

TABLE 1 ROPES & SUSPENDED LOADS

Hoisting Distance (ft.)	1380
Suspended Rope (ft.)	1410

HEADROPES

Type	18 x 7 Non- Rotating
Diameter (in.)	0.875
Breaking strength (lb.)	79500
Weight/foot (lb.)	1.42
Drum/rope diameter	58/1

SUSPENDED LOADS (lb.)

Headrope	2000
Payload	5000
Bucket plus crosshead	3000

ROPE TENSIONS (lb.)

Loaded bucket at shaft bottom	10000
Loaded bucket at dump	8000

MAX. UNBALANCE LOADS (lb.)

Clutched in	7000
- % Motor Full Load Torque	78
Unclutched	10000
- % Motor Full Load Torque	127

ROPE FACTORS OF SAFETY

- Loaded bucket at shaft bottom	7.95
- Loaded bucket at Dump	9.94

DRUM PARAMETERS

P.C.D. First Layer of Rope (in.)	51.5
Drum Face (in.)	36
Turns, first layer	38
Dead Turns	10

ACTIVE ROPE (ft.)

First Layer (28 turns)	377
Second Layer (32 turns)	513
Third Layer (38 turns)	540
	<u>1430</u>