

AMCON MODEL 220

(Standard Stock Unit)

September 8, 1978

Typical single-drum line pull in pounds and line speed in feet per minute with a Detroit Diesel Model 353N45 driving through an Allison Model TCD-357 torque converter.

PERFORMANCE DATA

	9th Layer		5th Layer		1st Layer	
	<u>SLP</u>	<u>SLS</u>	<u>SLP</u>	<u>SLS</u>	<u>SLP</u>	<u>SLS</u>
High 70% Eff.	2,770 @	511	3,620 @	390	5,240 @	271
	4,150 @	450	5,440 @	344	7,860 @	238
	4,290 @	409	5,620 @	312	8,120 @	216
	4,570 @	368	5,980 @	281	8,650 @	194
	4,850 @	327	6,340 @	250	9,170 @	173
Max Eff.	5,540 @	286	7,250 @	219	10,480 @	151
	6,650 @	245	8,700 @	187	12,580 @	130
	8,310 @	184	10,870 @	140	15,720 @	97
	9,000 @	163	11,800 @	125	17,030 @	86
Low 70% Eff.	10,250 @	129	13,407 @	98	19,400 @	68
	10,520 @	123	13,770 @	94	19,910 @	65
	12,460 @	82	16,305 @	62	23,580 @	44
	14,960 @	41	19,570 @	31	28,300 @	22
Stall	18,120		23,720		34,300	

AMERICAN

MODEL 220 HOIST

Specifications (Tentative)

Line Pull (Hook work rating), LB.	22,000
Line Pull (Anchor rating), LB.	28,000
Line Pull (Max. stall), Lb.	42,000
Line Pull (Max. dog holding), LB.	70,000
Rope Size, IN.	1-1/8
Drum Dia., IN.	16
Drum Width, IN.	28.5
Flange Dia., IN.	36
Brake Dia. x Width, IN.	32 x 4
Brake Holding, LB.	55,000
Clutch Dia. x Width, IN.	25 x 3-3/4
Drum Shaft Dia., IN.	4-3/8
Drum Gear P.D.	34
No. of Teeth	102
D.P.	3
Face Width, IN.	3-3/8
Pinion P.D.	6
No. of Teeth	18
Drive Shaft Dia., IN.	3-9/16
Chain Drive Type	Roller
Size	5/8P-3 Strand
Sprocket P.D., IN.	30.6

AMCON MODEL 220
SPECIFICATIONS

DRUM DIMENSIONS:

Flange Diameter	36"
Drum Diameter	16"
Drum Length	28.5"

Spooling Capacities:

3741' of 3/4" wire rope
2576' of 7/8" wire rope
2135' of 1" wire rope
1549' of 1-1/8" wire rope

Drum Brakes (Double Std):

Diameter	32"
Width	3-3/4"

Brake Holding Power First Layer:
Static Service - 55,000 lbs.
Static Service + Parking - 80,000 lbs.

Drum Clutches (Double Std):

Diameter	25"
Width	3-3/4"

Approximate Weights

Single Drum	10,000
Double Drum	16,385
Three Drum	23,320