

Peak PowerTool

The Peak PowerTool is a versatile modular downhole power system capable of deployment on all conveyance systems.

The modular Peak PowerTool can accommodate a wide range of different applications and conveyance methods through various configurations.

The short module length and nonexplosive drive ensure rapid deployment in the field.

During slickline operations, the PowerTool's intelligent Decision Module uses measurements of pressure, temperature, and tool movement to provide reliable downhole control.

The PowerTool is designed for versatility and can be operated in both forward and reverse modes. Different actuator modules address a wide range of applications with setting forces up to 180,000 lbf.

A unique feature of the PowerTool is the contingency to release from a plug or other downhole tool if they become stuck downhole. This feature enables the PowerTool to be reliably retrieved if problems occur and to reengage with the stuck equipment for subsequent recovery.

APPLICATIONS

- Setting and retrieval of permanent and retrievable plugs and packers
- Actuation of downhole sliding sleeves and side-doors
- Actuation of mechanical tubing punchers and cutters

FEATURES AND BENEFITS

- Nonexplosive drive system
- Configurable for a wide range of applications and force requirements
- Modular for deployment on slickline, e-line, coiled tubing, drillpipe and tractor
- Setting is independent of hydrostatic pressure
- Long stroke with reversible stroke direction
- Integrated contingency mechanical release system

TECHNICAL INFORMATION

PowerTool Drive	Temperature, degF [degC]	Hydrostatic Pressure, psi [MPa]	Drive OD, in	Make-Up Length, ft [m]
Slickline	329 [165]	10,000 [68.9]	3.375	10.62 [3.24]
E-Line	347 [175]			5.24 [1.6]
Coiled Tubing or Drillpipe	347 [175]			3.12 [0.95]

PowerTool Actuator Nominal Size, in	Temp., degF [degC]	Hydrostatic Pressure, psi [MPa]††	Actuator OD, in	Stroke Length, in [mm]	Approx. Force, lbf [N]		Make-Up Length [†] , ft [m]	
					Two Actuator Pistons	Three Actuator Pistons	Two Actuator Pistons	Three Actuator Pistons
4 ½	347 [175]	10,000 [68.9]	3.375	12 [304.8]	100,000 [‡]	4.79 [1.46]	150,000	6.51 [1.98]
5 ½			4.100		180,000	4.92 [1.50]	275,000	6.68 [2.04]
7			4.100					

† For CT/DP, length depends on force required and pressure delivery

‡ Lower force with shorter make-up length available on request

†† Higher hydrostatic 12,000 psi available on request

Product Code: Peak PowerTool / 810

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