



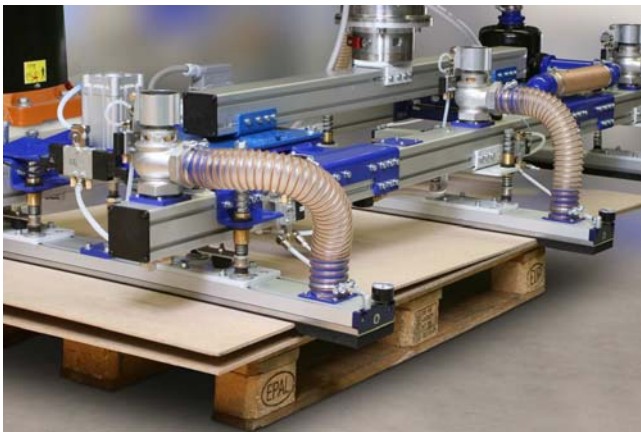
Vacuum Gripping Systems

Suction Spider SSP-FMC

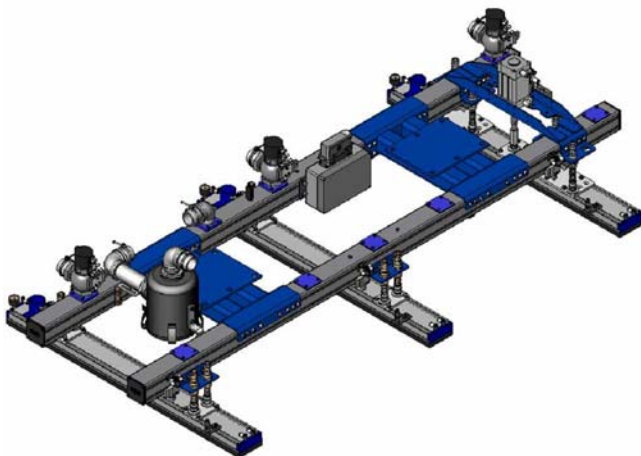
Modular construction for maximum adaptability



Vacuum Spider SSP-FMC for handling layers of raw veneer



Vacuum Spider SSP-FMC with activated separation function to separate and handle porous chipboards



Our Highlights...

- Modular gripping system composed of harmonized individual components
- Intelligent valve technology for suction areas that are not occupied by the workpiece
- Innovative separation function
- Standardised robust complete vacuum gripper

Your Advantages...

- ▶ Fast and competitive configuration for minimal cycle times & high process stability
- ▶ Secure gripping of workpieces with variable measurements and/or undefined position
- ▶ Reliable separation of workpieces that stick together because of adhesion or porosity
- ▶ Reliable competitive solution, easy to install

Applications

- Handling of workpieces with different measurements and/or undefined position
- Handling of work pieces with cut-outs
- Automated palletising of boards (wood, metal, plastic), panels, plates, glassware, solar panels, extensive cartons

Construction

- Modular system of harmonized components and subassemblies for defined magnitudes and load range
- Depending on handling application the use of other gripping principles (eg. single suction pads, mechanical grippers, magnetic grippers, needle grippers) is possible
- Modular configuration
 - The 'Basic' version composed of sliding flange modules, main beam, vacuum distributor, jointed spring plunger add-on module, suction elements as well as optional vacuum generator
 - The 'Comfort' version contains additionally separation unit, valve unit, sensor unit as well as electric terminal box

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Ordering Data

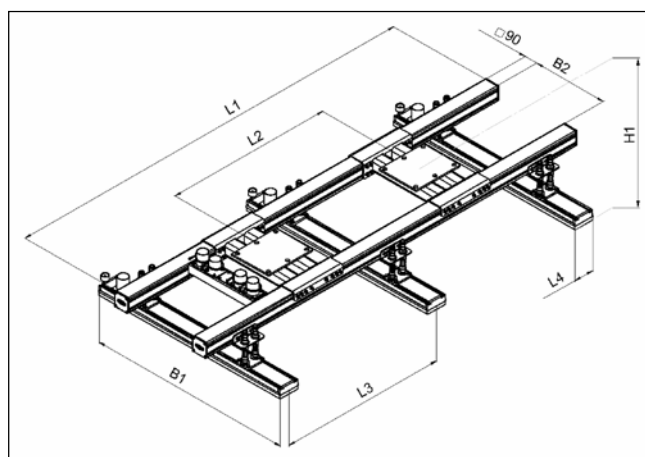
Model	Number of grippers	Load* [N] at 40% vacuum	Weight** [kg]	Vacuum generator [VG]	Article No. without VG	Article No with VG	
SSP-FMC-SW-2,500x800 Basic	3	3200	130	SGBL-220-465 [4 kW]	10.01.10.03282	10.01.11.01904	
SSP-FMC-SVKW-2,500x800 Comfort			175		10.01.10.03289	10.01.11.01914	
SSP-FMC-SW-2,500x1,200 Basic			140		10.01.10.03230	10.01.11.01905	
SSP-FMC-SVKW-2,500x1,200 Comfort		4800	185	SGBL-310-420 [4 kW]	10.01.10.03173	10.01.11.01915	
SSP-FMC-SW-2,500x1,400 Basic					145	10.01.10.03283	10.01.11.01906
SSP-FMC-SVKW-2,500x1,400 Comfort					190	10.01.10.03290	10.01.11.01916
SSP-FMC-SW-4,000x800 Basic	4	4300	175	SGBL-220-465 [4 kW]	10.01.10.03284	10.01.11.01907	
SSP-FMC-SVKW-4,000x800 Comfort			235		10.01.10.03292	10.01.11.01917	
SSP-FMC-SW-4,000x1,200 Basic			190		10.01.10.03274	10.01.11.01908	
SSP-FMC-SVKW-4,000x1,200 Comfort		6400	250	SGBL-310-420 [4 kW]	10.01.10.03291	10.01.11.01918	
SSP-FMC-SW-4,000x1,400 Basic					195	10.01.10.03285	10.01.11.01909
SSP-FMC-SVKW-4,000x1,400 Comfort					255	10.01.10.03293	10.01.11.01919
SSP-FMC-SW-6,000x800 Basic	5	5400	220	SGBL-220-465 [4 kW]	10.01.10.03286	10.01.11.01910	
SSP-FMC-SVKW-6,000x800 Comfort			295		10.01.10.03304	10.01.11.01921	
SSP-FMC-SW-6,000x1,200 Basic			8000		235	SGBL-490-370 [7.5 kW]	10.01.10.03168
SSP-FMC-SVKW-6,000x1,200 Comfort		310		10.01.10.03295			10.01.11.01922
SSP-FMC-SW-6,000x1,400 Basic		245		10.01.10.03287			10.01.11.01912
SSP-FMC-SVKW-6,000x1,400 Comfort		9250	320	10.01.10.03305	10.01.11.01923		

* for workpieces that are suitably rigid with full usage and 0.4 bar negative pressure

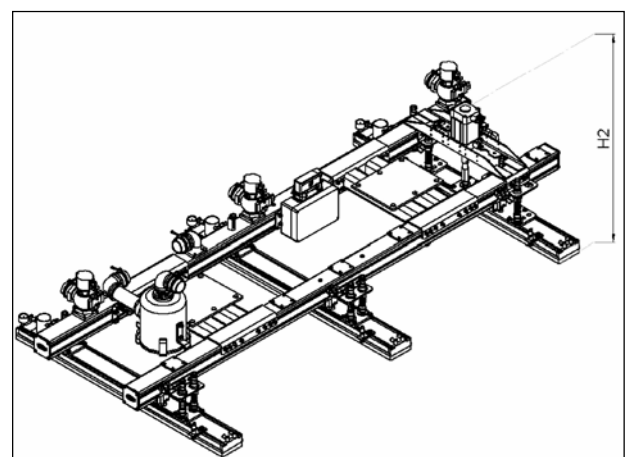
** without vacuum generator

Design Data

Table	L1 [mm]	L2 [mm]	Number of grippers	L3 [mm]	L4 [mm]	B1 [mm]	B2 [mm]	H1 max [mm]	H2 max [mm]
SSP-FMC-SW-2,500x800 Basic	2500	1000	3	1000	120	831.5	440	350	-
SSP-FMC-SVKW-2,500x800 Comfort						610			
SSP-FMC-SW-2,500x1,200 Basic						1227.5			610
SSP-FMC-SVKW-2,500x1,200 Comfort						1425.5			610
SSP-FMC-SW-2,500x1,400 Basic						-			
SSP-FMC-SVKW-2,500x1,400 Comfort						610			
SSP-FMC-SW-4,000x800 Basic	4000	1500	4	1250	120	831.5	440	350	-
SSP-FMC-SVKW-4,000x800 Comfort						610			
SSP-FMC-SW-4,000x1,200 Basic						1227.5			610
SSP-FMC-SVKW-4,000x1,200 Comfort						1425.5			610
SSP-FMC-SW-4,000x1,400 Basic						-			
SSP-FMC-SVKW-4,000x1,400 Comfort						610			
SSP-FMC-SW-6,000x800 Basic	6000	1500	5	1400	120	831.5	440	350	-
SSP-FMC-SVKW-6,000x800 Comfort						610			
SSP-FMC-SW-6,000x1,200 Basic						1227.5			610
SSP-FMC-SVKW-6,000x1,200 Comfort						1425.5			610
SSP-FMC-SW-6,000x1,400 Basic						-			
SSP-FMC-SVKW-6,000x1,400 Comfort						610			



SSP-FMC BASIC



SSP-FMC COMFORT



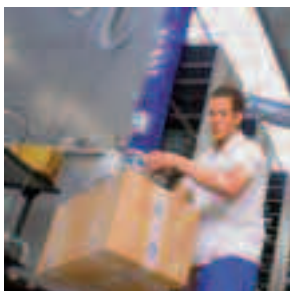
Vacuum Components

Innovative vacuum components from Schmalz offer many users in various sectors of industry reliable support in the solution of automation and handling tasks. The wide range of components extends from suction pads and vacuum generators to mounting elements and system monitoring devices.



Vacuum Gripping Systems

Complex vacuum gripping systems from Schmalz permit decisive productivity improvements to be achieved. The range extends from layer and large-area gripping systems to complete vacuum spiders, delivered ready for connection, for use in all areas of automation.



Vacuum Handling Systems

Ergonomical vacuum lifting devices Jumbo and VacuMaster for effortless, damage-free handling of workpieces. Crane systems to supplement these to form complete system solutions which are precisely matched to the planned application. Workshop equipment as practical aids in trade and industry.



Vacuum Clamping Systems

Future-oriented vacuum clamping technology from Schmalz is the intelligent response to the continually increasing demands for more productivity and economic operation of CNC machine tools.