9812 Sugarbeet Defoliator

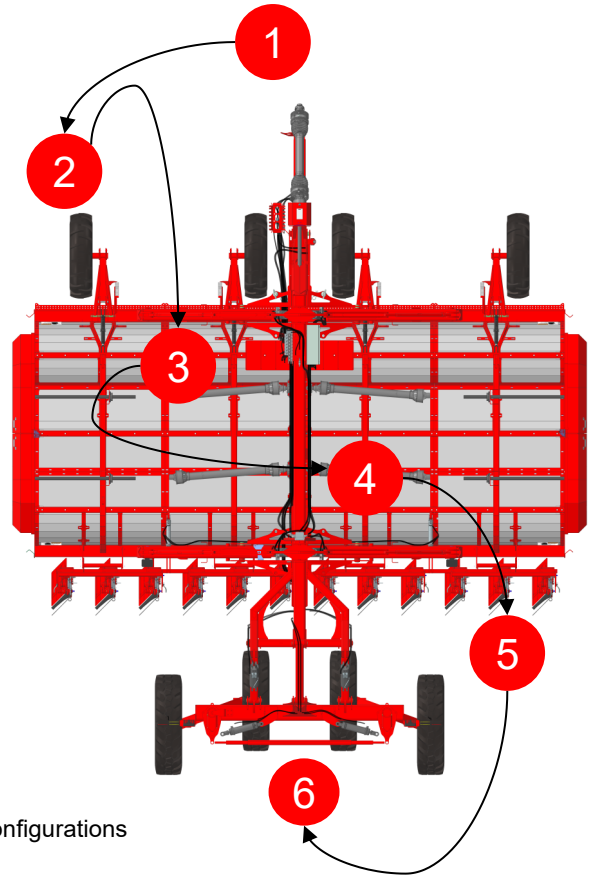
Walk Around | 2025

SPUDNIK

Explanation of the walk-around

This document, “Walk Around 9812 Sugarbeet Defoliator“, was developed to help introduce this machine at shows, field demonstrations, or in sales discussions, and to showcase distinguishing features!

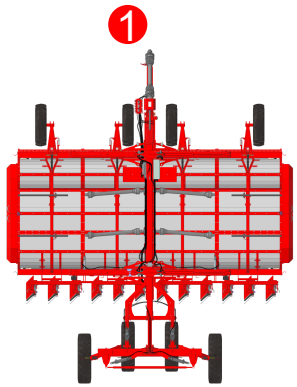
1. Concept
2. Gauge Wheels / Intake
3. Steel Flail Drum
4. Rubber Flail Drum
5. Scalping
6. Axle / Transportation



All images are examples for different machine configurations

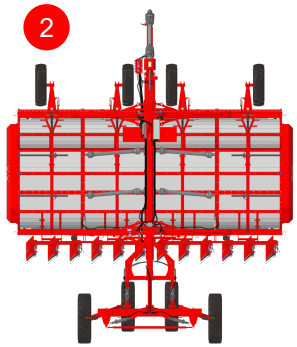
Position 1

Concept

Benefits:		Recommended position: 1
1	12 Row, 22” row space high speed, 5 MPH, Sugarbeet Defoliator.	
	Floating wings contour the ground standard or can be swapped to a fixed frame in very flat field conditions.	
	Three flail shafts, steel followed by two rubber to remove beet tops.	
	Floating scalpers to cut the top off the beet consistently across the field.	
	Stainless-steel flail shrouding to reduce dirt and vegetation buildup.	
	Folds up for easy transport from field to field.	
	Road light package standard with turn / flashers and brake lights.	

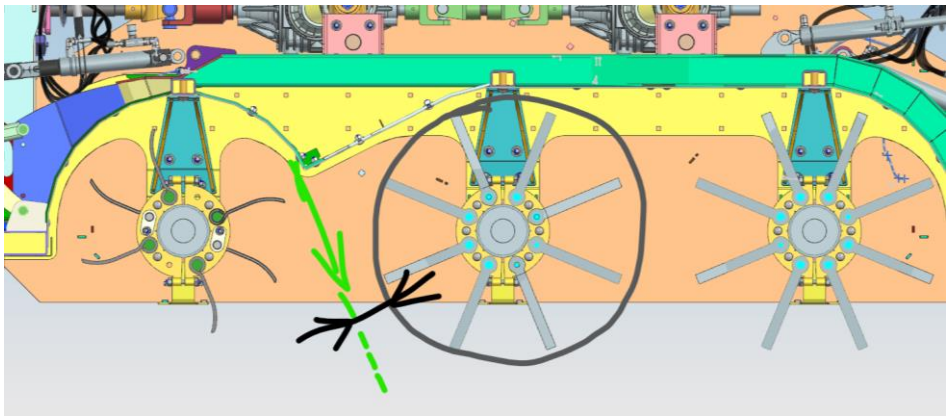
Position 2

Guage Wheels / Intake

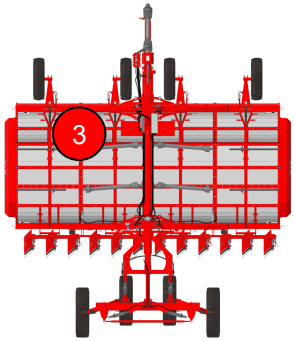
Benefits:		Position 2:
2	Multiple gauge wheel options. Dual (27.6” dia.) or single (43” dia.) tire and one or two sets per wing. Dual tires are offset 16” to walk smoothly over pivot tracks, and the single tire’s large diameter is better for fields with Dammer dikes. Available optional gauge wheel dampening.	
	The gauge wheel adjustment can be set mechanically with a ratchet jack or hydraulically controlled from the cab.	
	Intake is guarded with a 3/16” chain curtain and rubber belting backing to reduce any rocks or debris that are thrown up from the steel flails from exiting the machine.	
	The Hitch has a hydraulic cylinder to raise the machine up and down to connect the pull ring to the tractor. Ridge relief control on the drawbar.	

Position 3

Steel Flail Shaft

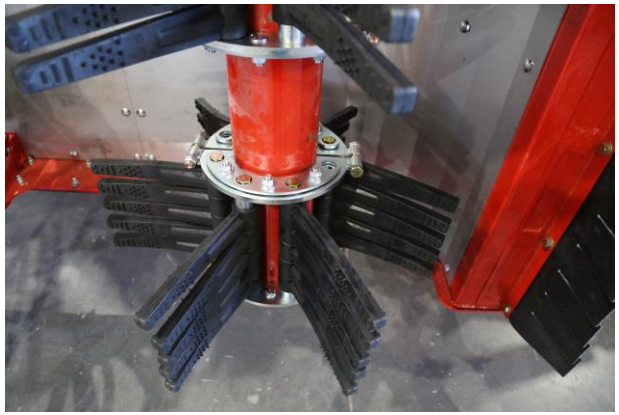


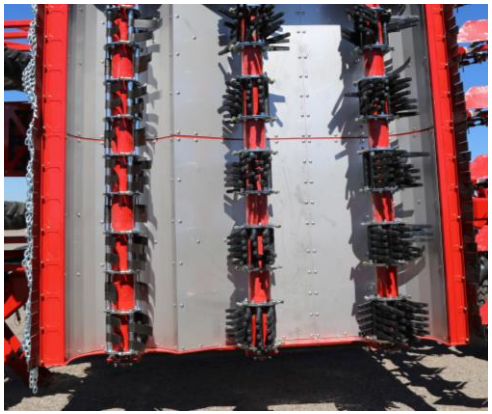
Benefits:		Recommended position:
	The steel flail shaft rotates clockwise, and the cupped shape flail removes the majority of the tops with this cut. 4 Pairs on the row and 2 pairs between the row.	
	The cut tops then rotate around the flail shaft and are deposited onto the ground with a trajectory that doesn't interfere with the rubber flails.	
3	The housing is made from stainless steel to reduce dirt and foliage build-up on the underside of the Defoliator.	

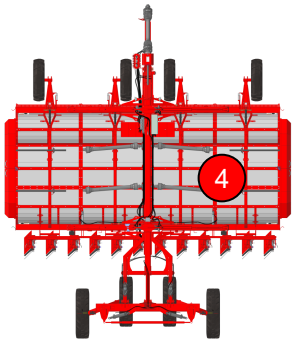


Position 4

Rubber Flail Shaft

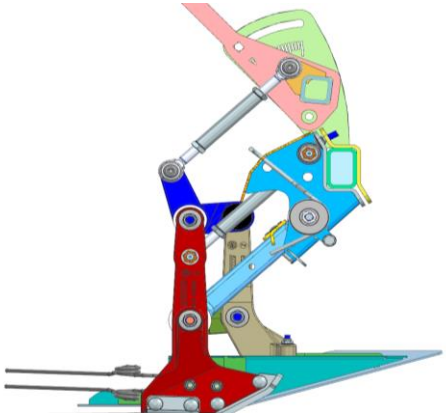


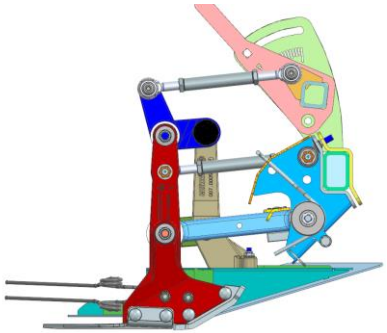


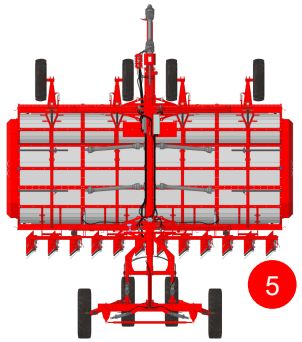
Benefits:		Recommended position:
4	The first rubber flail shaft rotates counterclockwise, and the second rubber flail shaft rotates clockwise to remove beet tops from both sides.	
	Each row can have either optionally, 6 or 8 sets of 5 individual flails to completely remove all the tops from the beet.	
	The housing is made from stainless steel to reduce dirt and foliage build-up on the underside of the Defoliator.	

Position 5

Scalping –Assembly and Knives

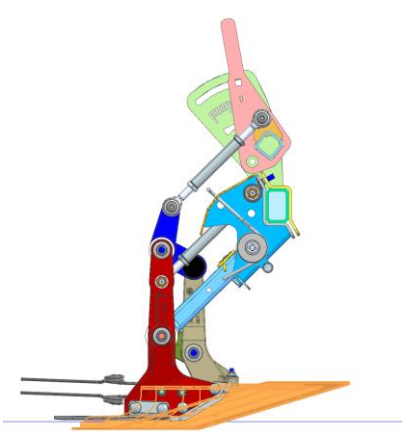


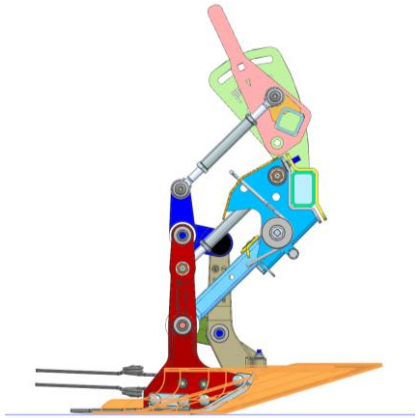


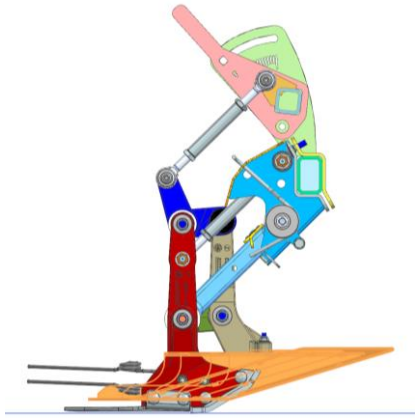
Benefits:		Recommended position:
5	The scalping assembly moves up and down as the shoe rides over the top of the beet to cut the top off the beet at the correct distance. This is accomplished with a spring that is adjustable to set the force required to push up and down.	
	Scalpers lift automatically when the tractor is placed into reverse.	
	A fixed knife after the shoe or a disc can be selected to cut the beet.	

Position 5

Scalping –Knife Adjustment

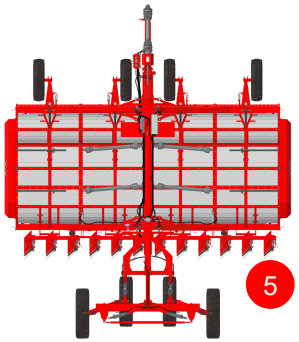






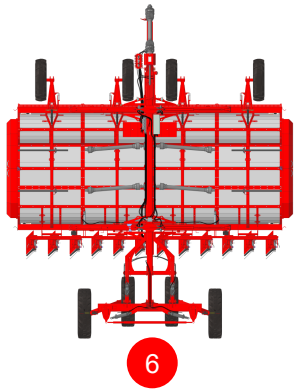
Benefits:	Recommended position:
The pink lever adjusts the height of the shoe relative to the scalping blade to set the amount of the beet that is topped.	
The angle of the knife and shoe is fixed. An optional row finder is available.	

5



Position 6

Axle / Transportation

Benefits:		Recommended position:
6	The steerable axle on the rear of the machine has four tires offset 12” on each pair to walk over pivot tracks smoothly. The design of the steering assembly allows the wheels to turn 26° left and right resulting in a tighter turning radius. The axle height can be fully mechanical with cylinder stops or controlled via setpoint on the controller.	
	The tire is 13.00-24 L-2 with an outside diameter of 50 ½”.	
	The wings fold up for easy transport between fields, and the folding mechanism creates additional clearance for turning at the headland.	
	With the wings in the transport position the large 2-7/16” drum bearings can support the axial load of the drum weight.	

View 9812 Sugarbeet Defoliator

From left

View 9812 Sugarbeet Defoliator

From right

View 9812 Sugarbeet Defoliator

From front

View 9812 Sugarbeet Defoliator

From rear

View 9812 Sugarbeet Defoliator

From top