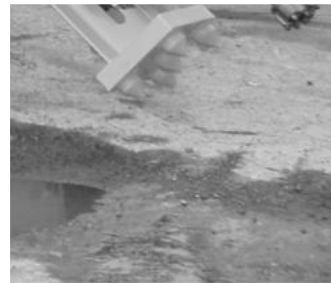


# HPV 32

## Surface down the hole rig



*more creativity, high productivity*



# TECHNICAL INFORMATION

## Drill Rig Specifications



### HPV 32

DRILLING DEPTH GUIDELINES				
DRILL ROD	Hole Ø "METRIC"	Hole Ø "U.S."	Hole Depth "METRIC"	Hole Depth "U.S."
Ø 76 mm X 3.000 mm 3" Hammer	90-95 mm	3,5 - 3,74 in	40 m	130 ft

BASE FRAME ASSEMBLY / UNDERCARRIAGE		
	METRIC	U.S.
Weight of the Rig	1.950 kg	4.299 lb
Length	5.180 mm	16,9 ft
Width	1.950 mm	6,4 ft
Height	1.800 mm	5,9 ft
Stabilization	Two hydraulic jacks behind of the rig	
Traction	Three Wheel Drive, Negative Brake Release Towing Purpose Manual Brake Release	
Wheel	Heavy Duty Tires 7.50x15	
Steering	Hydraulic Control	
Driving Speed	2.7 km/h	1,7 Mph

POWER PACK		
	METRIC	U.S.
Engine	DEUTZ F2L2011	
Type of Cooling	Air - Cooled	
Fuel	Diesel	
Fuel Consumption	220 g/kWh	0,362 lb/hph
Number of cylinders, Method of Operation	2 cylinders, 4 stroke	
Max. Power	23 kW @ 2800 min <sup>-1</sup>	31 hp @ 2800 rpm
Max. Torque	90 Nm @ 1700 min <sup>-1</sup>	66,4 lb/ft @ 1700 rpm
Min. Idling Speed	900 min <sup>-1</sup>	900 rpm
Electrical Circuit	12 V	
Fuel Tank Capacity	30 liter	8 gal



# TECHNICAL INFORMATION

## Drill Rig Specifications



### HPV 32

HYDRAULIC SYSTEM		METRIC	U.S.
		PARKER Open Circuit Gear Pump	
Pump 1			
Working Input Speeds	Minimum	500 min <sup>-1</sup>	500 rpm
	Maximum	2200 min <sup>-1</sup>	2200 rpm
Working Pressure	Continuous	160 bar	2.321 psi
	Maximum	210 bar	3.045 psi
Flow at 2200 rpm (min <sup>-1</sup> )		63,8 l/min	16,8 gal/min
Displacement		29 cm <sup>3</sup> / rev	11,4 in <sup>3</sup> / rev
Hydraulic Valves		Walvoil or Hydro Control Hydraulic Valves	
Hydraulic Hose, Fittings, Gauges		Parker	
Hydraulic Oil Tank Capacity		150 liter	39,6 gal

MACHINE CONTROLS	
Drilling Controls	Manual Control
Drilling Control Panel	Ergonomic Design
Driving Controls	Manual Control.

DRILL MAST and FEED SYSTEM		METRIC	U.S.
		U profile ST 52-3	
Mast			
Feeding System		Negative Brake Planetary Gearbox with Hydraulic Motor	
Drill Mast Length		5.180 mm	16,9 ft
Feeding Stroke		4.000 mm	13,12 ft
Fast Feeding Down Speed		30 m/min	98,43 ft /min
Pull Back Force		25 kN ( 2,5 tones @ 160 bar )	5.620 lbf @ 2.321 psi
Pull Back Speed		30 m/min	98,43 ft /min
Maximum Rod Length		3 m	9,84 ft
Rod Key		Manual	
Dust Diverter		Air Controlled	



# TECHNICAL INFORMATION

## Drill Rig Specifications



### HPV 32

DRILL HEAD			
		METRIC	U.S.
Model		GEMSA Model Drill Head	
Spindle Thread		2 3/8" API female	
Drive Motor		Radial Piston Motor	
Displacement		424 cm <sup>3</sup> / rev	25,87 in <sup>3</sup> / rev
Working Speed	Continuous	600 min <sup>-1</sup>	600 rpm
	Maximum	700 min <sup>-1</sup>	700 rpm
Working Pressure		160 bar	2.320 psi
Power		33 kW	45 hp
Drill Head Torque		1.072 Nm	791 lbf ft
Drill Head Rotation Speed		90 min <sup>-1</sup>	90 rpm
Oil Flow " Engine Speed 1900 min <sup>-1</sup> 1 rpm "	Drilling	150 bar	2.175 psi
	Unscrew	150 bar	2.175 psi

AIR LINE LUBRICATOR			
		METRIC	U.S.
Lubricator		Venturi System	
Lubricator Tank Capacity		3 Liter	0,79 gal

SAFETY SYSTEM	
Fire Extinguishers	There are 12 kg fire extinguishers several places where operator and assistant can reach easily .Also fire sensitive balls inside the engine cabinet .
Safety Stops	On each side of the machine where operator and assistant can reach easily.

OPTIONAL EQUIPMENT			
		METRIC	U.S.
Water Pump		Gemsa Model Pneumatic Control Water Pump	
Working Pressure		7 bar	102 psi
Water Tank Capacity		50 Liter	13,2 gal
Rig Lighting		Extra Nordic Led Lights Optional	
Drill Rig Color		Standard Color : Yellow – Black ( Customer's choice is Optional )	

