



HMX1100

Innovative Transmissions for High-Torque Applications



InfiniDrive HMX1100

Designed for tracked vehicles up to 14 metric tons with engine ratings of up to 400 HP, the HMX1100 is capable of operating at maximum speed in both forward and reverse. This infinitely variable transmission provides all the benefits of a hydrostatic drive at high torque multiples, with unparalleled vehicle control at all times, whether moving at a crawl or at high speed.

Features & Benefits

TRANSMISSIONS

- Infinitely variable in forward and reverse directions up to maximum speed
- Improved mobility and low noise level
- No bulkhead extensions required*, drop-in installation for APC [M113] upgrade
- 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

- Steer-by-wire or brake-by-wire for optional remote control operations
- 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

** Using specific engine types*

Specification

INPUT RATING	Power, net kW [hp]	220-300 [300-400]
	Speed, r/min	2,400
OUTPUT RATING	Maximum torque, N.m [lb-ft]	13,070 [9,640]
	Maximum forward speed, r/min	3,115
	Maximum reverse speed, r/min	3,115
	Steering Differential Speed, r/min	420
	Steering torque, N.m [lb-ft]	11,150 [8,220]
WEIGHT	Dry, kg [lb]	847 [1870]
	Oil, kg [lb]	35 [77]
	Power Density, kW/m ³ [hp/ft ³]	642 [24.5]
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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