheared fuse with a new one.

Name of the models / Characteristics

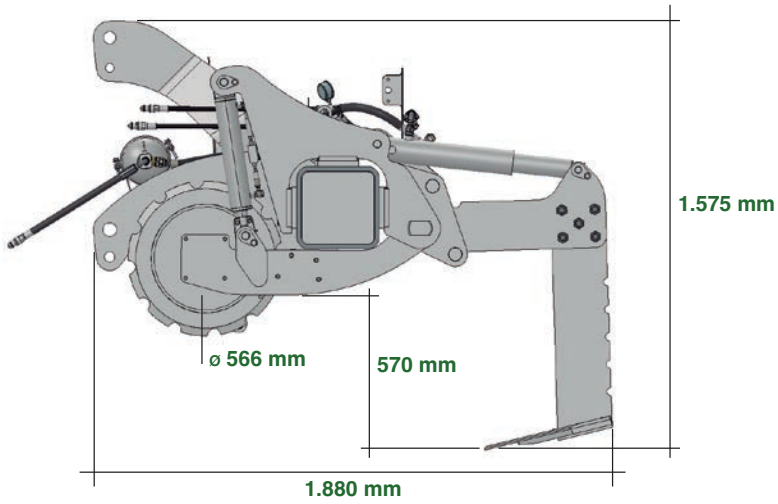
S → Subsoiler.

SF → Folding version for transport.

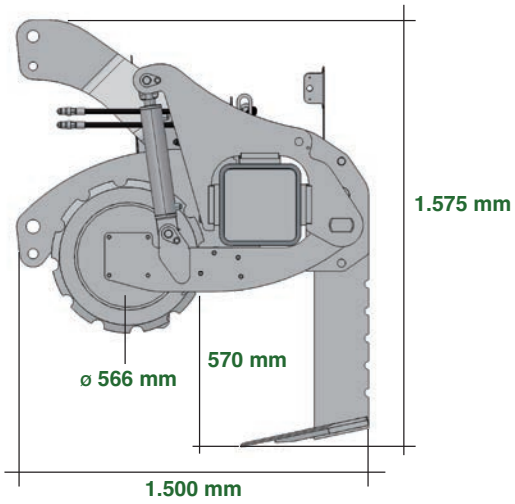
SR → Rigid trip fuse version.

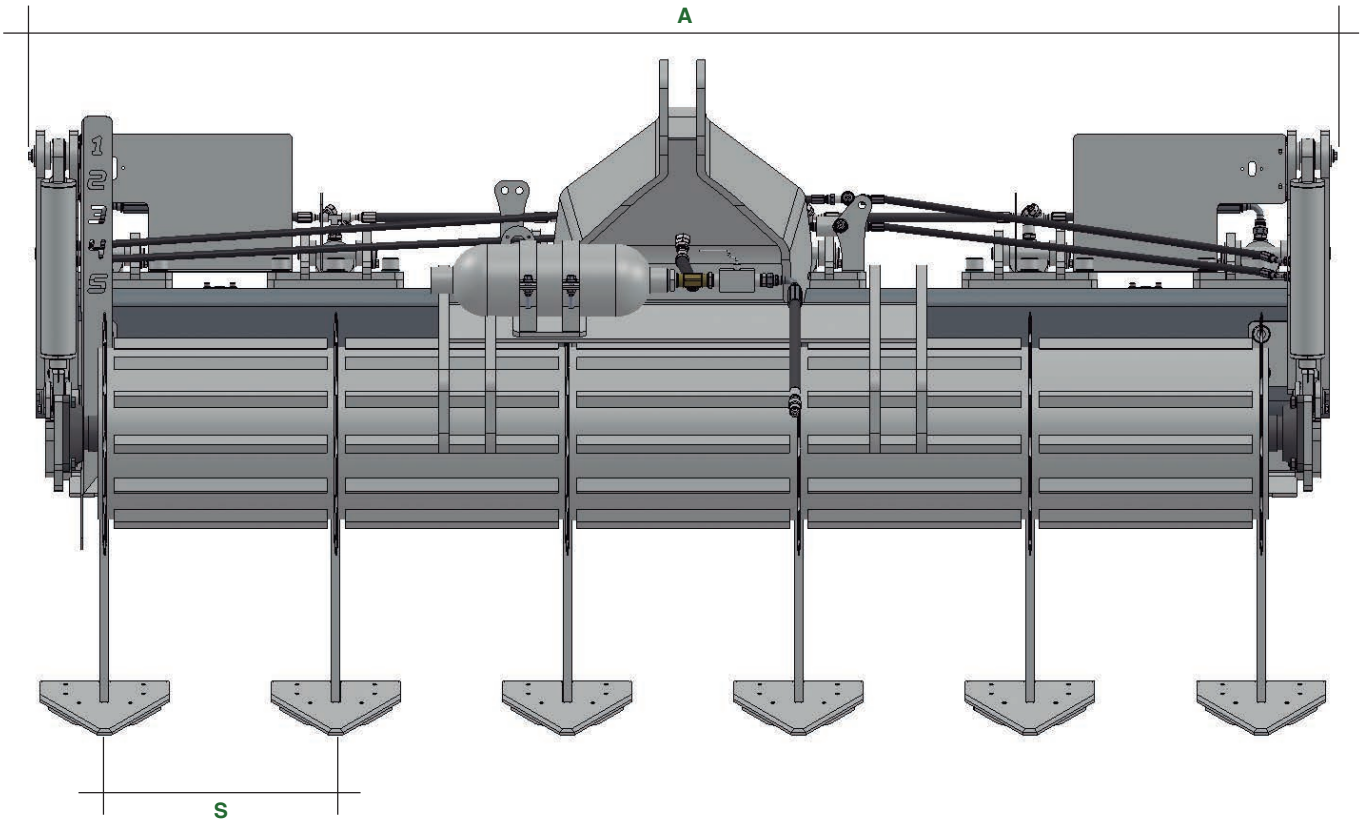
300 → Theoretical working width, depending on the number of tillers and the separation between them.

S Series



SR Series - Rigid

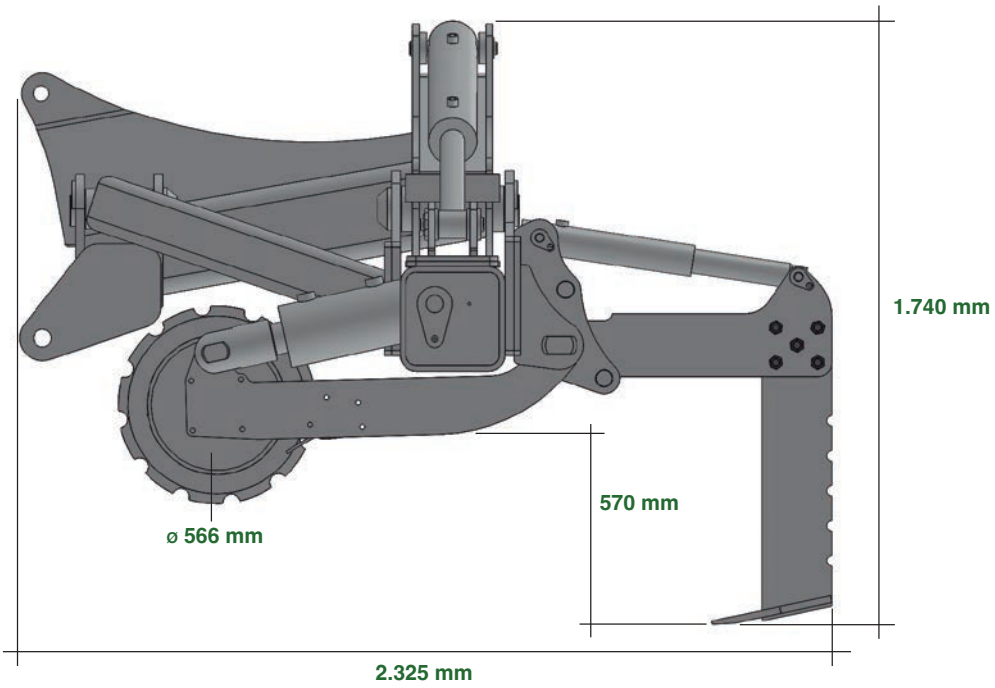


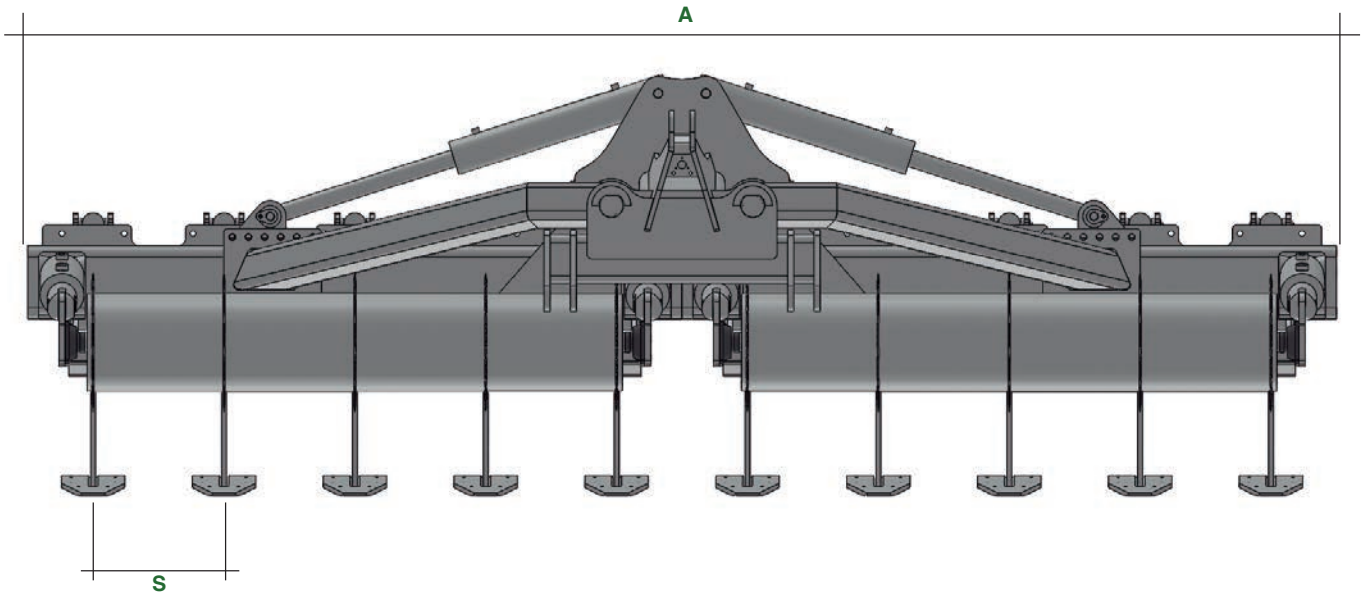


S and SR Series

Technical Specifications		S / SR 260	S / SR S275	S / SR 300	S / SR 320	S / SR 330
Working width	mm	2.600	2.750	3.000	3.200	3.300
Working depth	mm	0 - 600	0 - 600	0 - 600	0 - 600	0 - 600
Transport width (A)	mm	2.420	2.520	2.815	3.000	3.000
Shank spacing (S)	mm	525	550	500	537	670
Number of shanks		5	5	6	6	5
Required power	H.P.	170 - 220	200 - 250	250 - 350	300 - 400	300 - 400
Type of coupling	CAT.	III - IV	III - IV	III - IV	III - IV	III - IV
Approximated weight	Kg	2.470	2.500	2.600	2.750	2.620

SF Series - Folding





SF Series - Folding

Technical Specifications		SF420	SF530	SF640
Working width	mm	4.200	5.300	6.400
Working depth	mm	0 - 600	0 - 600	0 - 600
Transport width (folded)	mm	3.000	3.000	3.000
External width (deployed) (A)	mm	4.280	5.370	6.450
Shank spacing (S)	mm	537	537	537
Number of shanks		8	10	12
Required power	H.P.	350 - 450	400 - 500	500 - 700
Type of coupling	CAT.	IV	IV	IV
Approximated weight	Kg	5.700	6.100	6.500

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