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## Heavy Duty Jib Model 1340 & 1360 Installation, Use & Safety Precautions

### **HD Jibs:**

Star models 1340 and 1360 Heavy Duty Jibs are designed for use on industrial lift trucks and rough terrain straight-mast or extendable-reach forklifts. They have been tested and are rated for the load capacities as shown on the load decal on the jib and in the load charts on our brochure. Star Industries has been manufacturing these booms for approximately 25 years and during this period, the Star HD Jibs have earned an excellent safety record. They have proven themselves repeatedly on all types of jobs all over the United States as well as in Canada, Mexico and South America.

### **Installation:**

The HD jib is installed on the forklift by inserting both forks fully into the fork pockets so that the rear of the Jib is against the back of the fork. The safety chain is then wrapped around a strong part of the forklift carriage. Be sure and choose an attachment point on the forklift that keeps the chain as level as reasonably possible. Take as many wraps as needed to take up the slack then hook the chain back onto itself making sure the open part of the grab hook is pointing down. Chain angle must not exceed 45°.

### **Swivel Hooks**

The HD Jib is furnished with two swivel hooks, one located at the end of the jib and the other can be positioned in various locations on the underside of the boom for picking loads with two hook points. Each hook is rated at 4000 lbs. lift capacity on the model 1340 and 6,000 lbs on the model 1360. One or both hooks can be used to pick up the load but the total weight can not exceed the rated capacity of the jib as shown on the load chart for that extended or retracted position.

MODEL 1340	
<b>Max Load Cap.</b>	<b>4000 lbs.</b>
<b>Empty Weight</b>	<b>475 lbs.</b>
<b>Extends</b>	<b>6' 7" to 12' 0"</b>
<b>Vert. Center of Gravity</b>	<b>Centerline</b>
<b>Horz. Center of Gravity</b>	
<b>Fully Retracted :</b>	<b>31.75"</b>
<b>Fully Extended :</b>	<b>46.75"</b>

MODEL 1360	
<b>Max Load Cap.</b>	<b>6000 lbs.</b>
<b>Empty Weight</b>	<b>575 lbs.</b>
<b>Extends</b>	<b>6' 7" to 12' 0"</b>
<b>Vert. Center of Gravity</b>	<b>Centerline</b>
<b>Horz. Center of Gravity</b>	
<b>Fully Retracted :</b>	<b>33.5"</b>
<b>Fully Extended :</b>	<b>49.75"</b>

### **Jib Load Capacities**

Maximum load capacity for each model in the various extended or retracted positions is show in the table below as well as on a load chart located on the side of the boom. **It is very important however, to understand that these load capacity ratings are for the jib itself and do not reflect the capacity of the forklift nor the maximum load that can be safely handled with a particular forklift.**

Maximum Load Capacity on a Single Hook - Lbs.										
<b>HOOK POSITION</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>	<b>9</b>	<b>10</b>
<b>DISTANCE</b>	6'4"	6'11"	7'6"	8'1"	8'8"	9'3"	9'10"	10'5"	11'0"	11'7"
<b>MODEL 1340</b>	4000	3575	3235	2950	2715	2510	2335	2185	2050	1935
<b>MODEL1360</b>	6000	5365	4850	4525	4070	3765	3505	3280	3080	2900
<b>CAUTION: LOAD CAPACITIES SHOWN ARE FOR THE JIB ONLY AND DO NOT REFLECT THE LIFT CAPACITY OF THE FORKLIFT</b>										

### **Forklift Load Capacities**

Care must be taken not to exceed the capacity of the forklift. When handling a load with the jib, the load center is moved out away from the standard forklift load center (typically 24") which significantly reduces the lift capacity of the forklift. In addition the weight of the jib has been added which also further reduces forklift capacity.

There are two ways to determine the reduced lift capacities when using the jib. Most preferable and most accurate is to contact the forklift manufacturer for a de-rated load capacity chart. If this is not available, simple foot pound calculations can be made to estimate the reduced load capacities. For example, a forklift that is rated in the desired lift position at 8000 lbs (at a 2 ft load center) has a lift capacity of 16000 foot lbs. (2 ft X 8000 lbs.) To calculate, for instance, the load when using our model 1340 jib at its maximum extension of 11'7", simply deduct the 1850 foot lbs for the weight of the jib (cg x weight of jib) from the 16000 ft lbs and then divide the remainder by the new load center, 11.6 feet which gives us 1221 lbs maximum lift capacity. The charts on the next page show these reduced capacity calculations for several forklift capacities.

Model		Empty Weight
1340		475

These calculations provide a rough and typically conservative estimate of the reduced forklift capacity when using the jib. They are based on a standard 24" forklift load center. The maximum load capacity for each hook position is shown under the forklifts rated capacity for that fork position.

Single Hook Capacities for Model 1340 HD Jib										
Hook Pos.	Distance		Attach. Horz CG	Forklift Capacity @ 24" Load Center from forklift load chart <u>for selected fork &amp; mast position</u>						Max Jib Cap
		Inches		Inches	2000	4000	5000	6000	8000	
1	6' 4"	76	31.75	433	1065	1381	1696	2328	2959	4000
2	6' 11"	83	31.75	397	975	1264	1553	2132	2710	3675
3	7' 6"	90	33.625	356	889	1156	1423	1956	2489	3235
4	8' 1"	97	35.5	321	816	1063	1311	1806	2300	2950
5	8' 8"	104	37.375	291	752	983	1214	1675	2137	2715
6	9' 3"	111	39.25	264	697	913	1129	1562	1994	2510
7	9' 10"	118	41.125	241	648	851	1055	1462	1868	2335
8	10' 5"	125	43	221	605	797	989	1373	1757	2185
9	11' 0"	132	44.875	202	566	748	929	1293	1657	2050
10	11' 7"	139	46.75	186	531	704	876	1222	1567	1935

Model		Empty Weight
1360		575

Single Hook Capacities for Model 1360 HD Jib										
Hook Pos.	Distance		Attach. Horz CG	Forklift Capacity @ 24" Load Center from forklift load chart <u>for selected fork &amp; mast position</u>						Max Jib Cap
		Inches		Inches	2000	4000	5000	6000	8000	
1	6' 4"	76	33.500	378	1010	1325	1641	2273	2904	6000
2	6' 11"	83	33.500	346	925	1214	1503	2081	2659	5365
3	7' 6"	90	33.625	319	852	1119	1385	1919	2452	4850
4	8' 1"	97	35.500	284	779	1027	1274	1769	2264	4425
5	8' 8"	104	37.375	255	716	947	1178	1640	2101	4070
6	9' 3"	111	39.250	229	662	878	1094	1526	1959	3765
7	9' 10"	118	41.125	206	613	817	1020	1427	1834	3505
8	10' 5"	125	43.000	186	570	762	954	1338	1722	3280
9	11' 0"	132	43.531	174	538	719	901	1265	1629	3080
10	11' 7"	139	49.750	140	485	658	830	1175	1521	2900

**Please Note as Final Reminder - Whenever an attachment is added to a lift truck**, the weight of the attachment, the new center of gravity of the attachment, and the new center of gravity of the load, will reduce the lift capacity of the forklift. The charts above will allow you to estimate the new reduced capacity of your forklift. However, any official "New Down-Rated Capacity" for the lift truck must be obtained from the lift truck manufacturer. Also please note that the capacities shown on the load chart on the jib reflect only the capacities of the jib itself and in no way reflect the actual capacity of the forklift/attachment combination

## **General Precautions**

1. Forklift operator must be properly trained and have required certifications.
2. Before using the Jib check to see that it is properly secured to the forklift as described above and that the shackles and hooks are properly secured to the Jib and screw pins are tight.
3. Determine that the loads to be handled are within the capabilities of the forklift. Keep in mind that rated capacities will likely decrease when the boom is in a raised position, or when the mast is tilted forward, or in the case of telehandlers, when the boom is extended.
4. Forks should be level or tipped upward (never down below level) when using the jib.
5. Do not pull loads. Booms designed for vertical lift only.
6. The load should always be carried low and kept from swinging using tag lines as necessary. Any time a load is raised; extreme caution should be exercised as the forklift is far more vulnerable to tipping with a raised load.
7. Any time the load is raised make sure the forklift is on level, firm footing.
8. Check Jib boom extension lock pin to make sure it is functioning properly. Make sure spring has proper tension to keep pin engaged.
9. Refer to the forklift operator's manual for more information on handling elevated loads as well as information for safe and proper forklift operation.
10. Always comply with all local, state, and federal Safety regulations.