

# kmN.8S

Its modular conception makes it easily adaptable.



## SPECIFICATIONS

### Rotary head and chuck

|                            |                                        |
|----------------------------|----------------------------------------|
| Holding capacity           | 28 000 lb (12 700 kg)                  |
| Spindle interior dimension | 4.9" (124 mm) PWL Rod                  |
| Chuck operation            | Spring closed and hydraulically opened |
| Final drive                | HV 60-2 chain in an oil bath           |
| Hydraulic Motor            | 80 cc variable                         |
| Transmission               | HI-LO 2-speed mechanic                 |
| Rotary Head Ratio          | 1:2                                    |
| Lubrication                | Pump pressurized, filter and cooler    |
| Speed                      | 0 to 1 300 RPM                         |

## FEATURES AND BENEFITS

- Surface version (also available in underground version)
- Heliportable
- Made of steel (aluminum in option)
- Depth capacity:  
800 m (2 625 ft) N size
- Total weight:  
8 420 lb (3 820 kg)

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## SURFACE DRILL

### Filtration

|                                                                     |
|---------------------------------------------------------------------|
| 10 micron absolute filter on return line (2)                        |
| High pressure filter (2)                                            |
| One strainer inside the hydraulic tank connected to the suction (2) |

### Hydraulic module

|                                                    |                                                                                                                                                                         |
|----------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Floating rotary head Ñ Torque limit on rotary head |                                                                                                                                                                         |
| Hydraulic pumps (2)                                | 188 l/min (47 US gal/min) @ 1 800 RPM (max. 4 000 psi (275 bar))<br>136 l/min (36 US gal/min) @ 1 800 RPM (max. 4 000 psi (275 bar))<br>Open loop, Load-sensing circuit |
| Hydraulic pressurized tank                         | 55 US gal (208 l)                                                                                                                                                       |
| Oil heat exchanger                                 | Water cooling (Air cooler optional)                                                                                                                                     |

### Weight

|                                                 |                       |
|-------------------------------------------------|-----------------------|
| Diesel power unit                               | 1 400 lb (635 kg)     |
| Hydraulic pump and tank                         | 1 550 lb (703 kg) wet |
| Control panel                                   | 672 lb (305 kg)       |
| Drill head                                      | 628 lb (285 kg)       |
| Drill head hydraulic motor                      | 70 lb (32 kg)         |
| Drill head transmission                         | 85 lb (39 kg)         |
| Rod holder                                      | 254 lb (115 kg)       |
| Feed frame assy (extension and pulley included) | 1 545 lb (700 kg)     |
| Mast base                                       | 500 lb (227 kg)       |
| Wireline                                        | 460 lb (208 kg)       |
| Hydraulic hoses                                 | 1 000 lb (454 kg)     |

### Drilling capacity

|                                                                                                                                                       |                      |                   |
|-------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|-------------------|
| *Dimension recommended for maximum performance                                                                                                        | *B 2 3/16" (55,6 mm) | 3 600 ft (1100 m) |
|                                                                                                                                                       | *N 2 3/4" (69,9 mm)  | 2 625 ft (800 m)  |
|                                                                                                                                                       | *H 3 1/2" (88,9 mm)  | 1 310 ft (400 m)  |
|                                                                                                                                                       | P 4 5/8" (117,5 mm)  | 820 ft (250 m)    |
| Drilling capacity is calculated on a 90 degree down hole and will depend on in-hole tools, ground conditions, drilling techniques and equipment used. |                      |                   |
| Recommended diesel engine: 155 HP (112 Kw) at 2 100 RPM                                                                                               |                      |                   |

### Feed frame

|                |                                   |
|----------------|-----------------------------------|
| Head stroke    | 6 in (1,83 m)                     |
| Raising speed  | 200 ft/min (61 m/min)             |
| Lowering speed | 200 ft/min (61 m/min)             |
| Pull capacity  | 28 000 lb (12 700 kg) @ 4 000 psi |
| Push capacity  | 18 000 lb (8 165 kg) @ 4 000 psi  |
| Possible angle | -8 to -90 degrees                 |

### Surface mast

|                           |                                  |
|---------------------------|----------------------------------|
| Pull speed                | 220 ft/min (67 m/min)            |
| Speed of descent          | 370 ft/min (113 m/min)           |
| Single line pull capacity | 10 000 lb (4 500 kg) @ 4 000 psi |
| Rod pull length           | 20 ft (6 m)                      |

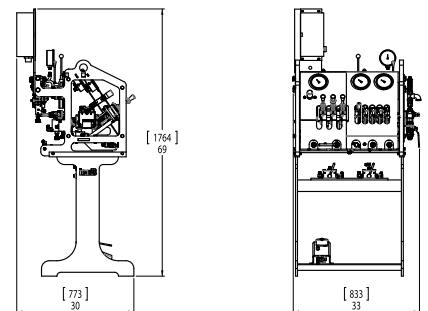
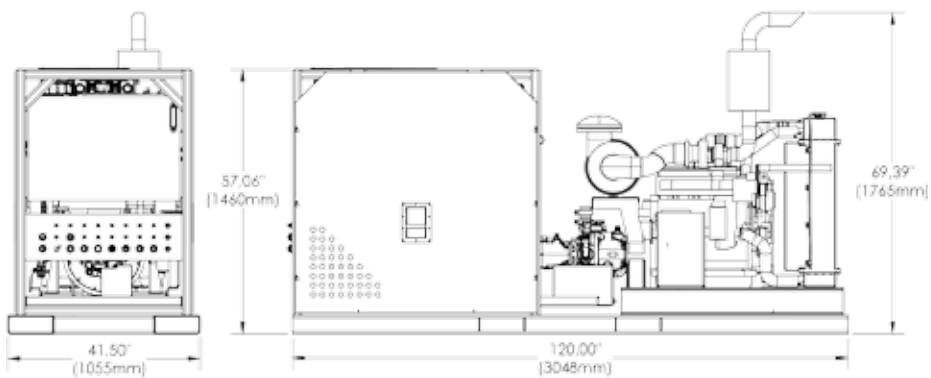
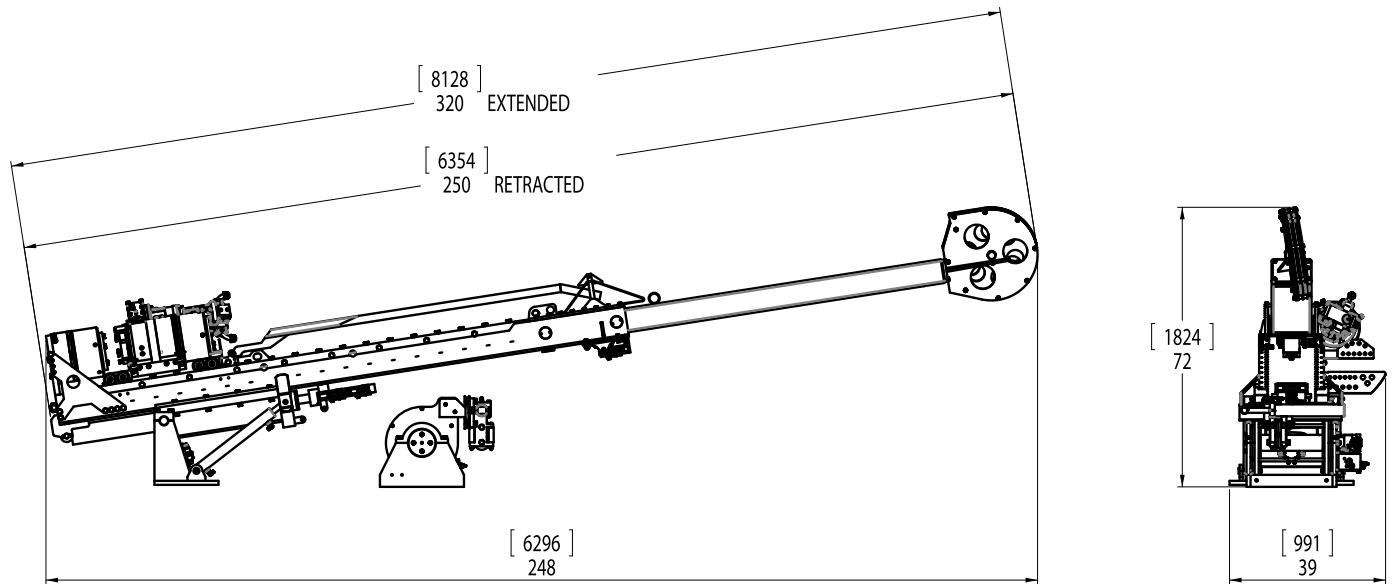
### 2-Speed transmission

| Speed                                                                    | Ratio  | RPM     | Maximum Torque                    |
|--------------------------------------------------------------------------|--------|---------|-----------------------------------|
| LO                                                                       | 3.46:1 | 0-361   | 2 098 lb*ft (2 840 N*m) @ 361 RPM |
| HI                                                                       | 1:1    | 0-1 300 | 606 lb*ft (820 N*m) @ 1 300 RPM   |
| Speed and torque based on a 80 cc hydraulic motor at 4 000 psi (275 bar) |        |         |                                   |

### Wireline hoist

|                                   |                   |
|-----------------------------------|-------------------|
| Cable capacity (3/16 in - 4.8 mm) | 3 000 ft (915 m)  |
| Empty Pull capacity               | 2 000 lb (907 kg) |
| Full Pull capacity                | 650 lb (295 kg)   |
| Variable speed as needed          |                   |

## DIMENSIONS







**Field** experience, **Real** experience.



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