

SECTION I

INTRODUCTION

1-1. SCOPE

The TSE Model SDP-70 is a skid-mounted puller powered by an electric motor. The winch drum is driven with a closed loop hydraulic drive system with infinite speed control for pull-in and pay-out.

1-2. SPECIFICATIONS

DIMENSIONS AND WEIGHTS (APPROXIMATE)

Length.....	105"
Width	74"
Height	63" (Screen down)
Weight	4,500 Lbs.

MAXIMUM REEL

Outside Reel Diameter	60"
Overall Width	47"
Maximum Reel Weight	6,000 Lbs.

POWER

Type	Electric Motor – 30 HP (460/3/60 V/AC)
------------	--

HYDRAULIC SYSTEM

Pump	Axial Piston, Variable Displacement
Motor	Axial Piston, Fixed Displacement

1-3. PERFORMANCE

Continuous Torque	84,000 Inch Lbs.
Continuous Line Pull (24" Core)	7,000 Lbs.
Maximum Torque	90,000 Inch Lbs.
Maximum Line Pull (48" Dia.)	7,500 Lbs.
Maximum Line Speed	16 rpm (no load)

“THEORETICAL” HYDRAULIC PRESSURE VERUS LINE PULL (Total Reduction 48.6:1)				
Pressure	24 INCH	36 INCH	48 INCH	58 INCH
500	910	606	455	364
1,000	2,210	1,473	1,105	884
1,500	3,510	2,340	1,755	1,404
2,000	4,810	3,206	2,405	1,924
2,500	6,110	4,073	3,055	2,444
3,000	7,410	4,940	3,705	2,964

The inherent power of this machine makes it possible for the operator to damage the reel by applying excessive tension to the synthetic rope.

The reel warranty is void when 16% of the breaking strength (or maximum manufacturer’s recommended working load) of the rope is exceeded.