



HMX1600

Innovative Transmissions for High-Torque Applications



InfiniDrive HMX1600

Designed for tracked vehicles up to 28 metric tons with engine ratings of up to 600 HP, the HMX1600 is infinitely variable in both forward and reverse directions and fully capable of equal speeds.

The HMX1600 includes built-in features not seen in conventional tracked vehicle transmission systems. A heavy duty power take off (PTO) can export up to 300 HP. The HMX 1600 can operate for extended periods at extreme creep speeds and rapidly transition to much higher speeds (0.25kph-60kph/.06mph-37mph).

Features & Benefits

TRANSMISSIONS

- Infinitely variable in forward and reverse directions up to maximum speed
- Improved mobility and low noise level
- The customizable transmission control monitor allows the engine to run in its optimal power range reducing fuel costs and greenhouse gas emissions
- Optimized controls for increased efficiency, robustness and seamless shifting

BRAKING AND STEERING

- Optional steer-by-wire or brake-by-wire for remote control
Hydraulically actuated, oil-cooled, multiple-disc service and parking brakes
- Engine retarding torque, plus full hydrostatic retarding dynamic braking
- True pivot steering, infinitely variable ratio hydro-mechanical, fully regenerative, without use of brakes or clutches

Specification

INPUT RATING	Power, net kW [hp]	300-450 [400-600]
	Speed, r/min	2,400
OUTPUT RATING	Maximum torque, N.m [lb-ft]	18,300 [13,500]
	Maximum forward speed, r/min	3,200
	Maximum reverse speed, r/min	3,200
	Steering Differential Speed, r/min	320
	Steering torque, N.m [lb-ft]	17,205 [12,690]
WEIGHT	Dry, kg [lb]	1,405 [3,098]
	Oil, kg [lb]	105 [231]
	Power Density, kW/m ³ [hp/ft ³]	668 [25.5]
HYDRAULIC FLUID	MIL-PRF-2104	SAE 15W40 [-15C to 50C] / [5F to 122F]
ATTITUDE	Slope	60% fore and aft slope / 30% side slope



Kinetics Drive Solutions Inc. is a multi-disciplinary engineering firm in the field of intelligent drive systems. Kinetics' engineering team has produced custom drive solutions for world-class equipment manufacturers, defense contractors and component manufacturers.

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