



DEVELOPED FOR P&A, SLOT RECOVERY AND FISHING OPERATIONS

BENEFITS

- Industry proven
- Applies pulling loads at stuck point, not at the surface
- Mitigates limited rig capacity
- No jarring required - mitigates damage to work string, derrick/top drive/hoisting equipment due to tension and high shock loads
- Simple to operate with time saving rig up and rig down when compared to surface jacking systems
- Minimize the need for casing milling in slot recovery operation
- Eliminate the need for casing exit and maintain original hole size in slot recovery
- Modular - can be deployed separately or with TITAN System for one trip cut and pull operations

HSE

- Reduced risk of falling objects when jarring
- Reduced handling and disposal of swarf
- Eliminate the need to rig up heavy lifting casing jacks
- Minimize equipment transport and/or footprint at well site

DHPT Specifications

DHPT OD	Casing Size	Casing Weights	Casing ID Range	Cage OD	Number of Slip Segments	Stroke Length	Tool Weight
3.500 in 88.90 mm	4-1/2 in 114.30 mm	9.5 to 18.8 lb/ft 14.14 to 27.98 kg/m	3.640 to 4.090 in 92.46 to 103.89 mm	3.500 in 88.90 mm	6	2 ft 0.60	815 lbs 370 kg
	5 in 127 mm	18 to 31.60 lb/ft 26.79 to 44.94 kg/m	3.626 to 4.276 in 92.10 to 108.61 mm	3.500 in 88.90 mm	6	2 ft 0.60	815 lbs 370 kg
4.400 in 112.76 mm	5-1/2 in 139.70 mm	15.5 to 23 lb/ft 23.06 to 34.22 kg/m	4.670 to 4.950 in 118.62 to 125.73 mm	4.440 in 112.76 mm	4	3 ft 0.91 m	1,188 lbs 539 kg
5.750 in 146.05 mm	7 in 177.80 mm	20 to 38 lb/ft 29.76 to 52.08 kg/m	5.920 to 6.456 in 150.37 to 163.98 mm	5.750 in 146.05 mm	5	2 ft 0.60 m	2,184 lbs 993 kg
	7-5/8 in 193.68 mm	29.7 to 39 lb/ft 44.19 to 58.03 kg/m	6.625 to 6.875 in 168.28 to 174.63 mm	5.750 in 146.05 mm	5	2 ft 0.60 m	2,184 lbs 993 kg
	8-5/8 in 219.08 mm	60.6 lb/ft 90.18 kg/m	7.185 in 182.50 mm	5.750 in 146.05 mm	5	2 ft 0.60 m	2,184 lbs 993 kg
8.125 in 206.38 mm	9-5/8 in 244.48 mm	36 to 43.5 lb/ft 64.73 to 69.94 kg/m	8.755 to 8.921 in 222.38 to 226.60 mm	8.125 in 206.38 mm	8	2 ft 0.60 m	4,630 lbs 2,100 kg
	9-5/8 in 244.48 mm	47 to 53.5 lb/ft 69.94 to 79.61 kg/m	8.535 to 8.681 in 216.79 to 220.50 mm	8.125 in 206.38 mm	8	2 ft 0.60 m	4,630 lbs 2,100 kg
	10-3/4 in 273.05 mm	55.5 to 65.7 lb/ft 82.59 to 97.77 kg/m	9.560 to 9.760 in 242.82 to 247.90 mm	9.250 in 234.95 mm	8	2 ft 0.60 m	4,740 lbs 2,150 kg
11.250 in 285.75 mm	13-3/8 in 339.73 mm	61 to 72 lb/f 90.78 to 107.15 kg/m	12.347 to 12.515 in 313.61 to 317.88 mm	11.500 in 292.10 mm	5	3 ft 0.91 m	8,155 lbs 3,700 kg
	13-5/8 in 346.08 mm	79.1 to 88.2 lb/f 117.56 to 131.26 kg/m	12.375 to 12.491 in 314.33 to 317.27 mm	11.500 in 292.10 mm	5	3 ft 0.91 m	8,155 lbs 3,700 kg
	14 in 355.60 mm	86 to 100 lb/f 127.98 to 148.82 kg/m	12.413 to 12.613 in 315.29 to 320.37 mm	11.500 in 292.10 mm	6	3 ft 0.91 m	8,270 lbs 3,750 kg
	16 in 406.40 mm	65 to 146 lb/ft 96.73 to 217.27 kg/m	14.189 to 15.250 in 360.40 to 387.35 mm	13.500 in 342.90 mm	6	3 ft 0.91 m	9,260 lbs 4,200 kg
	18-5/8 in Slim 473.08 mm	87.5 to 100.5 lb/ft 130.21 to 149.56 kg/m	17.586 to 17.755 in 446.68 to 450.98 mm	16.000 in 406.40 mm	6	2 ft 0.60 m	10,140 lbs 4,600 kg
	18-5/8 in x 20 in (Combo) 473.06 x 508 mm	87.5 to 100.5 lb/ft 130.21 to 149.56 kg/m	17.586 to 17.755 in 446.68 to 450.98 mm	17.000 in 431.80 mm	6	2 ft 0.60 m	10,140 lbs 4,600 kg
	20 in 508 mm	106.5 to 133 lb/ft 158.49 to 197.93 kg/m	18.730 to 19.000 in 475.74 to 482.60 mm	17.000 in 431.80 mm	8	2 ft 0.60 m	10,140 lbs 4,600 kg

Strengths and dimensions for reference only

DHPT Specifications

Description	DownHole Power Tool (DHPT)				
	3.500 in 88.90 mm	4.440 in 112.76 mm	5.750 in 146.05 mm	8.125 in 206.38 mm	11.250 in 285.75 mm
Power Section OD	3.500 in 88.90 mm	4.440 in 112.76 mm	5.750 in 146.05 mm	8.125 in 206.38 mm	11.250 in 285.75 mm
Power Section ID	0.938 in 23.85mm	1.50 in 38.10 mm	1.50 in 38.10 mm	2 in 50.80 mm	1.50 in 38.10 mm
Make Up Torque	4,600 ft-lbs 6.25 kNm	4,600 ft-lbs 6.25 kNm	9,900 ft-lbs 13.5 kNm	25,000 ft-lbs 34.9 kNm	53,350 ft-lbs 73.70 kNm
Max. Pressure*	4,000 psi 275 bar	8,000 psi 551 bar	6,108 psi 421 Bar	7,050 psi 486 bar	5,960 psi 411 bar
Piston Area in²	24.74	36.31	85.60	148.72	294.98
Max. Force Generation*	170,000 lbs 85 tons	290,480 lbs 130 ton	522,845 lbs 233 ton	1,048,500 lbs 475 ton	1,758,100 lbs 797 ton
Total Length	26.90 ft 8.2 m	36.29 ft 11.1 m	39.75 ft 12.12 m	44.25 ft 13.5 m	44.24 ft 13.5 m
Tool Joint	NC 26 Box x NC 26 Pin	NC 26 Box x NC 26 Pin	NC 38 Box x NC 38 Pin	6 5/8 API Full Hole Box x NC 50 Pin	XT 57 Box x 6 5/8" Reg Pin

* at 100% force

Strengths and dimensions for reference only