

The Autonomous DriveMod Tugger

MODEL MT-160



YOUR MOTREC TUGGERS COULD BE DRIVING THEMSELVES.

Cyngn brings autonomy to our Tugger, transforming it into an autonomous vehicle that can automate hauling workflows like transferring goods and delivering supplies. DriveMod, Cyngn's Al-powered technology, enables intelligent, realtime decisions, delivering materials to the right place at the right time – automatically.

With 360° visibility for unmatched safety and 12,000+ pounds of towing capacity, this autonomous upgrade by Cyngn outperforms human drivers, ensuring faster and more efficient material handling throughout your entire facility.





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EAGLE-EYE VISIBILITY

The DriveMod Tugger is equipped with Cyngn Insight, Cyngn's autonomous FMS, enabling you to manage, monitor, and control your self-driving vehicles. The bundled suite of analytics tools also surfaces opportunities to optimize your operation.

For example, you will get a complete view of where your tuggers are and how they are being used. And you'll be able to leverage data to plan and deploy new or existing missions that will help you get more done.

Track Key Metrics:

- Location
- Battery
- Current Mission
- Network Status
- Metrics
- KPIs and Productivity

24/7, 360°AWARENESS TO KEEP YOUR PEOPLE SAFE

The DriveMold Tugger comes equipped with redundant sensing and communication mechanisms to ensure greater safety.

A COMPLETE SAFETY SUITE

- Lidars bring **complete 360° vision** to the vehicle by continuously monitoring the area for obstacles and obstructions.
- The Decision Engine interprets what the lidars see to **make decisions 3x faster than a human driver**.
- 3 Virtual Bumper, the **collision avoidance system**, offers an extra layer of safety by essentially doubling the number of systems responsible for safety.
- 4 The Autonomous Tuggers have LED lighting and audio cues to communicate the vehicle's status and intent to the workers in the area.





SEAMLESS INTEGRATION

Cyngn customizes AV deployments to meet your needs.

Together, Cyngn and Motrec ensure a streamlined integration process so that we can have you up and running with an autonomous vehicle deployment in a matter of days.

Contact Cyngn to learn more.



TECHNICAL SPECS: MOTREC MT-160

Vehicle Information			Chassis		
Dimensions	65" L x 30" W x 55" H		Body	All-steel unibody construction	
Deck Dimensions	18" L x 30" W		Steering Automotive steering wheel		
Weight	1,250 ± 100 lbs depending on options		Brakes	Brakes Self-adjusting H.D. drum brake, regenerative braking, electromagnetic parking brake	
			Wheels	4.8x8 LRC pneuma	atic tires
Performance			Energy System		
Autonomous Spee	d (Max)	4.5 mph	Battery	Voltage	48V
Manual Speed (Max)		6 mph	Battery	Sattery Runtime* 8 hours	
Towing Capacity (Max)		12,000 lbs.	Charge Time (Lithium)		2.5-4 hrs.
Load Capacity (Max)		500 lbs.	Charge Time (Standard) 8-10		8–10 hrs.
Turning Radius		54"	*D		
Minimum Aisle Width		55"	*Runtimes are based on manutacturer recommendations. Times may vary based on speed and load weight		
Slope (Max)		3°			
Safety Features			Sensor Suite		
Emergency Stop			360° 3D LIDAR		
Virtual Bumper (collision avoidance system)			RGB Camera		
LED Visual Communication System			TOF Camera		
Audio Cues					
Automation Interface			Connectivity		
Human-Machine Interface			802.11 Wifi Ethernet Port for Data Offload		
Additional Features					

Auto-Unhitch Capability

Blue Spotlight





Our vehicles drive themselves so your team can focus on everything else.

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