VALMET AUTOMOTIVE

The Kirchardt battery plant – production site and competence center

Manuel Ötsch at Grand Opening of the Kirchardt Battery Plant, Press conference and event June 30, 2023

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NEW BATTERY PLANT KIRCHARDT – NEXT TO THE OEMS





VA employees in Baden-Württemberg





NEW BATTERY PLANT KIRCHARDT – GREEN LIGHT FOR THE BROWNFIELD

- Site selection started Q1 / 2020
- BoD approval given in Q4 / 2020
- Lease contract signed in Q1 / 2021 with Calibrium
- ADS Architects selected for planning purposes
- Partnership and contract signed with Fortum in Q3 / 2022
- Recruiting started end of 2020 (end 2021 = 7; end 2022 = 47)
- Successful collaboration with the mayor and the local authorities



Nomination first customer project in Q1 / 2020, contract for Kirchardt plant signed Q1 / 2021, first pre-series production started in Q3 / 2022, Inauguration + first SOP in Q2 / 2023



NEW BATTERY PLANT KIRCHARDT – PLANT 'ARCHITECTURE' VA BATTERY PLANT KEY FACTS



Key facts

- Plot: approx. 60,000 m²
 - Current usage: 11,500 m²
 - Immediately extendable by further 15,000 m²
- Lease contract signed 2021
- Total invest: higher double digit million EUR
 - 2 production lines, 2 products
 - PHEV, cell module and pack
 - BEV, pack assembly
 - Option to double capacity
- Other areas, e.g. logistics, offices
- Battery recycling by Fortum
- Employees: approx. 160 headcount



NEW BATTERY PLANT KIRCHARDT – PRODUCTION PROCESSES

		Site flexibility Autonomous organization		Extension of production space possible short-term by further ca. 15,000 m ²
				Full production scope can be planned and executed in Kirchardt
	Pr	Process know-how		Vertical integration in many applications, e.g. bending, cutting, laser welding, gluing, screwing, Tightening testing & EoL testing
	Automation level for		I A	or large and small series
	Just ca	in sequence apabilities	JIS to	delivery in 3 shifts with short distances the OEM plants
Team mix		Your expe	ng, motivated team with Tier-1 and OEM prience	



Kirchardt plant is more than a site for battery assembly – it is a process know-how and competence center



NEW BATTERY PLANT KIRCHARDT – SELECTED PROGRAMS

Program	PHEV – module and pack assembly	BEV – pack assembly	
Planning start	Q1/2020	Q3/2020	
SOP	Q1/2023	Q3/2024	
Line concept	Low volume line	High volume line	
Line builder – building process	 Line design and process developed jointly with AVL and PIA Automation From SOP on in full responsibility of VA 	 Line design developed with Schmid Full responsibility at VA 	

Broad scope of activities e.g., from module to pack, low volume to high volume, PHEV to BEV



VA BATTERY PLANT KIRCHARDT - LEAN ORGANIZATION MODEL

Managing director								
Production director Logistics Maintenance	Focus Factory Manager Customer 1 • Production Supervisors	Focus Factory Manager Customer 2 • Production Supervisors						
ME/IE Change management	 Quality Maintenance Scheduling 	 Quality Maintenance Scheduling 						
QHSE								
Project management								
Purchasing								
HR								
Finance								
ICT								

Selected benefits

Factory level responsibility



- Central department can **focus** on advanced engineering tasks
- **Customer specific** managers (incl. supervisors, planners)
- Strong support functions

New modern organization model with focus on customer centricity and factory level enhanced responsibility, especially for manufacturing engineering (ME), a key Valmet Automotive core competence



SUSTAINABILITY & CO₂ NEUTRALITY IN OUR OPERATIONS

Sustainability & CO₂ neutrality at Valmet Automotive



Measures at Kirchardt plant

- Photovoltaic on the roof planned
- Charging stations for EVs
- Local employees
- Reusable packages, from recycling material
- Electric floor vehicles
- Cloud based infrastructure
- Hybrid heating system

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Battery recycling capabilities nearby with reusage of energy



VA is committed to a 'true green' approach in production and supply chain – in our Kirchardt plant, various measures are in place and regularly reviewed

Note: Ca. 8,000 tons of CO_2 were compensated end of 2021, e.g., for fossil fuel oil in Uusikaupunki plant Source: Valmet Automotive



THE FAST LANE TO FUTURE VEHICLES



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