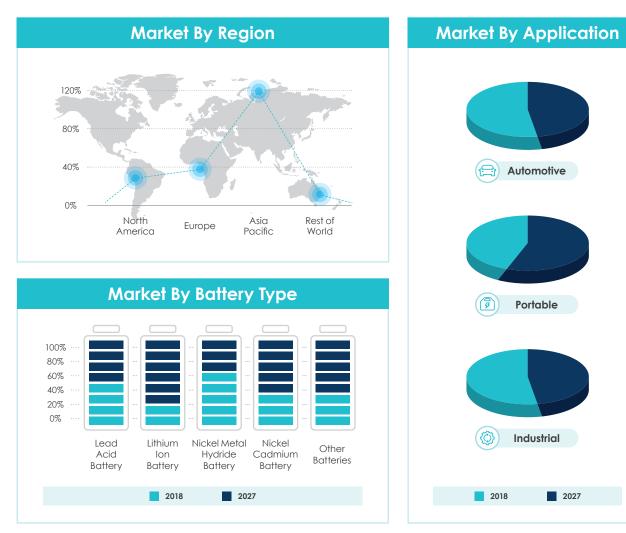
Global Battery Market Forecast (2019 - 2027)

* Source : Inkwood Research



Major References								
SAMSUNG DISPLAY	ELECTRONICS	SAMSUNG ELECTRO-MECHANICS	SAMSUNG SAMSUNG SDI	C LG Electronics	🚯 LG Innotek			
🚯 LG Energy Solution	SK hynix	SK innovation	SK nexilis	SKC	SKC solmics			
KSREAN AIR	<u>KAI</u>	MOBIS		() Hanwha Defense	() Hanwha Techwin			
AMOREPACIFIC	CJ CHEILJEDANG				Dong Sung FINETEC			
HYOSUNG TNS	ЕсоРго _{вм}		WISOL	Technology*	SFR SEMICON			
T KUMHO TIRES	SEJONG INDUSTRIAL CO.,LTD.	<i>CT</i> .?	″/G	LIG Nex1	Hansol Paper			

About THIRA-UTECH

Smart Factory & Logistics **DX Solution Provider**

Founded in 2006, THiRA-UTECH is a public company dedicated to providing top-notch solutions for smart manufacturing and smart logistics. We offer professional consulting and advanced solutions such as Manufacturing Execution System (MES), Supply Chain Management (SCM), Production Planning System (APS), Quality Management System (QMS), Warehouse Management System (WMS), big data analytics, cloud services, and Autonomous Mobile Robot (AMR). THiRA-UTECH cares about our customers' success, and we have a successful track record with many conglomerate companies across various industry sectors including semiconductor, electronics, automotive, display, secondary battery, chemical, airline and etc. In October 2019, THiRA-UTECH became the first company in the smart factory industry to become KOSDAQ-listed.

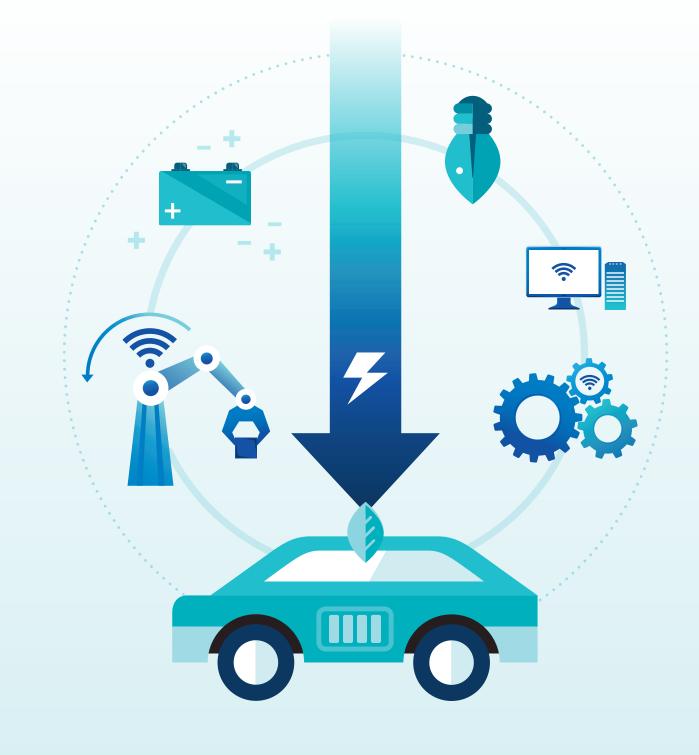
www.thirautech.com THIRA-UTECH

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www.thirarobotics.com Unit 304, 388, Dunchon-daero, Jungwon-gu, Seongnam-si, Gyeonggi-do, South Korea (13403) **TEL |** +82-31-732-6531 / **FAX |** +82-31-732-6532 E-mail | sales@thirarobotics.com

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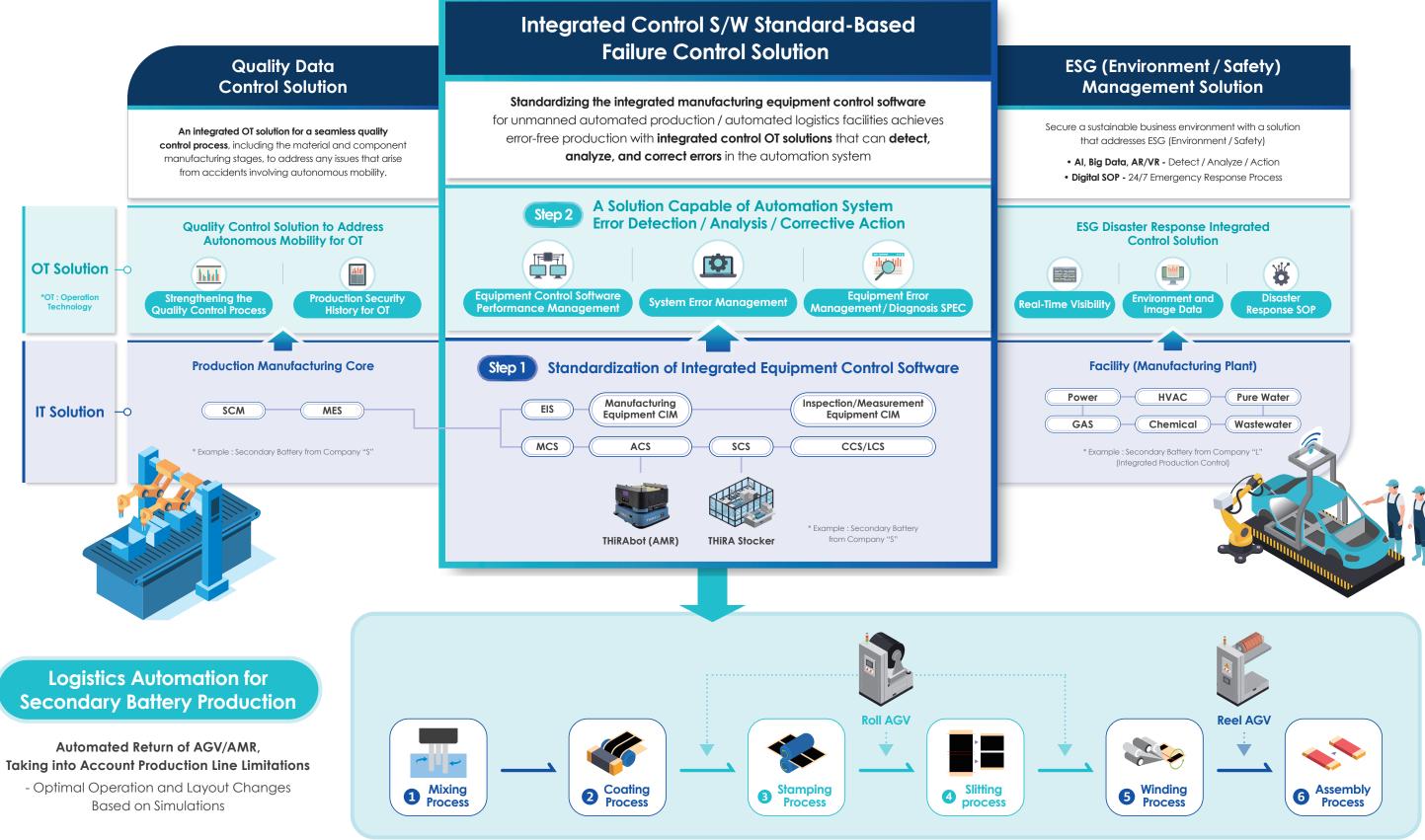
Secondary Battery · Electric Vehicle (EV) **Smart Factory Solution**





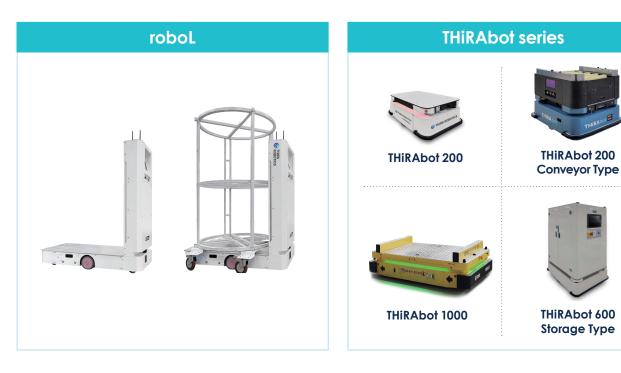
THIRA-UTECH

Our Secondary Battery / EV Smart Factory Solution is a Combination of Information Technology (IT) + Operation Technology (OT).



Autonomous Mobile Robot (AMR)

All Robots are 100% Designed and Manufactured in-House.



Model	roboL	ThiRAbot Series					
		ThiRAbot 1000	ThiRAbot 600	ThiRAbot 300	ThiRAbot 200		
Dimensions (W x L x H, mm)	600 X 1,100 X 1,200	1,400 X 2,000 X 650	720 X 900 X 320	500 X 700 X 340	500 X 700 X 340		
Maximum Load (Kg)	200	1,000	600	300	200		
Stop Precision (mm)	±10	±100	±5	±5	±5		
Maximum Speed (m/s)	1.0	0.94	1.00	1.10	1.10		
Battery [V][A]	Li-ion 24[V]40[Ah]	LiFePO4 51.2[V]113[Ah]	Li-ion 48[V]40[Ah]	Li-ion 24[V]40[Ah]	Li-ion 24[V]40[Ah]		
Application Areas	Stores, Hospitals, Warehouses	Construction Site, Cargo Transport	Factory Automation, (Transfer of Raw Materials and Products)	Factory Automation, Logistics Warehouse Automation	Factory Automation, Logistics Warehouse Automation		
Features / Navigation	Al Human Tracking, Autonomous Driving AMR	Stereo Camera + LiDAR, Al Human Tracking, Autonomous Driving AMR	Hybrid SLAM, Autonomous Driving AMR	Hybrid SLAM, Autonomous Driving AMR	Hybrid SLAM, Autonomous Driving AMR		

