

Aluminum lightens the world アルミでかなえる、軽やかな世界

The UACJ Group's Automotive Parts Business

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June 7, 2023 UACJ Corporation



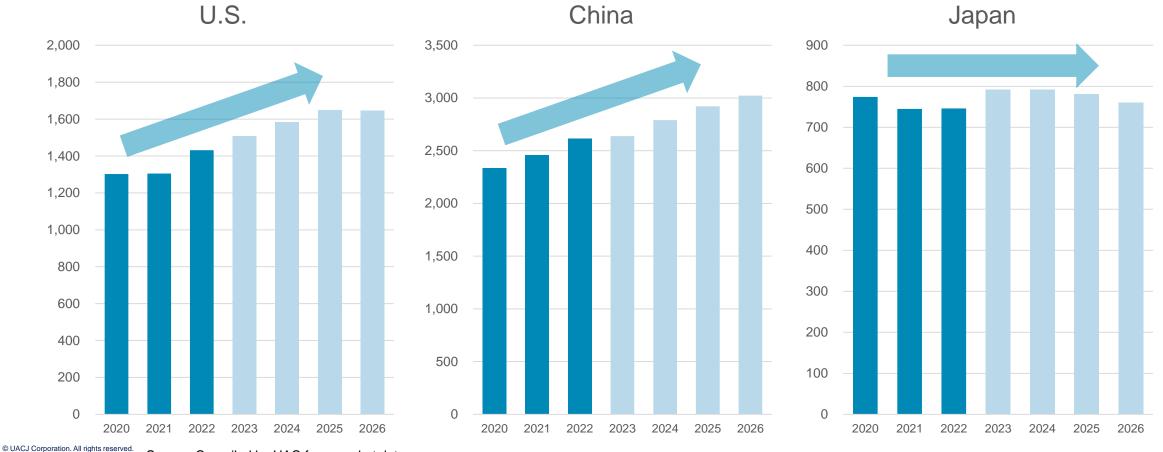
Market Conditions



Toward Recovery in Automobile Production and Demand

With cessation of global supply chain disruptions, markets are expected to recover in the medium to long term

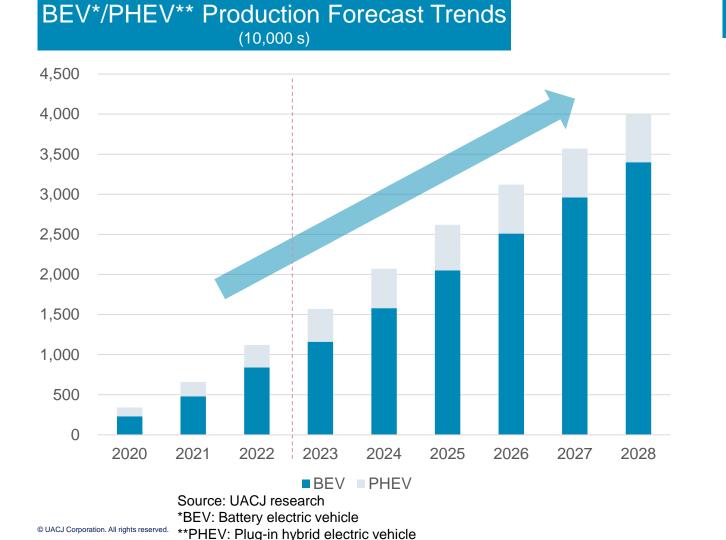
Production Trend and Forecast by Country (units: tens of thousands of vehicles)



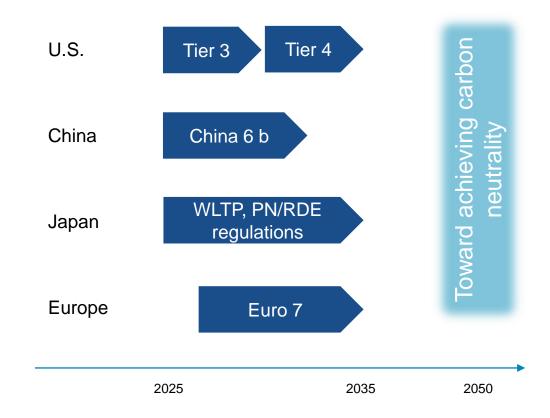
Source: Compiled by UAC from market data

Growing EV Demand to Reduce Environmental Impact

As countries around the world aim for carbon neutrality in 2050 and the demand for decarbonization increases, demand for electric vehicles will grow rapidly



Fuel Efficiency Regulation Schedule by Region



Why Aluminum is Used for Automotive Parts

Aluminum is an effective option in electrification of vehicles to reduce CO₂ emissions and lower environmental impact

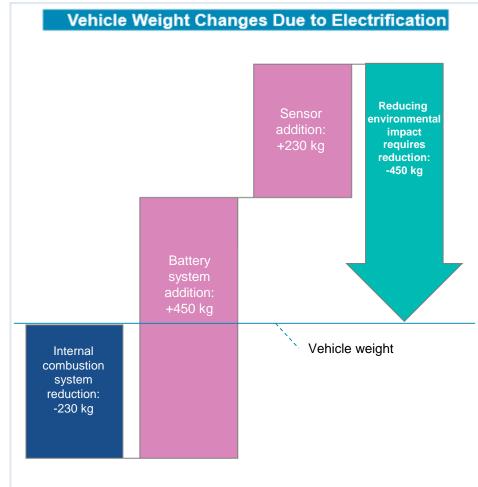
Aluminum's contributions

Weight reduction in vehicle bodies
Reduced environmental impact

- Aluminum's advantages
- Lightweight, shock-absorbing (e.g. for bumpers)
- Light and strong with high specific strength (strength-to-weight ratio)
- Recyclable many times into the same product with minimal use of energy

Benefits from using aluminum

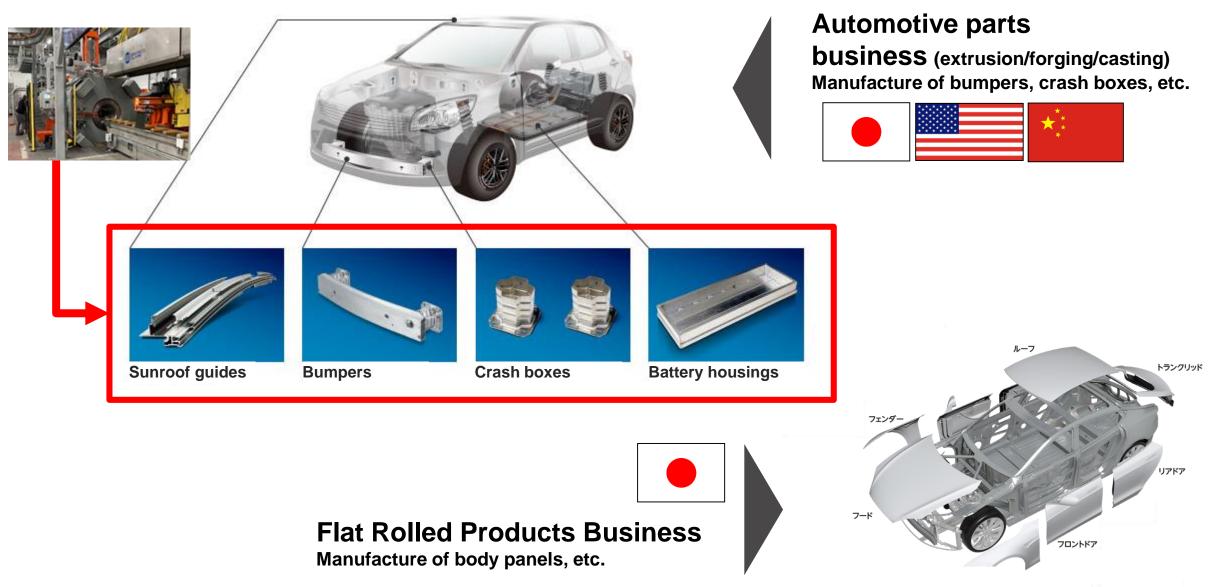
- Lighter body weight improves fuel economy and extends driving range
- Easier horizontal recycling reduces environmental impact



Automotive Parts Business Domain



Scope of UACJ Group Business in Automotives



Why UACJ is a Preferred Provider



Strengths of UACJ's Automotive Parts Business

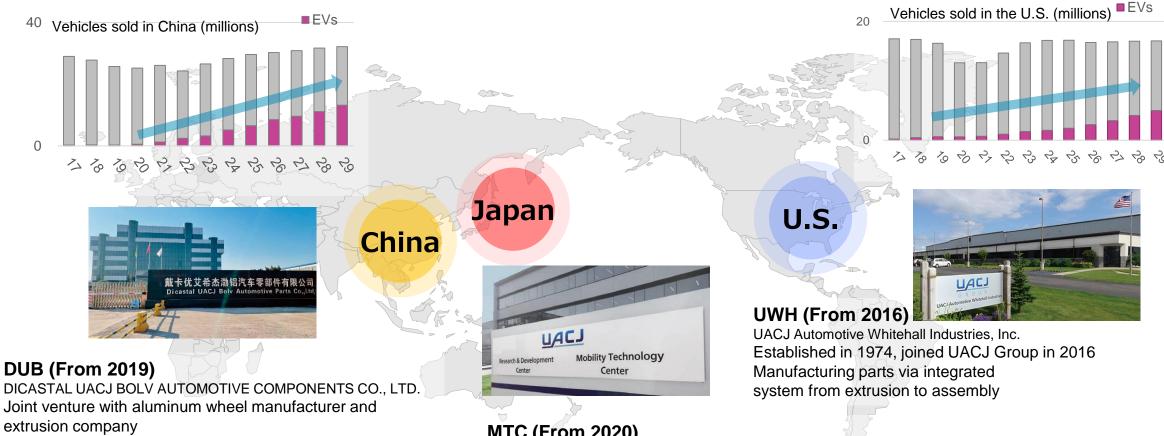
Development and manufacturing system with access to regions and markets with high needs for lighter weight

One-stop service system from material development to parts processing

Meticulous consultation/prototyping services during development, mainly for Japanese OEMs, helps accelerate customer development

Automotive Parts Business Division: Global Network

Development and manufacturing system with access to regions and markets with high needs for lighter weight



Mass production of automotive structural parts began in 2021

MTC (From 2020)

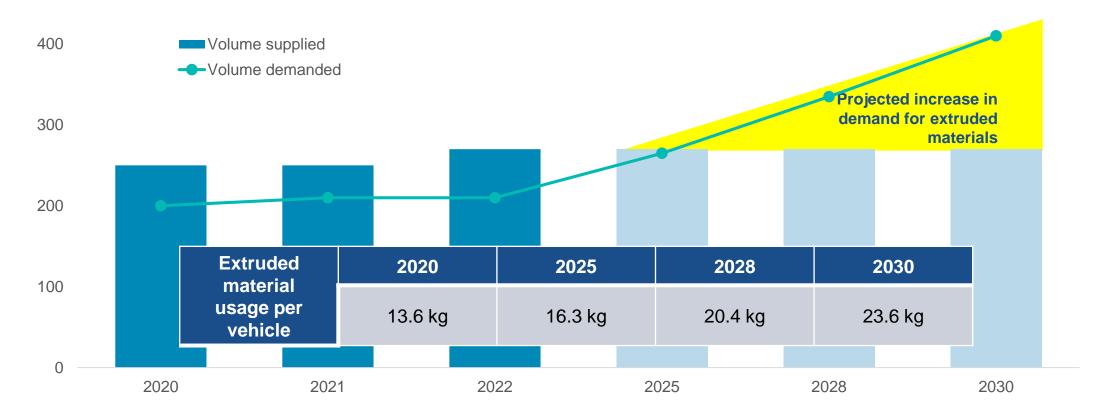
Mobility Technology Center

Newly established as a global development base for the automotive parts business Enables rapid proposal-based development in collaboration with each manufacturing site

Rapid Growth Expected in Aluminum Extruded Material Demand

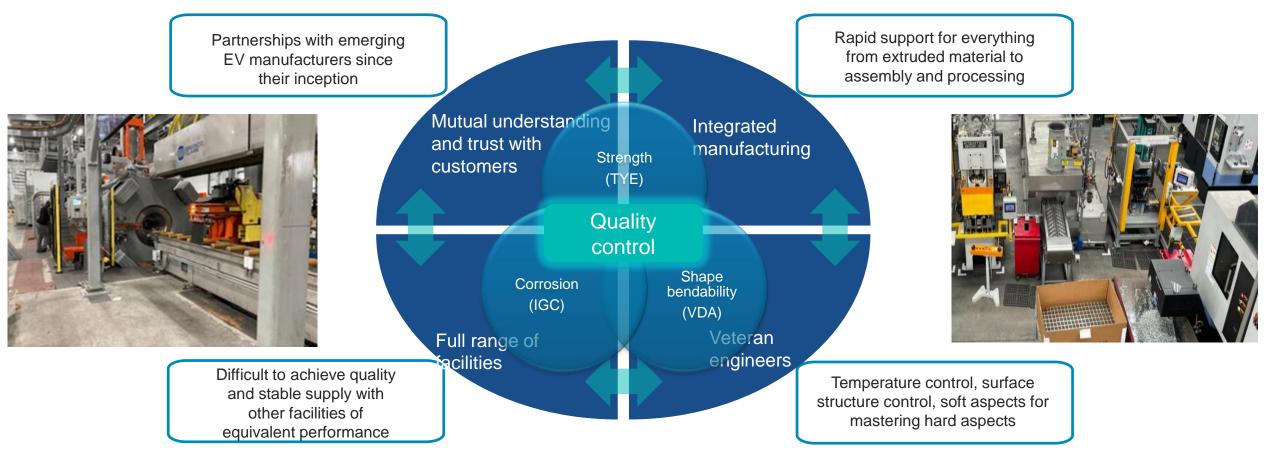
North America is expected to experience supply shortages as the adoption of extruded materials increases in line with the need for lighter vehicles. UWH has already installed several additional extrusion presses and will be able to appropriately capture the growing demand

Demand/Supply Outlook for Aluminum Extruded Material in the U.S. (thousands of tons)



One-stop System from Material Development to Parts Processing

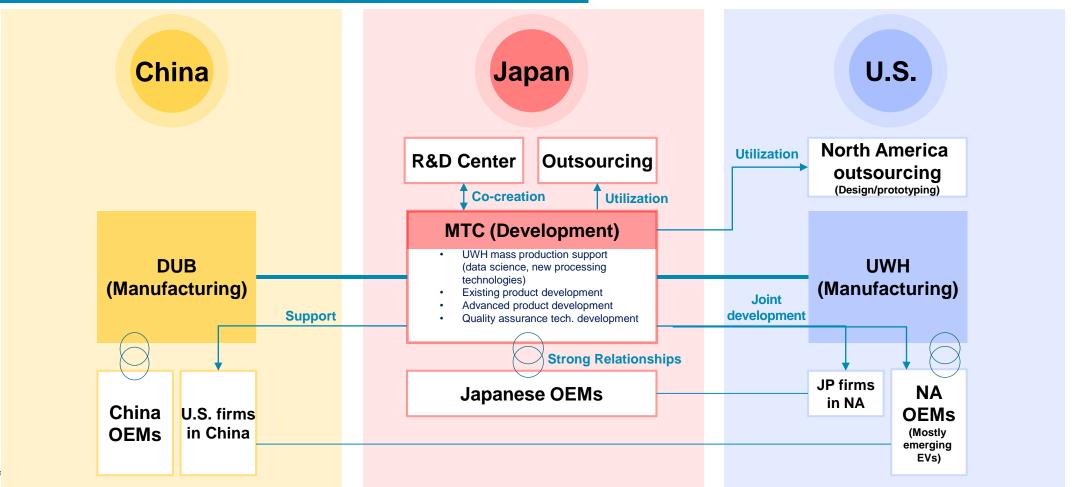
UWH's unique processes meet the diverse needs of our customers Empowering manufacturing through combination of skills and techniques cultivated over the years, including facilities, manufacturing conditions, and expertise



UACJ Group Development and Manufacturing Structure

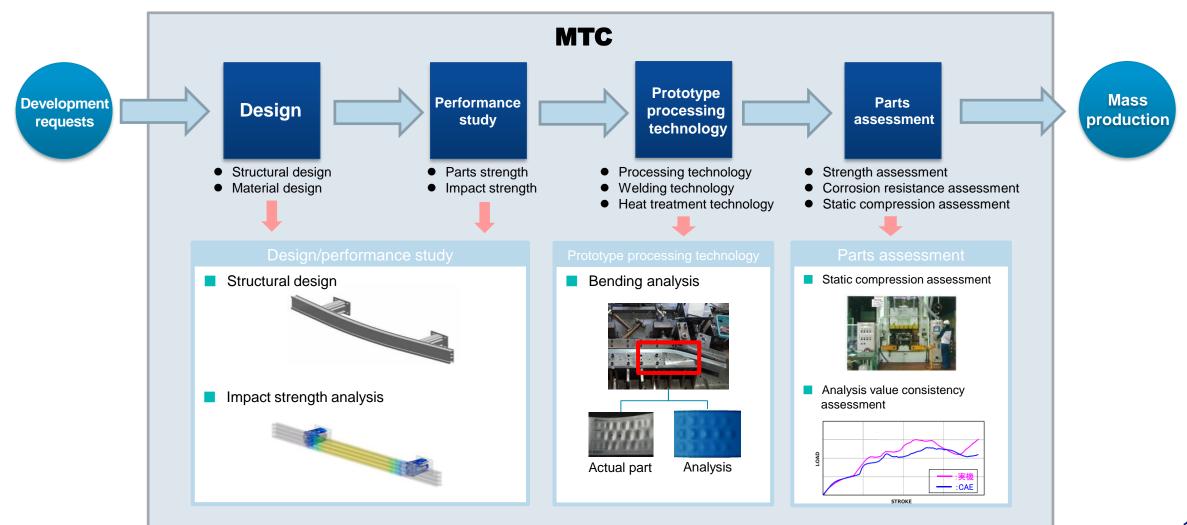
Established a three-point network throughout Japan, the U.S., and China, with production bases in high-demand areas. A development system is in place adapted to next-generation technologies, such as technological innovation and electrification, with an eye to CASE

UACJ Group's Global Development and Manufacturing Structure



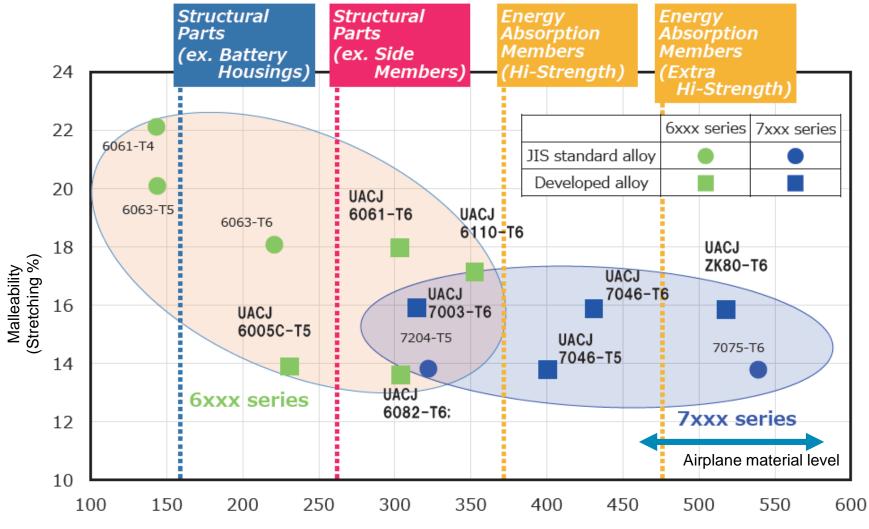
MTC Development Efforts

Actively participating from the advanced development phase of parts and building a system to support development and prototyping



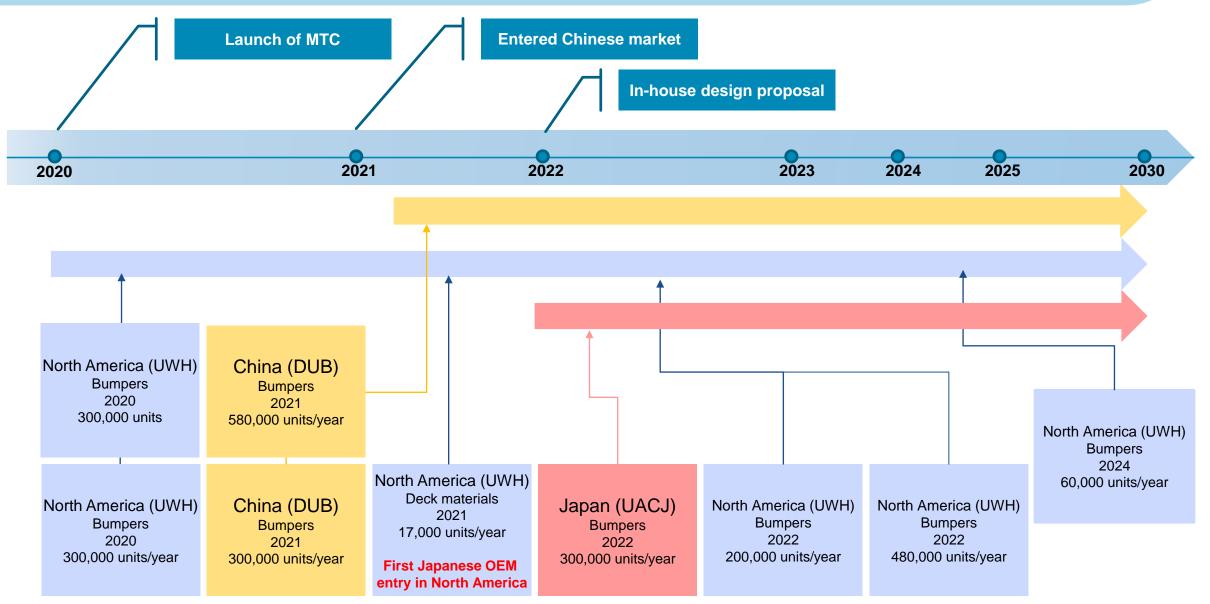
Product Development Maximally Leveraging Cultivated Skills and Techniques

Wide range of product lineup to meet diverse customer needs



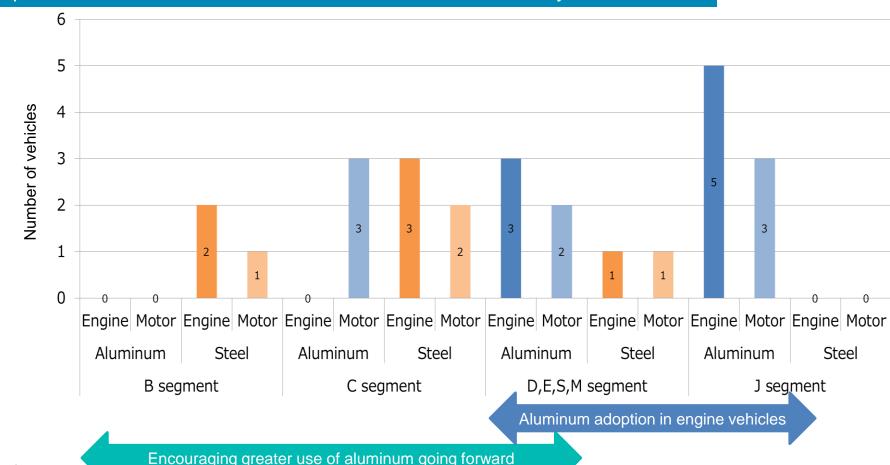
Strength (MPa)

Products Developed Jointly With Customers



Trends in Adoption of Bumper Beam Materials

There are many examples of aluminum adoption in the D-segment and above, and no examples of adoption in engine vehicles in the C-segment and below. We will promote development so that the adoption of aluminum will grow alongside electrification progress

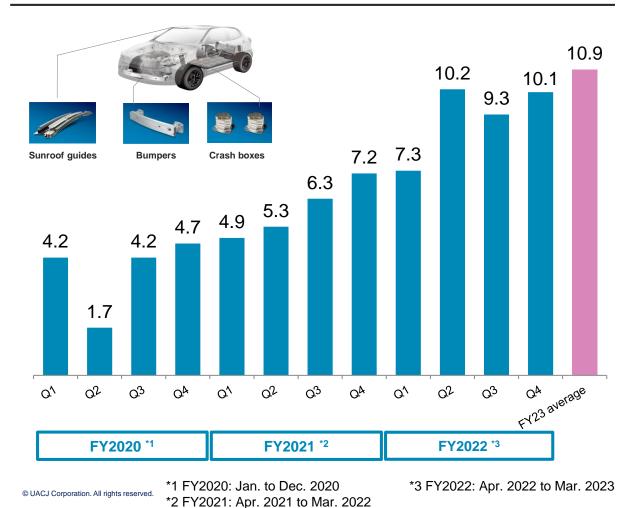


Bumper Beam Materials in Vehicles Exhibited in Euro Car Body, 2019 to 2021

Automotive Parts Business: Status of UWH

Despite new line introduction in FY2022 based on customers' sales plans, actual demand was delayed due to automotive production disruptions

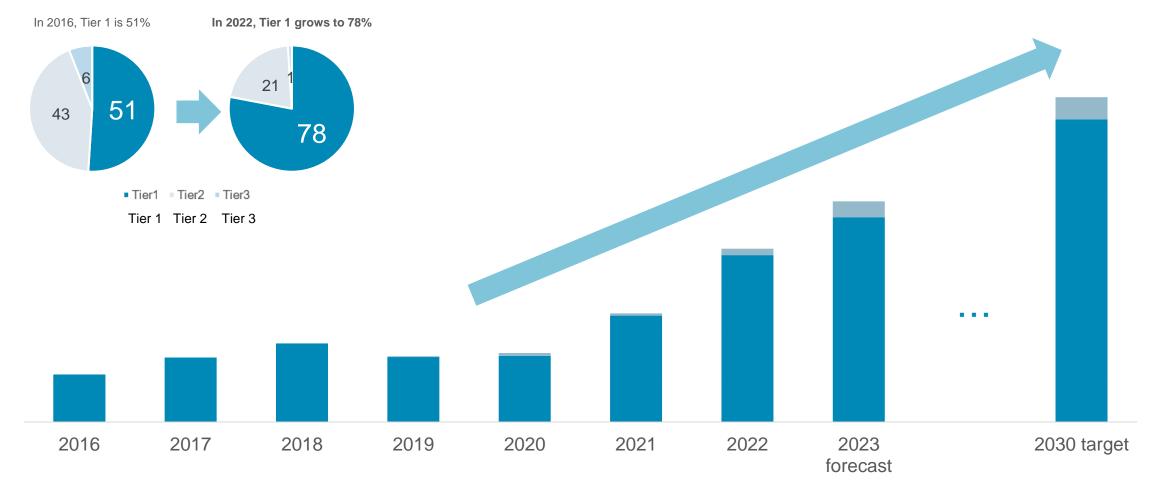
UWH Net Sales Over Time (billions of yen)



FY2022 Su Market : environment	disru In the ו	e is a prevailing a uption due to ser e mid- to long ter cted to increase	miconductor sh rm, demand for	nortages, etc. U.Smade EVs	is Buy
Sales :	Amer • Nego again disru dema • Sales	rican Act tiations are undenst sales fluctuat ptions, which ha	erway with cust tions due to aut as resulted in a	tomers to guara to production delay in actual	ntee
Production : system	•New affect	roduction line s ted by low capac mating, reducing	city utilization		very
Profit:		FY2021	FY2022	FY2023 (Plan)	
Net sales		23.7	36.9	43.5	
Operating income		(1.5)	(2.8)	2.2	
Ordinary income before inventory valuation effects		(1.8)	(4.4)	0.6	
Ordinary income		(1.8)	(4.2)	0.7	18

Automotive Parts Business Division: Net Sales

Focusing on rapidly achieving profitability at UWH by eliminating effects of automobile production disruptions caused by semiconductor shortages, etc.



■ UWH ■ Japan (domestic)



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