

Next-Gen Hydraulic Rod Pump - Technical Specifications

Max stroke	120 [in]	150 [in]	240 [in]
Max stroke speed (full length)	7.5 [SPM]	5 [SPM]	2.5 [SPM]
Peak Polished Rod Load (PPRL)	27 [Klbs]	30 [Klbs]	40 [Klbs]
Stroke ratio adjustment	Yes		
Variable stroke length adjustment	.25" increments from 1" to total length		
Dual-unit configuration	Supports dual-unit configuration for increased flow and power		

Hydraulic Power Unit (HPU)	Soundproofed ISO 668 1D 10 foot container		
Continuous operation temperature	Standard	Winterized	Harsh environment
	0 to +50 [°C]	-20 to +50 [°C]	-40 to +50 [°C]
Max hydraulic working pressure	6000 [psi]		
Hydraulic oil type	Hydraulic fluids based on mineral oil		Environmentally approved fluids
	HL, HLP, HVLP		HEES
Oil conditioning system	ISO 4406 16/14/11 level and water separation system		
Counterbalance system	Standard fixed pressure nitrogen-bladder accumulator		Shared dynamic compensation via twin-well configuration
Slave cylinder	Standard two chambers ISO cylinder with nose leakage port		

Electric motor 40HP	480VAC 3PH 60Hz	400VAC 3PH 50Hz	380VAC 3PH 50Hz
Alternatives to electric motor	Upon request		
PLC communication protocol	EtherCat		
Sensor monitoring level	Standard	Enhanced	
	Essential IO-Link sensor package for key operational parameters	Extended IO-Link sensor suite for full predictive diagnostics and condition monitoring	
Pump Off Control (POC)	Yes		
Gas interference mode	Yes		
Pump clean-out routine	Yes		
Modern HMI interface	Yes		
Remote control/adjustment	Yes, requires subscription to HORIZON systems		
Remote alarming	Yes, requires subscription to HORIZON systems		

Third-Party SCADA compatibility	Yes (EtherCat)		
Applications	Deep, Deviated, High-volume wells, ESP or Gas lift conversion		
Replace/Competitive to	Rotaflex, Conventional & Enhanced Geometry Pumping Units		