

Scanvaegt SP520 Grader

Accurate and fast sizing



UNBEATEN ACCURACY
MODULAR
CONFIGURATIONS
HYGIENIC DESIGN

Scanvaegt SP520 Grader is a fast, accurate and robust sizing solution that dynamically weighs and sizes products with speeds of up to 130 items per minute. The SP520 Grader concept is available in three standard configurations that accommodate different production needs from sizing to simple batching jobs.

The most accurate weighing in a compact solution

Featuring a robust and reliable design that can withstand use in harsh production environments, Scanvaegt's SP520 Grader is the ideal solution for weight-sizing jobs at speeds of up to 130 items per min. It ensures maximum utilization of raw materials and hand-ling of packaging of bulk products in wet production environments.

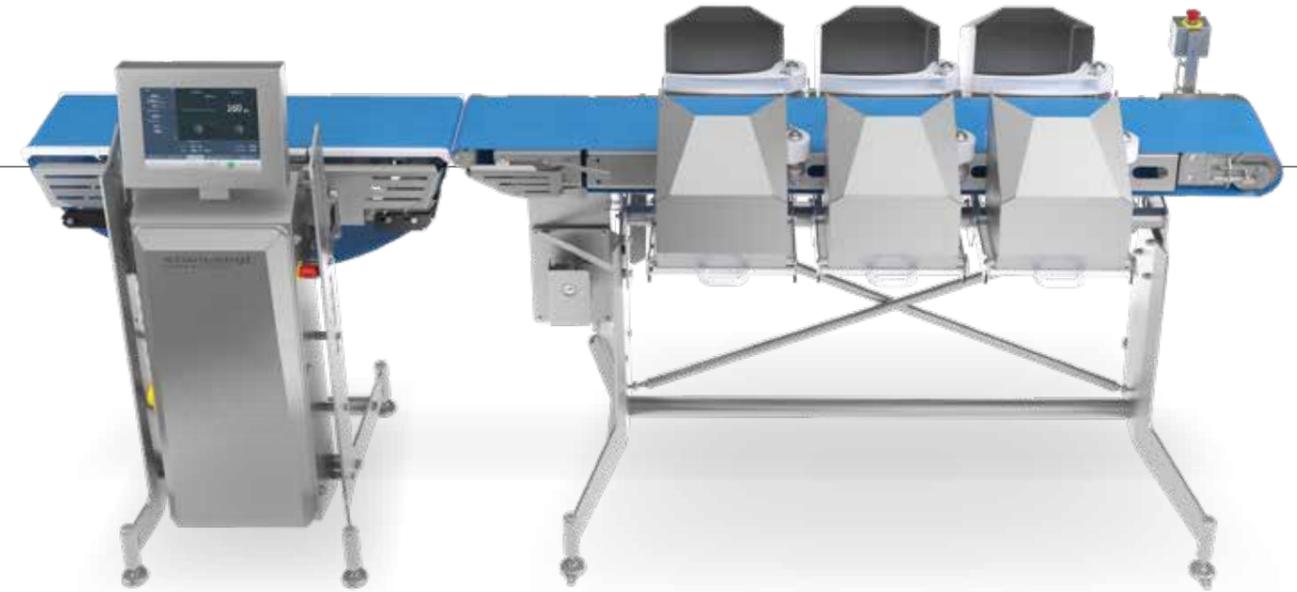
Coupled with a robust design and a state-of-the-art HMI, the SP520 Grader represents a powerful solution for providing accurate product weight sizing. Its compact design and flexible configuration possibilities makes it easy to integrate Scanvaegt SP520 Grader in existing production lines.

Modular design

This solution has been designed to accommodate various customer requirements. It comes in three different standard configuration levels:

- SP520 Grader - Basic
- SP520 Grader+
- SP520 Grader++

As the process weigher and separator are two individual units, you are assured the same high accuracy and capacity as provided in Scanvaegt's top range of Design Graders.



SP520 Grader+

This solution gives possibilities for a manual buffer functionality with collection of bulk products in a bin while the operator changes the vemag trolley, Euro containers or other collection units while still running production. This functionality is perfect when sizing products in smaller units and provides optimized uptime.

The SP520 Grader+ solution consists as a basis of:

- SP520 Process Weigher, W275 mm
- SP5220 Separator with 3 x 2 catch arms CC475 mm
- 6 reject bins with manual gates

SP520 Grader++

The most advanced solution, SP520 Grader++ includes a minimum batching function, where the products are sorted into a predefined total portion weight, for example 5 kg.

The system continuously accumulates the products' individual weight. The weight is used for calculating into which portion and collection bin the individual product must be sorted. When a batch has been reached, the push button light next to the gate indicates a complete batch. This ensures that the portion always reaches the minimum weight. Once the gate has been emptied manually and the push button activated, the system will automatically start collection for the next batch. The function can also be programmed as a piece count portion. Any further configurations require a Scanvaegt Design Grader solution.

The solution consists as a basis of:

- SP520 Process Weigher, W275 mm
- SP5220 Separator with 3 x 2 catch arms CC475 mm
- 6 reject bins with manual gates and push buttons

SP520 Grader - Basic

This basic sizing solution efficiently handles grading of products weighing from 80 g to 3 kg in up to six weight groups. The sizing functionality, which takes place quickly and gently using a catch arm, is focused on sizing jobs of raw materials and can be configured to fit sizing into e.g. vemag trolleys or Euro containers for raw material processing.

The SP520 Grader - Basic solution consists as a basis of:

- SP520 Process Weigher, W275 mm
- SP5220 Separator with 3 x 2 catch arms CC475 mm
- 6 reject sliders



OPEN, EASY-TO-CLEAN DESIGN

SP520 Grader features an open design with sloping lines and surfaces and round pipe profiles. This makes it easy to clean.





Flexible configuration

There is a variety of additional optional configurations available for the three standard models:

- Infeed accelerator belts in 800 mm, 1.000 mm, 1.200 mm or 1.500 mm length
- Box-holders and End Box (position 0)
- Reject bins with manual gates and push buttons
- Number of catch arms (2-6)
- Water spray and scraper (for sticky products)

* Reject bin 0 only available for + and ++ solutions

Optimal durability

The design of the SP520 Grader, featuring a slack belt system, provides fast and accurate weighing even in harsh production conditions. A hermetically sealed load cell in stainless steel based on parallelogram construction (patent pending), combined with overload protection and an anti shock system, ensures maximum uptime. There are three years guarantee on all weighing cells.

The conveyor belt is driven by a strong and hard-wearing drum motor that can withstand use in the food processing industry.

Open, easy-to-clean design

SP520 Grader features an open design with sloping lines and surfaces and round pipe profiles. This makes it easy to clean the machine thoroughly and prevents the accumulation of dirt and bacteria.

User-friendly Human-Machine Interface

SP520 Grader features a large 15" touch-screen with intuitive menus guiding the operator through asking sequences using simple commands and ensuring quick, easy and error-free operation. The simple navigation structure, clear graphics and easy product setup reduce the time required at product shifts. The SP520 Grader's software system provides complete overview and precise production monitoring using statistics and graphs, fast product setup and the possibility of optimizing production.

Technical specifications

SP520 Process Weigher

Material	Stainless
Display	15" 4:3; Touch-screen
Environment	Wet and Dry environment
Dimensions	Belt width 275 mm Weighing bridge - length: 900 mm Weighing table - length: 250, 300, 350, 400 or 500 mm Weighing bridge - length: 1200 mm Weighing table - length: 250, 300, 350, 400, 500 or 600 mm
Line height	700 to 1500 mm, in steps of 50 mm
Weighing capacity	3 kg/1 g
Weighing range	30 g – 3.000 g
Tare	0 – 500 g
Belt speed	20-110 m/min.
Belt material	Food-approved
Power supply	220-240 V 50 Hz
Temperature range	0°C – +30°C
IP Rating	IP66
IP Rating - load cell	IP68
Software	Sizing, Minimum Batching, Feedback, Item Type
Options	Connection to PlusFlex PM pc, data output, metal detector connection, light tower with status signal
Verification	MID / R51:2006 XIII(1) og Y(a)

SP5220 Reject Unit

Machine length	2,270 mm
Max. no. of reject arms	2 x 3
Space between bins	475 mm
Temperature range	0°C - +30°C
Power connection	220-240 VAC, 50/60Hz single phase
Power Consumption	0.55kW
Compressed air	6 bar 25 L/min.

SP5110 Infeed (Optional)

Total length	800 mm, 1.000 mm, 1.200 mm eller 1.500 mm.
Belt width	275 mm