



HMX3000

Innovative Transmissions for High-Torque Applications

InfiniDrive HMX3000

Designed for tracked vehicles up to 36 metric tons with engine ratings of up to 800 HP, the HMX3000 is infinitely variable in both forward and reverse directions and capable of maximum speed in both directions. The HMX3000 takes advantage of Kinetics' proprietary, lightweight, integrated pump / motor variators. The integrated pump motor leads to a high power density, high efficiency solution at both high and low speeds.

Features & Benefits

TRANSMISSIONS

- Improved fuel efficiency and reduced emissions
- CANBus-enabled with drive-by-wire and remote operation capability
- Reduced heat load
- Optimized controls for increased efficiency, robustness and seamless shifting

BRAKING AND STEERING

- Hydraulically actuated, oil-cooled, multiple-disc
- Full engine retarding torque, plus full hydrostatic retarding
- True pivot steering, infinitely variable ratio hydro-mechanical, fully regenerative, without use of brakes or clutches
- Steering actuation – by wire electro-mechanical with hydro-mechanical back up
- Multi-station remote steering option available
- Remote control and autonomous control [RC/AC] capable

Specification

INPUT RATING	Power, net kW [hp]	450-600 [600-800]
	Speed, r/min	2,300-2,500
OUTPUT RATING	Maximum torque, N.m [lb-ft]	19,200 [14,160]
	Maximum forward speed, r/min	3,040
	Maximum reverse speed, r/min	3,040
	Steering Differential Speed, r/min	500
	Steering torque, N.m [lb-ft]	12,670 [9,340]
WEIGHT	Dry, kg [lb]	1,270 [2,800]
	Oil, kg [lb]	70 [154]
	Power Density, kW/m ³ [hp/ft ³]	1,383 [52]
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.

For additional information:

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