

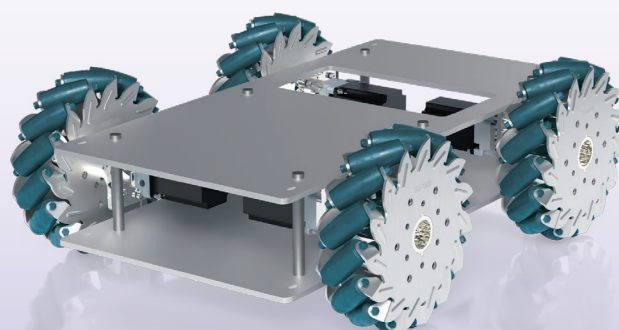
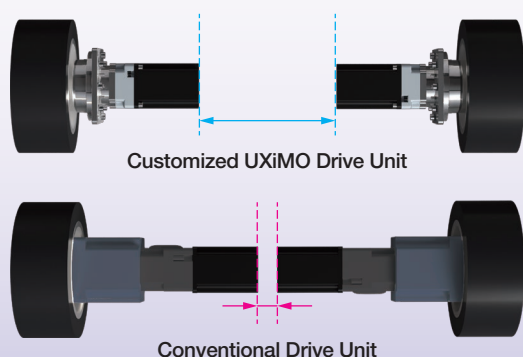
Customer
Solutions!

High Stiffness,
Optimized for Mobility

UXiMO

Custom for Mobility

UXiMO offers customized torque-optimized performance for the specific needs of mobility applications.



A Drive Unit That Expands Design Flexibility

UXiMO Custom for Mobility enables a more compact drive unit design. The space saved allows greater flexibility in the placement of batteries, control units, and other components, giving designers more freedom to optimize vehicle layouts.

Reliable Performance Under Multi-Directional Loads

Mecanum wheels experience radial and thrust loads simultaneously during operation. The high-stiffness design of UXiMO Custom for Mobility is engineered to withstand these combined loads, helping deliver stable mobility performance and exceptional durability.

UXiMO Custom Lineup



Type	Frame Size	Reduction Ratio
DGS	010	1/19 · 1/29 · 1/49
	030	1/19 · 1/29 · 1/49
	050	1/19 · 1/29 · 1/49



Type	Frame Size	Reduction Ratio
DGH	080	1/19 · 1/29
	150	1/19 · 1/29

Item		DGS010			DGS030			DGS050		
		1/19	1/29	1/49	1/19	1/29	1/49	1/19	1/29	1/49
Starting Torque [cN·m]	Standard Spec.	14.1	11.6	8.9	20.1	16.0	12.3	30.5	23.6	15.3
	Custom Spec.	6.0	5.8	5.3	13.0	8.8	6.0	18.5	14.2	13.2
No Load Running Torque [cN·m] @2,000r/min	Standard Spec.	11.0	10.0	8.3	18.0	16.9	14.1	28.8	27.5	23.6
	Custom Spec.	9.1	7.7	7.3	13.3	13.1	12.6	23.3	20.1	15.4
Backdriving Torque [N·m]	Standard Spec.	4.4	4.6	5.0	6.2	6.6	7.0	9.3	9.8	9.7
	Custom Spec.	2.0	2.4	2.8	2.1	2.2	3.2	3.8	4.1	6.4

Item		DGH080		DGH150	
		1/19	1/29	1/19	1/29
Starting Torque [cN·m]	Standard Spec.	64.0	64.0	112.0	112.0
	Custom Spec.	24.0	23.0	48.0	39.0
No Load Running Torque [cN·m] @2,000r/min	Standard Spec.	87.8	75.6	137.5	120.3
	Custom Spec.	79.0	68.0	123.8	108.3
Backdriving Torque [N·m]	Standard Spec.	35.0	35.0	57.0	57.0
	Custom Spec.	7.5	9.0	10.0	12.5

*Measurement conditions: Values were measured after a 2-hour warm-up operation at an input speed of 2,000 r/min. *The values shown in the table above are for reference only and may vary depending on operating conditions.

Facing Challenges in AGV and AMR Design?

Reduce peak current during startup

Extend battery operating time

Reduce drive unit size

Need an optimized solution for $\phi 150$ -200 mm wheels

Use a smaller motor

Integrate a control unit into the vehicle

UXiMO Custom for Mobility enables the design of high-load, high-speed, and compact AGVs

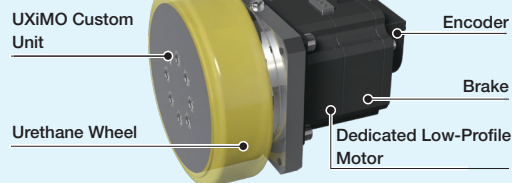
- Reduced startup peak current through lower starting torque
- Lower starting, running, and backdriving torque than conventional models
- Smooth acceleration reduces vibration and shock
- Compact design provides greater vehicle layout flexibility

Custom Drive Unit Solutions Made Possible with UXiMO

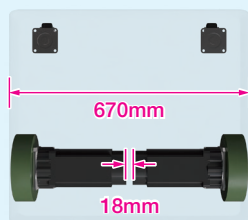
UXiMO Custom for Mobility | Recommended Configuration

In-Wheel Drive Unit

An example of an AGV/AMR drive unit combining a dedicated low-profile motor with UXiMO. We can recommend an optimal drive unit configuration based on your layout constraints and performance requirements.

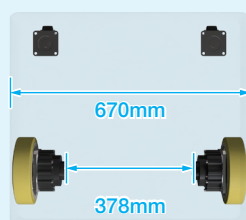


Conventional AGV Motor + Reducer

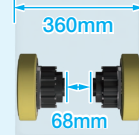


In-Wheel Integration

Dedicated Low-Profile Motor + UXiMO Custom Unit
Contact us to discuss the optimal unit configuration for your application.



Smaller Frame Size



UXiMO
Custom for Mobility

Custom specifications not shown in this brochure are also available. Please contact us to discuss your specific requirements.

*For details regarding delivery times and pricing, please contact your sales representative.

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