

## Cerescon Commercial specification for Sparter model 2021

Function/ Feature	Value	Remark
Detection method	Sub surface detection sensing	Contactless with proximity sensors
Standard number of probes in detection unit	19 probes (for detection width 40 cm) Option: 23 probes (for detection width 48,3 cm)	Option 2022 27 probes (for detection width 56,6 cm)
Detection depth (relative to top of asparagus bed)	-5 to -8 cm	-8 cm depends on sand bed circumstances
2-step detection	Yes	Cutting depth depending on detected asparagus length. Less subsurface damage
Row pitch supported	Min 1,7 m	No max row pitch
Cutting knife	2 per machine	
Cutting knife inner diameter	70 mm and 90mm	In 2022: also 60mm
Cycle time	1,1 sec	
Minimum asparagus spacing in lateral direction for individual harvesting	30mm	
Number of operators	1	Machine can be operated by 1 operator but 2 operators is recommended for small fields, small headland and row length up to 250 m. Operator is trained by Cerescon
Max harvesting speed	2,0 km/h	For harvesting up to 1,7 asperges/m. If more asparagus/m: harvesting speed is automatically adapted
Automatic driving speed control	yes	Adaptive cruise control based on detected number of asparagus
Public road approved vehicle	No	Trailer used for road transport
Turning radius machine	2,5 m	Typical headland 6 m Turn to next row in one forward movement
Diesel engine powered	Yanmar 4TNV98CT	Emissions standard: Stage 5 / V Cylinders: 4 Rated power: 53.7 kW / 73.0 hp
Total mass	Ca 11000 kg	

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Ground pressure	0,6 kg/cm <sup>2</sup>	
Force limitation detection	Yes	Automatic pull back at force limit. For dragging through soil (to prevent damage by stones etc.)
Length including foil handling in operation	Max 12 m	
Length during transport	Max 9 m	
Machine width for transport	Max 2,55 m	
Machine width in harvesting mode	Max 3 m	
Height for transport	Max 3 m	
Mini tunnel handling	No	For 2022: yes For M-bogen with 2 foils (black white and transparent)