

# ENGINEERING DATA AND SPECIFICATIONS

## TYPICAL SPEEDS AND PULLS FOR SERIES IJ INTERLOCK SKAGIT YARDERS

Following are line pulls in pounds and speed in feet per minute for the IJ-90 Interlock Yarder with drums half full of cable based on General Motors Model 12V-71N with TC-3F3R three-speed forward and reverse transmission and single stage torque converter with a sprocket ratio of 94 to 21; see Note below.

MAIN DRUM				HAULBACK DRUM			
Converter Range	Ratio to Transmission	High	Low	Ratio to Transmission	High	Low	
Maximum Efficiency	4.09 to 1	39,100 @ 259	67,200 @ 156	4.09 to 1	32,600 @ 323	62,000 @ 170	
	2.00 to 1	19,150 @ 550	33,000 @ 320	1.38 to 1	11,000 @ 956	21,000 @ 504	
	1.03 to 1	9,860 @ 1065	17,000 @ 620	.685 to 1	5,460 @ 1930	10,400 @ 1010	
Low 70 per cent	4.09 to 1	67,000 @ 115	115,000 @ 69	4.09 to 1	55,600 @ 147	106,000 @ 75	
	2.00 to 1	32,700 @ 244	56,400 @ 141	1.38 to 1	18,800 @ 425	35,800 @ 223	
	1.03 to 1	16,890 @ 515	29,000 @ 274	.685 to 1	9,350 @ 856	17,700 @ 450	
Stall	4.09 to 1	101,000	174,000	4.09 to 1	84,000	160,000	
	2.00 to 1	49,400	85,200	1.38 to 1	28,400	54,000	
	1.03 to 1	25,500	44,000	.685 to 1	14,100	26,800	

**NOTE:** Skagit Series IJ Yarders are designed for maximum utilization of available horsepower. Speeds and pulls will vary depending on the engine and sprocket ratios specified as optional equipment. Total performance of the IJ-80 is comparable to the IJ-90 with variations of the speed and pull ratios resulting from differences in drum sizes and cable diameter. Various suitable power units for the IJ-80 and IJ-90 are available. Consult your Skagit Representative or the Factory for Complete Information.

SPECIFICATIONS	IJ-80	IJ-90
<b>MAIN DRUM</b>		
Flange Diameter	44"	50"
Barrel Diameter	16"	21"
Barrel Length	22"	22"
Cable Capacities	1900' - 1 1/8" 1550' - 1 1/4"	1900' - 1 1/4" 1560' - 1 3/8"
<b>HAULBACK DRUM</b>		
Flange Diameter	44"	50"
Barrel Diameter	16"	21"
Barrel Length	22"	22"
Cable Capacities	4300' - 3/4" 3160' - 7/8"	3900' - 7/8" 3000' - 1"
<b>STRAW DRUM</b>		
Flange Diameter	41"	41"
Barrel Diameter	10"	10"
Barrel Length	8"	8"
Cable Capacities	5880' - 3/8" 4330' - 7/16"	5880' - 3/8" 4330' - 7/16"

SPECIFICATIONS	IJ-80	IJ-90
HORSEPOWER RANGE		
Up to	500 HP	500 HP
<b>TRANSMISSION:</b>		
TC-3F3R	Three speed forward and three speed reverse power shift transmission and single stage converter.	Three speed forward and three speed reverse power shift transmission and single stage converter.
<b>APPROXIMATE DIMENSIONS (MHS)</b>		
Length	14' 4"	14' 10"
Width	12' 3"	12' 3"
Height (with cab)	12' 6"	12' 6"
Height (without cab)	9' 5"	9' 5"
<b>APPROXIMATE WEIGHT (MHS)</b>		
	37,500 Pounds	40,000 Pounds

**SKAGIT CORPORATION IS** recognized as the World's Leader in the development, design and manufacture of Logging Equipment. The new series of Interlock Yarders is engineered and built to maintain this leadership. This is one Series in the Complete Line of Skagit Yarders, Loaders, Mobile Loggers, Pre-Rigged Steel Towers and Radio Controlled Skycars . . . all produced in closest cooperation with the Logging Industry and the product of more than 60 years serving the Logger. FOR DETAILED INFORMATION ON INTERLOCK YARDERS OR ANY OF SKAGIT'S COMPLETE LINE OF LOGGING EQUIPMENT, CONSULT YOUR AUTHORIZED DEALER OR THE FACTORY

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