SERVICE CLASSIFICATION DEFINITIONS

Pleasure Craft

Maximum power capacity is intended only for personal use, planing hull pleasure craft where full engine throttle operation will be less than 5% of total time with balance of time at 87% of full throttle engine RPM or less. Marine Gears used in long range pleasure cruisers, sportfish charters or any commercial service should not be selected according to Pleasure Craft Service Classification.

Intermediate Duty

pleasure or Commercial usage of planing or semi-displacement hull craft can qualify for Intermediate Duty Service Classification if full throttle operation will average only a few hours per day with major portion of usage at partial throttle and total annual usage will be 2000 hours or less. Examples: Long Range Pleasure Cruisers

portfish Charter Boats Party Fishing Boats Some Crew Boats, Lobster Boats Harbor and Coastal Patrol Boats earch and Rescue Boats Fire Boats

Continuous Duty

Commonly called "Workboat Duty," these Marine Gear applications are expected to operate continuously at full engine governed speed. The propulsion engine power setting must be known and must be within the Marine Gear's allowable input rating for continuous daylong or around-the-clock service.

Most displacement hull vessels are powered for Continuous Duty service. However, the actual engine (and Marine Gear) power loading depends on:

- a. The propeller used
- b. The vessel's work assignment
- c. The captain's choice of throttle setting during continuous service

Hitachi Nico Transmission Co., Ltd. (HNT) recommends that all displacement and semidisplacement hull commercial applications be classed as Continuous Duty usage of the Marine Gear.

Examples: Fishing trawlers, Purse seiners

Lobster boats and crab boats Tugs, Tow boats, Buoy tenders Offshore crew/supply boats, Ferries Research vessels, Ocean freighters

IIMPORIANT APPLICATION INFORMATION

- Transmission ratings are based on use of the transmission in a torsionally compatible system utilizing suitable input torsional coupling.
- Ratings are for diesel engines at the indicated speeds unless otherwise limited.
- Consult factory for ratings applicable to gasoline engines or gas turbines or for all other applications not conforming to the given service classification definitions.
- Ratings apply to right hand engines, i.e., counterclockwise flywheel rotation when viewing rear of engine.
- The power transmission capacity of the forward and reverse components is the same. However, helical directions of gear for staboad and port unit on some models will be changed.

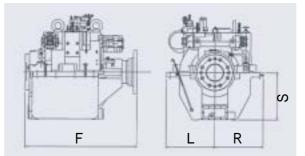
IMPORTANT NOTICE : Torsional vibration analysis is required and can be made by the engine manufacturer and independent consultants. HNT is prepared to assist the analysis in relation to the transmissions. Hitachi Nico Transmission Co., Ltd. advises users of these products that their safe operation depends on use in compliance with technical information provided in the product manuals. Proper installation, operation and periodical inspection and maintenance are prerequisite for safe operation of these products. It is the responsibility of users to provide and install safety devices, which may be required by recognized safety standards.

Hitachi Nico Transmission Co., Ltd.

Continuous Duty Marine Hydraulic Clutch for Low-Speed Engine

HLT Series

			Input Rating						Max.
Model	SAE Hsg.	Standard Ratios	200 min ⁻¹		300 min ⁻¹		400 min ⁻¹		Speed
			kW	HP	kW	HP	kW	HP	min ⁻¹
HLT 850			588	788	883	1184	1103	1479	400
HLT 950			758	1016	1136	1523	1324	1775	400
HLT 1050			1049	1406	1567	2101	1692	2268	400
			100 min ⁻¹		200 min ⁻¹		300 min ⁻¹		
HLT 1250			883	1184	1765	2366	2354	3156	300
HLT 1450			1118	1499	2236	2997	2648	3550	300
HLT 1650			1545	2071	3089	4141	3310	4437	300
HLT 1950			2207	2958	4119	5522			250
HLT 2150			2824	3786	5443	7296			250
HLT 2650			4707	6310	6325	8479			250



HLT Series Dimensional Data

	F:	L:mtg.	R:mtg.	C:	S:	Mass	
Model	length	pad	pad	offset	sump	(approx.dry)	
	mm	mm	mm	mm	mm	kg	
HLT 850	880	460	460		450	1250	
HLT 950	1000	460	460		470	1450	
HLT 1050	1090	510	510		530	2200	
HLT 1250	1300	620	620		600	3800	
HLT 1450	1540	650	650		650	4800	
HLT 1650	1600	670	670		700	5100	
HLT 1950	1760	700	700		850	8000	
HLT 2150	1830	800	800		950	10000	
HLT 2650	1922	800	800		1000	13000	

Comments • Dimensions may vary with housing adapter or output flange size.

• Dry mass is approximate and does not include companion flange. • Specifications subject to change.