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SPX FLOW POW HS3000

SPX Power Team HS3000 Hydraulic Pry Bar Spreader User Manual

Model: HS3000

1. Product Overview

The SPX Power Team HS3000 Hydraulic Pry Bar Spreader is a robust tool designed for various industrial applications. It can be utilized to lift machinery, act as a clamp, spread concrete forms or rebar, and perform straightening tasks. This unit boasts a 1 1/2 ton capacity, delivering a full 3,000 lb. capacity at 10,000 psi with an 11 1/2 inch maximum spread. Its design requires only 1 1/4 inches of clearance to engage the jaws, making it suitable for tight spaces. The HS3000 can be "dead-ended" at its maximum spread under full load.



Figure 1: Front view of the SPX Power Team HS3000 Hydraulic Pry Bar Spreader, showing its compact design and handle.

- **Capacity:** 1 1/2 Ton (3,000 lbs)
- **Maximum Spread:** 11 1/2 inches

- **Minimum Clearance Required:** 1 1/4 inches
- **Operating Pressure:** 10,000 psi
- **Construction:** High-grade ductile iron with high strength alloy steel forged upper and lower jaws.
- **Compliance:** Conforms to ASME B30.1 standard.

2. Safety Information

Always adhere to the following safety precautions when operating the HS3000 Hydraulic Pry Bar Spreader to prevent injury or damage to equipment.

- Read and understand all instructions and warnings in this manual before operation.
- Wear appropriate personal protective equipment (PPE), including safety glasses, gloves, and steel-toed boots.
- Ensure the work area is clear of obstructions and well-lit.
- Never exceed the rated capacity of 1 1/2 tons (3,000 lbs). Overloading can cause equipment failure and severe injury.
- Do not use the spreader for purposes other than those specified in this manual.
- Inspect the tool for any damage, leaks, or loose connections before each use. Do not use if damaged.
- Ensure the hydraulic system is properly connected and free of air before applying pressure.
- Keep hands and other body parts clear of the spreading jaws during operation.
- Always maintain a stable and balanced position when operating the tool.
- Do not modify the tool in any way. Use only genuine SPX Power Team replacement parts.
- Release hydraulic pressure slowly and carefully after use.

3. Setup

Before operating the HS3000, ensure proper setup of the hydraulic system.

1. **Connect to Hydraulic Pump:** Connect the hydraulic hose from a compatible 10,000 psi hydraulic pump to the quick-connect coupler on the HS3000 spreader. Ensure the connection is secure and free of leaks.
2. **Bleed Air (if necessary):** If the system is new or has been disconnected, it may contain air. Operate the pump without load, extending and retracting the spreader jaws a few times to purge air from the system.
3. **Check Fluid Level:** Verify that the hydraulic fluid level in the pump reservoir is adequate for operation. Refer to your hydraulic pump's manual for specific fluid requirements and levels.



Figure 2: Side view of the HS3000, illustrating the hydraulic connection point and the internal spring mechanism.

4. Operating Instructions

Follow these steps for safe and effective operation of the HS3000 Hydraulic Pry Bar Spreader.

1. **Position the Spreader:** Place the jaws of the spreader into the desired gap or under the object to be lifted/spread. Ensure the minimum clearance of 1 1/4 inches is available for the jaws to engage.
2. **Apply Pressure:** Slowly activate the hydraulic pump to extend the spreader jaws. Observe the object being spread or lifted carefully.
3. **Monitor Progress:** Continue to apply pressure gradually until the desired spread or lift is achieved, or the maximum spread of 11 1/2 inches is reached. Do not exceed the maximum capacity or spread.
4. **Maintain Position (if needed):** The unit can be "dead-ended" at its maximum spread under full load, meaning it can hold its position without continuous pump pressure if the pump has a load-holding valve.
5. **Release Pressure:** To retract the jaws, slowly release the hydraulic pressure from the pump. The internal spring mechanism will assist in retracting the jaws.
6. **Remove Spreader:** Once the jaws are fully retracted, carefully remove the spreader from the workpiece.

5. Maintenance

Regular maintenance ensures the longevity and safe operation of your HS3000 Hydraulic Pry Bar Spreader.

- **Cleaning:** After each use, wipe down the tool with a clean cloth to remove dirt, grease, and debris.
- **Lubrication:** Periodically apply a light coat of rust-inhibiting oil to exposed metal surfaces, especially the jaws and pivot points, to prevent corrosion.
- **Hydraulic Fluid:** Regularly check the hydraulic fluid level in your pump and replace it according to the pump manufacturer's recommendations. Use only high-quality hydraulic fluid specified for your pump.
- **Inspection:** Before each use, inspect the spreader for:
    - Cracks or damage to the ductile iron body or forged jaws.
    - Leaks around the hydraulic connection or cylinder.
    - Bent or damaged components.
    - Proper function of the internal spring retraction.
- **Storage:** Store the spreader in a clean, dry environment, protected from extreme temperatures and corrosive agents. Ensure all pressure is released before storage.

6. Troubleshooting

This section addresses common issues you might encounter with your hydraulic pry bar spreader.

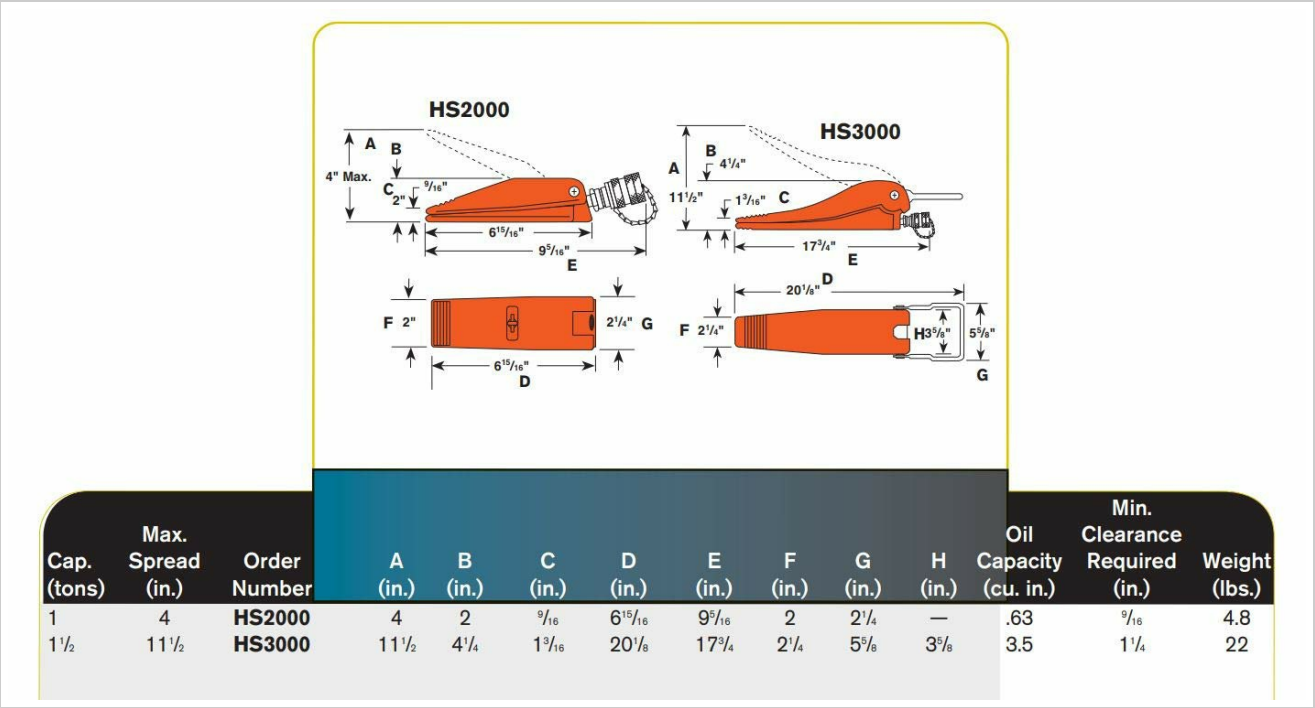
Problem	Possible Cause	Solution
Spreader jaws do not extend or extend slowly.	Low hydraulic fluid level in pump. Air in hydraulic system. Pump malfunction. Hose kinked or blocked.	Check and refill hydraulic fluid. Bleed air from the system. Consult pump manual or contact service. Inspect hose for obstructions.

Problem	Possible Cause	Solution
Spreader jaws do not retract fully.	Residual pressure in system. Damaged internal spring. Obstruction in jaws.	Ensure all pressure is released from pump. Contact authorized service for repair. Clear any debris from jaws.
Hydraulic fluid leaks.	Loose connections. Damaged seals or hoses.	Tighten all hydraulic connections. Inspect hoses and seals; replace if damaged. Contact service if leak persists.
Reduced spreading force.	Low hydraulic pressure from pump. Overload condition.	Check pump pressure and fluid. Ensure load is within 1 1/2 ton capacity.

7. Specifications

Detailed specifications for the SPX Power Team HS3000 Hydraulic Pry Bar Spreader.

Feature	Specification
Model Number	POW HS3000
Capacity	1 1/2 Ton (3,000 lbs)
Maximum Spread	11 1/2 inches
Minimum Clearance Required	1 1/4 inches
Operating Pressure	10,000 psi
Dimensions (Package)	20 x 7.52 x 7.01 inches
Weight	24.95 Pounds
Material	High Grade Ductile Iron, Alloy Steel Forged Jaws
Compliance	ASME B30.1 standard
Country of Origin	United States



Cap. (tons)	Max. Spread (in.)	Order Number	A (in.)	B (in.)	C (in.)	D (in.)	E (in.)	F (in.)	G (in.)	H (in.)	Oil Capacity (cu. in.)	Min. Clearance Required (in.)	Weight (lbs.)
1	4	**HS2000**	4	2	9/16	6 15/16	9 5/16	2	2 1/4	—	.63	9/16	4.8
1 1/2	11 1/2	**HS3000**	11 1/2	4 1/4	1 3/16	20 1/8	17 3/4	2 1/4	5 5/8	3 5/8	3.5	1 1/4	22

Figure 3: Technical diagram illustrating key dimensions and specifications for the HS3000 model, including spread, clearance, and overall size.

8. Warranty and Support

For warranty information and technical support regarding your SPX Power Team HS3000 Hydraulic Pry Bar Spreader, please contact SPX FLOW directly or refer to their official website.

- **Manufacturer:** SPX Power Team Corporation
- **Website:** www.spxflow.com (Please visit the official website for the most current contact and support information.)
- **Service:** For repairs or genuine replacement parts, it is recommended to contact an authorized SPX Power Team service center.

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