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MODEL: 6500C

Introduction

This manual provides comprehensive instructions for the safe and efficient operation, installation, and maintenance of your Hypro 6500C Cast Iron 6 Roller Pump. This product is manufactured by HYPRO and is designed for various industrial and agricultural applications, including spraying, wash down, and turf applications.

The Hypro 6500C is a robust 6-roller cast iron pump, known for its durability and performance. Proper care and adherence to these instructions will ensure the longevity and optimal performance of your pump.

Important Safety Information

WARNING: This product can expose you to chemicals including lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

- Always read and understand all instructions before operating the pump.
- Wear appropriate personal protective equipment (PPE) when handling or operating the pump.
- Ensure the pump is securely mounted and all connections are tight before operation.
- Do not exceed the maximum pressure or flow rate specified for this pump.
- Disconnect power or PTO before performing any maintenance or adjustments.

Product Overview



Front view of the Hypro 6500C Cast Iron 6 Roller Pump, showcasing its robust blue cast iron housing and hexagonal bolts.

CAST IRON, NI-RESIST OR SILVER SERIES XL

Series 6500 6-Roller



Pressure in PSI and BAR	GPM	HP	GPM	HP	GPM	HP
	LPM	HP	LPM	HP	LPM	HP
	@540 RPM		@1000 RPM		@1200 RPM	
0 PSI	9.7	.08	18.2	.20	21.8	.30
0 BAR	36.7	.08	68.9	.20	82.5	.30
50 PSI	8.0	.38	16.5	.71	20.1	.90
3.4 BAR	30.3	.38	62.4	.71	76.1	.90
100 PSI	7.2	.68	15.4	1.26	19.1	1.51
6.9 BAR	27.3	.68	58.3	1.26	72.3	1.51
150 PSI	6.6	.97	14.7	1.80	18.2	2.14
10.3 BAR	25	.97	55.6	1.80	68.9	2.14
200 PSI	5.6	1.29	14.0	2.34	17.3	2.84
13.8 BAR	21.2	1.29	53	2.34	65.5	2.84
250 PSI	4.9	1.65	13.4	2.91	16.5	3.48
17.2 BAR	18.5	1.65	50.7	2.91	62.4	3.48
300 PSI	4.3	1.91	12.7	3.47	15.7	4.17
20.7 BAR	16.3	1.91	48.1	3.47	59.4	4.17

FEATURES:

- ◆ Port size: 3/4" NPT
- ◆ 1" hose barb inlet fitting for 1000 rpm operation
- ◆ Max. fluid temperature: 140°F/60°C
- ◆ Housing: Cast Iron (C), Ni-Resist (N) or Silvercast (XL)
- ◆ Shaft rotation: Counter clockwise when looking at the shaft end (clockwise available)
- ◆ Rollers: Super Rollers standard [Poly (T3) and Teflon® (T2)]
- ◆ Shaft Seals: Viton® standard
- ◆ Available PTO adapters: See page 76
- ◆ Recommended PTO torque arm kit 3430-0540
- ◆ Rotor: Cast Iron, Ni-Resist or Silvercast
- ◆ Weight: 9 lbs./4.1 kg

ORDER INFORMATION

Model Number	Max GPM	Max LPM	Max PSI	Max BAR	Max RPM	Shaft Output		
						U.S	Metric	Shaft
6500C	21.8	82.5	300	20.7	1200	5/8"	15.9 mm	solid
6500N	21.8	82.5	300	20.7	1200	5/8"	15.9 mm	solid
6500XL	21.8	82.5	300	20.7	1200	5/8"	15.9 mm	solid

Teflon® rollers - Add Suffix "T2" - (i.e.: 6500C-T2).
Polypropylene rollers - Add Suffix "T3" - (i.e.: 6500C-T3).
Reverse rotation* - Add Suffix "R" - (i.e.: 6500C-R).

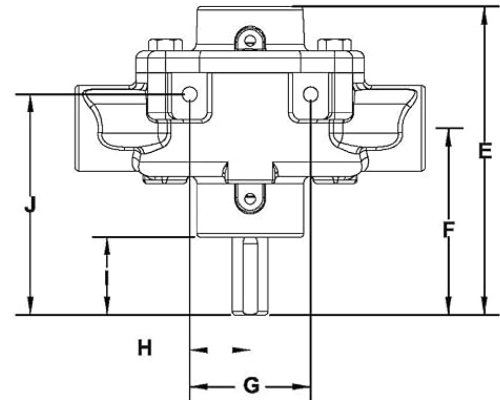
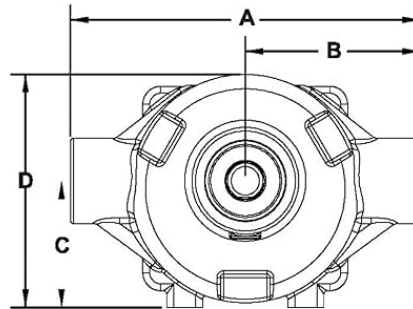
Technical data sheet detailing features such as port size, fluid temperature, housing material, shaft rotation, roller type, shaft seals, and recommended PTO torque arm kit. Includes a performance table with GPM, HP, and pressure at various RPMs.

Pump Technical Data

Series 6500 6-Roller



Pump Dimensions		
Dim.	Inch	mm
A	6.13	156
B	3.07	78
C	2.22	56
D	4.09	104
E	5.41	137
F	3.27	83
G	2.12	54
H	1.06	27
I	1.37	35
J	3.87	98



6500C, 6500N, 6500XL Pump Specifications

Rollers:	Max. Flow Rate (GPM [LPM]):	Max. Pressure (PSI [BAR]):	Max RPM	Ports:	Shaft:	Continuous Operation (PSI [BAR]):	Intermittent Operation (PSI [BAR]):	Dry Weight (LBS [KG])	Minimum Horsepower requirement	Mounting bolts
6	21.8 [82.5]	300 [20.7]	1200	-3/4" NPT Inlet & Outlet -1" Hose Barb included	5/8" Dia. (Solid)	100 [6.9]	300 [20.7]	9 [4.1]	4.17	2 X 5/16-18 UNC

Performance Data 6500C, 6500N, 6500XL (Imperial)

Pressure	GPM	HP	GPM	HP	GPM	HP
	@540 RPM		@1000RPM		@1200RPM	
0 PSI	9.7	0.1	18.2	0.2	21.8	0.3
50 PSI	8.0	0.4	16.5	0.7	20.1	0.9
100 PSI	7.2	0.7	15.4	1.3	19.1	1.5
150 PSI	6.6	1.0	14.7	1.8	18.2	2.1
200 PSI	5.6	1.3	14.0	2.3	17.3	2.8
250 PSI	4.9	1.7	13.4	2.9	16.5	3.5
300 PSI	4.3	1.9	12.7	3.5	15.7	4.2

Performance Data 6500C, 6500N, 6500XL (Metric)

Pressure	LPM	HP	LPM	HP	LPM	HP
	@540 RPM		@1000RPM		@1200RPM	
0 BAR	36.7	0.1	68.9	0.2	82.5	0.3
3.4 BAR	30.3	0.4	62.5	0.7	76.1	0.9
6.9 BAR	27.3	0.7	58.3	1.3	72.3	1.5
10.3 BAR	25.0	1.0	55.6	1.8	68.9	2.1
13.8 BAR	21.2	1.3	53.0	2.3	65.5	2.8
17.2 BAR	18.5	1.7	50.7	2.9	62.5	3.5
20.7 BAR	16.3	1.9	48.1	3.5	59.4	4.2

Detailed pump dimensions diagram for the Hypro 6500C series, providing measurements (Dim. Inch mm) for various parts of the pump, essential for installation and fitment.



Image of the Hypro Cast Iron Pump packaging box, highlighting "Worldwide Leader in Roller Pump Technology" and key specifications.



An illustration showing three Hypro roller pumps, demonstrating different finishes or material options available for the series.

Setup and Installation

1. **Mounting:** Securely mount the pump to a stable surface or directly to the PTO (Power Take-Off) of your equipment. Ensure the mounting bolts are tightened to prevent vibration and movement during operation. Refer to the pump dimensions diagram for proper fitment.
2. **Inlet and Outlet Connections:** Connect the inlet and outlet hoses to the pump's 3/4" NPT ports. Use appropriate thread sealant to ensure a leak-free connection. Ensure hoses are free of kinks and obstructions.
3. **Shaft Connection:** If connecting to a PTO, ensure the shaft is properly aligned and secured to the coupler. The shaft on the pump goes into the coupler that attaches to the PTO. A lock screw connects the coupler to a flat shelf on the shaft. Ensure this set screw is tightened securely to prevent the shaft from spinning free.
4. **Power Source:** This pump is designed for AC/DC power sources, typically driven by a PTO. Ensure your power source matches the pump's requirements.
5. **Initial Inspection:** Before first use, inspect all connections for tightness and ensure there are no visible leaks or damage to the pump.

Operating Instructions

- **Priming:** Ensure the pump is primed before starting. This typically involves filling the pump housing and inlet line with the liquid to be pumped to prevent dry running.
- **Starting the Pump:** Gradually engage the PTO or power source. Monitor the pump for unusual noises or vibrations.
- **Monitoring Performance:** Observe the flow rate and pressure. The maximum flow rate is 21.8 Gallons Per Minute (GPM) and maximum pressure is 300 PSI. Do not exceed these limits.
- **Fluid Temperature:** The maximum fluid temperature for operation is 140°F (60°C).
- **Shutting Down:** Disengage the PTO or power source. Allow the pump to drain if necessary, especially before maintenance or storage.

Maintenance

Regular maintenance is crucial for the longevity and performance of your Hypro 6500C pump, especially given its cast iron construction.

- **After Each Use:**
 - Flush the pump with clean water to remove any chemical residues.
 - **Important:** After flushing, put oil in the pump. This is critical to prevent rusting and ensure the pump works correctly for future use. Failure to do so can lead to the pump seizing up.
 - Store the pump in a climate-controlled building to protect it from extreme temperatures and moisture.
- **Periodic Inspection:**
 - Check for wear on rollers and shaft seals. Replace as needed.
 - Inspect all hoses and connections for leaks or damage.
 - Ensure mounting bolts and shaft coupler set screws remain tight.

Troubleshooting

Problem	Possible Cause	Solution
Pump does not work / No flow	Not primed Inlet/outlet blocked Shaft not turning (coupler loose) Pump seized due to rust (lack of oiling) Damaged rollers or seals	Prime the pump Check and clear blockages Tighten shaft coupler set screw Disassemble and inspect for rust; lubricate or replace parts Inspect and replace worn components
Low flow or pressure	Partial blockage Worn rollers or seals Insufficient RPM from power source Air leak in suction line	Check and clear lines Replace worn rollers/seals Verify PTO/motor RPM Check all suction connections for tightness
Pump leaks	Loose connections Damaged seals Cracked housing	Tighten all fittings Replace seals Inspect housing for damage; replace pump if cracked

Problem	Possible Cause	Solution
Excessive noise or vibration	Cavitation (air in pump) Worn bearings or rollers Improper mounting	Ensure pump is properly primed and no air leaks Inspect and replace worn internal components Re-secure mounting bolts

Specifications

Attribute	Value
Brand	Hypro 6500C
Model Number	6500C
Material	Cast Iron
Color	Stainless Steel (referring to finish/components, main body is blue cast iron)
Power Source	Ac/Dc (typically PTO driven)
Maximum Flow Rate	21.8 Gallons Per Minute
Maximum Pressure	300 PSI (20.7 BAR) intermittent operation
Port Size	3/4" NPT Inlet & Outlet
Shaft Diameter	5/8" Dia. (Solid)
Product Dimensions	6 x 8 x 6 inches
Item Weight	8.8 pounds
UPC	698035164684, 734943001212

Warranty Information

The Hypro 6500C Cast Iron 6 Roller Pump comes with a **1 Year Warranty** from the date of purchase. This warranty covers defects in materials and workmanship under normal use and service. Please retain your proof of purchase for warranty claims.

The warranty does not cover damage resulting from improper installation, misuse, neglect, lack of proper maintenance (e.g., failure to oil after use), unauthorized repairs, or normal wear and tear.

Customer Support

For technical assistance, replacement parts, or warranty inquiries, please contact Hypro customer support or an authorized Hypro dealer. Refer to the official Hypro website for the most up-to-date contact information and service center locations.

Online Resources: Visit the official Hypro website for additional product information, FAQs, and instructional videos.

ASK A QUESTION ABOUT THIS MANUAL

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Example: How do I reset this device or fix this error?

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Submit question

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