SINAMICS S210 Servo Drive System Sales Slides (v2.0)

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SIMATIC S7-1500 Ingenuity for life

SINAMICS S210 Servo Drive System The new high dynamic Servo Drive System





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The **SINAMICS S210 Servo Drive System** is a single axis AC/AC drive with enhanced features, connectivity and performance **for motion control applications in the midrange segment**.

Designed for high dynamic motion control applications which you find for example in the packaging or handling area.

The new servo drive system comprises the SINAMICS S210 servo drive, the **SIMOTICS S-1FK2 servo motor** in a **compact or high dynamic** version and a dedicated "**One-Cable-Connection**" between motor and drive.

Works perfectly together with a SIMATIC S7 controller like a S7-1500 or S7-1500T to perform motion control tasks like positioning, synchronous axis, gearing ...

Highlights

- PN IRT
- Safety Integrated: Basic and Extended functions via PROFIsafe
- Dedicated S-1FK2 motors (compact and high dynamic) with One-Cable-Connection
- Integrated Webserver and "One Button Tuning"
- UL Certification
- Integrated category C2 EMC-Filter

SINAMICS S210 Servo Drive System, Positioning within SINAMICS "Discontinuous Motion" Portfolio









Basic: SINAMICS V90 Servo Drive System

Single axis AC/AC drive with basic functionality and connectivity for standard numeric and motion controllers

Midrange: SINAMICS S210 Servo Drive System

Single axis AC/AC drive with high dynamic and performance for motion applications in the mid range segment.

High-End: SINAMICS S120 Servo Drive

Modular DC/AC multi axis system with most advanced drive based technology and connectivity to high end numeric and motion controllers

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The scalable SINAMICS Drives Portfolio for "Discontinuous Motion"



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SINAMICS S210 Servo Drive System The compact high performance single axis servo drive system



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SINAMICS S210 Servo Drive System The drive for high dynamic performance applications





Packaging, Printing, Converting, Plastics

- Packaging machines
- Printing machines
- Labeling machines

• ...



Handling, Moving...

- Pick and Place machines
- Rotary tables
- Stacking machines
-



General Machine Building

- Assembling machines
- Chip sorting machines
- Bonding machines

• ...

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Added Value with SINAMICS S210 Servo Drive System



System advantages



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Top highlights SINAMICS S210 & SIMOTICS S-1FK2 The new midrange servo drive system





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*) Full integration in preparation

Reference Easysnap The one hand opening technology

Customer: Easysnap Technology S.r.I. (Italy)

Industry: Packaging

Unrestricted © Siemens AG 2018 Page 9 • **Product:** Performance and Dimensions of the S210 drive system is very important for the customer. In the future this will **reduce the required cabinet dimensions**.

- **Digitalization:** Significant benefits seen in digitalization is related to the data collection and analytics. For example the **predictive maintenance via Mindsphere**. For the future it is planned to start with **virtual commissioning and presentation of the machine via the digital twin.**
- **Siemens Brand:** The customer is interested to use Siemens because the Siemens brand is strongly present in the machine market and some of their customers ask to equip the machine with Siemens products.

Packaging machine to fill liquid products into sachets (320PC/min)

- SINAMICS S210 Servo Drive System
- SINAMICS S120 Servo Drive (C/D Type) with SIMOTICS S-1FK7
- SIMATIC S7-1500T controller
- SIMATIC ET200SP



Benefits for the customer:



SINAMICS S210 servo drive system easy, high performant and safe



Technical Data	SINAMICS S210 (6SL3210-5H)	SIMOTICS S-1FK2 (1FK21) HD (1FK22) CT	One Cable Connection (6FX5002-8QN) (6FX8002-8QN)
	 Voltage: 1AC 200-240V Power: 100W-750W PN IRT (250 µs), current cont. 62,5 µs, PROFIsafe Safety functions: STO, SS1, SBC, ext safety: SS1, SS2, SOS, SLS, SSM, SDI, SBT, SLA Removable terminals Side-by-side mounting 300% overload Integrated C2 EMC-Filter Integrated break resistor DI: 1 F-DI (2 DI), 2 DI for measuring probes Integrated WEB-Server 	 Torque: 0,16-2,4Nm Power: 50W-750W High Dynamic (HD) or Compact (CT) in shaft height 20, 30, 40mm Encoder: 22 Bit Abs. Single or Multiturn Protection Degree: IP64, optional IP65 Plain or feather key shaft With or without holding brake Ready to use in North- America (cURus) 	 Individual cable lenghts up to 50m can be ordered SPEED- CONNECT fast connection system with rotatable motor connector Flexible cables with small bending radii Trailing cable version available Small and compact M12 connector for motor SH20/30mm (only 25mm in height) Extension cables and mounting flange available

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Motion Control via SIMATIC S7 & SIMOTION controller and PROFINET



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SINAMICS S210 servo drive system, off to a fast start. Precise and reliable in operation. Perfect together with SIMATIC.





Advantages of S210 servo drive system

- Compact in dimensions
- High performance of drive and motor
- Fast installation of drive and motor via one cable connection (OCC)
- Easy commissioning using the web server and "One Button Tuning"
- Integrated safety functions
- Optimal together with SIMATIC controller

Drives, motors and controllers. All from a single source. Matching perfectly.

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SINAMICS S210 Servo Drive System The new high dynamic Servo Drive System from Siemens





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