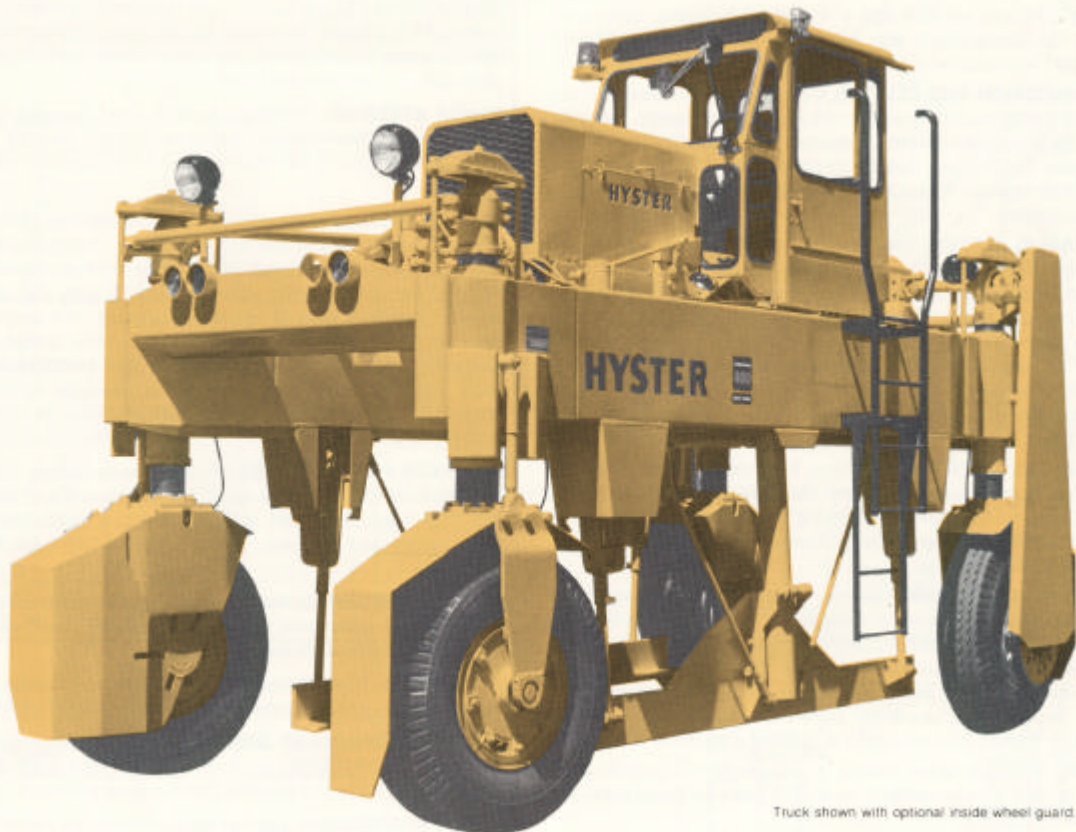




# STRADDLE TRUCK CARRIER

## M200, 300, 400H



Truck shown with optional inside wheel guard.

# STRADDLE TRUCK CARRIER M200, 300, 400H

## ENGINE OPTIONS:

**GASOLINE:** GM V8-350. 4 cycle, 8 cylinders. 350 cu. in. (5 737 cc) displacement with 4.00" (102 mm) bore, 3.48" (88 mm) stroke. Heavy-duty dry-type air cleaner. 12-volt electrical system with High Energy Ignition, starter and alternator. Alternator has built-in solid state regulator—never needs adjustment. Velocity governor. Mechanical type fuel pump. 8.0:1 compression ratio.

**DIESEL:** Perkins Model 6-354.4 4-cycle, 6 cylinders. 354 cu. in. (5 802 cc) displacement with 3.9" (99 mm) bore, 5.0" (127 mm) stroke. 12-volt electrical system.

**TRANSMISSION AND CLUTCH:** Manual shift five speed full reversing transmission, synchronized in top four speeds. No gear clashing or double clutching. Exclusive Hyster Oil Clutch with 14" (356 mm) clutch plate, bathed in oil for long life. Oil dissipates heat, retards wear. Hydraulic clutch assist mechanism for effortless operation.

**HYDRAULIC SYSTEM:** Tandem gear pump, pressure loaded end bearings, direct drive from engine crankshaft. One powers load lift and load swing, and one powers steering. SAE "O" ring fittings throughout. Wire braid reinforced hydraulic hoses. Double-acting, self-centering control valves. Built-in adjustable relief valve. 28 gallon (106 liter) hydraulic oil tank. Hydraulic components include control valve, pump, flow divider, and check valves. Filter is mounted in hydraulic tank for easy service from top of tank.

**HYDRAULIC OIL FILTER:** Full-time, full-flow hydraulic filter protects hydraulic system, lengthens life of hydraulic components. Filter cleans all hydraulic oil returning to tank and all oil added to system before entering the tank. System sealed against all dirt with dry type air filter.

**HOISTING MECHANISM:** Four double acting hydraulic cylinders with polyurethane single lip seals with "O" ring preloading for automatic sealing. Hydraulic flow divider-combiner synchronizes cylinders through the operating cycle. Four over center valves lock the cylinders in position individually while in loaded position. Single lever valve control for hoist and shoe swing. Hoisting speed 25 ft./min. (.13 mm/sec.) at 2,000 engine RPM.

**LIFTING SHOES:** Move inward and outward for grappling or clearing load. 3-roller contact on shoe guides for good pressure distribution.

**SHOE SWING:** Controlled by double-acting hydraulic cylinder anchored to upper end of the shoe guides.

**HOIST AND SWING CONTROL:** Control lever on steering column.

**FUEL TANK:** 20-gallon (75.7 liter) capacity. Mounted inside left side frame for maximum protection and easy access from ladder. Protectoseal fuel cap.

**COOLING SYSTEM:** Liquid, 15 psi (1.1 kg/cm<sup>2</sup>) pressure system. Bypass thermostat, 6 blade, 17" (430 mm) puller fan.

**POWER BRAKES:** Vacuum power operated hydraulic brakes. Double-shoe internal expanding, fully enclosed on all four wheels. Parking brake mounted on transmission drive shaft. Toggle type hand lever with adjustment knob.

**POWER STEERING:** Hydraulic booster type. Assures effortless maneuvering, instantaneous response. All four wheels steer in unison. Self adjusting ball studs, heavy duty drag links and steering arms.

**CAB:** Center mounted for good all-around visibility. (All-weather steel cab with front and rear electric wipers. Inside and two outside rear view mirrors and cab interior light standard on all models.) Two-piece ladder with handrails for easy cab entry. Instrument panel in front of operator equipped with ammeter, oil pressure gauge, water temperature gauge, fuel gauge, engine hour meter, speedometer and odometer, light switches, high-low beam indicator light, and combination key-type ignition and starter switch. Heater and defroster. All instruments illuminated for night operation.

**ONE-PIECE FRAME AND BODY:** Streamline design eliminates all sharp corners and projections. Entirely formed and fabricated from high grade steel and arc-welded into a single unit. Combines rigidity and flexibility, reduces weight and adds carrying capacity.

**LIGHTING SYSTEM:** Standard group includes automatic reversing lights and directional signals. Two sealed beam headlights and two stop lights. One load light.

**DRIVE AXLES:** Heat treated alloy steel axles and needle bearing universal joints with slip yokes.

**CHAIN AND SPROCKET DRIVE:** Connects driving heads with rear wheels. 1.2" (30 mm) pitch roller chains on M200H and 1.5" (38 mm) on M300H and M400H. Chain guards standard.

**SPRING SUSPENSION:** Each wheel suspended by two alloy steel springs housed within the frame. Each wheel moves independently of the others.

## VERSATILE HYSTER'S STRADDLE TRUCK CARRIER OFFERS SIZE AND CAPACITY FOR YOUR SPECIFIC NEEDS:

### HUMAN ENGINEERING

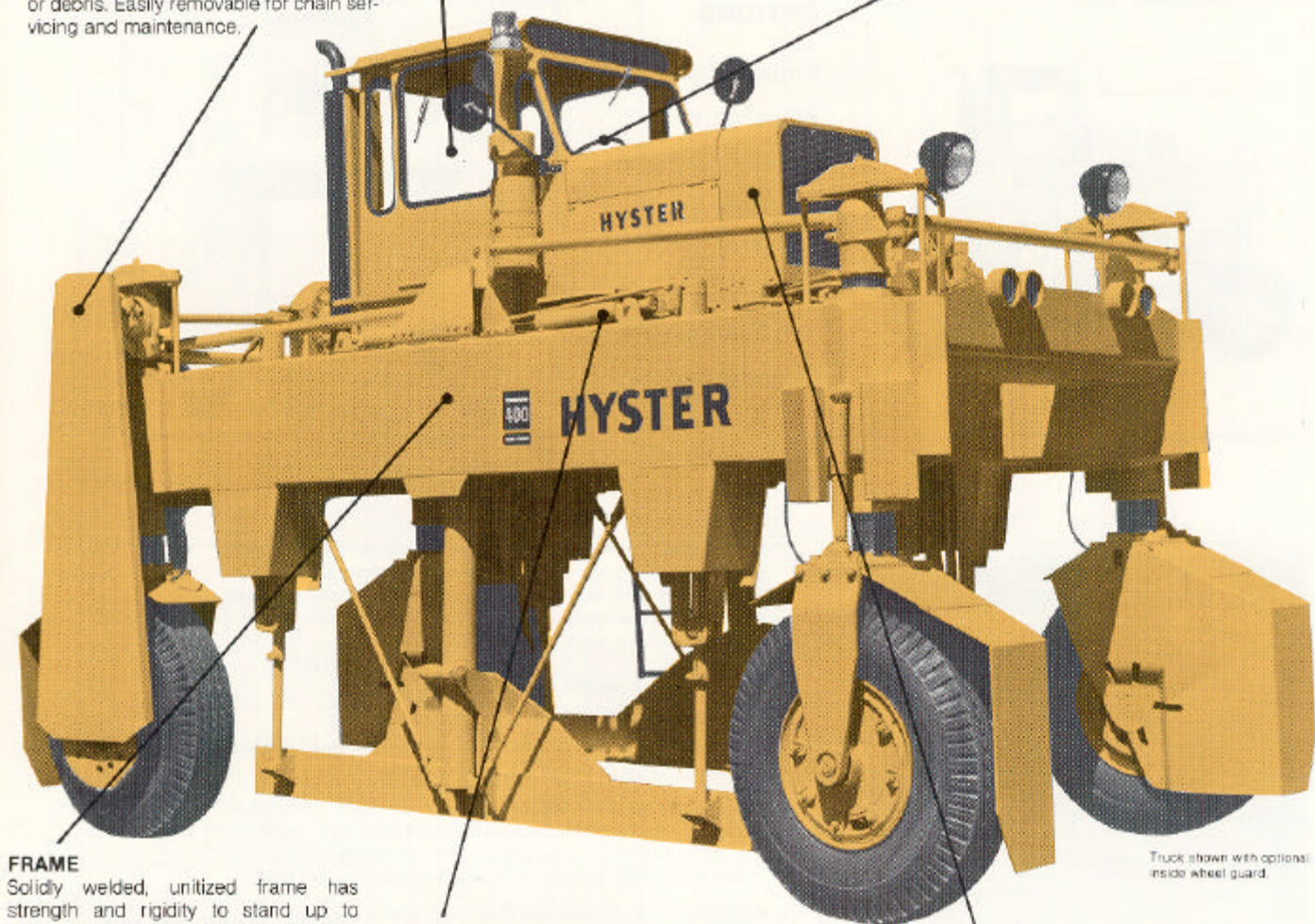
All-weather can includes heater and defroster, and front and rear wipers, shatterproof glass on four sides permits good visibility in all directions. Controls and instruments are conveniently placed. Automatically reversing driving lights and directional signals are standard equipment.

### POWER STEERING

Hydraulic-assist, four-wheel steering system provides smooth, positive action and is ruggedly built. Maneuvering is easy and quick, with minimum of effort.

### CHAIN GUARDS

Positive protection for drive components means less damage from collision, dust or debris. Easily removable for chain servicing and maintenance.



### FRAME

Solidly welded, unitized frame has strength and rigidity to stand up to stresses well beyond maximum load capacity. Deep box sidemembers are joined front and rear by internally reinforced crossmembers, plus four more in the center section for torsion resistance and support of cab and powertrain.

### HYDRAULIC SYSTEM

Large, pressurized hydraulic tank holds 28 gallons (106 liters), to provide ample volume for dissipation of heat. Plenty of hydraulic power for steering, load lift and load swing. Operates with mineral oil or fire resistant water Glycol fluid.

### ENGINE/TRANSMISSION

Choice of GM V8-350 gasoline or Perkins 6-354.4 diesel, coupled with five speeds forward and reverse. Gear ratios are designed for excellent gradeability and high travel speed, with the right mid-range power to minimize shifting.

Truck shown with optional inside wheel guard.

**MODEL M200H**20,000 lb. capacity  
9,050 kg**DIMENSIONS\*** in. (mm) lb. (kg) Basic Truck

Package Height H	A	B	C	D	Package Width W	E	F	GF	Approx. Truck Weight
48	63	128	112.2	122.8	46	51.2	84.6	49.5	12,500
1 220	1 600	3 250	2 850	3 120	1 170	1 300	2 150	1 260	5 650

For standard package sizes larger than shown for Basic Truck, increase either the height or width dimensions in 6" (150 mm) increments. Package heights over 78" (1 990 mm) and package widths over 100" (2 540 mm) require factory approval.

\*Width inside shoes is maximum bolster length for any given model. Subtract 1.5" (38 mm) for recommended bolster length. Shoe lip width 5.2" (132 mm).

**MANEUVERABILITY\***

Standard Truck and Tires Without Wheel Guards

Package Width in. (mm)	Full Width Load Longer Than Load Shoes (Limited Wheel Turn)				Full Width Load Not Over Shoe Length, or Load 3" (76 mm) Narrower Than Standard Package Width, or Unloaded			
	J	K	L	Max. Load Length for K & L	J	K	L	Max. Load Length for K & L
46		20' 4.8"	11'8"	18'8"		18'10"	11'3"	18'5"
52	12'4.5"	20'10.6"	12'2"	18'11.2"	10'7.5"	19' 4"	11'9"	18'6.5"
64		21' 4.8"	12'8"	19' 2.5"		19'10"	12'3"	19'
1 170		6 220	3 555	5 690		5 740	3 430	5 615
1 320	3 770	6 370	3 710	5 770	3 240	5 895	3 580	5 700
1 830		6 525	3 860	5 855		6 045	3 735	5 790

**TRAVEL SPEEDS\*†** mph (km/h)

Forward and reverse @ 2800 RPM with full load on smooth hard surface

Gear	1st	2nd	3rd	4th	5th
	6.0	10.0	17.0	28.0	45.0
	9.6	16.1	27.3	45.0	72.4

**GRADEABILITY\*†** %

Gear	Gas Engine				Diesel Engine			
	% Loaded/Unloaded		MPH @ 1800 RPM	km/h	% Loaded/Unloaded		MPH @ 1200 RPM	km/h
	1st	16.0/36.0	4.0	6.4	17.5/36.0	2.5	4.0	6.4
2nd	8.5/26.0	6.0	9.6	9.5/29.0	4.5	7.2	9.6	
3rd	4.5/14.5	11.0	17.7	5.0/16.5	7.0	11.3	17.7	
4th	2.0/8.0	16.0	25.9	2.5/9.0	12.0	19.3	25.9	
5th	1.0/5.0	29.0	46.7	1.0/5.0	19.0	30.5	46.7	

†Travel speeds and gradeability obtained with 22T driving sprockets and 9.00 x 20, 12 ply highway type tires. Optional 13T driving sprockets are available for lower travel speeds and higher gradeability.

**BODY AND FRAME** in. (mm)

FL	DL	SL	WB
160	4 065	176	4 470
		94	2 390
		136	3 455

**TIRES**

Standard	Optional
9.00 x 20, 12 PR highway type	9.00 x 20, 12 PR off-the-road
	10.00 x 20, 12 PR highway type
	10.00 x 20, 14 PR off-the-road

**MODEL M300H**30,000 lb. capacity  
13 600 kg**DIMENSIONS\*** in. (mm) lb. (kg) Basic Truck

Package Height H	A	B	C	D	Package Width W	E	F	GF	Approx. Truck Weight
54	67.8	132.6	117	127.5	52	57	91	55.5	13,300
1 370	1 720	3 370	2 970	3 240	1 320	1 450	2 300	1 410	6 000

For standard package sizes larger than shown for Basic Truck, increase either the height or width dimensions in 6" (150 mm) increments. Package heights over 84" (2 135 mm) and package widths over 100" (2 540 mm) require factory approval. Minimum package width 40" (1 020 mm).

\*Width inside shoes is maximum bolster length for any given model. Subtract 1.5" (38 mm) for recommended bolster length. Shoe lip width 5.5" (140 mm).

**MANEUVERABILITY\***

Standard Truck and Tires Without Wheel Guards

Package Width in. (mm)	Full Width Load Longer Than Load Shoes (Limited Wheel Turn)				Full Width Load Not Over Shoe Length, or Load 6" (150 mm) Narrower Than Standard Package Width, or Unloaded			
	J	K	L	Max. Load Length for K & L	J	K	L	Max. Load Length for J, K & L
52		20'2"	14'2"	21'9"		22'2"	12'8"	20'6"
58	19'9"	28'8"	14'8"	21'5"	13'6"	29'7.5"	13'1.5"	20'7.5"
64		29'2"	15'2"	21'7"		29'7.5"	13'7.5"	20'9.5"
1 320		8 585	4 320	6 475		6 755	3 860	6 250
1 475	6 020	8 740	4 470	6 530	4 090	6 895	4 000	6 285
1 645		8 890	4 625	6 580		7 200	4 155	6 340

**TRAVEL SPEEDS\*†** mph (km/h)

Forward and reverse @ 2800 RPM with full load on smooth hard surface

Gear	1st	2nd	3rd	4th	5th
	5.0	8.0	13.0	21.0	34.0
	8.0	12.9	20.9	33.8	54.7

**GRADEABILITY\*†** %

Gear	Gas Engine				Diesel Engine			
	% Loaded/Unloaded		MPH @ 1800 RPM	km/h	% Loaded/Unloaded		MPH @ 1200 RPM	km/h
	1st	15.5/36.0	3.0	4.8	17.5/36.0	2.0	3.2	4.8
2nd	8.5/33.5	5.0	8.0	9.5/36.0	3.0	4.8	8.0	
3rd	4.5/19.0	8.0	12.9	5.0/21.0	5.5	8.8	12.9	
4th	2.0/10.5	13.5	21.7	2.5/12.0	9.0	14.4	21.7	
5th	1.0/6.0	27.5	44.2	1.0/7.0	14.5	23.3	44.2	

†Travel speeds and gradeability obtained with 15T driving sprockets and 11.00 x 20, 12 highway type tires. Optional 13T driving sprockets are available for lower travel speeds and higher gradeability. Other sprockets available on request.

**BODY AND FRAME** in. (mm)

FL	DL	SL	WB
173.5	4 405	191	4 850
		102	2 590
		148	3 760

**TIRES**

Standard	Optional
11.00 x 20, 12 PR highway type	11.00 x 20, 14 PR off-the-road
	12.00 x 20, 14 PR highway type
	12.00 x 20, 16 PR off-the-road
	14.00 x 20, 16 PR highway type

Note: Special wheel forks are required when 12.00, 13.00 and 14.00 tire sizes are used.

FIGURES ON YELLOW BACKGROUND ARE METRIC

\*NOTE: Performance specifications are affected by the condition of the vehicle and how it is equipped, as well as the nature and condition of the operating area. If these specifications are critical, the proposed application should be discussed with your dealer.

### MODEL M400H

40,000 lb. capacity  
18 200 kg

#### DIMENSIONS\* in. (mm) lb. (kg) Basic Truck

Package Height H	A	B	C	D	Package Width W	E	F	G†	Approx. Truck Weight
54	68.2	136.2	120.5	131	52	57	98	55	15,500
1 370	1 730	3 460	3 060	3 325	1 320	1 450	2 490	1 400	7 050

For standard package sizes larger than shown for Basic Truck, increase either the height or width dimensions in 6" (150 mm) increments. Package heights over 84" (2 135 mm) and package widths over 100" (2 540 mm) require factory approval.

†Width inside shoes is maximum bolster length for any given model. Subtract 1" (25 mm) for recommended bolster length. Shoe lip width 5" (127 mm).

#### MANEUVERABILITY\*

Standard Truck and Tires Without Wheel Guards

Package Width in. (mm)	Full Width Load Longer Than Load Shoes (Limited Wheel Turn)				Full Width Load Not Over Shoe Length, or Load 4" (102 mm) Narrower Than Standard Package Width, or Unloaded			
	J	K	L	Max. Load Length for K & L	J	K	L	Max. Load Length for J, K & L
52		28'8"	14'10"	23' 1"		24'6"	13'7"	22'4"
58	19'10"	29'2"	15' 4"	23' 3"	15'4"	25'	14'7"	22'9"
64		29'8"	15'10"	23' 6"		25'8"	14'7"	22'9"
1 320		8 740	4 520	7 035		7 470	4 140	6 805
1 475	6 045	8 890	4 675	7 085	4 675	7 620	4 445	6 935
1 625		9 040	4 825	7 185		7 770	4 445	6 935

#### TRAVEL SPEEDS\*† mph (km/h)

Forward and reverse @ 2800 RPM with full load on smooth hard surface

Gear	mph		km/h	
	1st	2nd	3rd	4th
	3.5	6.0	5.6	9.6
	10.0	16.5	16.1	26.5
	26.5	42.6		

#### GRADEABILITY\*† %

Gear	Gas Engine				Diesel Engine			
	% Loaded	% Unloaded	MPH @ 1800 RPM	km/h	% Loaded	% Unloaded	MPH @ 1200 RPM	km/h
1st	15.5	36.0	2.0	3.2	16.0	36.0	1.5	2.4
2nd	8.5	36.0	4.0	6.4	8.5	36.0	2.5	4.0
3rd	4.5	20.5	6.5	10.5	4.5	21.0	4.5	7.2
4th	2.0	11.5	10.5	16.9	2.0	12.0	7.5	12.1
5th	1.0	7.0	17.0	27.4	1.0	7.0	12.0	19.3

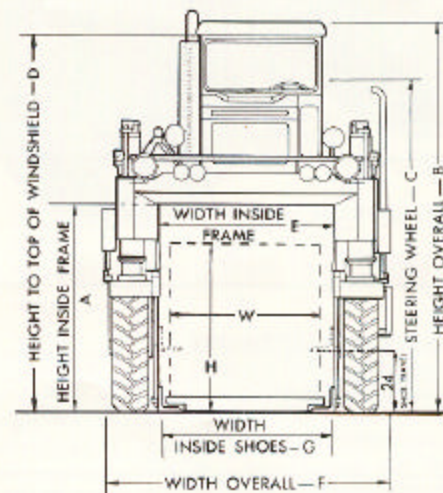
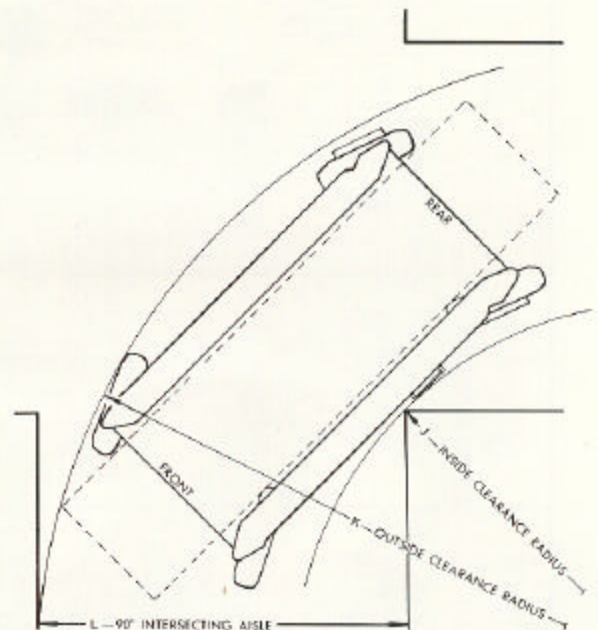
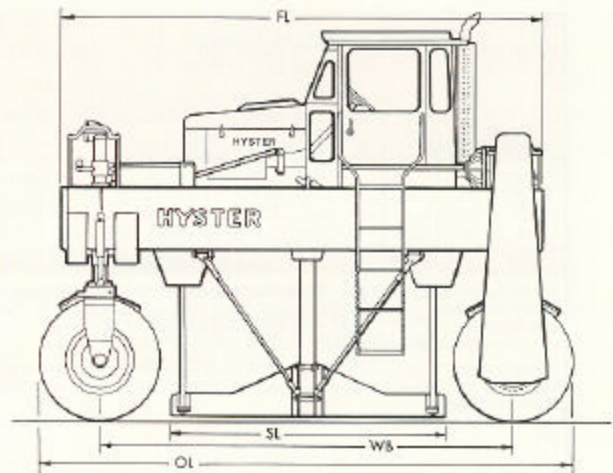
†Travel speeds and gradeability obtained with 15T driving sprockets and 12.00 x 20, 14 highway type tires.

#### BODY AND FRAME in. (mm)

FL	OL	SL	WB
194	4 930	212	5 365
		116	2 945
		168	4 265

#### TIRES

Standard	Optional
12.00 x 20, 14 PR highway type	12.00 x 20, 16 PR off-the-road
	14.00 x 20, 18 PR highway type



\*NOTE: Performance specifications are affected by the condition of the vehicle and how it is equipped, as well as the nature and condition of the operating area. If these specifications are critical, the proposed application should be discussed with your dealer.



## HYSTER COMPANY

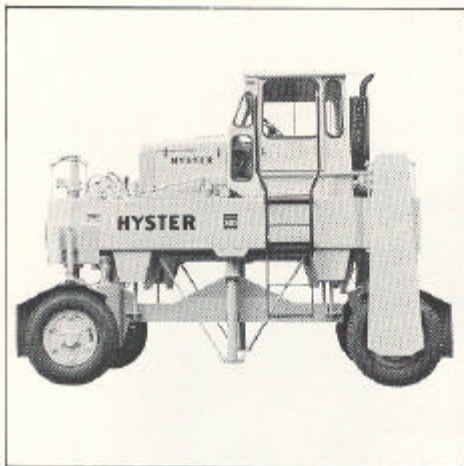
Industrial Truck Operations

Box 334, Danville, Illinois 61832

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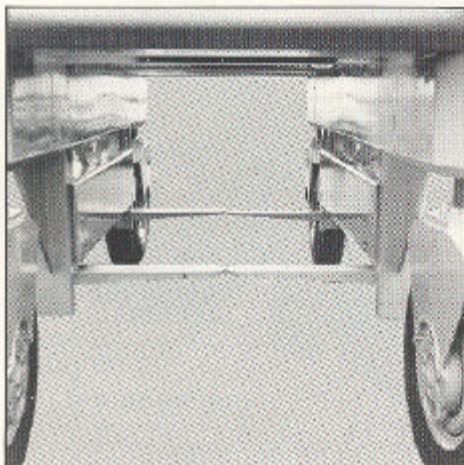
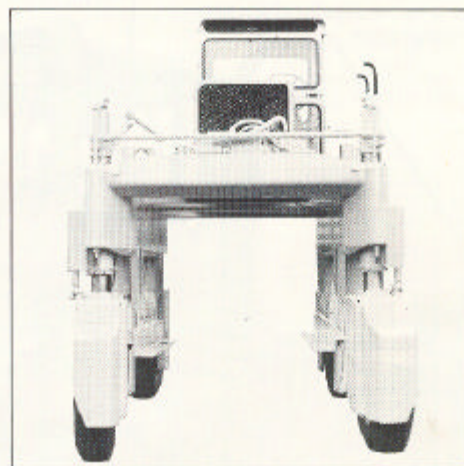
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### OPTIONS

- Diesel Engine
- Wheel Guards
- Lighting Systems
- Hydraulic Pivoting Forks (M300H)
- Special Paint
- Fire Extinguisher
- Optional Sprockets



**M300H PIVOT FORK OPTION** above is designed for handling loose or packaged unit loads without conventional bolsters. When positioning a load, the forks are parallel to the frame side, and then the forks are hydraulically pivoted 90° inward beneath load to pick it up. Forks support load across entire width.

#### M300H PIVOT FORK OPTION

- Available on M300H with following frame sizes:  
Heights: 67.8" (1 720 mm), 73.8" (1 875 mm), 79.8" (2 025 mm)  
Width: 57" (1 450 mm) and 63" (1 600 mm)
- Pivot Forks for 57" (1 450 mm) wide frame are 2.5" x 6" x 37.5" (64 mm x 150 mm x 955 mm). With forks extended inward (as in the above photo), the gap between opposing forks is less than 0.2 (5 mm). (Longer forks are available for wider frames.)
- Dimensions for M300H with Pivot Forks are the same as standard M300H with one exception—the width inside forks is the same as the width inside frame.