



DIMENSIONS

DIMENSION	HA-5	HW-5	HA-10	HW-10	HA-20	HW-20	HA-30	HW-30	HA-40	HW-40
A	2	2	2½	2½	3	3	2½	2½	3½	3½
B	3¼	3¼	4½	4½	5½	5½	5¾	5¾	8	8
C	2¾	2¾	3	3	3½	3½	9	9	8	8
D	6¾	3¾	7¾	4¾	8¾	5¾	17	6¾	18¾	9
E	1½	1½	2	1¾	1½	2	9¼	2¼	8¾	3½
F	9	9¾	12	11¾	12	14	36	21¾	36	25¾
G	2¼	3	3	3½	3¾	4	4	4	5⅞	6⅞
H	4¼	5¾	5¾	6¾	7½	8¾	8¾	9¼	11	12¾
J	1¾	1¾	2¼	2¼	2½	2½	3¼	3¼	4⅞	4⅞
K	5½	6	7¾	8¼	8¾	9¾	9	10¾	12⅞	9¾
L	3½	3¾	4¾	4¾	5¾	4¾	6	5½	8⅞	5¼
M	1	¾	1½	¾	1½	¾	1½	½	2	¾
N	¾	4½	¾	5½	¾	6½	¾	6½	¾	6¾
P	1	2¼	1½	2¾	2	3¼	1½	3¼	2	3¾
Q	1¾	1¾	2⅞	2⅞	2¾	2¾	3¾	3¾	3⅞	3⅞
R	3¾	8¾	4⅞	10	5¾	12	7¼	19½	7¾	22¼
S	.500	.500	.625	.625	.750	.750	.750	.750	.750	.750
T	⅞	⅞	1¾	1¾	1¾	1¾	1	1	⅞	⅞
U	—	¾	—	¾	—	1	—	1¾	—	1½
V	⅞ x ⅞	⅞ x ⅞	¾ x ¾	¾ x ¾	¾ x ¾	¾ x ¾	¾ x ¾	¾ x ¾	¾ x ¾	¾ x ¾
W	—	⅞	—	⅞	—	¾	—	¾	—	⅞

Gear Ratio

The gear ratio makes it possible for one man to move very heavy loads, with easy turning of the handle.

Winch Base

The winch base is constructed of steel. All castings in the Model HA and Model HW winches are aluminum alloy. This alloy has great strength and elasticity.

Bronze Gear

The gear is of the very best bronze and is precision machined.

Worm

The steel worm and shaft is of one piece construction, hardened and ground.

Bearings

Angular contact ball thrust bearings are used on the worm shaft.

Rotating Handle

The crank handle has rotating hand ferrule with pressure grease fitting.

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SPECIFICATIONS

MODEL NUMBER	CAPACITY (pounds)	DRUM SIZE (inches)		WIRE ROPE CAPACITY OF DRUM	GEAR RATIO	PULL IN POUNDS TO LIFT FULL CAPACITY	NET WEIGHT (pounds)
		DIA.	LENGTH				
HA-5	500	2"	2¾"	70' of ¼"	20 to 1	10	7
HW-5	500	2"	2¾"	70' of ¼"	20 to 1	10	16
HA-10	1,000	2½"	3"	80' of ⅜"	30 to 1	15	16
HW-10	1,000	2½"	3"	80' of ⅜"	30 to 1	15	28
HA-20	2,000	3"	3½"	78' of ¼"	38 to 1	25	26
HW-20	2,000	3"	3½"	78' of ¼"	38 to 1	25	40
HA-30*	3,000	2½"	9"	150' of ⅜"	40 to 1	40	43
HW-30*	3,000	2½"	9"	150' of ⅜"	40 to 1	40	60
HA-40*	4,000	3½"	8	175' of ⅜"	60 to 1	40	80
HW-40*	4,000	3½"	8	175' of ⅜"	60 to 1	40	85

*These models are furnished with clutch to free spool drum for quick easy playing out of the wire rope.