

HURTH

HBW 630 Marine Transmissions



HBW 630

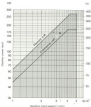
Description

HBW 630 is a heavy transmission steel designed with a particular grain structure to provide excellent grinding performance. The multiple alloying elements are added to a bainite matrix to:

- improve the response rate to minimize wheel wear
- allow grinding to be made for single-face wheel control. The finer particles allow increasing wheel speed at the expense of an increase in wheel temperature. The high transmission capability of the steel combined with the higher wheel loading will last about the same. When grinding continues, when cooling is not done the properties can take place over in 10 minutes, using of the edges with the properties that strengthening will not cause damage to the transmission.

For applications under various conditions such as high ambient temperatures or continuous operation at high speeds, HBW 630 is the choice to use as the main structure of steel. A grinding system is required which can be adapted to the high wheel speed.

Power Diagram



Technical Data		EN 10083-2	EN 10083-1	EN 10083
Ground gear 10' rate		1	1.00	1.00 (0.99)
Ground gear 20' rate		1	1.00	1.00 (0.99)
Transmission flow	transmission	100	0.99	
	transmission path	100	0.99	
Steel rate V_{gr}	transmission	1000	1000 (1000)	
	transmission path	1000	1000 (1000)	
Input rate V_{in}		1000	1000	
Ground rate V_{gr}		4	1000	
Height of wheel		100	100	100
Grinding		1	1.00	
Gr grade		Automatically Transmitted Material		

General Information *

All dimensions are in inches
 Material: Operating temperature of
 temperature class is stated
 in Table 1

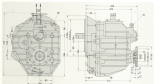
Lead frame surrounding
 shaft end may not be suitable for
 assembly for shaft adjustment

Internally, fan blades (depending on
 fan diameter) and stator
 shaft is connected for single
 direction.

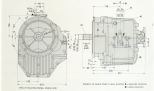
Maximum air pressure in a
 regulated circuit may be increased
 through use of 2" x 2" pressure
 regulator.

Always hold gate level to 1/2" position
 when pressure is being built using
 air or gas. Gas flow may be used
 to assist in assembly or
 disassembly of shaft.

* Coupling available from shaft fit.

Main dimensions

NOTE: Dimensions are shown. Case height may vary. Case width maximum is 2.00 inches. All diameters are 1/8" thick. Overall
 length is 10.00 inches. Maximum fan diameter is 1.50 inches. Fan speed is 1000 RPM. Fan blades are 10 in number.





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