

Reference list of electro modification and advancement

- 10/2009** Cup filler type 4200.001 in Germany – S7 control parallel to S5 (all heating control, including sealing area, works with S7 control)
- 11/2009** Form, Fill- and Seal machine type 2300.038 in Spain – new visualization machine (transformation and adaptation Protocol after WinCC flexible) and the installation of a Multi Panel MP 377
- 12/2009** Form, Fill- and Seal machine type 2450.041 in Egypt – new visualization machine (transformation and adaptation Protocol after WinCC flexible) and the installation of a Multi Panel MP 377
- 02/2010** Form, Fill- and Seal machine type 2450.043 in Germany – new Visualization machine (transformation and adaptation Protocol after WinCC flexible) and the installation of a Multi Panel MP 377
- 05/2010** Form, Fill- and Seal machine type Erca in Austria – Integration new packer with two new servos type Bosch Rexroth connected with Profibus DP higher-ranking self-contained S7 control for the packer
- 09/2010** Integration from a sterilization unit into an existing packaging system with independent control, visualization and power units made by Allen-Bradley in the United States
- 01/2011** Form, Fill- and Seal machine type 2801.003 – Integration of a new filling system with Bosch Rexroth Control MLC 25 – Sercos III with 8 drive units
- 02/2011** Form, Fill- and Seal machine type 2450.003 in Germany - S7 control parallel to S5 (3 pieces new servo units SEW for the assembly groups contact heating top/back, pre-stretching and heating control works by S7). Furthermore, we installed a new position sensor on the main drive, which is coupled via Profibus DB to S7, a cam controller implemented in connection with a new visualization
- 04/2011** Cup filler Type 4200.001 in Germany – S7 control parallel to S5 (14 pieces new servo units Type Rexroth Control MLC 45 – Sercos III with heating control by S7)
- 01/2012** Form, Fill- and Seal machine type 2450 in Germany – complete change of S7 including visualization WinCC

- 08/2012** Cup filler type Ampack Ammann – Integration of a new filling system with new Bosch Rexroth control MLC 25 – Sercos III with 4 drive units.
- 09/2012** Form, Fill- and Seal machine type 2600 in Germany – modification drive technology and integration of S7 300control with panel MP177 6 Touch.
- 02/2013** Cup filler type Ampack Ammann in Germany – modification drive technology and integration of a S7 400 control with panel MP377 6 Touch inclusive handling projection and process visualization
- 11/2013** Controlling and und programming for sterile water unit
- 01/2014** New development drive technology on basis Siemens with integrated curves switch for new filler for bag machine type SN Maschinenbau
- 02/2014** Relocation carousel filler type Ampack Ammann from England to Germany; complete re-wiring of the system, translation of the visualization of English in German language, including service configuration and process visualization and adjustment of the casing circuit for full range Ampack Ammann and final packaging with safety - components and integration of a new servo motor drive unit with hardware installation for operation the unit
- 09/2014** New servo drives form, fill- and seal machine type 2801 in Germany. Complete re-wiring of the system, integration of 34 pieces new servo motor drive unit with hardware installation for operation the unit
- 11/2015** New servo drives form, fill- and seal machine type 2801 in Russia. Complete re-wiring of the system, integration of 34 pieces new servo motor drive unit with hardware installation for operation the unit
- 01/2016** New servo drives form, fill- and seal machine type 2608 in Nederland. Complete re-wiring of the system, integration of 12 pieces new servo motor drive units
- 07/2016** Upgrading the 12-piece servo drives on a Form, Fill- and Seal machine type Hassia TAS 28/48 from the year 1996 in Germany including a new S7 control and installation. Reinstallation of complete servo feeding.
- 04/2017** Upgrading the 3 piece of servo drives to a form, fill and sealing machine type 2300 built in 1999 in Spain included installation and new control S7. Reinstallation of complete servo feeding.
- 09/2017** Upgrading the 6 piece of servo drives to a form, fill and sealing machine type 2450 built in 1999 in Egypt included installation and new control S7. Reinstallation of complete servo feeding.

- 08/2018** Upgrading the 10 piece of servo drives to an FFS machine type 2300 built in 1999 in Spain included installation.
- 09/2018** Electrotechnical upgrade on a form, fill- and seal machine type Finnah in Germany to SIMENS S7 including visualization and modernization of an FFS in Germany.
- 01/2019** Upgrading the 20 piece of servo drives to a form, fill and sealing machine type 2608 built in 2003 in Israel included installation and new control S7 plus modification of filler. Reinstallation of complete servo feeding.
- 07/2019** Electrotechnical upgrade to SIMENS TIA including visualization and modernization of a Hamba cup filler in Germany.
- 07/2021** Electrotechnical upgrade of an FFV to SIMENS S7 including visualization, installation of a new 24-fold dosing station and modernization in Germany.
- 05/2022** Electrotechnical upgrade on a form, fill and seal machine – type Finnah - type 2.801, Germany location - machine upgraded with 32 servo motor drives and new TIA control, as well as a new installation of the servo power supply.
- 05/2022** Electrotechnical upgrade on a form, fill and seal machine - type Finnah - type 2.601, location Germany - machine upgraded with 25 servo motor drives and new TIA control, as well as a new installation of the servo power supply.
- 01/2023** Form, fill- and seal machine make Finnah, type 2450 - to produce thermised yoghurt - Machine relocation. Retrofitted with the following function modules: new servodrive technology, new plc - based on TIA, complete new electrical hardware, new format parts, new VDB dosing module - 12-fold.
- 01/2023** Form, fill- and seal machine make Finnah, type 2209 - to produce coffee creamer - Machine relocation. Retrofitted with the following function modules: new servodrive technology, new plc - based on TIA, new format parts.
- 07/2023** Form, fill- and seal machine - make Finnah - type 2.608, location Germany - Machine retrofitted by 47 pcs. servo motor drives and by new Siemens TIA control. New installation of the servo power infeed. Carrying out the risk assessment
Renewal of the safety device

- 07/2023** Form, fill- and seal machine make Finnah, type 2209 - to produce jam - Machine relocation. Retrofitted with the following function modules: new servodrive technology, new plc - based on TIA, new format parts, new VDB dosing modul
- 10/2023** Form, fill- and seal machine - make Finnah - type 2.608, location Germany - Machine retrofitted by 47 pcs. servo motor drives and by new Siemens TIA control. New installation of the servo power infeed. Carrying out the risk assessment
Renewal of the safety device
- 03/2024** "Form, fill and seal machine - GEA Finnah manufacturer, Germany location - machine upgraded with:
- new servo motor drives
- new control cabinet
- new electrical machine installation
- new TIA control
- new pneumatic installation
- implementation of risk assessment
- renewal of safety equipment"
- 12/2024** Bottle filler - make Asbofill 710, location Germany
Renewal of a visualization system that is now over 20 years old, which is no longer possible to maintain and runs unstably. Our visualization system is based on Siemens' latest software platform "TIA WinCC- Unified".

In addition, an S7-1516 PLC controller was installed, which takes over the new recipe management and exchanges the corresponding parameters with the basic machine.
This is the cornerstone for future upgrades of e.g. machine or servo control.
- 04/2026** Rotary filler - make Grunwald, location Germany - Machine retrofitted by servo motor drives and by new Siemens TIA control. New installation of the servo power infeed.
Carrying out the risk assessment
Renewal of the safety device