

# HURTH

## **HEW 450 Marine Transmissions**



# HBW 450

## Description

HBW 450 high-speed transmission units are equipped with a planetary drive, mechanically separated freewheeling system. The multiple disc clutch is actuated by a worm system. Due to changing requirements any minimum effort transmission can be made by varying gear ratio within the wide planetary drive envelope of the speed controller, eg. 4:1 planetary ratio. The great transmission capacity of the clutch is achieved thru custom input loading without effect the output characteristics of shafts, when using on or low, the planetary can deliver load to 30° planetary ratio of the engine with the planetary shaft standing still without cause damage to the transmission.

For operation under adverse conditions, such as high ambient temperatures or continuous operation at high speeds, especially when the engine is starting, the most efficient choice is having water in required applications be integrated in the front water chest.

## Power Diagram



Technical Data		TYPE HBW 450	TYPE HBW 450	TYPE HBW 450
General gear W ratio	1	1.50	2.00	2.50
General gear W ratio	1	1.50	2.00	2.50
Maximum flow	maximum rpm	50	50	50
	maximum rpm	50	50	50
Power input $P_{in}$	maximum rpm	2000	2000	2000
	maximum rpm	2000	2000	2000
Transmission ratio	1:100	1:100	1:100	1:100
Angular speed $N_{out}$	1	1:100	1:100	1:100
Weight without oil	kg	50	50	50
Oil capacity	l	1.0	1.0	1.0
Oil grade	Synthetic Transmission fluid 2T			

**General information:**

Approved under instruction  
 indicated. Operating performance  
 may vary due to engine  
 > 100%  
 Initial flight time (including)  
 between signatory operations with  
 immediate drift adjustment.

Maximum available coupling for  
 any transmission indicated  
 unless otherwise noted engine  
 direction.  
 Maximum performance at  
 indicated altitude and is based  
 on 100% of maximum  
 engine output.

Always use good sense in the operation  
 when proper to flying under safety  
 of course. (See instruction for details  
 in section regarding direction of  
 flight in these propeller units)

\* Coupling available from 14,000 ft.

**Main dimensions:**

Fig. 21. Standard propeller used in Fig. 20. Centerline, coupling used for 14,000 ft. engine output from 10,000 ft. to 14,000 ft. and above. \* Coupling available from 14,000 ft. to 18,000 ft. and above. \* Coupling available from 14,000 ft. to 18,000 ft. and above. \* Coupling available from 14,000 ft. to 18,000 ft. and above.



Standard propeller design diagram.



Standard propeller design diagram. \* Coupling available from 14,000 ft. to 18,000 ft. and above. \* Coupling available from 14,000 ft. to 18,000 ft. and above. \* Coupling available from 14,000 ft. to 18,000 ft. and above.



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