MODEL SUPER 88
SWING YARDER

SHIPPING WEIGHT
With lines and fuel shipping weight is 93,800 lbs.

POWER PLANT
It is equipped with a Twin Disc TD-44-1131 transmission, with four speeds forward and four speeds reverse, and a Twin Disc 8FLW 1601 single stage torque converter. John Deere engine 6090HF485, 350 HP, 2200 RPM.

INTERMEDIATE SHAFT
The intermediate drive shaft assembly, which includes the straw drum unit, is driven by a belt from the power plant. The main drum pinion, clutch, two haulback drum pinions, spragg for selecting inhaul/outhaul gear ratio.

DRUMS
The rear main, haulback, and strawline drums are equipped with hydraulic actuated clutches and hydraulic parking brakes. The front main is equipped with a hydraulic actuated clutch and a spring set parking brake. The front main can be rotated in the opposite direction from the rear main to pull slack for a dropline carriage or to operate a grapple. The haulback drum is interlocked to the main drum by means of clutches and two gears, one for inhaul and one for outhaul.

THE HAULBACK DRUM assembly consists of the drum, bearings, service brakes, parking brakes, two bull gears, and an oil cooled clutch. The larger bull gear is engaged for the inhaul cycle and the smaller gear for outhaul. The interlock system is designed to minimize horsepower loss at high line tensions. The caliper type service brakes are mounted on the bearing housings for positive alignment and maximum stability.

REAR MAIN DRUM assembly consist of the drum, bearings, service brakes, parking brake, bull gear, reversing clutch, and drive sprockets. The bull gear drives the front main drum; the sprocket in engaged to drive the front main in the opposite direction for operating a drop line carriage or a grapple. The caliper type service brakes are mounted on the bearing housings for positive alignment and maximum stability.

FRONT MAIN DRUM assembly consists of drum, bearings, parking brake, bull gear with clutch, and a driven sprocket. The rear main drum bull gear normally drives the front drum; the sprocket is driven to operate the drop line carriage or grapple.

STRAWDRUM is mounted on the intermediate drive shaft assembly on ball bearings. It is equipped with a clutch and a caliper type disc brake.

Two **GUY DRUMS** are standard, each powered in either direction by independent hydraulic motor and chain drive. Guy drums are held in place by spring set, hydraulic released dogs. The guy lines are singlepart type for ease of yarding along a road. The guy lines are used to raise and lower the boom and "A" frame.

SWING ASSEMBLY
The swing unit assembly is powered by a vane type hydraulic motor, with gears and pinions housed in a fabricated steel case.

CRAWLER CARRIER
The carrier incorporates Hitachi 270 EX
Travel speed is approximately 4 MPH; gradability up to 25%.

LIVE BOOM AND "A" FRAME
The independent boom can be raised and lowered separate from the guylines. The "A" frame is raised and lowered by the guylines and are controlled from the operators cab or boom, gantry, guyline operation all controlled from a cordless hand held remote control, allowing the operator complete control, visibility and solo operation of the functions. They fold over the end of the machinery platform and rest on the carrier-mounted boom support for one piece moves. The "A" frame, Which includes the guyline drums and lead sheaves, is designed to minimize guyline loading. The boom incorporates three large diameter, wide throat sheaves and two sets of side rolls.

OPERATOR'S CAB AND CONTROLS
The operator's cab tilts forward for ease of highway transport. The cab is located for maximum view of operating drums and landing. It is completely guarded and equipped with heater, defroster, air conditioning, windshield wiper, horn, and side opening window. All clutch, brake, swing, transmission controls are positioned to give the operator control of the rigging at all times. Fully electronic touch screen puts all functions at your fingertips. Travel, swing and strawline all on one handle, select on screen which function is required.

LINE SPEEDS AND PULLS

DRUMS	REAR MAIN	FRONT MAIN	HAULBACK	STRAW	GUYLINE
Maximum Line Pull (LB)					
Full	54,000	23,300	17,000	3,600	6,380
Empty	60,000	26,100	20,000	13,000	9,850
Maximum Line Speed (FPM)					
Full	2,700	2,700	3,160	5,950	140
Empty	2,400	2,400	2,700	1,650	90

RUNNING SKYLINE CABLE

DRUMS	REAR MAIN	FRONT MAIN	HAULBACK	STRAW	GUYLILNE
Line Capacity (Ft-Dia)	1750'-3/4"	1750'-3/4"	3500'-3/4"	4450'-3/8"	(3) 100'-1" (3) 150'-7/8"