

OPERATOR'S MANUAL FOR
MORSE MODEL 285A-HDPS
FORK-LIFT KARRIER FOR PLASTIC OR STEEL DRUM
Serial # 0793 - 0109 (MMYY)

A. IMPORTANT:

1. Review the Material Safety Data Sheet(s) for the material(s) in the drum(s) and take all necessary precautions. Safety shoes, work gloves, hard hat and other personal protective devices are recommended.
2. Please read all instructions *thoroughly* before attempting to operate your new MORSE drum handler.
3. The model 285A-HDPS has a maximum capacity rating of 900 lb. full drum and 450 lb. half-full drum and is designed to lift, move and pour *55 gallon steel or plastic drum*. Model 285A-HDPS can handle a fibre drum if the appropriate saddle adaptor, 55/30 series, is installed. *DO NOT* exceed these ratings. Exceeding these ratings or handling drums other than those mentioned above is unsafe and could result in equipment damage, excessive wear or awkward handling.
4. When loading, unloading, operating, or maintaining your MORSE drum handler, always use care and good judgment. Maintain secure footing and a firm hold. Keep hands and loose clothing away from all moving parts. Never allow anyone to be below any part of a raised drum handler or drum. Read operating instructions and review the pictures in the sales brochure before operation.
5. Because the 285 series are front-end attachments for a forklift, OSHA recommends that "... *the truck (forklift) be marked to identify the attachment(s) and show the approximate weight of the truck and attachment combination at maximum elevation with load laterally centered.*"

Prior to initial use, inspect all moving parts and test rotation of chain wheel and saddle assembly. Inspect ratchet, pawl and cinch chain for proper operation. Perform necessary load test, inspections, operator training, etc.

B. OPERATING INSTRUCTIONS:

1. Before sliding forklift forks into the fork tubes, adjust forks to an inside spread of 24-1/2" minimum. Lock forks into position on the forklift carriage.
2. Drive the forklift forward to slip the forks into the fork tubes (item 25). Tighten tee screws (item 26) to secure the Forklift Karrier to the forks.
3. Release the cinch chain (item 29), and hang the loose end from the upright peg on the front of the gear block. Swing the ratchet hinge plate to the open position.
4. Drive the forklift with the Forklift Karrier near floor level to position the saddle band around the middle of the drum between the ribs.
5. Using a drum hand truck, move the drum onto the foot of the bottom bracket weldment (item 45) so that the drum rests into the saddle band.
6. Adjust top hook weldment (item 41) to meet the top of the drum and tighten with Tee handle (item 42).
7. Drape the cinch chain across the front of the drum and insert one link into the slot on the ratchet handle (item 37). Turn the ratchet handle clockwise to tighten the cinch chain around the drum (see detail).
8. Remove pull chain (item 3) from chain box on base frame (item 25) and place end of loop near operator's seat.
9. Raise forks to clear the floor and transport drum in **vertical** position to dispensing location.
10. To pour drum: pull on chain (item 3), rotating drum to angle required for dispensing. To control the pouring angle of the drum, pay out one side of chain and pull the other side to prevent the drum from free-wheeling.
11. When dispensing is completed, rotate the drum back to vertical and return drum. While transporting, ensure that the drum is raised away from the floor to prevent the drum bottom from interfering with a pallet or other obstacle.

CAUTION: DO NOT allow drum to impact on floor, ground, or dumping station, etc.
CAUTION: DO NOT exceed weight capacity of 900 lb. for FULL drum, 450 lb. for HALF-FULL drum.

* For each size fiber drum, model 285A-HDPS requires correct sized 55/30 Series Diameter Adaptor.

C. MAINTENANCE:

1. Lubricate gear teeth and roller chain.
2. Clean and oil ratchet, pawl, saddle hinge, and other moving parts periodically. (Clean & lubricate more often in environments where dust, dirt or other foreign particles will effect the performance of moving parts.)
3. Periodically inspect all moving parts, framework, and contact areas for signs of wear, fatigue, or loosening. Tighten adjust or replace parts as necessary to prevent failure and maintain proper function.

View Morse Parts Lists and Diagrams online at: www.morsemfgo.com

PARTS LIST

Serial # 0793 - 0109 (MMYY)

ITEM	QTY	PART #	DESCRIPTION
1 *	1	1303-P	POCKET CHAIN WHEEL, 3/4 BORE
2	1	1304-P	GUIDE, POCKET CHAIN WHEEL
3 *	1	3-285-P	PULL CHAIN, POCKET, 20' LENGTH
4 *	1	19-P	BEARING, 3/4" ID X 2-1/2"
5	3	55-P	WASHER, 3/4 SAE FL 1-1/2 OD
6	2	64-P	ROLL PIN, 3/16 X 1-1/4
7 *	1	1302-P	SHAFT W/ 12T SPROCKET, POCKET
8 *	1	12-P	CHAIN, ROLLER, #35 W/ M LINK
9 *	1	795-P	LINK, MASTER, #35 CHAIN
10 *	1	13-P	SPROCKET #35 36T, 3/4" BORE
11 *	1	735-P	KEY, WOODRUFF, SIZE 9, ASA606
12 *	1	14-P	GEAR, PINION, 7 TOOTH
13 *	1	27-P	SPUR GEAR W/ 1" SHAFT, HD TYPE
14 *	2	736-P	KEY, WOODRUFF, SIZE 15, ASA808
15	1	29-P	SPACER, SPUR GEAR .15"
16	1	15-P	COLLAR, 3/4" ID
17 *	1	30-P	SPROCKET #40D 16T, 1" BORE
18 *	1	31-P	CHAIN, ROLLER, #40D W/ M. LINK
19 *	1	796-P	LINK, MASTER, FOR #40D CHAIN
20 *	1	32-P	SPROCKET #40D 32T, 1" BORE
21 *	1	7-P	BEARING, 3/4" ID X 1-1/2"
22 *	2	18-P	BEARING, 1" ID X 2-1/2"
23 **	1	745APS-P	HDPS SADDLE ASSEMBLY COMPLETE W/ BRACKET

PARTS LIST (continued)
Serial # 0793 - 0109 (MMYY)

ITEM	QTY	PART #	DESCRIPTION
25	1	770A-P	BASE FRAME 285A-HD W/BRG
26	2	58-P	LOCK TEE SET SCREW, 285
27	1	82-P	3/8 - 16 X 2-1/4 HHCS GR 2 STL
28	4	1169-P	3/8 - 16 REV HEX LOC NUT
29	1	180-P	CHAIN, CINCH, 3/16 ALLOY 33 LK
30	1	731-P	RATCHET HINGE PLATE ONLY 1/4 A
31	1	1296-P	1/4 - 20 X 7-1/2 HHCS GR 5 STL
32	1	1297-P	1/4 - 20 REV HEX LOC NUT
33	1	168-P	PAWL, WITH DRILLED HOLE
34 *	1	169-P	PAWL SPRING
35	1	170-P	3/8" DIA X 5/8" SHOULDER SCREW
36	1	710-P	RETAINER, RATCHET PUSH ON 3/4"
37	1	165-P	RATCHET, MALLEABLE, FOR SADDLE
38	1	136-P	HANDLE GRIP, 7/8" X 4-3/4"
39 *	1	165KIT-P	KIT, RATCHET CHAIN TIGHTENER
40	1	726-P	RATCHET HINGE PLATE CPT 1/4" A
41	1	1371-P	TOP HOOK WELD, APS, HDPS
42	1	1372-P	TEE HANDLE, HDPS BRACKET, 1-1/2"
43	2	1315-P	3/8 - 16 X 2-3/4 HHCS GR 2 STL
44	1	148-P	3/8 - 16 X 2 HHCS GR 2
45	1	1370-P	BOTTOM BRACKET WELD, HDPS
46	1	1465-P	BRACKET ASM, HDPS

* Recommended spare parts.

** HDPS Saddle Assembly Complete includes the appropriate attached parts: 27, 28, 29, 31, 32, 40 and 46.

For replacement parts, please contact your Morse dealer.

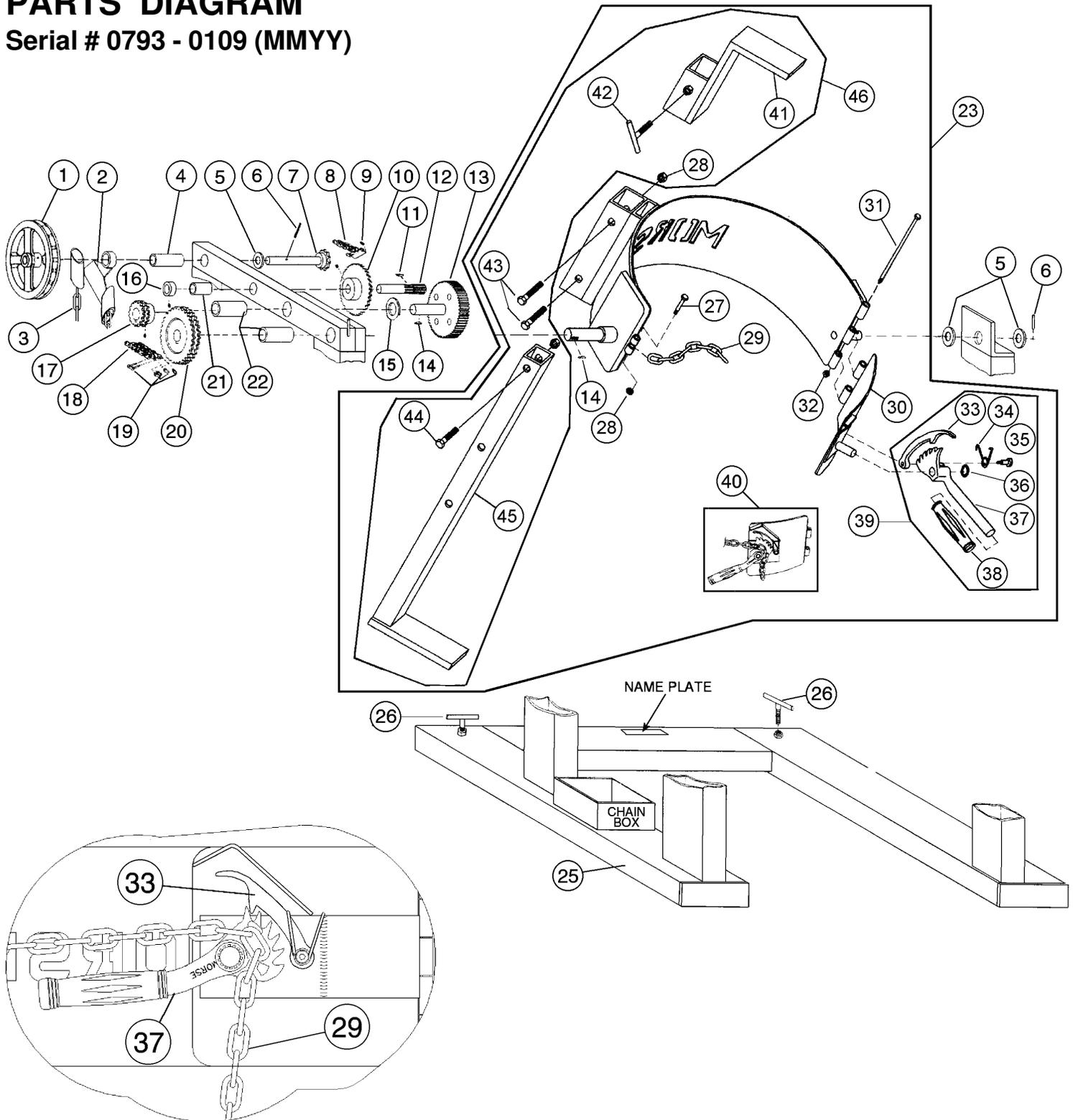
When ordering parts, please specify:

- Part number and description,
- Model number
- Serial number

Find model number and serial number on metal name plate attached to frame.

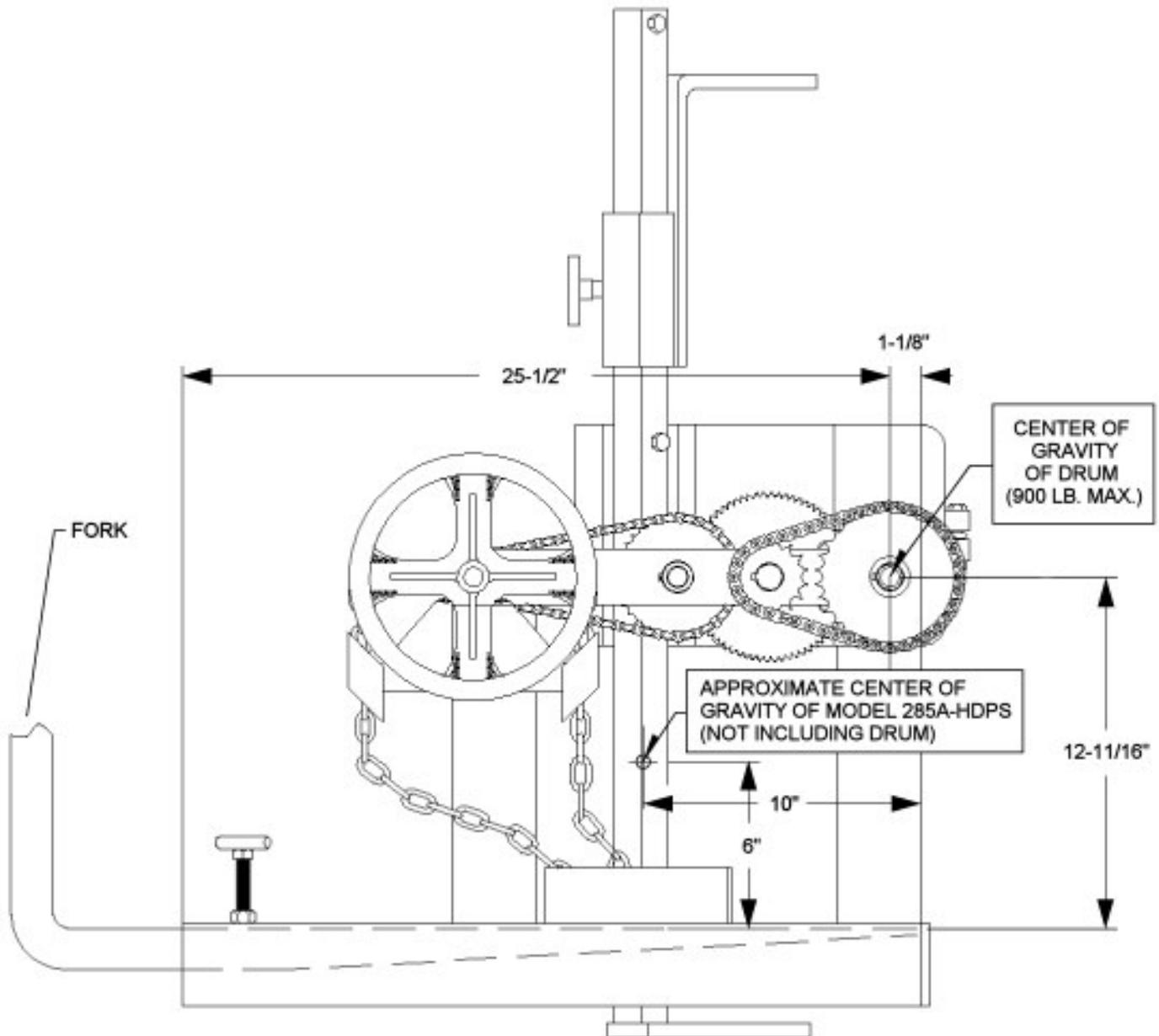
PARTS DIAGRAM

Serial # 0793 - 0109 (MMYY)



LOST LOAD CAPACITY with Morse Model 285A-HDPS
Serial Number 0793 to 0109 (MMYY)

CENTER OF GRAVITY DIMENSIONS FOR CALCULATING LOST LOAD ON EQUIPMENT



DIMENSIONS ARE MEASURED FROM INSIDE OF FORK TUBE END. THIS WILL GIVE A FIXED POINT TO WHICH LOST LOAD DATA CAN BE DETERMINED. (FORKS MUST BE TOUCHING THIS FORK TUBE END.)

MODEL #	NET WEIGHT	OPTION #	ADD TO WEIGHT
285A-HDPS	171 LB.	X01	4 LB.
		X02	0 LB.
		X03	4 LB.
		X04	10 LB.