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KWS SAAT SE:
Mobile Automation System for Sugar Beet
Harvester PUMA II

Heineken Italy:
Brewhouse Migration to brewmaxx V9

Trade fair & Training dates 2017



KWS SAAT SE: **Mobile Automation System for Sugar Beet** **Harvester PUMA II** www.kws.com

KWS, a company from Lower Saxony, has been breeding crops for more than 150 years. Its main business activities are focused on breeding and selling sugar beet, corn and cereal seeds. The KWS Group is the fourth-largest seed company based on the sale of agricultural crops (as of October 2016).

In March 2015, ProLeiT AG was commissioned to develop a sampling system for the sugar beet harvester PUMA II. The system automated with Plant Direct iT V9.00 FP 3 enables the mobile sampling of sugar beets directly in the field: The gross weight of the sugar beet harvested by the PUMA II is initially recorded before the machine cleans the beet to remove any soil attached to it. The sugar beet is then weighed again to determine the net weight before

being sliced in a slicer. A spectrometer is used to determine the amount of sugar and thus the quality of the respective sample. If desired, it is also possible to take a pulp sample which is immediately frozen on site and sent to the KWS laboratory in Klein Wanzleben for analysis. Mobile sampling and analysis occurs fully automatically; the required power is supplied by 24V batteries which are charged by the PUMA II's alternator.

This project, which was completed successfully in October 2016, is the fourth time ProLeiT AG and KWS have worked together in the area of mobile systems. Each year, this special type of sampling is used on roughly 20,000 parcels of land in Germany. It gives KWS the added advantage of being able to interconnect stationary and mobile systems via a comprehensive process control system and to analyse data collected in the field at a central location.



Heineken Italy: **Brewhouse Migration to brewmaxx V9** www.heineken.com

Heineken, Europe's largest brewery group, has been producing beer in Italy for over 40 years. In June 2014, ProLeiT AG was commissioned to migrate the brewhouse of the Heineken facility in Common Nuovo/Bergamo to brewmaxx V9. This migration process included replacing the existing MES "Proficy" with brewmaxx Integrate and implementing a three-stage installation of various modules: After linking the brewhouse to the SAP system, the ProLeiT experts integrated varying reports for analysing errors and optimising the plant. These included, for instance, a customisable first-time-right report (FTR) and an exception report. While the FTR report monitors and outputs parameter-driven values for all brews, the exception report searches for any specification violations and only outputs critical and deviating values. Moreover, the FTR report enables the parameterisation of values as a drill-in option, thus

allowing users to determine interdependencies between individual values. Production-related reports and data analyses can now be created in Bergamo with just a few clicks. Reports from individual or several brews can, for example, be presented in Excel spreadsheets using a customisable export function. It is possible to use the web portal of the MES solution brewmaxx Integrate to execute detailed evaluations and analyses via a browser. To do so, two further front ends, besides the system standards, have been generated to provide a rapid overview of all value deviations during a specific time period (variable centerline analysis) or the statistical evaluation for a specific value (variable statistics summary). All report and status front ends are web-based and can thus be retrieved from every computer in the local network without prior installation. The project was completed successfully in June 2016.



The year 2016 is coming to an end. We wish you, your staff and your family a very Merry Christmas and a prosperous 2017. We would like to take this opportunity to thank you for your support, trust and dedication, and look forward to working with you in the year to come.

Trade fair & Training dates 2017

www.proleit.com

The new training programme dates for 2017 can be found under: [Course overview](#). Check out our website for more details about individual courses and use our online registration form. Feel free to send us an email if you have any questions about ProLeiT training courses: training@proleit.com. We will once again be represented at numerous trade fairs around the globe in 2017. A list of all the events can be found on our website: www.proleit.de/trade-fairs-events. We look forward to meeting you at the trade fairs. We would like to take this opportunity to wish you a very Merry Christmas and a prosperous 2017!

	Trade fair	City/Country	From	Until
Germany	European Coatings Show	Nuremberg	04.04.2017	06.04.2017
	interpack	Düsseldorf	04.05.2017	10.05.2017
	Schüttgut	Dortmund	10.05.2017	11.05.2017
	drinktec	Munich	11.09.2017	15.09.2017
	südback	Stuttgart	23.09.2017	26.09.2017
	Powtech	Nuremberg	26.09.2017	28.09.2017
International	Dairy & Meat Industry	Moscow / Russia	28.02.2017	03.03.2017
	ProFood Tech	Chicago / USA	04.04.2017	06.04.2017
	Craft Brewers Conference & BrewExpo America	Washington D.C. / USA	10.04.2017	13.04.2017
	Food Automation and Manufacturing	Naples / USA	23.04.2017	26.04.2017
	Bakery China	Shanghai / China	10.05.2017	13.05.2017
	China Craft Beer Conference & Exhibition	Shanghai / China	17.05.2017	19.05.2017
	Fispal Tecnologia	São Paulo / Brasil	27.06.2017	30.06.2017
	Brasil Brau	São Paulo / Brasil	26.07.2017	28.07.2017
	Process Expo	Chicago / USA	19.09.2017	22.09.2017
	Food Technology Summit & Expo	Mexico City / Mexico	27.09.2017	28.09.2017
	Agroprod mash	Moscow / Russia	09.10.2017	13.10.2017
	Master Brewers Annual Conference	Atlanta / USA	12.10.2017	14.10.2017
	Gulfood Manufacturing	Dubai / United Arab Emirates	31.10.2017	02.11.2017