

# **LOG GRAPPLES AND FORESTRY TRAILERS**



***Excellence in the field !***



# One Team - One Goal

Hardy Equipment has specialized in loader manufacturing for more than 35 years. From the experience gained in these years, we have extended our manufacturing to include forestry products. Our quality image, known throughout Canada and the United States, continues to be shown through our new models of log grapples and forestry trailers.

Your choice of Hardy Equipment products will convince you that both the high standards of manufacturing and the professionalism of all employees team together to prove our motto "Excellence in the field". This is our goal to offer the best products available to satisfy you, our customer !

## Log Grapples A New Concept

### Loader Model 950ST for compact tractors or ATV's



### Advantages of the model 950ST

- A single lever-control system
- Continuous grapple rotation
- Two hydraulic stabilizers, individually activated
- Mast rotation on ball bearing
- Mast rotation 360 degrees

### Strength in a smaller size

950ST Loader has been specially designed to be used from an ATV or compact tractor. Easily transportable and highly maneuverable, this model is ideal for forestry work in confined areas.

### Options

The optional hydraulic unit for model 950ST includes:

- 5 HP engine
- 10 liters reservoir/tank (2.2 gallons)
- hydraulic oil filter
- in-tank strainer (hyd. reservoir)
- relief valve



Hydraulic adjustable tandem (an additional hydraulic outlet required).

Highway package available.

Flotation tires 26"x12"x12" & 27"x10.5"/15 NHS.

Bucket for mini-excavation with cylinder.



Ideal for mini-excavation work, this handy 23 ft<sup>3</sup> dump box adds to the range of tasks that you can accomplish. Please inquire !



*The best quality  
at the right price*



**HARDY**

# Controls and Base Mount

## The Command Center of the Hardy Loader

### Log Loaders 950ST, 1200ST, 1400ST, 1700ST, 1700DL and 1800ST

The log loaders developed by Hardy include models for use with ATVs, trucks, and compact or regular tractors. These six models are of a robust construction using high quality structural steel in order to ensure maximum lift capacity. The various options allow you to configure the equipment according to your need (see the specifications table and options on page 4).

### Three decisive advantages

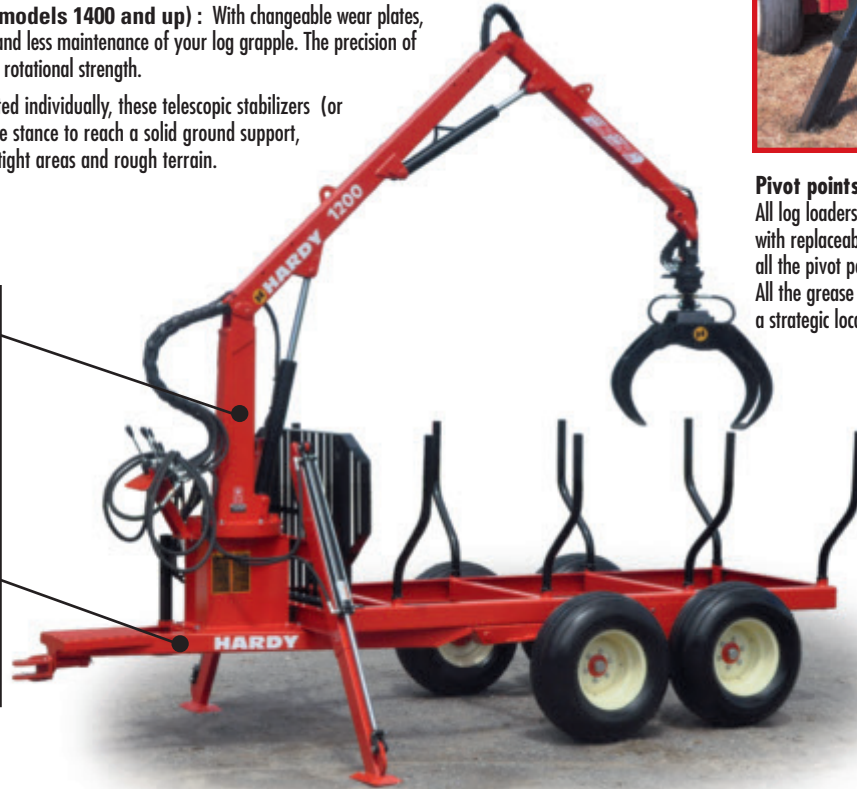
- **Smooth operating rotation :** The supporting mast is mounted on ball bearings which facilitate a smoother rotation. The distance between the bearings on the lower portion of the vertical mast allows for heavier loads.
- **Hardy rack and pinion system (models 1400 and up) :** With changeable wear plates, this system ensures higher durability and less maintenance of your log grapple. The precision of the rack and pinion allows for greater rotational strength.
- **Independant stabilizers :** Operated individually, these telescopic stabilizers (or butterfly on the 950ST) ensure a wide stance to reach a solid ground support, which effectively stabilizes loader in tight areas and rough terrain.



### Pivot points :

All log loaders are equipped with replaceable bushings at all the pivot points.

All the grease nipples are protected or are placed at a strategic location.



### 6 function joystick kit

Allowing you to have both hands on the control levers, this optional kit makes it easier for the operator to open or close the clam.

### New loader model 1200ST

(Maximum boom reach : 12 ft)

- Improved design, better capacity and lighter than the model 1150ST discontinued.
- Greater boom reach.
- Self-lubricating polymer bushings.

### New tandem trailer model 2700ST

This new 2700ST trailer replaces models 2500ST and 2800ST. It is lighter and has a stronger tandem. It is also available as a highway unit.

## Tandem trailers

### For strong and gentle transportation

### Advantages of the 2300ST, 2700ST, 3200ST-DL and 5200ST-DL trailers models

- A mono-beam system for better manoeuvrability and less weight.
- Protection rail in front.
- Jack support for storing.
- Adjustable tandem system to suit length of load.
- Pivoting stakes to minimize breakage.
- The 3200ST and 3200DL models are equipped with easily adjustable stakes and additional stakes are optional.



### Hydraulic winch

An optional hydraulic winch is available (galvanized steel cable 1/4" by 100 ft long).



### Log Loader model 1200ST

(Maximum boom reach : 12 ft)

### Trailer model 2700ST



### Log Loader model 1700ST

(Maximum boom reach : 17 ft)

### Trailer model 3200DL

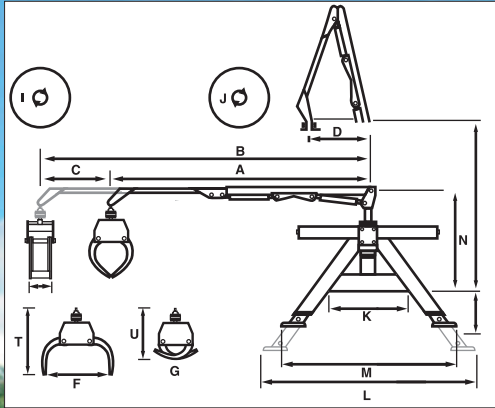


### Hydraulic pole

Models 3200DL and 5200DL have an articulated hydraulic pole to facilitate turning in tight spaces.

# Specifications

Reference for the log loaders



## Trailers

MODEL	2300ST		2700ST		3200ST-DL		5200ST-DL	
Overall length	13' 2"	4,01 m	15' 1"	4,6 m	18' 7"	5 m	20'	6 m
Overall width	57 1/2"	1,46 m	70"	1,78 m	78"	2 m	84"	2,2 m
Overall height	52 1/2"	1,33 m	62"	1,58 m	78"	2 m	80"	2,0 m
Ground clearance	13"	33 cm	18"	0,46 m	19"	48 cm	28"	71 cm
Load length	8'	2,4 m	10'	3,05 m	12' 6"	3,8 m	14' 6"	4,4 m
Volume capacity	0,54 cord 1,96 m³		1 cord 3,63 m³		1,75 cord 6,34 m³		2,25 cord 8,15 m³	
Weight	742 lb	337 kg	1 175 lb	533 kg	1 860 lb	844 kg	2 535 lb	1 152 kg
Load capacity	4 tons 3 629 kg		4 tons 3 629 kg		6 tons 5 443 kg		13 tons 11 793 kg	
Pole	Fix		Fix		Fix - hydraulic		Fix - hydraulic	
Jack	Yes		Yes		Yes		Yes	
Hitch: ball / clevis, swivel	Your choice		Clevis		Clevis		Clevis	
Adjustable side stakes	No*		No*		Yes		No*	
Adjustable tandem	Bolted		Bolted		Bolted		Not available	
Axle diameter	1,75"	4,45 cm	1,75"	4,45 cm	2"	5,08 cm	2,75"	6,99 cm
Tire size	7,0-15 LT		11 L 15 (8 ply)		12,5 L 15 (10 ply)		12 R x 22,5 used	
<b>OPTIONS</b>								
Extra set of stakes	Not available		Not available		Option		Not available	
Hydraulic tandem	Option		On request		Not available		Not available	
Dumping box	Option		Option		Not available		Not available	
Optional tires	Flotation		On request		Not available		16,5L16,1(10 ply)	
Highway package	Option		Option		Not available		Not available	
Recommended grapple	950ST		1200ST		1400ST to 1700DL		1400ST to 1800ST	

\* Configured for 4' logs

N.B. : Design and specifications subject to change without notice.

## Log Loaders

MODEL	950ST		1200ST		1400ST		1700ST		1700DL		1800ST	
A- Maximum boom reach	9' 6"	2,6 m	12'	3,66 m	14'	4,27 m	17'	5,18 m	17'	5,18 m	18'	5,49 m
B- Maximum telescopic boom reach	-	-	-	-	-	-	-	-	20' 8"	6,13 m	-	-
C- Telescopic extension	-	-	-	-	-	-	-	-	3' 8"	1,12 m	-	-
D- Minimum boom reach	32 3/4"	83,2 cm	35"	88,9 cm	41"	1,04 m	47"	1,143 m	47"	1,2 m	66"	1,68 m
E- Grapple model	light-duty		intermediate		robust		robust		robust		robust	
F- Maximum grapple opening	31"	0,79 m	38 1/2"	0,98 m	50"	1,27 m	50"	1,27 m	50"	1,27 m	50"	1,27 m
G- Minimum grapple closing	3"	7,6 cm	4"	10,16 cm	5"	12,70 cm	5"	12,70 cm	5"	12,70 cm	5"	12,70 cm
I- Grapple rotation	continuous		continuous		continuous		continuous		continuous		continuous	
J- Boom rotation	360°		330°		375°		375°		375°		400°	
K- Base size	30 1/2"	0,77 m	44"	1,12 m	41"	1,04 m	41"	1,04 m	41"	1,04 m	56"	1,42 m
L- Stabilizer reach during work mode	86"	2,18 m	100"	2,54 m	108"	2,74 m	108"	2,74 m	108"	2,74 m	117"	2,97 m
M- Stabilizer transport width	42"	1,06 m	69"	1,75 m	76"	1,93 m	76"	1,93 m	76"	1,93 m	87 1/2"	2,22 m
N- Boom height	48 11/16"	1,24 m	63"	1,6 m	72"	1,83 m	81"	1,83 m	81"	1,83 m	81"	1,83 m
1- Boom rotation cylinder	hydraulic motor		hydraulic motor		3"		3"	7,62 cm	3"	7,62 cm	3"	7,62 cm
2- Stabilizer cylinder	2"		2"		2"		2"		2"		2"	
3- Boom cylinder	2 1/2"		3"		3 1/2"		4"		4"		4"	
4- Forears cylinder	2 1/2"		2 1/2"		3"		3 1/2"		3 1/2"		3 1/2"	
5- Grapple cylinder	2 1/2"		3"		3 1/2"		3 1/2"		3 1/2"		3 1/2"	
6- Lift capacity at maximum boom reach at maximum telescopic boom reach	810 lb	368 kg	1 500 lb	680 kg	1050 lb	476 kg	1 060 lb	481 kg	970 lb	440 kg	2 450 lb	1 111 kg
7- Lift capacity at : at minimum boom reach	8 pi 2,43 m	-	1 910 lb	866 kg	2 250 lb	1 021 kg	3 000 lb	1 361 kg	2 475 lb	1 123 kg	5 265 lb	2 388 kg
8- Grapple weight <sup>a</sup>	96 lb	43 kg	220 lb	100 kg	320 lb	145 kg	320 lb	145 kg	320 lb	145 kg	345 lb	156 kg
9- Total loader weight	712 lb	323 kg	1 055 lb	479 kg	2 150 lb	975 kg	2 550 lb	1 157 kg	2 750 lb	1 247 kg	3 120 lb	1 418 kg
10- Recommended hydraulic pressure	2 500 PSI 175 bars		2 500 PSI 175 bars		2 500 PSI 175 bars		2 500 PSI 175 bars		2 500 PSI 175 bars		2 700 PSI 186 bars	
11- Recommended hydraulic flow	1 @ 2gpm <sup>b</sup>		3 gpm <sup>b</sup>		5 @ 8gpm <sup>b</sup>		5 @ 8gpm <sup>b</sup>		5 @ 8gpm <sup>b</sup>		6 @ 9gpm <sup>b</sup>	
12- Manual valve	X		X		X		X		X		X	
13- Grapple motor (capacity)	2 248 lb	1 022 kg	4 410 lb	2 005 kg	4 410 lb	2 005 kg	4 410 lb	2 005 kg	4 410 lb	2 005 kg	6 600 lb	3 000 kg
<b>OPTIONS</b>												
Hydraulic winch	Option		Option		Option		Option		Option		Option	
6 function joystick kit	Option		Option		Option		Option		Option		Option	
Bucket + cylinder	Option		Option		Not available		Not available		Not available		Not available	
Adjustable seat option including ramp	Not available		Not available		Not available		Not available		Option		Option	
Hydraulic power pack - ATV mounting	5 HP, 2GPM		Not available		Not available		Not available		Not available		Not available	
Hydraulic power pack - trailer mounting	5 or 5.5 HP, 2GPM		9 HP, 3.5 GPM		11 HP, 6GPM		11 HP, 6 GPM		11 HP, 6 GPM		11 HP, 6 GPM	
3 point hitch mounting	Option		Option		Option		Option		Option		Option	

Including hydraulic motor and gimble

Option: Flow divider to obtain the required GPM

N.B. - These figures are calculated according to S.A.E. and could vary. - Design and specifications subject to change without notice.



info@gohardy.com  
www.gohardy.com

Les Équipements Hardy inc.

100, Saint-Arthur, Portneuf (Québec) Canada G0A 2Y0

Tél.: 418-286-6621 et 1-877-994-2739 Téléc.: 418-286-3733

Dealer: