



Haggie NORTH AMERICA Inc.

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Meeting your hoisting needs!

Note: All underlined cells are variables that must be entered for the particular hoist application.

HOIST DRUM ROPE CAPACITY

DRUM DIAMETER AT BOTTOM OF ROPE GROOVE (INCHES)	<u>216</u> in
DRUM WIDTH (INCHES)	<u>79.32</u> in
DRUM GROOVE PITCH (INCHES)	<u>2.362</u> in
NOMINAL ROPE DIAMETER (INCHES)	<u>2.25</u> in
NUMBER OF LAYERS	<u>4</u>

NUMBER OF WRAPS PER LAYER	33.6
ROPE LAYER RADIUS FACTOR	3.83 in

CIRCUMFERENCE OF FIRST LAYER	57.1 ft
AMOUNT OF ROPE ON THE FIRST LAYER	<u>1918.8</u> ft

CIRCUMFERENCE OF SECOND LAYER	58.1 ft
AMOUNT OF ROPE ON THE SECOND LAYER	1952.5 ft
TOTAL AMOUNT OF ROPE ON 2 LAYERS	<u>3871.2</u> ft

CIRCUMFERENCE OF THIRD LAYER	59.1 ft
AMOUNT OF ROPE ON THE THIRD LAYER	1986.1 ft
TOTAL AMOUNT OF ROPE ON 3 LAYERS	<u>5857.4</u> ft

CIRCUMFERENCE OF FOURTH LAYER	60.1 ft
AMOUNT OF ROPE ON THE FOURTH LAYER	2019.8 ft
TOTAL AMOUNT OF ROPE ON 4 LAYERS	<u>7877.2</u> ft

RESULT #1. DUMP POSITION DIFFERENCE WITH ONE WRAP OF ROPE MORE THAN THE OTHER DRUM:

FOR A 4 LAYER WIND =	3.0 ft
FOR A 3 LAYER WIND =	2.0 ft
FOR A 2 LAYER WIND =	1.0 ft

RESULT #2. AMOUNT OF ROPE TO REMOVE FROM DRUM WITH HIGHER DUMP POSITION:

DIFFERENCE IN DUMP POSITION BETWEEN SKIP A & B = 2.5 ft

NOTE: This value must be found while hoisting empty (with no load stretch in the rope)

AMOUNT OF ROPE TO REMOVE:

FOR A 4 LAYER WIND =	50.0 ft
FOR A 3 LAYER WIND =	73.7 ft
FOR A 2 LAYER WIND =	145.0 ft