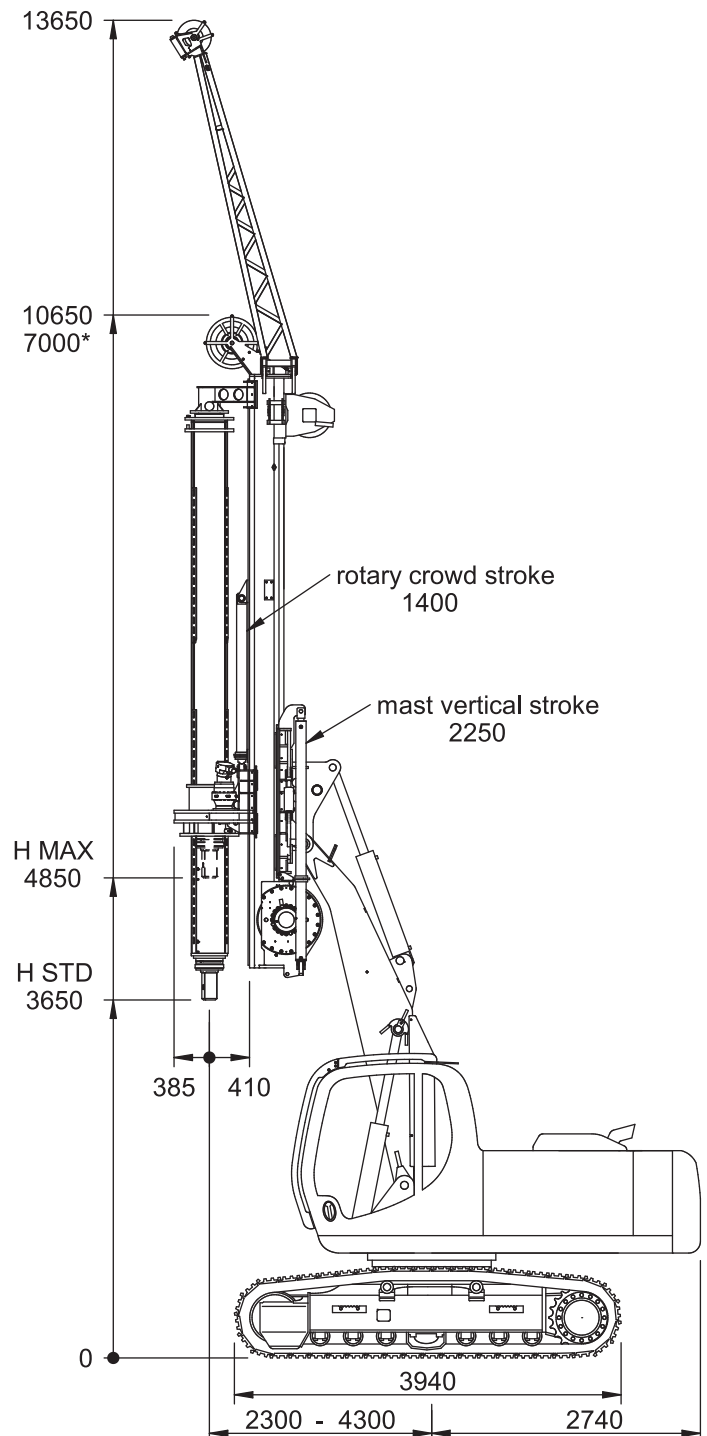




| | |
|-----------------------------|-----------------------|
| Pull down force | 100 kN - 22.480 lbf |
| Extraction force | 180 kN - 40.470 lbf |
| Mast vertical stroke | 2.250 mm - 7.4 ft |
| Total rotary stroke | 3.650 mm - 12 ft |
| Max pile diameter | 1.500 mm - 60 in |
| Max pile depth | up to 36 m - 118 ft |
| Min working height | 7000* mm - 23 ft |
| Weight (w/o tool) | 24.000 kg - 52.900 lb |

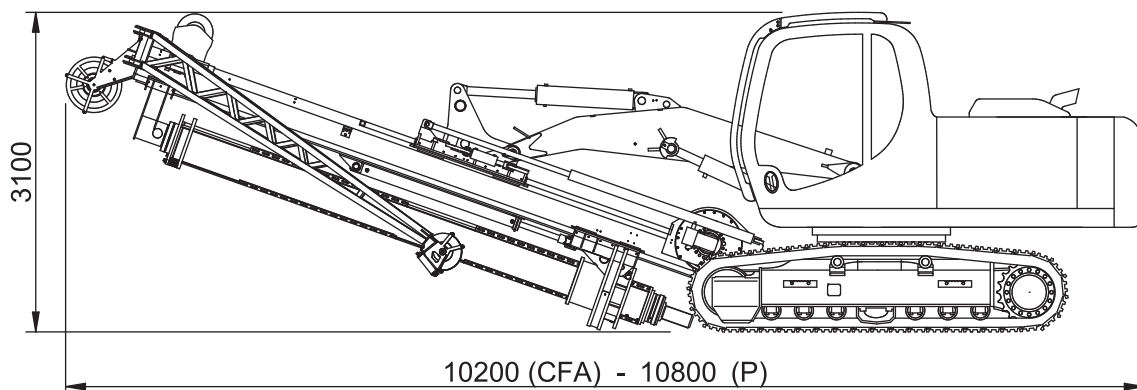
| KELLY BAR OPTIONS | Depth | H |
|-------------------|-------|---------|
| 6 x 5.4m Standard | 31 m | 3650 mm |
| 6 x 4.2m * | 24 m | 4850 mm |
| 7 x 5.4m | 36 m | 3650 mm |

All the kelly bars are round interlocking
Custom measures available upon request



MULTI-PURPOSE PILING RIG

| | | | |
|-----------------------------|---------------------|---------------------------------|------------------|
| BASE | | HITACHI ZX160 / JCB JS160 | |
| Engine | <i>type</i> | ISUZU AM-4JJ1X / JCB ECOmax 444 | |
| Engine power | <i>kW (hp)</i> | 90.2 (121) / 93 (125) | |
| Undercarriage lenght | <i>mm - ft</i> | 3920 - 12.86 / 3940 - 12.93 | |
| Width over tracks | <i>mm - ft</i> | 2490 - 8.2 | |
| Shoe width | <i>mm - in</i> | 500 - 19.7 | |
| HYDRAULIC SYSTEM | | | |
| Main pumps | <i>l/min</i> | 2x191 / 2x164 | |
| Auxiliary pump | <i>l/min</i> | 2x33.6 / 2x20.5 | |
| Hydraulic pressure | <i>bar</i> | 320 | |
| MAST | | | |
| Forward inclination | <i>deg</i> | 20 | |
| Backward inclination | <i>deg</i> | 20 | |
| Lateral inclination | <i>deg</i> | 5 | |
| Mast vertical stroke | <i>mm - ft</i> | 2250 - 7.4 | |
| ROTARY | | | |
| Nominal torque | <i>kNm - lbf ft</i> | 73 - 60.500 | |
| Drilling speed | <i>rpm</i> | 10 ÷ 40 | |
| Spin off speed | <i>rpm</i> | 90 | |
| WINCHES | | KELLY | CFA |
| Main winch line pull | <i>kN - lbf</i> | 120 - 26.980 | 120x3 - 26.980x3 |
| Aux winch line pull | <i>kN - lbf</i> | 37 - 8.320 | 37 - 8.320 |
| CROWD SYSTEM | | | |
| Pull down force | <i>kN - lbf</i> | 100 - 22.480 | 100 - 22.480 |
| Extraction force | <i>kN - lbf</i> | 180 - 40.450 | 360 - 80.900 |
| Total rotary stroke | <i>mm - ft</i> | 3.650 - 12 | 12.750 - 41.8 |
| EXCAVATION | | | |
| Max pile diameter | <i>mm - in</i> | 1.500 - 60 | 750 - 30 |
| Max pile depth | <i>m - ft</i> | 36 - 118 | 16.5 - 54.1 |
| Min working height | <i>mm - ft</i> | 7.000* - 23 | 13.500 - 44.3 |
| TRANSPORT | | | |
| Lenght | <i>mm - ft</i> | 11.000 - 36 | 10.300 - 33.8 |
| Width | <i>mm - ft</i> | 2.490 - 8.2 | 2.490 - 8.2 |
| Height | <i>mm - ft</i> | 3.100 - 10.2 | 3.100 - 10.2 |
| Weight | <i>kg - lbs</i> | 24.000 - 52.900 | 23.000 - 50.750 |



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