

FAS-200

Flexible assembly system

New flexible and compact assembly system which includes technologies from the automation industry

Why FAS-200?

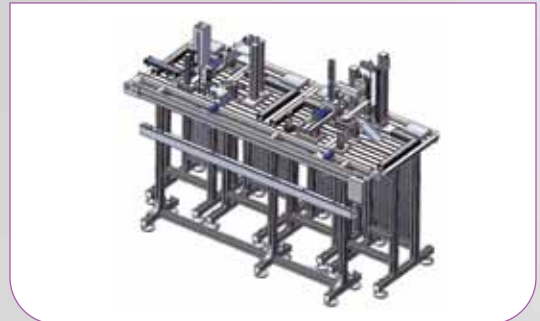
- FAS-200 features more stations within the same space which means more students will be able to work at the same time.
- It has several technologies used in automation processes in the one trainer only.
- It includes a troubleshooting simulation box per station*.
- All the components are used as standard in industry.
- Option of including PLCs, robots and industrial communications by different manufacturers*.

Some possible set-ups

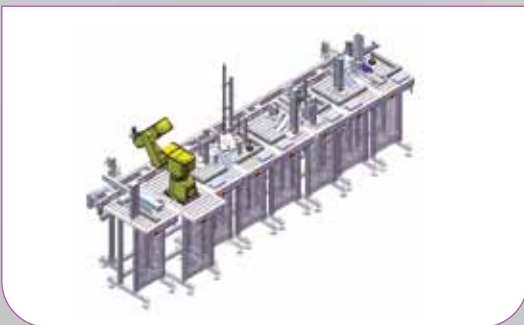
■ 2 stations without transfer



■ 4 stations with transfer



■ 8 stations with transfer



■ 18 stations with transfer



Other set-ups are also possible*.

* Check for availability.



training



FAS-200 is comprised of different stations, each performing a part of the assembly process.



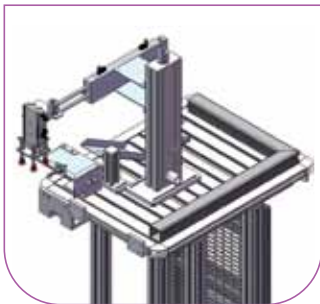
Dim. 450x600x1310 mm.

FAS-201 Base feeding/verification station

It provides the base for the rotation mechanism and verifies that its position is correct. It includes:

- Base feeder.
- Position verification.
- Handling device for movement to the point of transfer.

- **SAI4201** FAS-201 with Siemens PLC / Profibus
- **SAI4217** FAS-201 with Omron PLC / Devicenet
- **SAI4241** FAS-201 with Allen Bradley PLC / Devicenet
- **SAI4301** FAS-201 without PLC



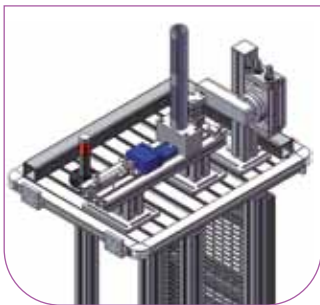
Dim. 450x600x1500 mm.

FAS-202 Base rejection/transfer station

This positions the correctly placed bases on the pallet and rejects those which are incorrect. It includes:

- Incorrect base handling device.
- Insertion handling device for the base into the pallet.

- **SAI4202** FAS-202 with Siemens PLC / Profibus
- **SAI4218** FAS-202 with Omron PLC / Devicenet
- **SAI4242** FAS-202 with Allen Bradley PLC / Devicenet
- **SAI4302** FAS-202 without PLC



Dim. 450x600x1320 mm.

FAS-203 Bearing feeding/transfer station

This feeds two bearing types and transfers them to the measuring position. It includes:

- Bearing feeding handling device.
- Bearing transfer handling device.

- **SAI4203** FAS-203 with Siemens PLC / Profibus
- **SAI4219** FAS-203 with Omron PLC / Devicenet
- **SAI4243** FAS-203 with Allen Bradley PLC / Devicenet
- **SAI4303** FAS-203 without PLC



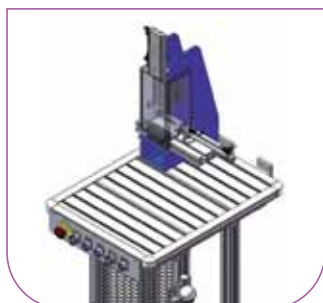
Dim. 450x600x1410 mm.

FAS-204 Bearing measuring/transfer station

This measures the bearing height. It includes:

- Measuring handling device for the bearing height.
- Bearing insertion handling device.

- **SAI4204** FAS-204 with Siemens PLC / Profibus
- **SAI4221** FAS-204 with Omron PLC / Devicenet
- **SAI4244** FAS-204 with Allen Bradley PLC / Devicenet
- **SAI4304** FAS-204 without PLC



Dim. 450x600x1370 mm.

FAS-205 Hydraulic pressing station

This simulates the pressing of the bearing against the base. It includes:

- Bearing pressing handling device.
- Assembly extraction handling device.

- **SAI4205** FAS-205 with Siemens PLC / Profibus
- **SAI4222** FAS-205 with Omron PLC / Devicenet
- **SAI4245** FAS-205 with Allen Bradley PLC / Devicenet
- **SAI4305** FAS-205 without PLC



Dim. 450x600x1210 mm.

FAS-206 Transfer station to the hydraulic press

This feeds the product in process to the press and picks it up/drops it on the pallet. It includes:

- Insertion/extraction handling device for the product in process.
- Handling device for feeding the hydraulic press.

- **SAI4206** FAS-206 with Siemens PLC / Profibus
- **SAI4223** FAS-206 with Omron PLC / Devicenet
- **SAI4246** FAS-206 with Allen Bradley PLC / Devicenet
- **SAI4306** FAS-206 without PLC



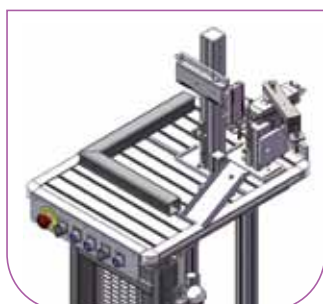
Dim. 450x600x1800 mm.

FAS-207 Shaft classification station

This feeds the assembly axes and verifies their material and position. It includes:

- Indexing plate.
- Axis feeder.
- Handling device for measuring the height.
- Positioning of the axis correctly.
- Detection of material.

- **SAI4207** FAS-207 with Siemens PLC / Profibus
- **SAI4224** FAS-207 with Omron PLC / Devicenet
- **SAI4247** FAS-207 with Allen Bradley PLC / Devicenet
- **SAI4307** FAS-207 without PLC



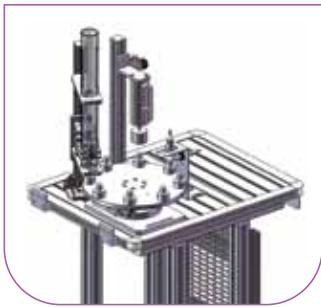
Dim. 450x600x1310 mm.

FAS-208 Shaft rejection/transfer station

This rejects the axes which have an unwanted material and inserts the correct ones into the product in process. It includes:

- Incorrect shaft removal device.
- Handling device for inserting the shaft into the assembly.

- **SAI4208** FAS-208 with Siemens PLC / Profibus
- **SAI4225** FAS-208 with Omron PLC / Devicenet
- **SAI4248** FAS-208 with Allen Bradley PLC / Devicenet
- **SAI4308** FAS-208 without PLC



Dim. 450x600x1400 mm.

FAS-209 Lid classification station

This feeds and inspects the lids to be assembled in the product in process. It includes:

- Indexing plate.
- Lid feeder handling device.
- Indexing plate load.
- Detection of material.
- Handling device for measuring the height.

- **SAI4209** FAS-209 with Siemens PLC / Profibus
- **SAI4226** FAS-209 with Omron PLC / Devicenet
- **SAI4249** FAS-209 with Allen Bradley PLC / Devicenet
- **SAI4309** FAS-209 without PLC



Dim. 450x600x1310 mm.

FAS-210 Lid rejection/transfer station

This rejects the lids or inserts them inside the pallet. It includes:

- Incorrect lid removal handling device.
- Lid insertion handling device.

- **SAI4210** FAS-210 with Siemens PLC / Profibus
- **SAI4227** FAS-210 with Omron PLC / Devicenet
- **SAI4250** FAS-210 with Allen Bradley PLC / Devicenet
- **SAI4310** FAS-210 without PLC



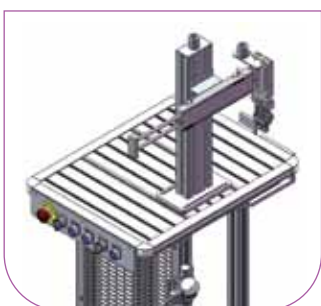
Dim. 450x600x1910 mm.

FAS-211 Screw dispensing station

This feeds and transfers the screws to be assembled from the station. It includes:

- Screw feeding handling device.
- Transfer handling device for the product in process.

- **SAI4211** FAS-211 with Siemens PLC / Profibus
- **SAI4228** FAS-211 with Omron PLC / Devicenet
- **SAI4251** FAS-211 with Allen Bradley PLC / Devicenet
- **SAI4311** FAS-211 without PLC



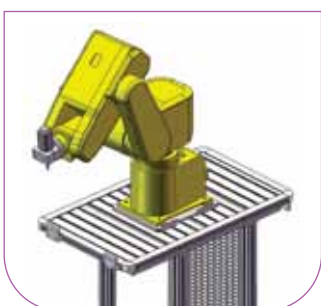
Dim. 450x600x1550 mm.

FAS-212 Screw insertion station

This inserts the four screws into the base. It includes:

- Screw insertion handling device.

- **SAI4212** FAS-212 with Siemens PLC / Profibus
- **SAI4229** FAS-212 with Omron PLC / Devicenet
- **SAI4252** FAS-212 with Allen Bradley PLC / Devicenet
- **SAI4312** FAS-212 without PLC



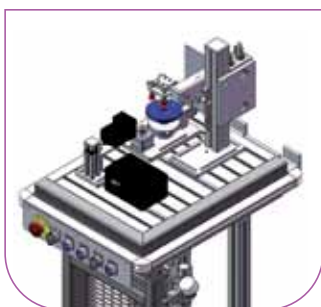
Dim. 450x760x1700 mm.

FAS-213 Robotised screwing station

This screws in the screws inserted in the product in process. It includes:

- Robot arm.
- Robot controlling unit.
- Robot programming console.
- Electric screwing tool.

- **SAI4213** FAS-213 with Siemens PLC / Profibus
- **SAI4231** FAS-213 with Omron PLC / Devicenet
- **SAI4253** FAS-213 with Allen Bradley PLC / Devicenet
- **SAI4313** FAS-213 without PLC



Dim. 450x600x1220 mm.

FAS-214 Transfer and visual inspection station

This performs the quality control for the product in process using an artificial vision system. It includes:

- Insertion/extraction handling device.
- Rotary table with stepper motor.
- Artificial vision industrial system.

- **SAI4214** FAS-214 with Siemens PLC / Profibus
- **SAI4232** FAS-214 with Omron PLC / Devicenet
- **SAI4254** FAS-214 with Allen Bradley PLC / Devicenet
- **SAI4314** FAS-214 without PLC



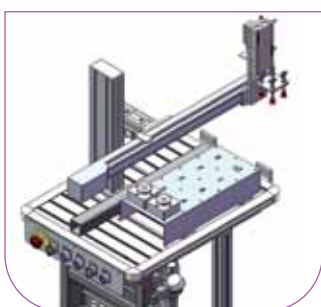
Dim. 450x600x1500 mm.

FAS-215 Rejection station after visual inspection

This rejects the product in process if the inspection result is unsatisfactory. It includes:

- Faulty product removal handling device.

- **SAI4215** FAS-215 with Siemens PLC / Profibus
- **SAI4233** FAS-215 with Omron PLC / Devicenet
- **SAI4255** FAS-215 with Allen Bradley PLC / Devicenet
- **SAI4315** FAS-215 without PLC



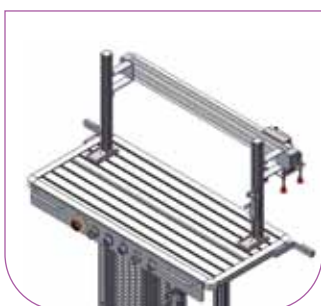
Dim. 450x600x1300 mm.

FAS-216 Storage station

This stores the finished product. It includes:

- Pneumatic vertical axis.
- Positioning axes (one of these is servo-controlled).

- **SAI4216** FAS-216 with Siemens PLC / Profibus
- **SAI4234** FAS-216 with Omron PLC / Devicenet
- **SAI4256** FAS-216 with Allen Bradley PLC / Devicenet
- **SAI4316** FAS-216 without PLC



Dim. 900x410x1310 mm.

FAS-220 Pallet transfer station

This transfers the pallet with the product in process from one transfer to another in a set-up with parallel transfers. It includes:

- Pallet transfer handling device.

- **SAI4220** FAS-220 with Siemens PLC / Profibus
- **SAI4235** FAS-220 with Omron PLC / Devicenet
- **SAI4257** FAS-220 with Allen Bradley PLC / Devicenet
- **SAI4317** FAS-220 without PLC



Dim. 1800x315x940 mm.

FAS-230 Linear transfer for 4 stations

This transports the pallet between the stations. Each transfer connects 4 stations. It includes:

- Double-acting stopper cylinders.
- Inductive detectors.
- Microswitches.
- DC motor.
- Electric and pneumatic connection.

- **SAI4230** FAS-230 linear transfer for 4 stations