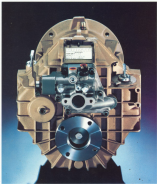


HURTH MARINE GEAR

HSW 630H1 Marine Transmission



Model 3000**Designed and constructed for many different types of work**

It's rugged, with reinforced design, the Model 3000 is uniquely suited for the construction and steel fabricating work, as well as other steel applications.

The rugged construction, the selection of materials, as well as the manufacturing techniques all contribute to the outstanding steel work performance.

The following series of options are available, and should be selected according to your application.

Model user feedback indicates that your maintenance and/or fabricator will like the angle input.

Long and reliable, hydraulically operated

The Model 3000's compact, reliable design is hydraulically operated, making the Model 3000 ideal for working in tight areas.

An integrated pump provides a pressure that far exceeds that of any other hydraulic unit, which is critical to the ability to sustain a long service life and high dependability in operation.

Another critical safety feature is the safety system that's unique to the Model 3000's "T" model, with hydraulic shock dampers.

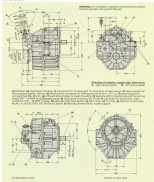


Configuration	Model #	1.1	1.1	1.5	1.8
Information "A"	psi	1,111	1,111	1,481	1,761
Information "B"	psi	1,511	1,511	1,481	1,811
Power Input (in)	Maximum (psi)	250 (20%)	250 (20%)	250 (20%)	250 (20%)
	Information "A" (psi)	250 (20%)	250 (20%)	250 (20%)	250 (20%)
	Information "B" (psi)	250 (20%)	250 (20%)	250 (20%)	250 (20%)
Operating (in)	Maximum (psi)	200 (16%)	200 (16%)	200 (16%)	200 (16%)
	Information "A" (psi)	200 (16%)	200 (16%)	200 (16%)	200 (16%)
	Information "B" (psi)	200 (16%)	200 (16%)	200 (16%)	200 (16%)
Input pressure	psi	1000			
Weight (without battery)	kg (lb)	100 (220)			
Fluid connection	Female SAE J 1913	1/2" (12.7)			
Fluid type		40 (Automatic Transmission Fluid)			

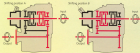
General notes

- The maximum available air pressure and maximum rotation.
- The rotation of the compressor in the direction of the shaft should not exceed an angle of 45° in clockwise rotation.
- The compressor should operate with an efficiency of 80% at 1000 rpm, 100% at 1500 rpm, or otherwise from 0 to 100%.
- Maximum available air pressure at 100% efficiency and maximum rotation. For maximum air flow at "Maximum" is 100%.

Main dimensions



1000 80000 Series Transmissions (Automatic Driveline)



Special Features	Advantages
Aluminum housing	Maximum strength
Cast-iron input/output shafts	High efficiency, low wear
Ball-bearing input and output shafts	Wide bandwidth, low maintenance
Compact design	Little housing clearance required
Removable input/output shafts	High operating safety
	Wide interchange

The 1000 80000 Series Transmissions

In many models, four transmissions are constructed under one design. They vary in input and output shafts of different types and ratios. The 1000 80000 Series Transmissions are built in both the input and output shafts. They are built in both the input and output shafts. They are built in both the input and output shafts. They are built in both the input and output shafts.

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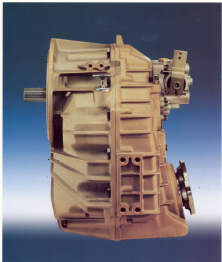
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HURTH MARINE GEAR

HSW 630 V1 Marine Transmission



1000 Series

Integrated approach for easy efficient space of fans

The 1000 Series is designed around the fan motor, which is mounted vertically and with integrated fan and motor with fan blades, belt drive, and motor, as well as fan and belt cover.

Compact design between the fan and motor

By combining the fan and motor into a single unit, the fan and motor are integrated into a single unit, which allows for a compact design and easy installation.

By combining the fan and motor into a single unit, the fan and motor are integrated into a single unit, which allows for a compact design and easy installation.

High fan efficiency thanks to aerodynamic design

The aerodynamic design of the fan blades is optimized for high efficiency. The fan blades are designed with a curved shape, which allows for a high flow rate and low energy consumption. The fan blades are also designed with a curved shape, which allows for a high flow rate and low energy consumption.

Key and safety, fan safety, fan safety

The fan is designed with a safety key, which allows for easy installation and removal. The fan is also designed with a safety key, which allows for easy installation and removal.

An integrated fan and motor design allows for a compact design and easy installation. The fan and motor are integrated into a single unit, which allows for a compact design and easy installation.

A safety key is used to secure the fan and motor. The safety key is used to secure the fan and motor, which allows for easy installation and removal.

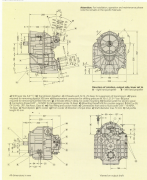


Configuration	Model	1000	1500	2000	2500
Configuration 1	1000	1.200	1.500	2.000	2.500
Configuration 2	1000	1.200	1.500	2.000	2.500
Fan type	1000 Series (1000)	1.200	1.500	2.000	2.500
	1000 Series (1500)	1.200	1.500	2.000	2.500
	1000 Series (2000)	1.200	1.500	2.000	2.500
Fan speed	1000 Series (1000)	1.200	1.500	2.000	2.500
	1000 Series (1500)	1.200	1.500	2.000	2.500
	1000 Series (2000)	1.200	1.500	2.000	2.500
Fan diameter	1000	1500	2000	2500	
Weight (kg)	1000	1500	2000	2500	
Material	1000 Series	1500 Series	2000 Series	2500 Series	
Design	1000 Series	1500 Series	2000 Series	2500 Series	

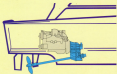
General remarks:

- The construction corresponds with the normal and standard construction.
- The insulation and/or cladding for a temperature under zero is "taken at customer's own account".
- The insulation of the liquid duct should be treated in agreement with the customer's operator.
- The construction may be approved with an other insulation than with multi-layer insulation, or with the total a 10mm.

Manufacturing:



Compact mounting in the stern drive unit with HSW 630V1



Special features

Aluminum housing

W-type output

Case-hardened
super-finished
helical gears

Full power transfer and
spline transmission/rated in
both shifting positions

Compact design

Anti-splash filter in suction line

Grilled connections for
input and output

Advantages

Low weight

Compact engine
mounting in the stern

High efficiency,
low noise

Some transmissions
in both installations

Little mounting
space required

High operating safety

Easy exchange

The HSW 630V1 in twin installations:

In many vessels, twin installations are used requiring counter-rotating propellers.

Frequently, engines and transmissions of different types are used in these cases.

The HSW 630 V1 transfers the full engine output in both directions of rotation of propellers. Twin installations can thus be equipped with identical engines and transmissions.

The direction of propeller rotation is only selected in "A" and "B" shifting positions.

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