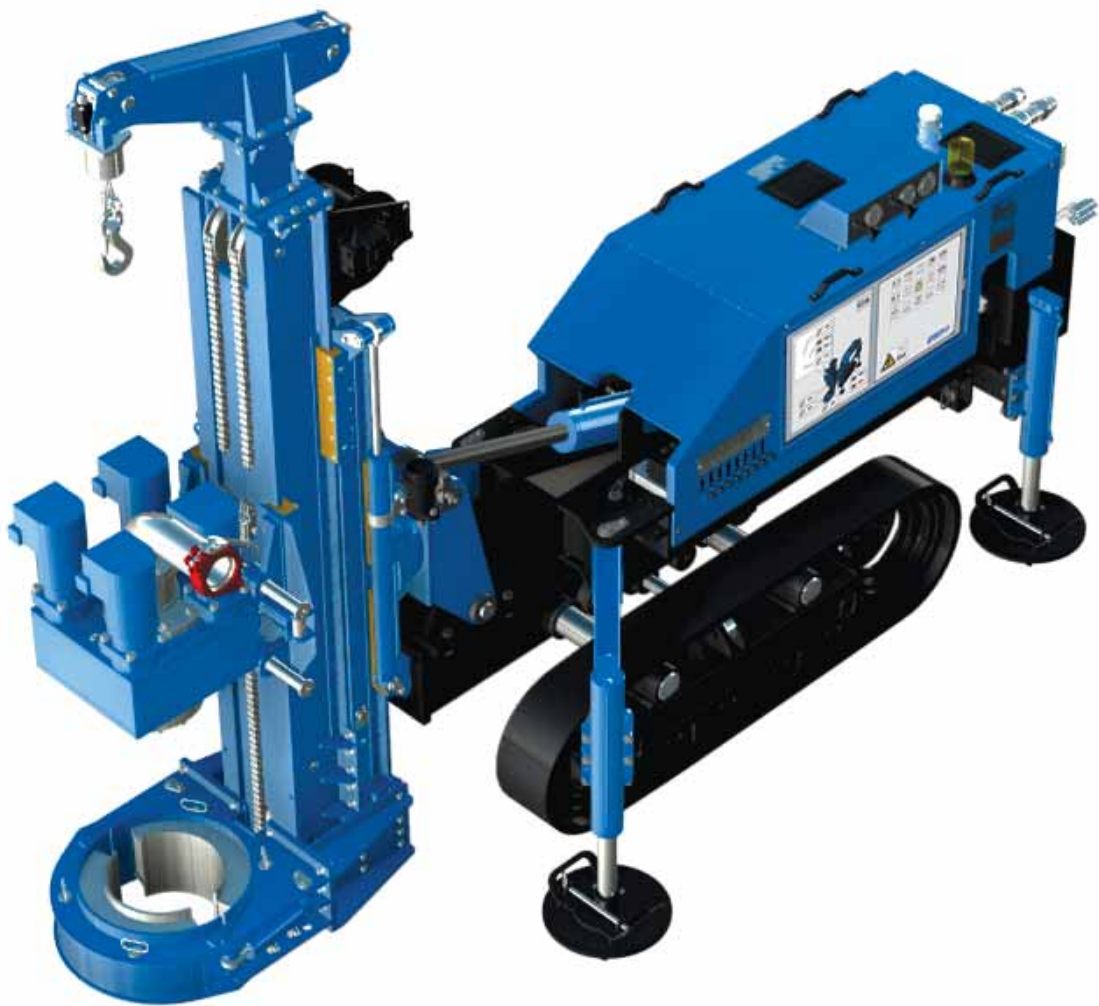


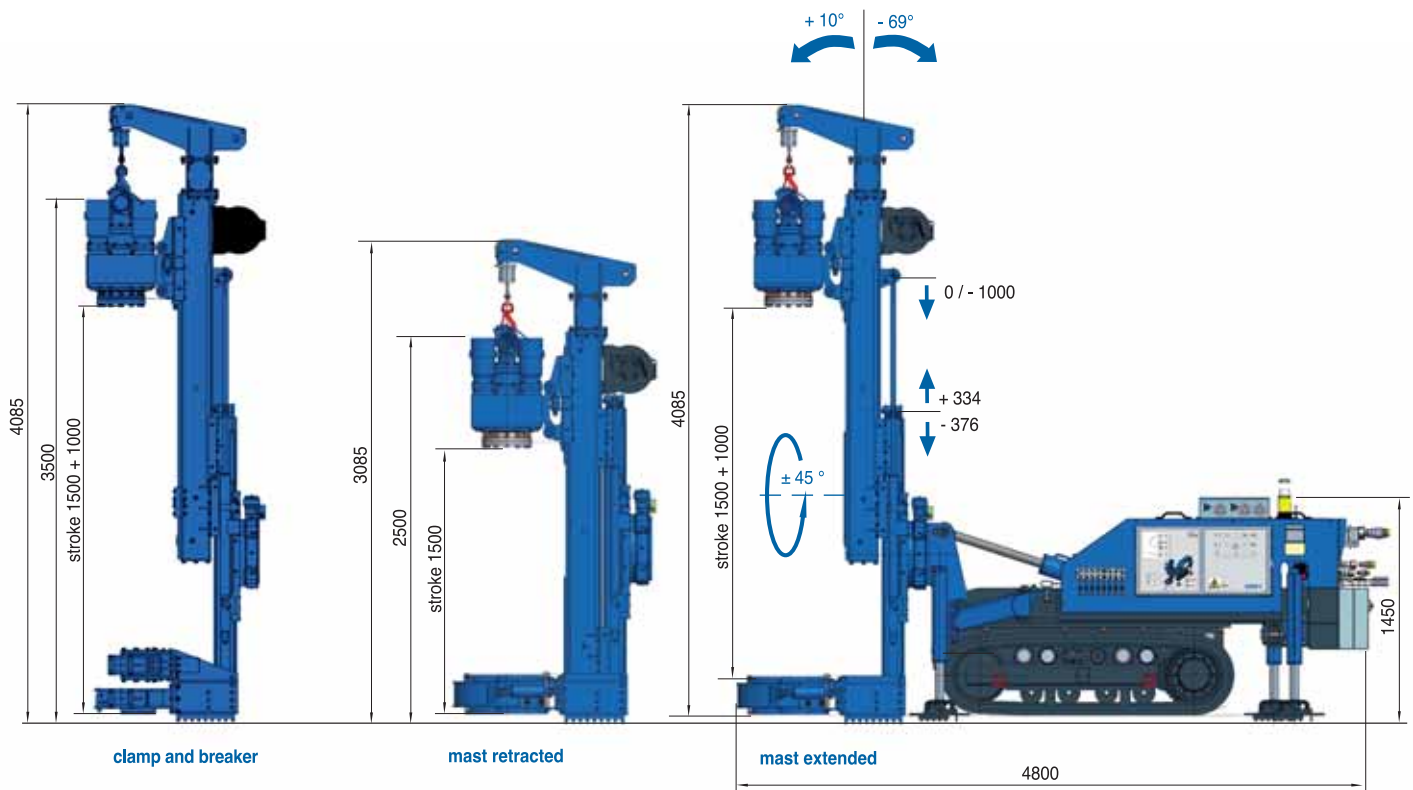
Hydraulic Microdrilling Rig

# SM-4



# SM-4 Hydraulic Microdrilling Rig

## APPLICATIONS



Hoist & Feed system		
Feed type	Cylinder	Cylinder
Feed stroke	1500 + 1000 mm	59.1 + 39.4 in
Maximum hoist pull/feed force	70 / 46 kN	15736 / 10341 lbf
Maximum speed (fast/low operation)	21 / 7 m/min	69 / 23 ft/min
Rotary head		
	HT3400V	HT3400V
Gear box type	3 ratios	3 ratios
Maximum torque	3350 daNm	24708 lbf*ft
Maximum drilling speed	58 rpm	58 rpm
Inner passage	134 mm	5.3 in

# SM-4 Hydraulic Microdrilling Rig

## TECHNICAL DATA SHEET

<b>Operating weight separated power pack (approx.)</b>	<b>3700 kg</b>	<b>8158.5 lb</b>
<b>Undercarriage</b>	<b>Fixed gauge</b>	<b>Fixed gauge</b>
- Track shoe width	250 mm	9.8 in
- Overall length	1971 mm	77.6 in
- Overall width	1180 mm	46.5 in
<b>Diesel Engine (optional)</b>		
- Make and model	DEUTZ - TCD 4.1 L04 4V Tier 4i	DEUTZ - TCD 4.1 L04 4V Tier 4i
- Power rating	115 kW @ 2000 rpm	154 HP @ 2000 rpm
- Sound power level and sound pressure level	LwA 115 - LpA 74 dB(A)	LwA 115 - LpA 74 dB(A)

<b>Operating weight base machine (approx.)</b>	<b>6400 kg</b>	<b>14112 lb</b>
<b>Undercarriage</b>	<b>Variable gauge</b>	<b>Variable gauge</b>
- Track shoe width	220 mm	8.7 in
- Overall length	1952 mm	76.9 in
- Overall width (ext/retr)	1200 / 740 mm	47.2 / 29.1 in
- Travelling speed	3,33 km/h	2.07 mph
- Ground stabilizers	n° 2 rotatable on front + n° 2 extendable on rear	n° 2 rotatable on front + n° 2 extendable on rear
<b>Hydraulic system</b>		
- Main pumps: variable axial pumps	200 l/min	53 US gal/min
- Set pressure main pumps	30 MPa	4351 psi
- Auxiliary pumps: gear pumps	86 + 32 l/min	22.7 + 8.5 US gal/min
- Hydraulic oil tank capacity	403 l	106 US gal
<b>Auger</b>		
- Nominal size	300 - 450 mm*	11.8 - 17.7 in*
<b>Casing</b>		
- Nominal size	340 - 510 mm	13.4 - 20 in
<b>Service winch</b>		
- 1st layer line pull (nominal/effective)	20 kN	4496 lbf
- 1st layer nominal rope speed	43 m/min	141 ft/min
- Rope diameter	8 mm	0.31 in

\* up to 5800 mm w/o casing

## STANDARD EQUIPMENT

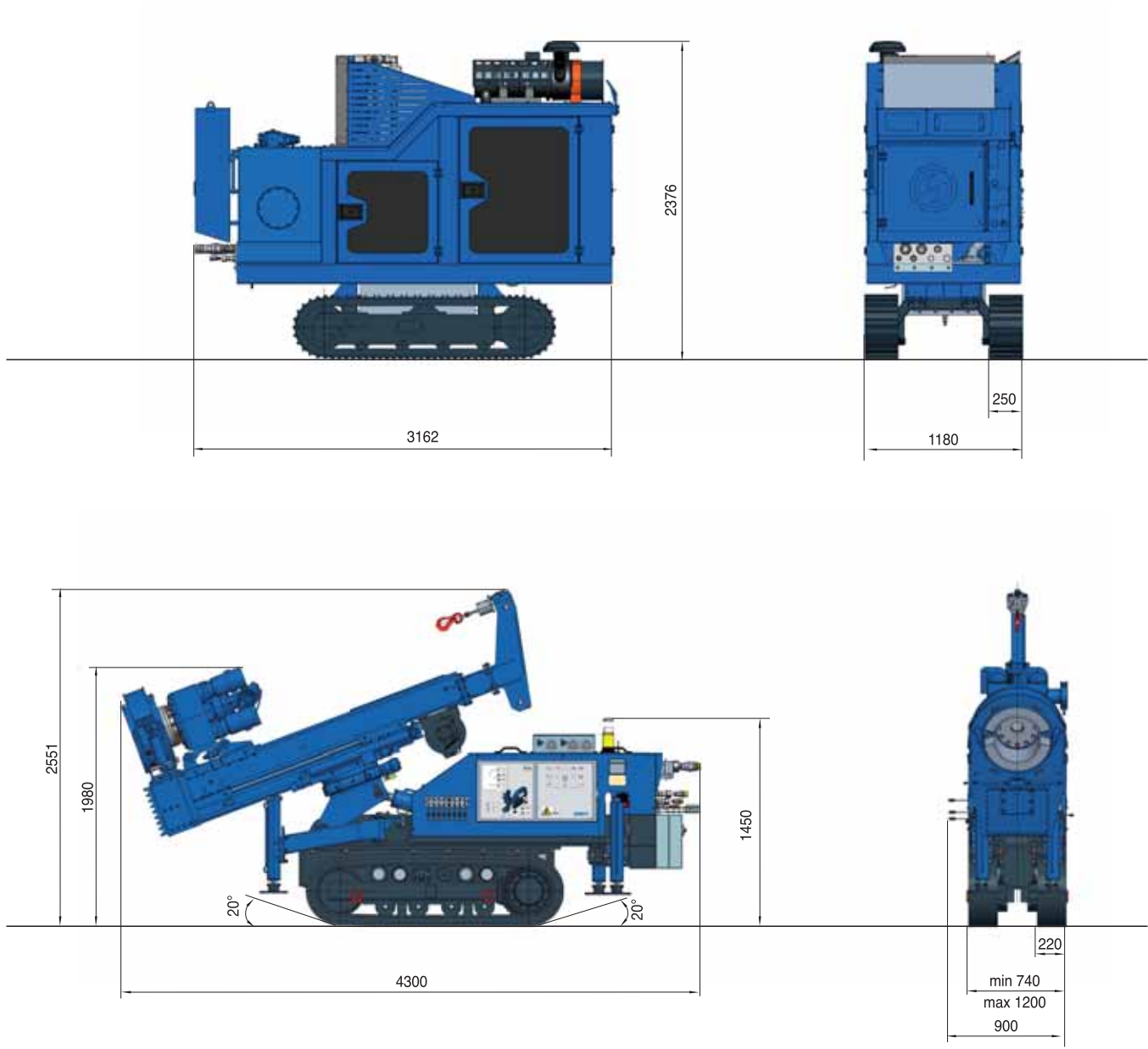
- Extendable undercarriage with rubber crawler
- Telescopic drill mast
- Clamp and breaker 50-320 mm
- Prearrangement for mud pump
- Pneumatic inline DTH lubricator
- Cable remote for tramming
- Load Sensing hydraulic system
- Radio remote control for drilling operation
- Hydraulic control for kinematism

## OPTIONAL EQUIPMENT

- Separated Electric power pack (110 kW)
- Wide range of feed stroke
- Wide range of rotary heads
- Power pack on crawler track or on skid
- Triplex pump for Foam
- CFA kit
- Top hammer kit
- Jet grouting kit
- Integrated foam pump

# SM-4 Hydraulic Microdrilling Rig

## TRANSPORT, DIMENSIONS AND WEIGHTS



All technical data are purely indicative and subject to change without notice

Technical data sheet SM4-003 09/2014

Transport configuration		
<b>Length</b>	<b>4300 mm</b>	<b>169.3 in</b>
<b>Width</b>	<b>760 mm</b>	<b>29.9 in</b>
<b>Height</b>	<b>2000 mm</b>	<b>78.7 in</b>
<b>Weight</b>	<b>5800 kg</b>	<b>12787 lb</b>

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