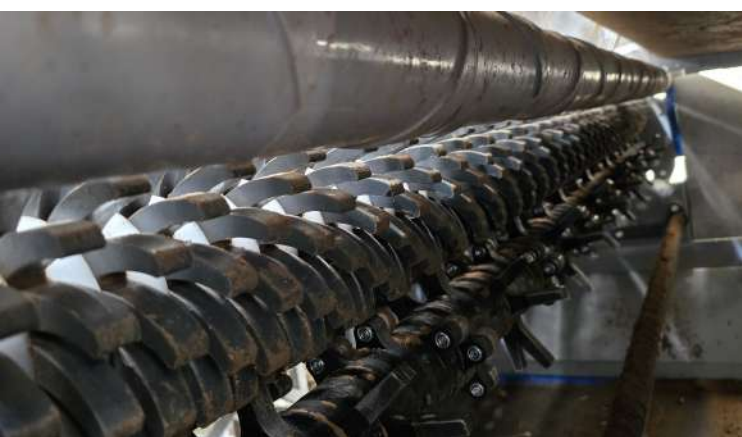




SCOTTS

PRECISION MANUFACTURING LTD.

PROUDLY BUILT IN THE UK



Terra-Siv

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Terra-Siv



Designed and manufactured in the UK, our pre-cleaning Terra-Siv is equipped with various features as standard.

An Overview of the Terra-Siv

The self-cleaning Terra-Siv is specifically designed to rapidly extract large volumes of loose soil and debris over a very short distance. Designed to either bolt directly onto the intake of any of our second-generation Evolution Separators or used as a stand-alone pre-cleaner.

The main driver for this design is to assist customers dealing with high soil percentages in their crops. Most growers of overwintered carrots and parsnips already use our highly successful Evolution Separator. The Terra-Siv will turbo-charge these separators by removing high levels of loose soil and smaller debris. By eliminating this debris beforehand, the separator can operate more effectively, by focusing on larger particles and leaf matter. The versatility of the system provides equal benefits for a wide variety of other crops, such as potatoes, onions, celeriac, and beets. By utilizing the lateral gap adjustment of the two star shafts, it is also possible to remove undersized crop.

How It Works

The crop is supported on the tips of the stars, allowing loose soil to immediately fall between the fingers, while larger particles are drawn down into the valley between the star shafts. We have found that by mis-matching the star shaft speeds and adjusting the height of the second star shaft we can then effectively entrain irregular shaped objects deeper into that valley without pulling the crop through. The key is to eliminate any flex or movement within the shafts and supporting chassis while keeping the star fingers open in the heaviest of soils. This was achieved by stabilising the spacing between the stars. Having uniform star spacings allows us to maintain a very tight tolerance between the cleaning finger and adjacent stars. The use of a square-edged steel finger ensures the gap is repeatedly cleaned, twin roller bearings consistently flex the soft fingers, completing the self-cleaning cycle.

The design is focused on low maintenance and tool-free adjustment. Direct drive electric motor/gearboxes, along with remote greasing, are fitted as standard. For operator ease, all adjustments are made via push button or turnbuckles.



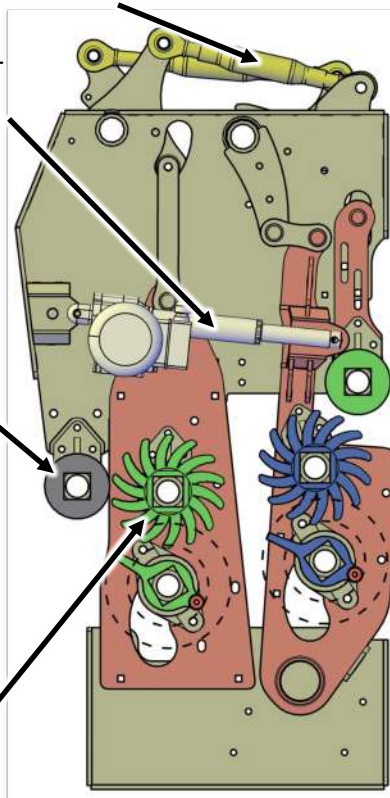
Height adjustment for 2nd star shaft

Height adjustment for feed-on roller shaft

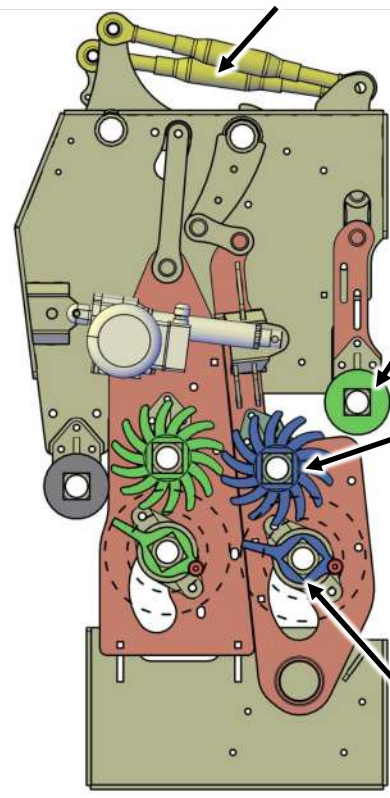
Gap adjustment for star shafts - via electric actuator

Feed-off roller - variable speed

2nd star shaft - variable speed



Fully Open



Fully Closed

Direction of Flow ←



The soft "feed-on roller" (height adjustable by turnbuckle) offers a gentle landing for the crop and fixes the overall length of the separator.



Below each star shaft is a highly efficient cleaning system, comprising of a slowly rotating cam shaft with single steel fingers passing between each pair of stars to constantly eliminate any buildup of soil. Between each steel finger, a double bearing mounted on a small cam rotates with each shaft, effortlessly flexing each star finger to loosen compacted soil that builds up between the front and rear of each star finger.



The first star shaft, adjustable for speed, can also be adjusted rearward by an electric linear ram to create a gap of up to 65mm (the "feed-on roller" moves vertically to allow this).



The fixed "feed-off roller" is adjustable for speed and direction.



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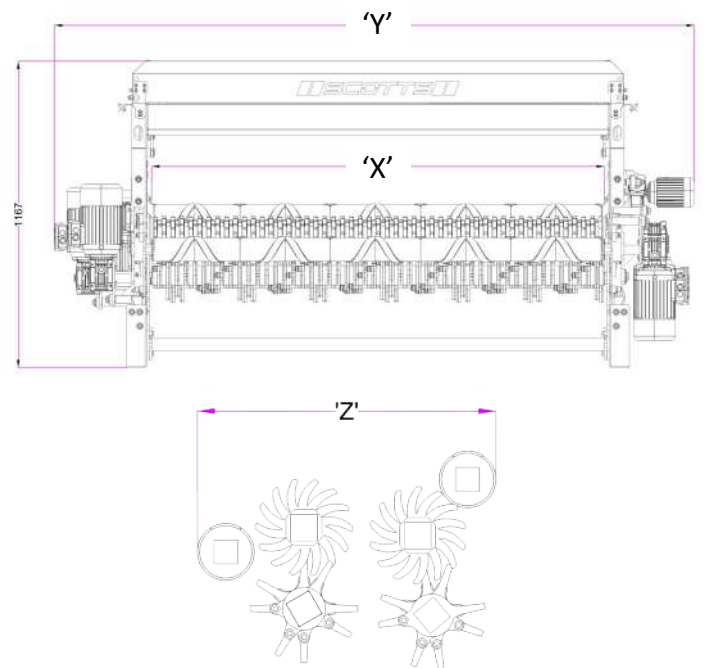
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Working Width 'X'	Overall Width 'Y'	Working Length 'Z'
2750mm	3464mm	516mm
2579mm	3293mm	516mm
2408mm	3122mm	516mm
2237mm	2951mm	516mm
2066mm	2780mm	516mm
1895mm	2609mm	516mm
1724mm	2438mm	516mm
1553mm	2267mm	516mm
1382mm	2096mm	516mm
1211mm	1925mm	516mm
1040mm	1754mm	516mm
869mm	1583mm	516mm



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Dealer Stamp

Scotts Precision Manufacturing Ltd. reserve the right to change the concept and the specifications or to make adaptations to the machine, without obligations for the bought material or after the changes mentioned.