



PRODUCT LINE



SAVANNAH • GEORGIA • USA



BELO HORIZONTE • MINAS GERAIS • BRAZIL

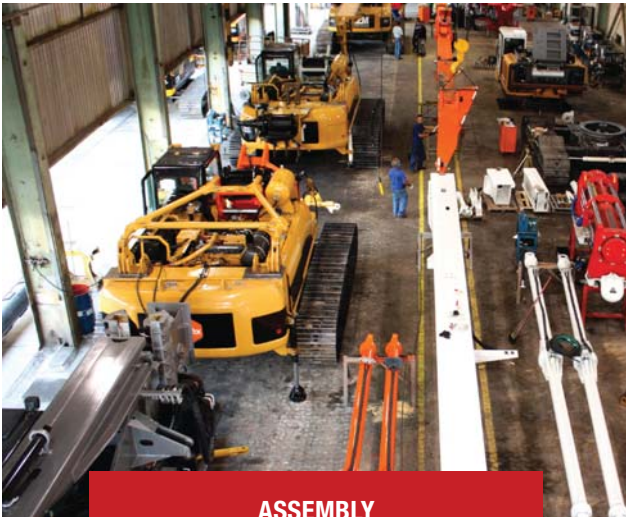


SÃO PAULO • SÃO PAULO • BRAZIL

THE COMPANY

- C/M has 40 years of know-how in the manufacturing of foundation equipment with a wide range of models, for the most different applications: drilled shafts, CFA, driven piles with hydraulic hammers, secant piles, micro piles, anchoring.
- C/M has 2 manufacturing facilities: one in Savannah, in the State of Georgia - USA, and another in Contagem, in the State of Minas Gerais - Brazil, from where we have exported for over 25

- countries world wide.
- C/M machine design's priorities are: quality, dependability and easy maintenance. This why we use Caterpillar Bases.
- C/M is the largest world manufacturer of CFA drilling rigs, thanks to the revolutionary and patented torque mechanism "Bottom Drive CFA".
- Our Kelly bar machines are today the preference of some of the largest Foundation Companies of the USA.



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KELLY BAR

	EK125	EK180	EK250
CHASSIS	CAT 320	CAT 336	CAT 336 HHP
INSTALLED POWER (kw / HP)	110 / 148	200 / 268	261 / 350
MAXIMUM TORQUE (kN.m / lbf.ft)	138 / 102,000	222 / 163,370	318 / 234,500
MAXIMUM DEPTH (m / ft)	37 / 120*	61 / 200	75 / 246
MAXIMUM DIAMETER (mm / in)	1.524 / 60	1.800 / 70	2.524 / 100**
TRANSPORT WEIGHT (kg / lb)	35.000 / 77,160	50.000 / 110,000	72.200 / 159,174

* Long mast option available for maximum depth of 61 m / 200 ft.

** Able to drill up to 3.500 mm (138 in) diameter without the mast shoe.



EK125

KELLY BAR APPLICATION

Drilling Depth (standard version)	37 m	120 ft
Maximum Drilling Depth*	61 m	200 ft
Maximum Drilling Diameter	1.524 mm	60 in
Maximum Torque	138 kN.m	102,000 lbf.ft

DIESEL ENGINE (CAT® C6.4 ACERT™)

Net Power	110 kW	148 hp
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HYDRAULIC SYSTEM

Main circuit pressure (max.)	350 bar	5,076 psi
Main circuit Flow rate (max.)	370 L/min	98 gal/min

ROTARY HEAD

Maximum torque	138 kN.m	102,000 lbf.ft
Working speed	8-27 rpm	8-27 rpm
Spin off speed	80-110 rpm	80-110 rpm

MAIN WINCH

Maximum pull-force (1st layer)	220 kN	48,660 lbf
Maximum line speed	75 m/min	245 ft/min
Cable diameter	24 mm	1 in

AUXILIARY WINCH

Maximum pull-force (1st layer)	104 kN	23,330 lbf
Cable diameter	19 mm	3/4 in

CROWD SYSTEM

Cylinder Pull-down force (nominal)	220 kN	49,100 lbf
Cylinder Pull-up force (nominal)	220 kN	49,100 lbf
Cylinder stroke	3.350 mm	11 ft

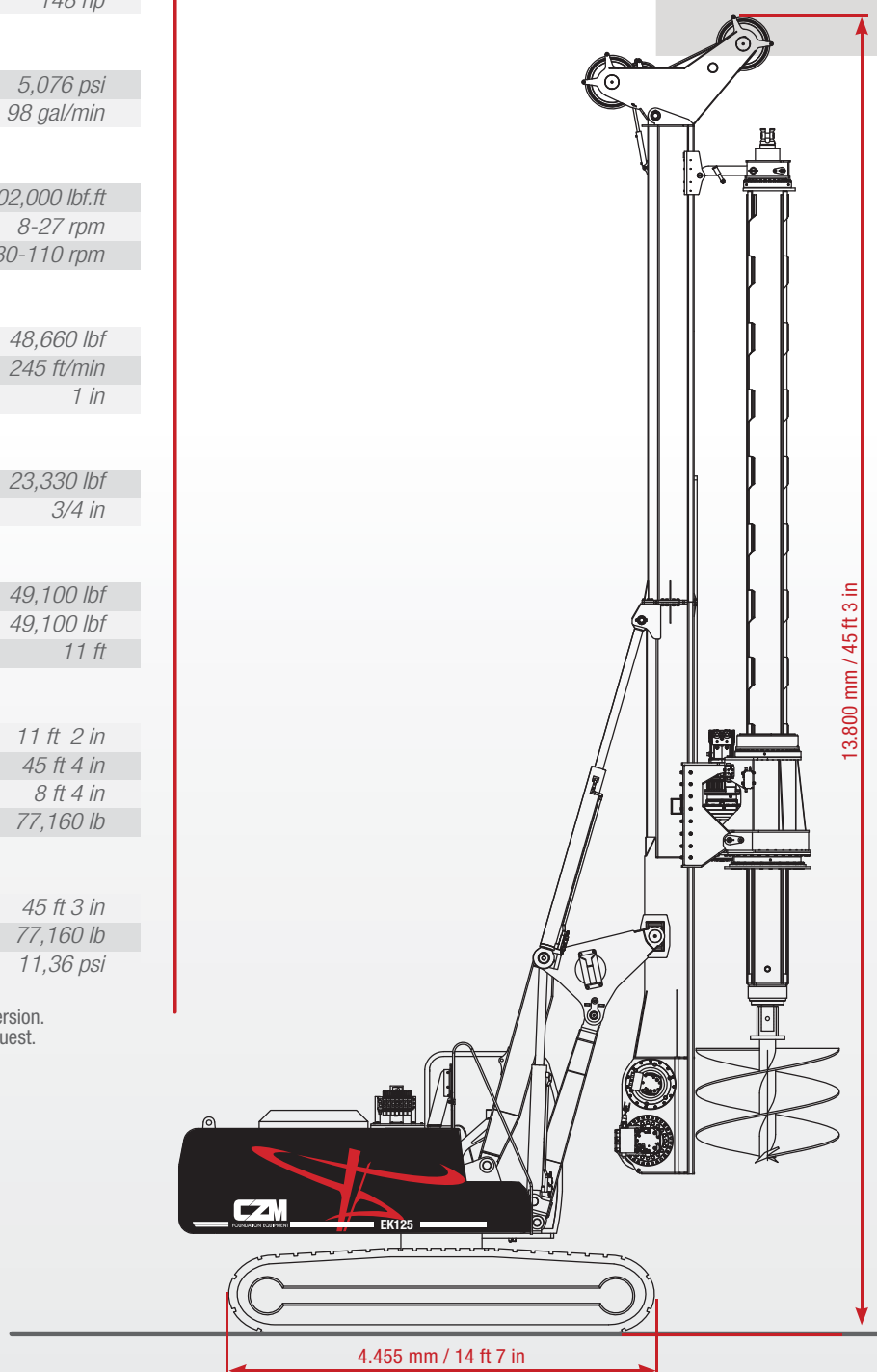
TRANSPORT

Overall Height	3.420 mm	11 ft 2 in
Transport Length	13.795 mm	45 ft 4 in
Transport Width	2.530 mm	8 ft 4 in
Transport Weight	35.000 kg	77,160 lb

GENERAL DATA

Overall height	13.800 mm	45 ft 3 in
Operation weight	35.000 kg	77,160 lb
Ground pressure	0,8 kg/cm ²	11,36 psi

*Drilling depth of 200 ft (61m) available only for the long mast version.
Specifications based on Caterpillar base. Other chassis upon request.





EK180

KELLY BAR APPLICATION

Drilling Depth (standard version)	42 m	140 ft
Maximum Drilling Depth	61 m	200 ft
Maximum Drilling Diameter	1.800 mm	70 in
Maximum Torque	222 kN.m	163,370 lbf.ft

DIESEL ENGINE (CAT® C9 ACERT™)

Net Power	200 kW	268 HP
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HYDRAULIC SYSTEM

Main circuit pressure (max.)	350 bar	5,076 psi
Main circuit Flow rate (max.)	480 lpm	127 gpm

ROTARY HEAD

Maximum torque	222 kN.m	163,370 lbf.ft
Working speed	7-32 rpm	7-32 rpm
Spin off speed	60-120 rpm	60-120 rpm

MAIN WINCH

Maximum pull-force (1st layer)	216 kN	48,550 lbf
Maximum line speed	70 m/min	230 ft/min
Cable diameter	24 mm	1 in

AUXILIARY WINCH

Maximum pull-force (1st layer)	104 kN	23,325 lbf
Cable diameter	19 mm	3/4 in

CROWD SYSTEM

Cylinder Pull-down force (nominal)	218 kN	48,960 lbf
Cylinder Pull-up force (nominal)	310 kN	69,540 lbf
Cylinder stroke	5.000 mm	16 ft 5 in

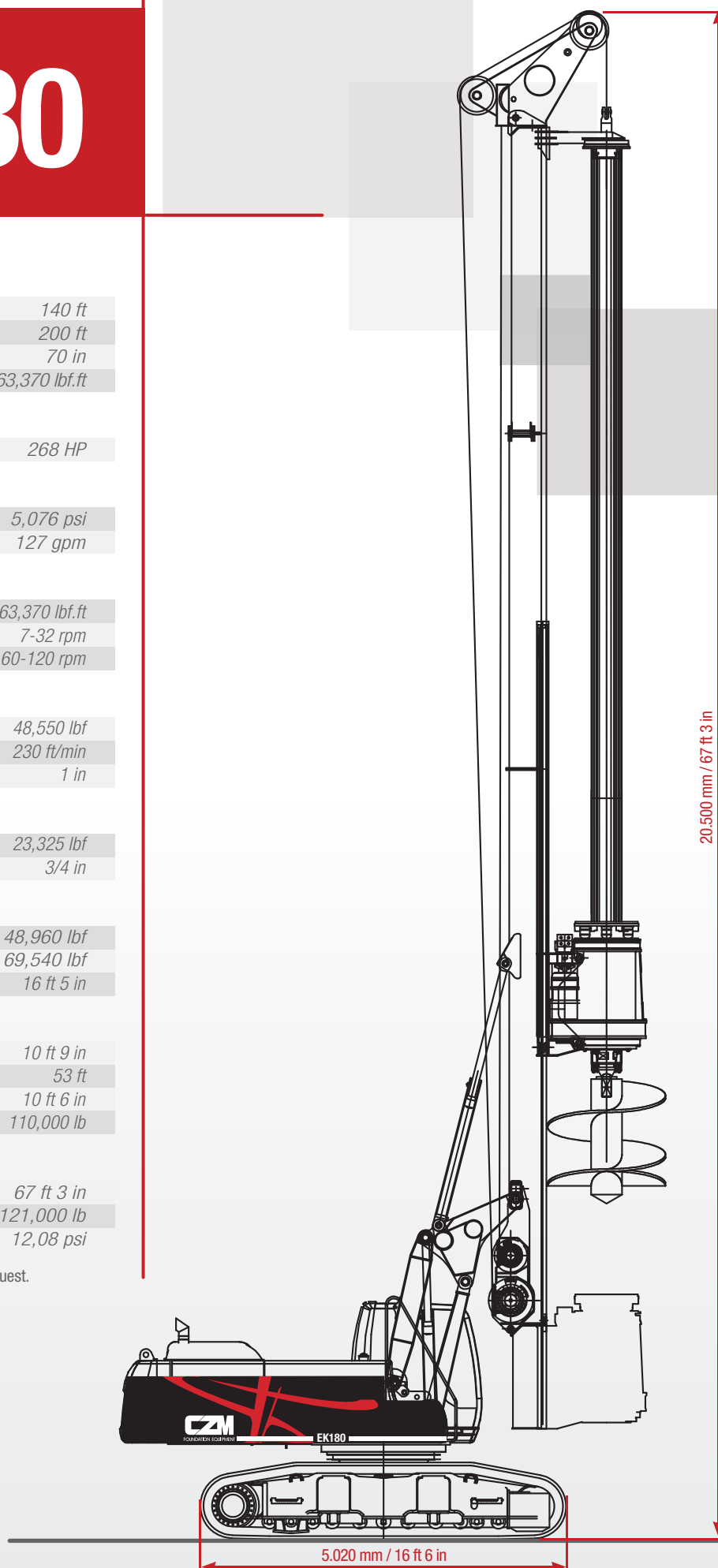
TRANSPORT

Overall Height	3.280 mm	10 ft 9 in
Transport Length	16.125 mm	53 ft
Transport Width	3.200 mm	10 ft 6 in
Transport Weight	50.000 kg	110,000 lb

GENERAL DATA

Overall height	20.500 mm	67 ft 3 in
Operation weight	55.000 kg	121,000 lb
Ground pressure	0,85 Kg/cm ²	12,08 psi

Specifications based on Caterpillar base. Other chassis upon request.





EK250

KELLY BAR APPLICATION

Drilling Depth (standard version)	48 m	159 ft
Maximum Drilling Depth	75 m	246 ft
Maximum Drilling Diameter	2.540 mm*	100 in*
Maximum Torque	318 kN.m	234,500 lbf.ft

DIESEL ENGINE (CAT® C9 ACERT™)

Net Power	261 kW	350 hp
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HYDRAULIC SYSTEM

Main circuit pressure (max.)	350 bar	5,076 psi
Main circuit Flow rate (max.)	480 L/min	127 gal/min

ROTARY HEAD

Maximum torque	318 kN.m	234,500 lbf.ft
Working speed	8-23 rpm	8-23 rpm
Spin off speed	35-98 rpm	35-98 rpm

MAIN WINCH

Maximum pull-force (1st layer)	307 kN	69,049 lbf
Maximum line speed	80 m/min	262 ft/min
Cable diameter	28 mm	1.1/8 in

AUXILIARY WINCH

Maximum pull-force (1st layer)	104 kN	23,332 lbf
Cable diameter	19 mm	3/4 in

CROWD SYSTEM

Cylinder Pull-down force (nominal)	326 kN	73,326 lbf
Cylinder Pull-up force (nominal)	364 kN	81,814 lbf
Cylinder stroke	6.000 mm	19 ft 8 in

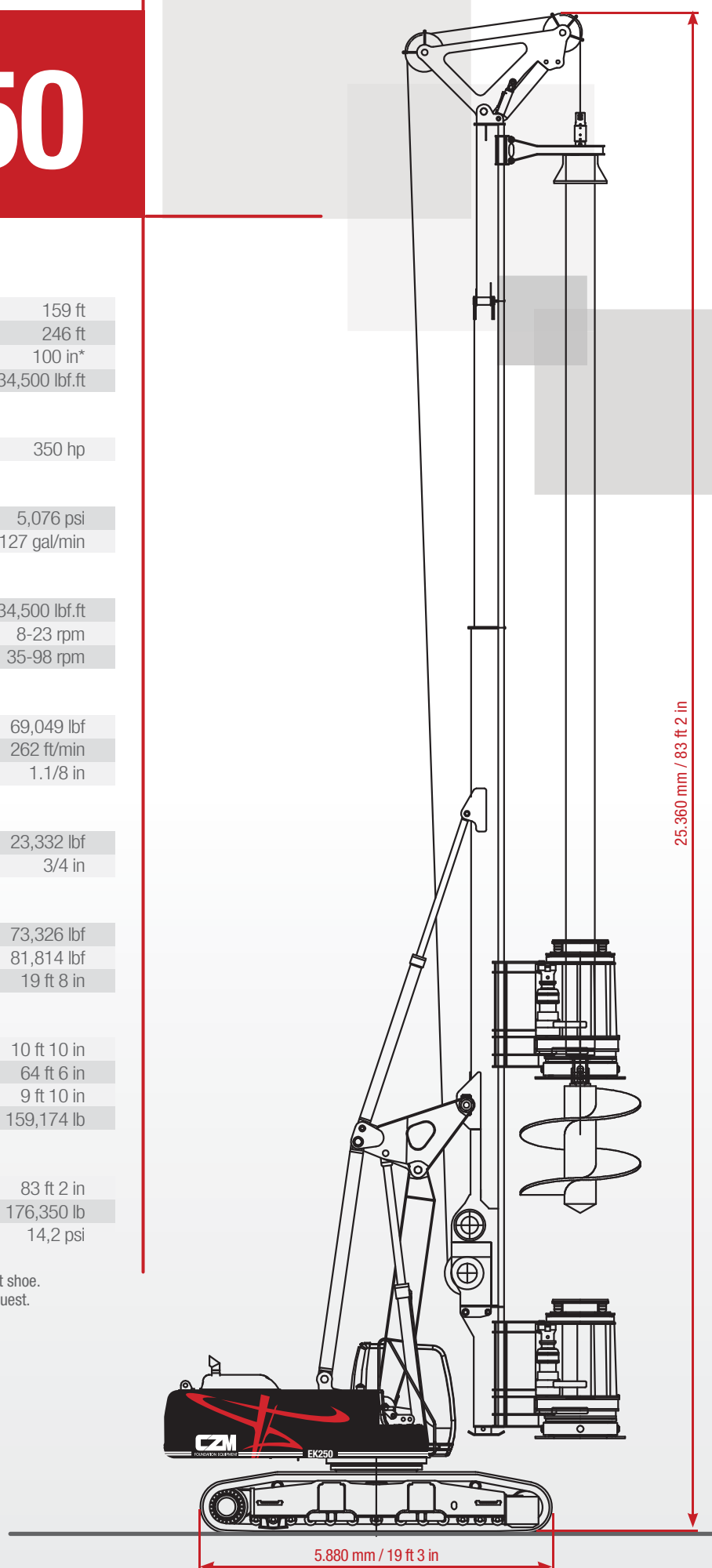
TRANSPORT

Overall Height	3.295 mm	10 ft 10 in
Transport Length	19.670 mm	64 ft 6 in
Transport Width	3.000 mm	9 ft 10 in
Transport Weight	72.200 kg	159,174 lb

GENERAL DATA

Overall height	25.360 mm	83 ft 2 in
Operation weight	80.000 kg	176,350 lb
Ground pressure	1 kg/cm ²	14,2 psi

* Able to drill up to 3.500 mm (138 in) diameter without the mast shoe.
Specifications based on Caterpillar base. Other chassis upon request.





EK250

CZM
FOUNDATION EQUIPMENT

CONTINUOUS FLIGHT AUGER (CFA)

	EM800/24	EM800/30	EM1000/26	EM1000/32	EK250 CFA
CHASSIS	CAT 320	CAT 336	CAT 336	CAT 336 HP	CAT 336 HP
INSTALLED POWER (kw / HP)	103 / 138	200 / 268	200 / 268	261 / 350	261 / 350
MAXIMUM DIAMETER (mm / in)	800 / 31.1/2	800 / 31.1/2	1.000 / 40*	1.000 / 40	800 / 32
MAXIMUM DEPTH (m / ft)	24 / 78' 8"	30 / 98' 5"	30 / 98' 5"	32 / 105'	27 / 88
MAXIMUM TORQUE (kN.m / lbf.ft)	123 / 90,400	167 / 123,000	206 / 152,000	25.900 / 57,100	194 / 127,970
EXTRACTION FORCE (kN / lbf)	737 / 165,785	737 / 165,785	1.047 / 235,300	116.500 / 256,800	978 / 220,000
TRANSPORT WEIGHT (kg / lb)	42.000 / 92,600	49.000 / 108,000	52.000 / 112,500	60.000 / 132,000	70.000 / 154,320

*For 1.000 mm (40 in) diameter, the maximum depth is 26 m (85 ft 4 in).



EM800/24

CFA DRILLING SYSTEM

Maximum pile diameter	800 mm	31.1/2 in
Maximum drilling depth	24 (18+6) m	78' 8" (59' + 19' 8") ft
Maximum torque	123 kN.m	90,400 lbf.ft
Extraction force (4 x winch line pull)	600 kN	134,920 lbf
Extraction force (winch + "pull-up" cylinder)	737 kN	165,785 lbf

DIESEL ENGINE (CAT® C6.4 ACERT®)

Net Power	103 kW	138 hp
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HYDRAULIC SYSTEM

Main circuit pressure (max.)	350 bar	5,076 psi
Main circuit Flow rate (max.)	410 lpm	108 gpm

ROTARY HEAD

Maximum torque	123 kN.m	90,400 lbf.ft
Working Speed (maximum torque)	8 rpm	8 rpm
Working speed	18 - 25 rpm	18 - 25 rpm

MAIN WINCH

Maximum pull-force 1st Layer	150 kN	33,730 lbf
Cable diameter	19,00 mm	3/4 in

AUXILIARY WINCH

Maximum pull-force (1st layer)	49 kN	11,023 lbf
Cable diameter	13 mm	1/2 in

CROWD SYSTEM

Pull-down force (nominal)	196 kN	44,092 lbf
Pull-up force (nominal)	137 kN	30,865 lbf
Cylinder stroke	3.000 mm	9 ft 10 in

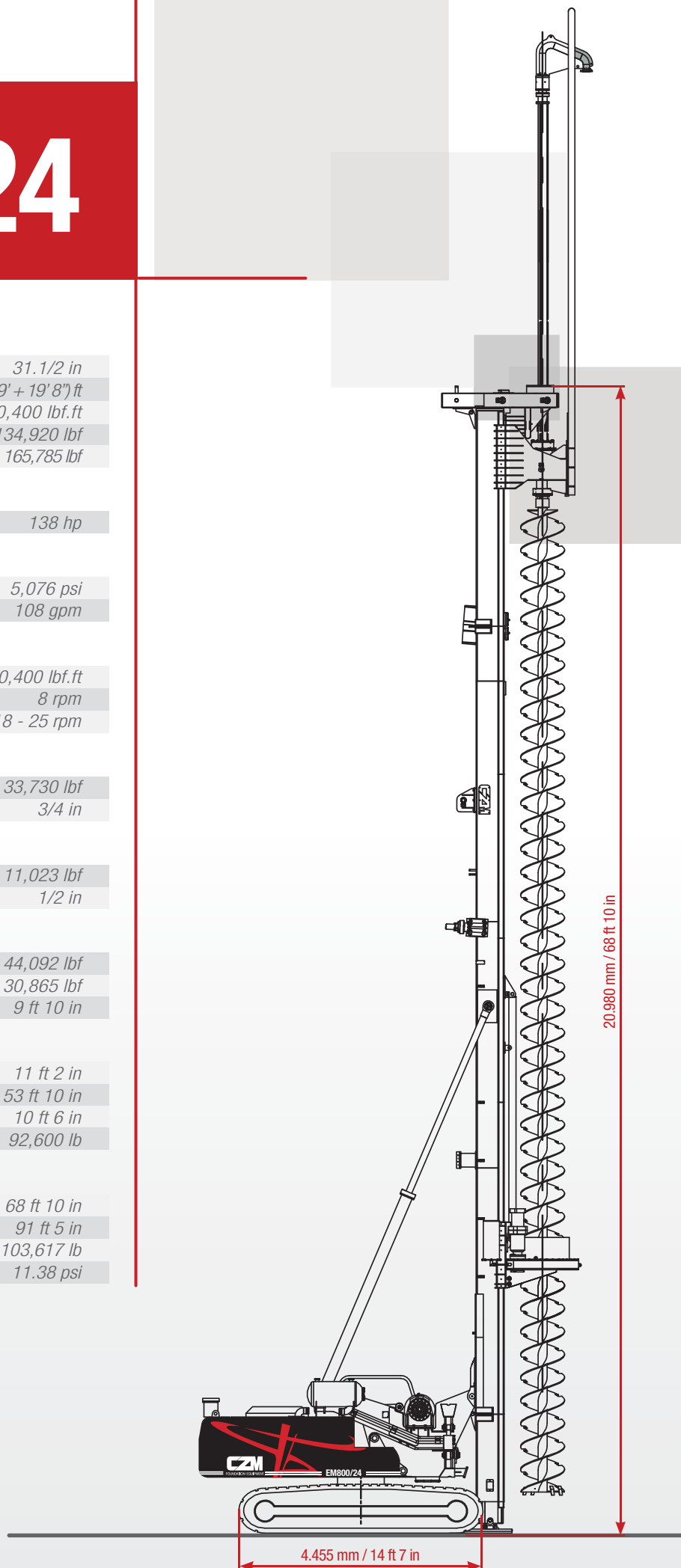
TRANSPORT

Overall Height	3.420 mm	11 ft 2 in
Transport Length	16.420 mm	53 ft 10 in
Transport Width	3.200 mm	10 ft 6 in
Transport Weight	42.000 kg	92,600 lb

GENERAL DATA

Overall height	20.980 mm	68 ft 10 in
Overall height with max. kelly extension	27.870 mm	91 ft 5 in
Operation weight	47.000 kg	103,617 lb
Ground pressure	0,8 kg/cm ²	11.38 psi

Specifications based on Caterpillar base. Other chassis upon request.





EM800/30

CFA DRILLING SYSTEM

Maximum pile diameter	800 mm	31.1/2 in
Maximum drilling depth	30 m (23 + 7)	98 ft 5 in (75' 5" + 23')
Maximum torque	167 kN.m	123,000 lbf.ft
Extraction force (4 x winch line pull)	600 kN	134,920 lbf
Extraction force (winch + "pull-up" cylinder)	737 kN	165,785 lbf

DIESEL ENGINE (CAT® C9 ACERT®)

Net Power	200 kW	268 HP
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HYDRAULIC SYSTEM

Main circuit pressure (max.)	350 bar	5,076 psi
Main circuit Flow rate (max.)	560 lpm	148 gpm

ROTARY HEAD

Maximum torque	167 kN.m	123,000 lbf.ft
Working Speed (maximum torque)	11 rpm	11 rpm
Working speed	18 - 29 rpm	18 - 29 rpm

MAIN WINCH

Maximum pull-force 1st Layer	150 kN	33,730 lbf
Cable diameter	19,00 mm	3/4 in

AUXILIARY WINCH

Maximum pull-force (1st layer)	49 kN	11,023 lbf
Cable diameter	13 mm	1/2 in

CROWD SYSTEM

Pull-down force (nominal)	196 kN	44,092 lbf
Pull-up force (nominal)	137 kN	30,865 lbf
Cylinder stroke	3.000 mm	9 ft 10 in

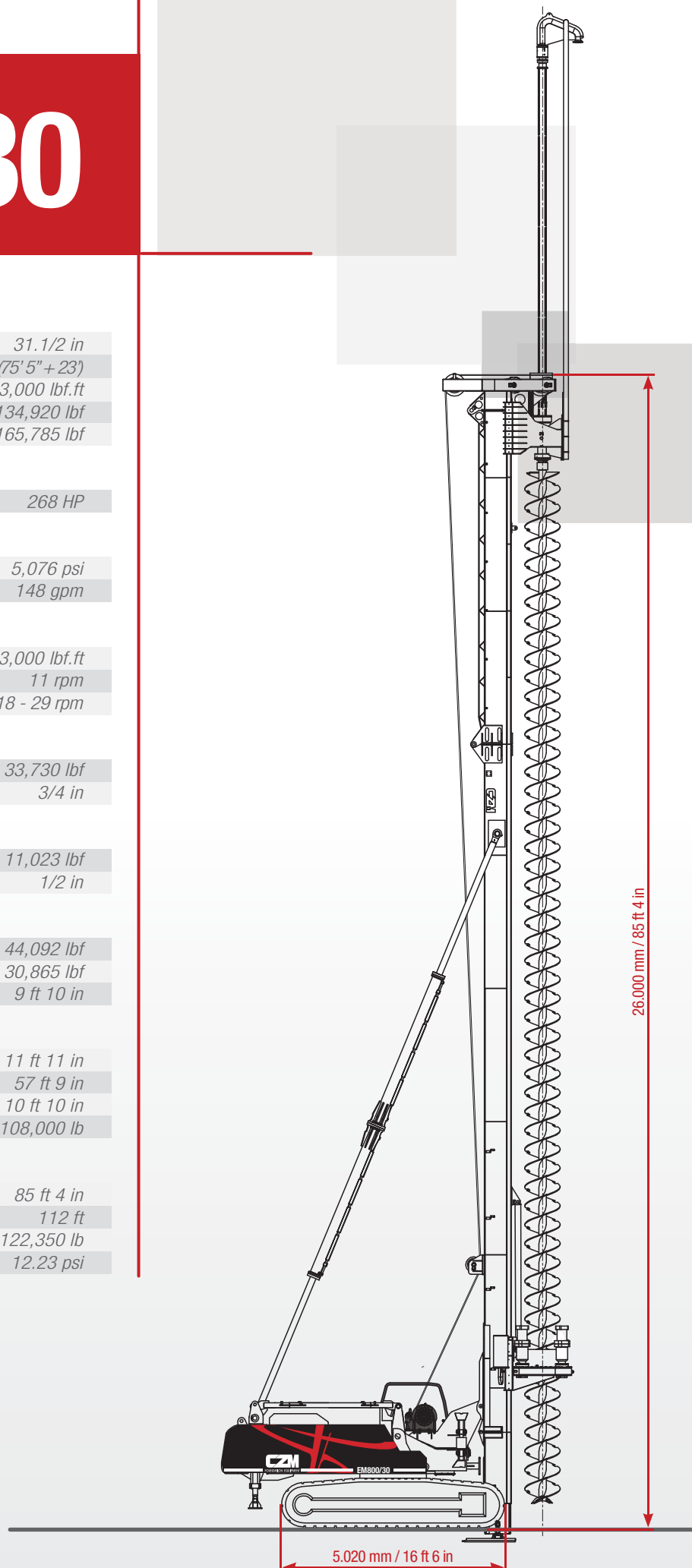
TRANSPORT

Overall Height	3.642 mm	11 ft 11 in
Transport Length	17.611 mm	57 ft 9 in
Transport Width	3.300 mm	10 ft 10 in
Transport Weight	49.000 kg	108,000 lb

GENERAL DATA

Overall height	26.000 mm	85 ft 4 in
Overall height with max. kelly extension	34.131 mm	112 ft
Operation weight	55.500 kg	122,350 lb
Ground pressure	0,86 kg/cm²	12.23 psi

Specifications based on Caterpillar base. Other chassis upon request.





EM1000/26

CFA DRILLING SYSTEM

Maximum pile diameter	1.000 mm	40 in
Maximum drilling depth (up to 32 in)	30 m (23 + 7)	98' 5" (75' 5" + 23')
Maximum drilling depth (up to 40 in)	26 m (19 + 7)	85' 4" (62' 4" 20 + 23')
Maximum torque	206 kN.m	152,000 lbf.ft
Extraction force (4 x winch line pull)	785 kN	176,400 lbf
Extraction force (winch + "pull-up" cylinder)	1.047 kN	235,300 lbf

DIESEL ENGINE (CAT® C9 ACERT®)

Net Power	200 kW	268 hp
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HYDRAULIC SYSTEM

Main circuit pressure (max.)	350 bar	5,076 psi
Main circuit Flow rate (max.)	560 lpm	148 gpm

ROTARY HEAD

Maximum torque	206 kN.m	152,000 lbf.ft
Working Speed (maximum torque)	9 rpm	9 rpm
Working speed	15 - 25 rpm	15 - 25 rpm

MAIN WINCH

Maximum pull-force 1st Layer	196 kN	44,100 lbf
Cable diameter	22,00 mm	7/8 in

AUXILIARY WINCH

Maximum pull-force (1st layer)	49 kN	11,023 lbf
Cable diameter	13 mm	1/2 in

CROWD SYSTEM

Pull-down force (nominal)	270 kN	60,600 lbf
Pull-up force (nominal)	262 kN	58,900 lbf
Cylinder stroke	6.000 mm	19 ft 8 in

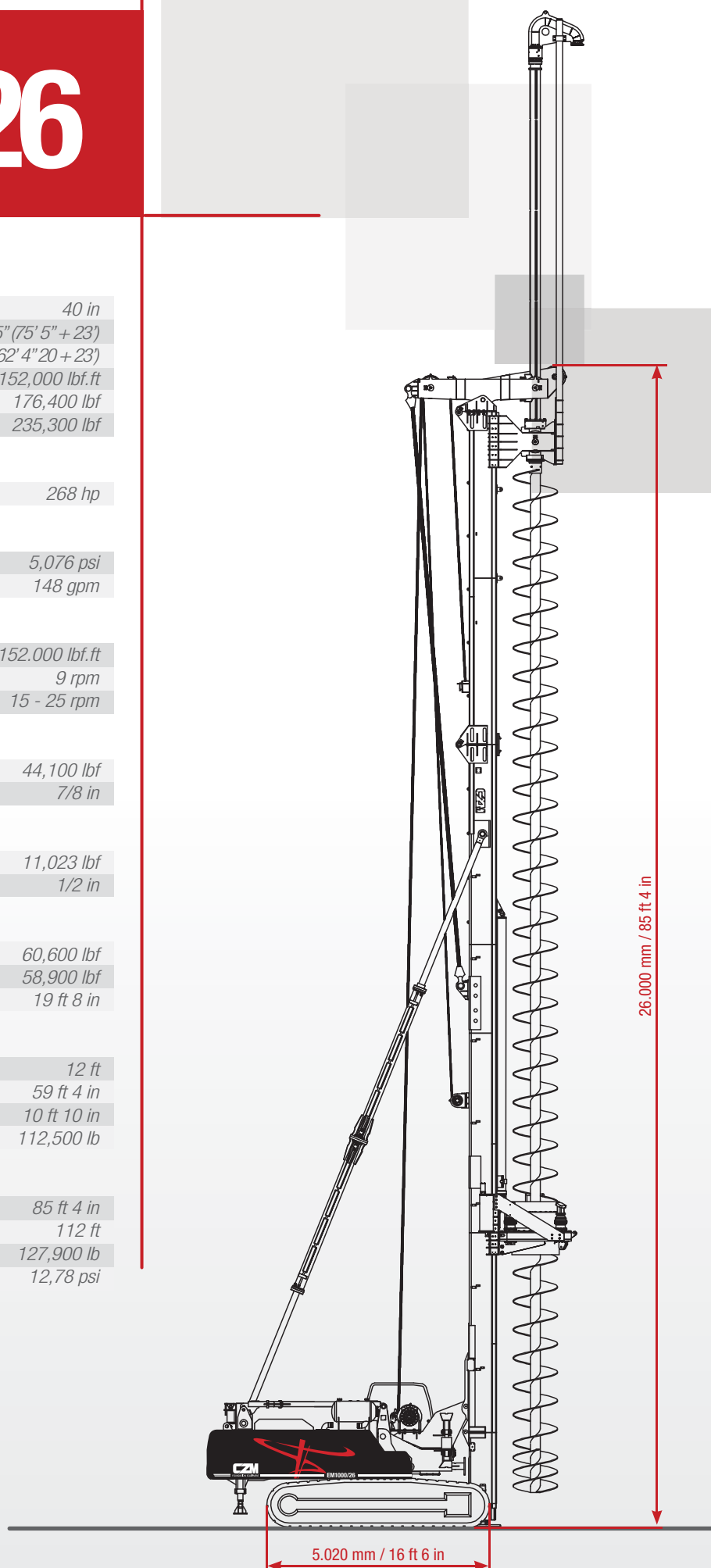
TRANSPORT

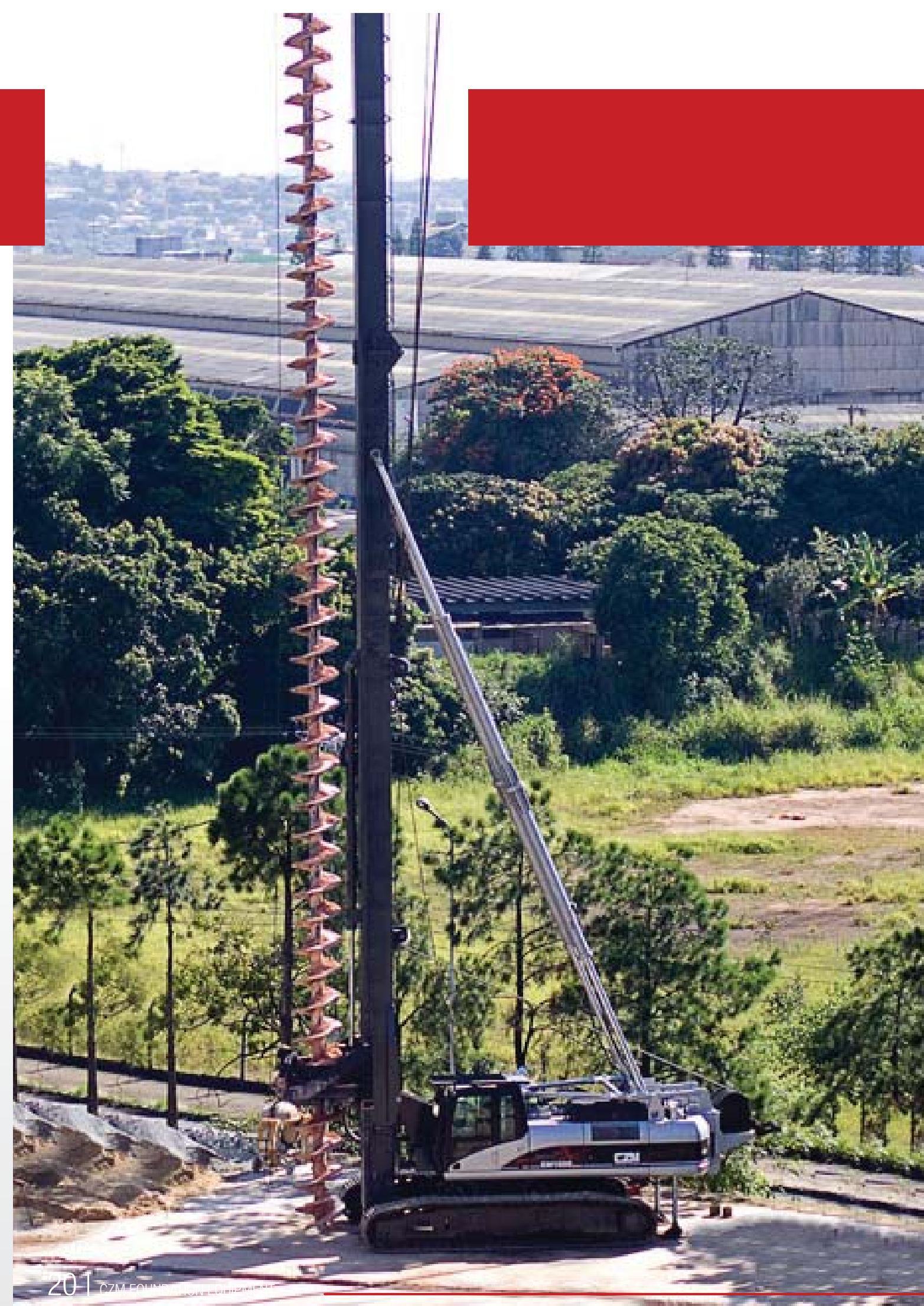
Overall Height	3.650 mm	12 ft
Transport Length	18.075 mm	59 ft 4 in
Transport Width	3.300 mm	10 ft 10 in
Transport Weight	52.000 kg	112,500 lb

GENERAL DATA

Overall height	26.000 mm	85 ft 4 in
Overall height with max. kelly extention	34.192 mm	112 ft
Operation weight	58.000 kg	127,900 lb
Ground pressure	0,9 kg/cm²	12,78 psi

Specifications based on Caterpillar base. Other chassis upon request.





EM1000/32

CFA DRILLING SYSTEM

Maximum pile diameter	1.000 mm	40 in
Maximum drilling depth	32 m (25 + 7)	105 ft (82' + 23")
Maximum torque	254 kN.m	187,335 lbf.ft
Extraction force (4x winch line pull)	883 kN	198,400 lbf
Extraction force (winch + "pull-up" cylinder)	1.142 kN	256,800 lbf

DIESEL ENGINE (CAT® C9 ACERT®)

Net Power	261 kW	350 HP
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HYDRAULIC SYSTEM

Main circuit pressure (max.)	350 bar	5,076 psi
Main circuit Flow rate (max.)	560 lpm	148 gpm

ROTARY HEAD

Maximum torque	254 kN.m	187,335 lbf.ft
Working Speed (maximum torque)	10 rpm	10 rpm
Working speed	12 - 23 rpm	12 - 23 rpm

MAIN WINCH

Maximum pull-force 1st Layer	221 kN	49,600 lbf
Cable diameter	25,4 mm	1 in

AUXILIARY WINCH

Maximum pull-force (1st layer)	114 kN	25,600 lbf
Cable diameter	19 mm	3/4 in

CROWD SYSTEM

Pull-down force (nominal)	289 kN	65,000 lbf
Pull-up force (nominal)	260 kN	58,400 lbf
Cylinder stroke	6.000 mm	19 ft 8 in

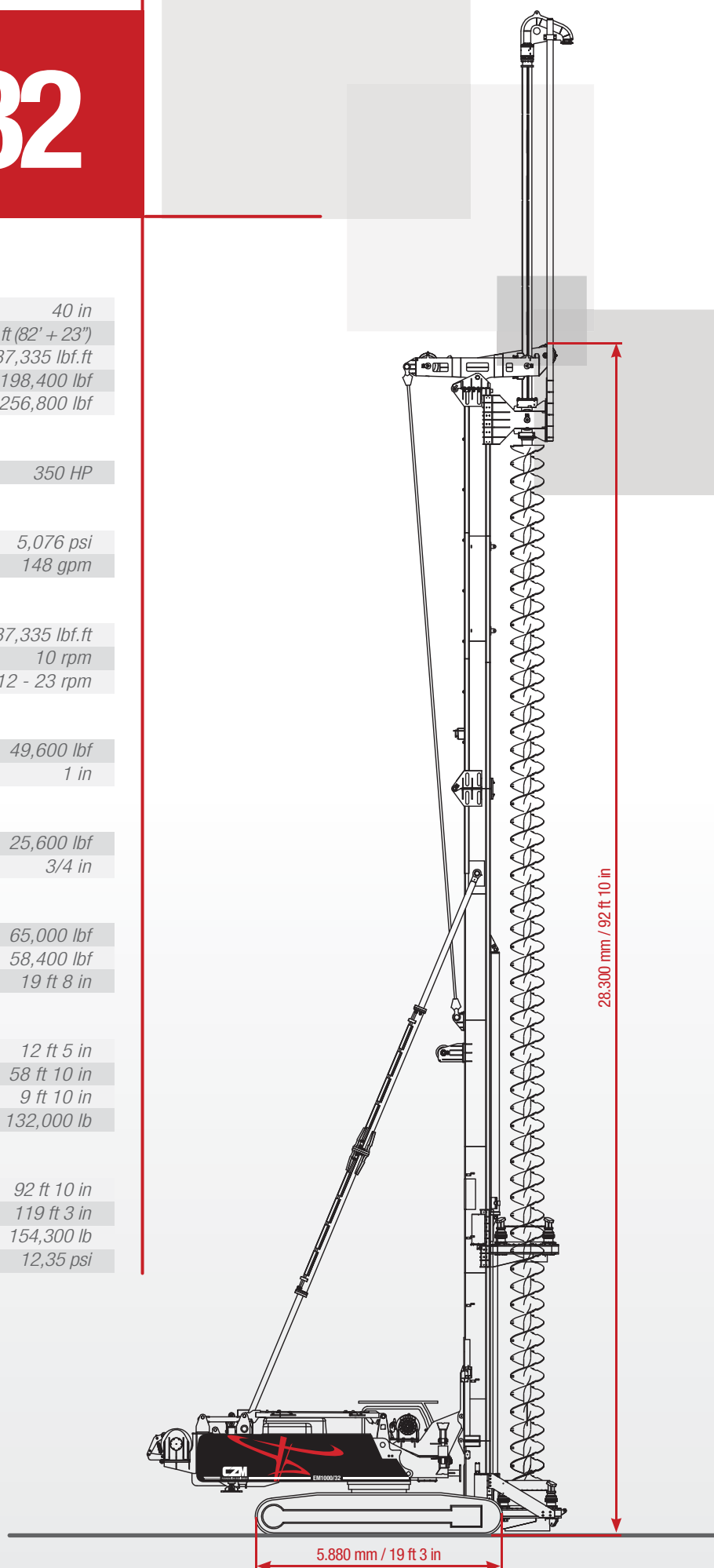
TRANSPORT

Overall Height	3.800 mm	12 ft 5 in
Transport Length	17.940 mm	58 ft 10 in
Transport Width	3.000 mm	9 ft 10 in
Transport Weight	60.000 kg	132,000 lb

GENERAL DATA

Overall height	28.300 mm	92 ft 10 in
Overall height with max. kelly extention	36.360 mm	119 ft 3 in
Operation weight	70.000 kg	154,300 lb
Ground pressure	0,87 kg/cm ²	12,35 psi

Specifications based on Caterpillar base. Other chassis upon request.





EK250CFA

CFA DRILLING SYSTEM

Maximum pile diameter	800 mm	32 in
Maximum drilling depth	27 m (20+7m)	88 ft (65+23) ft
Maximum torque	194 kN	127,960 lbf.ft
Extraction force (2 x winch line pull)	614 kN	138,100 lbf
Extraction force (winch + "pull-up" cylinder)	978 kN	220,000 lbf

DIESEL ENGINE (CAT® C9 ACERT®)

Net Power	261 kW	350 HP
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HYDRAULIC SYSTEM

Main circuit pressure (max.)	350 bar	5,076 psi
Main circuit Flow rate (max.)	480 L/min	127 gpm

ROTARY HEAD

Maximum torque	194 kN	127,960 lbf.ft
Working Speed (maximum torque)	12 rpm	12 rpm
Working speed	14-45 rpm	14-45 rpm

MAIN WINCH

Maximum pull-force 1st Layer	307 kN	69,050 lbf
Cable diameter	28 mm	1. 1/8 in

AUXILIARY WINCH

Maximum pull-force (1st layer)	104 kN	23,332 lbf
Cable diameter	19 mm	3/4 in

CROWD SYSTEM

Pull-down force (nominal)	326 kN	73,326 lbf
Pull-up force (nominal)	364 kN	81,814 lbf
Cylinder stroke	6.000 mm	19 ft 8 in

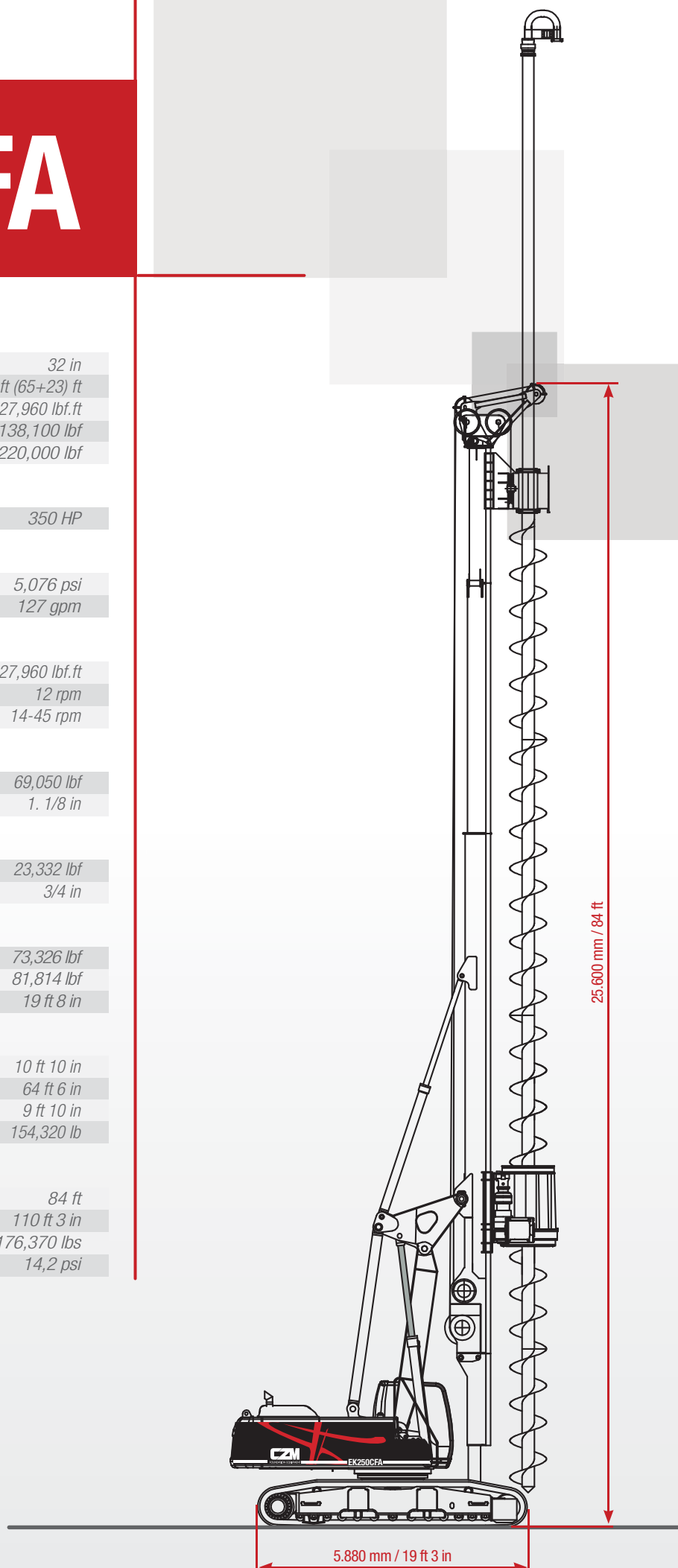
TRANSPORT

Overall Height	3.295 mm	10 ft 10 in
Transport Length	19.670 mm	64 ft 6 in
Transport Width	3.000 mm	9 ft 10 in
Transport Weight	70.000 kg	154,320 lb

GENERAL DATA

Overall height	25.600 mm	84 ft
Overall height with max. kelly extention	33.600 mm	110 ft 3 in
Operation weight	80.000 kg	176,370 lbs
Ground pressure	1 kg/cm²	14,2 psi

Specifications based on Caterpillar base. Other chassis upon request.





HYDRAULIC HAMMER

	EM5000HH	EM8000HH	EK250HH
CHASSIS	CAT 320	CAT 336	CAT 336 HHP
INSTALLED POWER (kw / HP)	103 / 138	200 / 268	261 / 350
RAM WEIGHT (kg / lb)	5.000 / 11,023	7.000 / 15,400*	8.000 / 17,640
ENERGY/BLOW (Nm / ft.lb)	58.800 / 43,350	82.400 / 60,750	94.200 / 69,500
TRANSPORT WEIGHT (kg / lb)	35.000 Kg / 77,160	48.000 / 105,800	70.000 / 154,320

*Available with 8.000 Kg (17,640 lb) ram



EM5000HH

HYDRAULIC HAMMER - HR 5.000

Energy per blow (maximum)	58.800 Nm	43,350 ft.lb
Hammer frequency (maximum)	100 golpes/min	100 blows/min
Drop height (maximum)	1,2 m	3 ft 11 in
Piston weight	5.000 kg	11,023 lb
Hammer total weight	6.800 kg	14,990 lb
Cap inner diameter	500 mm	19.5/8 in
Pile lenght (maximum)	12.000 mm	39 ft
Hammer stroke	13.000 mm	42 ft 8 in

DIESEL ENGINE (CAT® C6.4 ACERT®)

Net Power	103 kW	138 HP
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MAIN WINCH

Maximum pull-force - 1st Layer (effective)	75 kN	16,870 lbf
Line speed - 1st Layer	48 m/min	157 ft/min
Cable diameter	19 mm	3/4 in

AUXILIARY WINCH

Maximum pull-force 1st Layer	75 kN	16,870 lbf
Cable diameter	19 mm	3/4 in

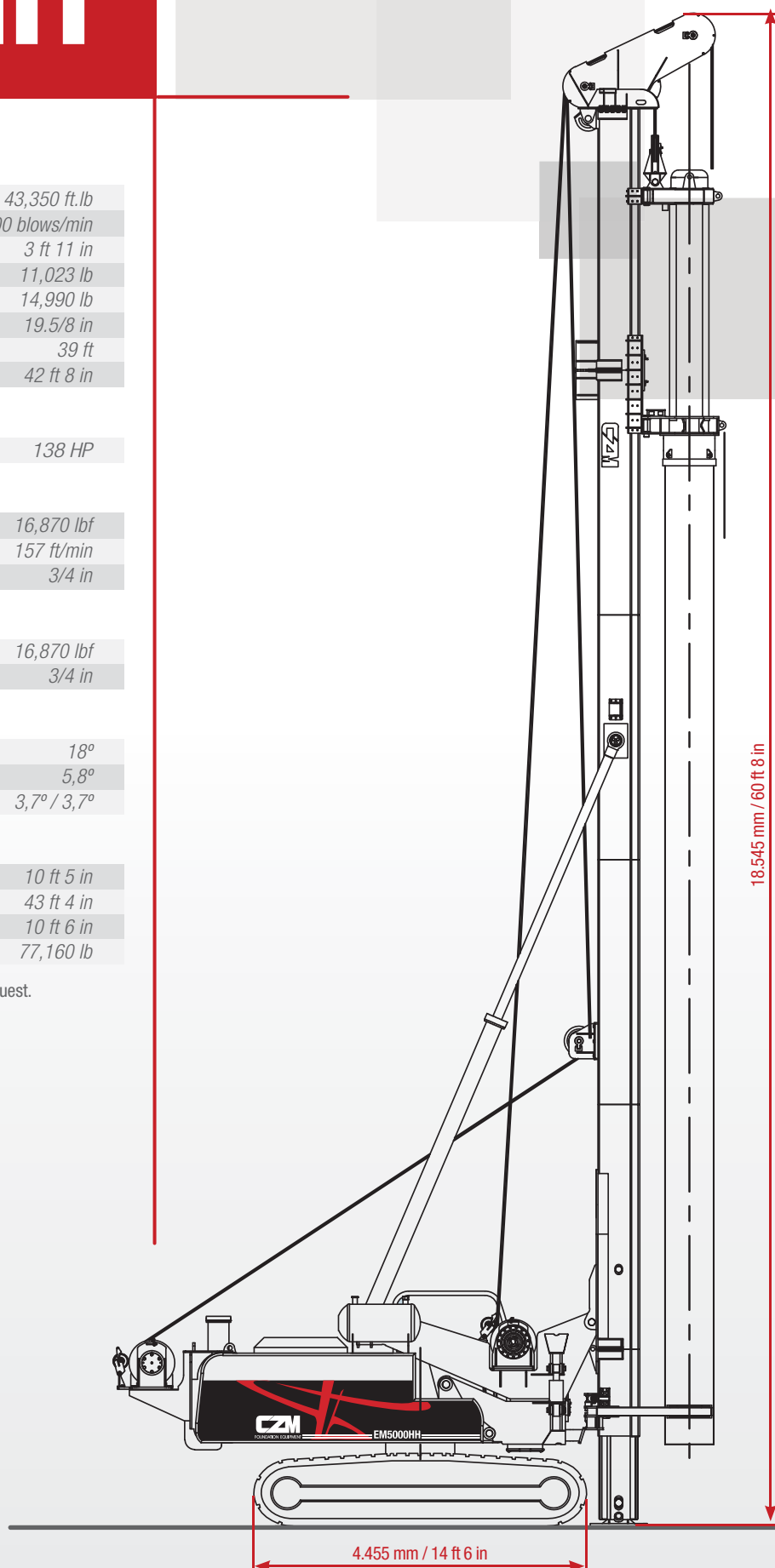
MAST INCLINATION

Backward	18°	18°
Forward	5,8°	5,8°
Sideways	3,7° / 3,7°	3,7° / 3,7°

TRANSPORT

Overall Height	3.181 mm	10 ft 5 in
Transport Lenght	13.200 mm	43 ft 4 in
Transport Width	3.200 mm	10 ft 6 in
Transport Weight	35.000 kg	77,160 lb

Specifications based on Caterpillar base. Other chassis upon request.





EM8000HH

HYDRAULIC HAMMER - HR 8.000

Energy per blow (maximum)	82.400 Nm	60,750 ft.lb
Hammer frequency (maximum)	100 golpes/min	100 blows/min
Drop height (maximum)	1,2 m	3 ft 11 in
Piston weight	7.000 kg*	15,432 lb*
Hammer total weight	9.600 kg	21,164 lb
Cap inner diameter	600 mm	23.518 in
Pile lenght (maximum)	12.000 mm	39 ft
Hammer stroke	13.000 mm	42 ft 8 in

DIESEL ENGINE (CAT® C9 ACERT®)

Net Power	200 kW	268 HP
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MAIN WINCH

Maximum pull-force - 1st Layer (effective)	95 kN	21,254 lbf
Line speed - 1st Layer	70 m/min	229 ft/min
Cable diameter	19 mm	3/4 in

AUXILIARY WINCH

Maximum pull-force 1st Layer	112 kN	25,093 lbf
Cable diameter	22 mm	7/8 in

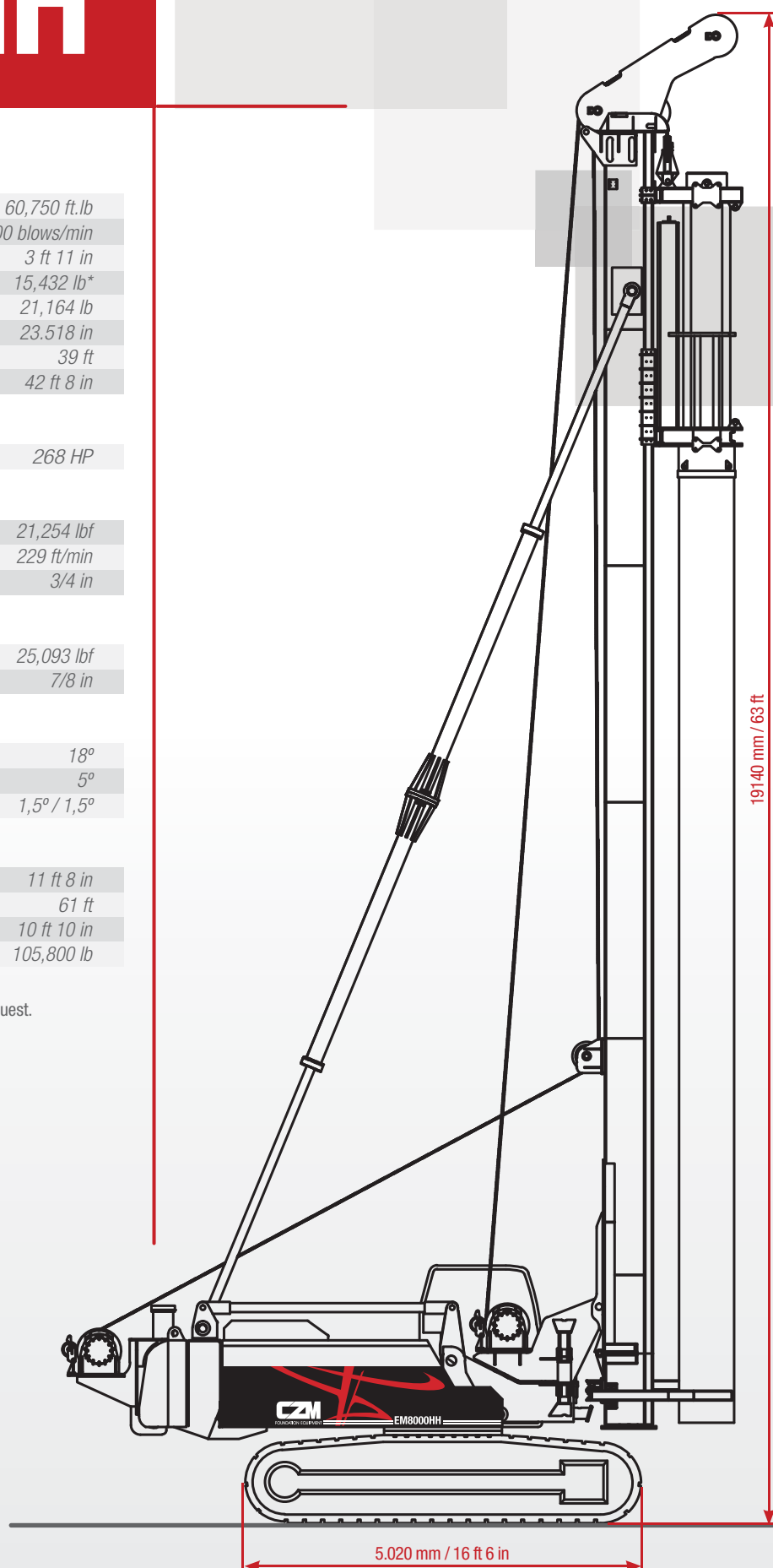
MAST INCLINATION

Backward	18°	18°
Forward	5°	5°
Sideways	1,5° / 1,5°	1,5° / 1,5°

TRANSPORT

Overall Height	3.550 mm	11 ft 8 in
Transport Lenght	18.700 mm	61 ft
Transport Width	3.300 mm	10 ft 10 in
Transport Weight	48.000 kg	105,800 lb

*Available with 8.000 Kg (17,640 lb) ram
Specifications based on Caterpillar base. Other chassis upon request.





EK250HH

HYDRAULIC HAMMER - HR 8.000

Energy per blow (maximum)	94.200 N.m	69,500 ft.lb
Hammer frequency (maximum)	100 golpes/min	100 blows/min
Drop height (maximum)	1,2 m	3 ft 11 in
Piston weight	8.000 kg	17,640 lb
Hammer total weight	11.000 kg	24,250 lb
Cap inner diameter	600 mm	23.5/8 in
Pile lenght (maximum)	18.000 mm	60 ft
Hammer stroke	19.000 mm	62 in 4 ft

DIESEL ENGINE (CAT® C9 ACERT®)

Net Power	261 kW	350 HP
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MAIN WINCH

Maximum pull-force - 1st Layer (effective)	307 kN	69,049 lbf
Line speed - 1st Layer	54 m/min	176 ft/min
Cable diameter	28 mm	1. 1/8 in

AUXILIARY WINCH

Maximum pull-force 1st Layer	104 kN	23,325 lbf
Cable diameter	19 mm	3/4 in

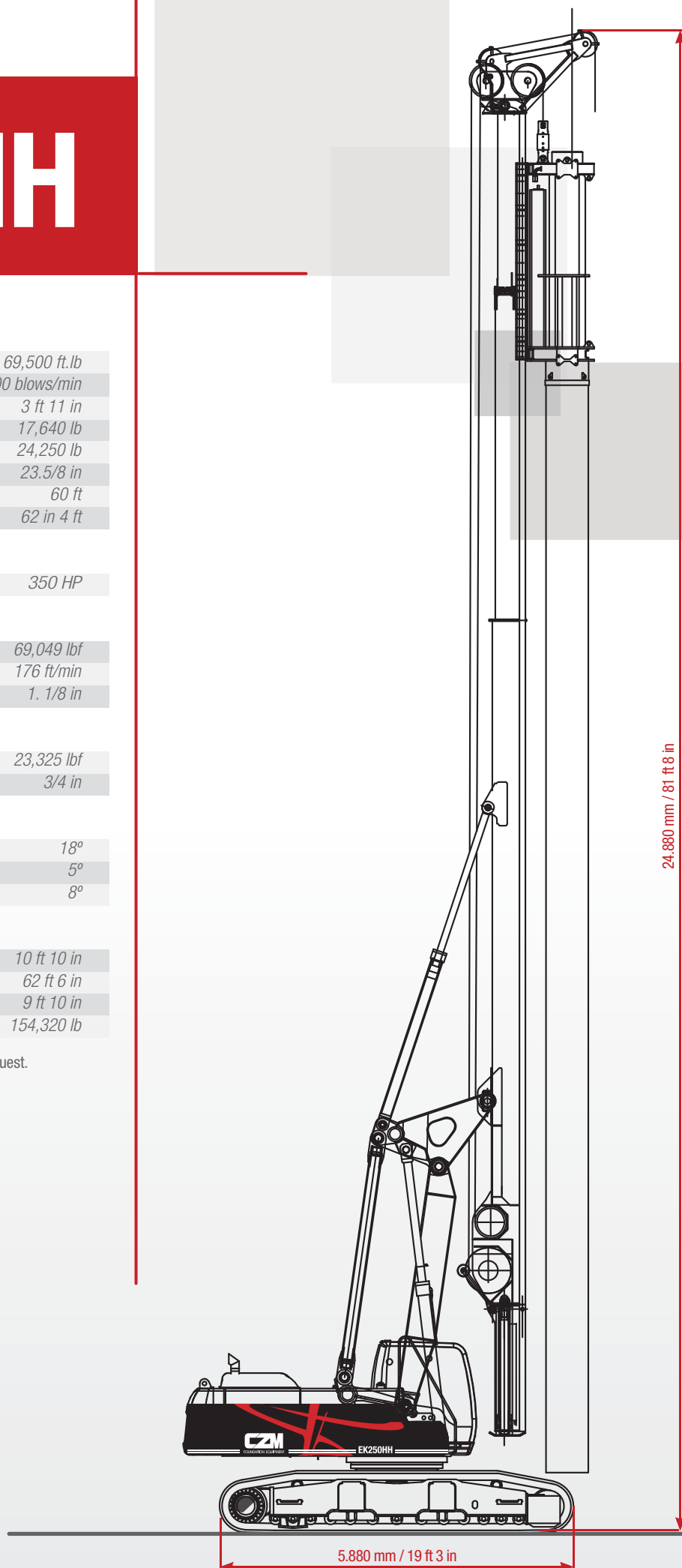
MAST INCLINATION

Backward	18°	18°
Forward	5°	5°
Sideways	8°	8°

TRANSPORT

Overall Height	3.295 mm	10 ft 10 in
Transport Lenght	19.045 mm	62 ft 6 in
Transport Width	3.000 mm	9 ft 10 in
Transport Weight	70.000 kg	154,320 lb

Specifications based on Caterpillar base. Other chassis upon request.





OTHER APPLICATIONS

EK180

SECANT PILE

TECHNICAL SPECIFICATIONS

Application	Secant Piles	Secant Piles
Base Machined	CAT 336 HHP	CAT 336 HHP
Installed Power	261 kW	350 HP
Double Rotary Head	Eurodrill	Eurodrill
Maximum Torque	2 x 73,5 kN.m	2 x 54,200 lbf.ft
Maximum Diameter	600 mm	24 in
Maximum Depth	19 m	62 ft



TM300

TECHNICAL SPECIFICATIONS

Installed Power	82 kw	110 HP
Maximum Torque	25 kN.m	18,000 lbf.ft
Maximum Depth	25 m	82 ft
Maximum Diameter	1,5 m	60 ft
Efective Pull-Down Force	127 kN	28,700 lbf
Main Winch	Pull Master H18	Pull Master H18
Maximum Line-Pull	80 kN	18,000 lbf
Spin-off Speed	110 rpm	110 rpm
Transport Weight	127 kN	28,700 lb



EX70K

TECHNICAL SPECIFICATIONS

Base Machine	CAT 336	CAT 336
Installed Power	200 kW	268 HP
Maximum Torque	95 kN.m	70,200 lbf.ft
Maximum Depth	18 m	60 ft
Maximum Diameter	2,700 mm	106 in
Effective Pull-Down Force	113 kN	25,300 lbf
Main Winch	Pull Master H25	Pull Master H25
Maximum Line-Pull	111 kN	25,000 lbf
Spin-off Speed	100 RPM	100 RPM
Transport Weight	45,000 kg	100,000 lb

MC180T

TECHNICAL SPECIFICATIONS

Installed Power	82 kw	110 HP
Maximum Torque	11 kN.m	8.380 lbf.ft
Maximum Speed	195 rpm	195 rpm
Maximum Clamps Diameter	356 mm	14 in
Pull-Down Force	112 kN	25,135 lbf
Extraction Force	149 kN	33,512 lbf
Rotary Head Inner Passage	63,5 mm	2.1/2 in
Transport Weight	9.500 kg	21,000 lb



MC180 JET

TECHNICAL SPECIFICATIONS

Installed Power	82 kW	110 HP
Maximum Torque	18 kN.m	13,635 lbf.ft
Maximum Speed	120 rpm	120 rpm
Maximum Depth Tube	15 m	50 ft
Maximum Diameter	75 mm	3 in
Maximum Clamp Diameter	457 mm	18 in
Rotary Stroke	3,500 mm	11 ft 10 in
Pull Down Force	112 kN	25,130 lbf
Extraction Force	149 kN	33,510 lbf



MC150

MICRO PILE

TECHNICAL SPECIFICATIONS

Installed Power	56 kw	75 HP
Maximum Torque	10 kN.m	6,850 lbf.ft
Maximum Speed	90 rpm	90 rpm
Maximum Clamps Diameter	355 mm	14 in
Pull-Down Force	82 kN	18,500 lbf
Extraction Force	120 kN	26,900 lbf
Rotary Head Inner Passage	63,5 mm	2.1/2 in
Transport Weight	7.000 kg	15,500 lb



MC150

KELLY BAR

TECHNICAL SPECIFICATIONS

Installed Power	56 kw	75 HP
Maximum Torque	10 kN.m	6,850 lbf.ft
Maximum Depth	15 m	49 ft
Maximum Diameter	1,000 mm	40 in
Pull-Down Force	82 kN	18,500 lbf
Rotary Stroke	3,600 mm	11 ft 10 in
Transport Weight	9,000 kg	19,800 lb



EM800/24 R

TECHNICAL SPECIFICATIONS

Application	Micro Pile	Micro Pile
Base Machined	CAT 320	CAT 320
Installed Power	103 kW	138 HP
Maximum Torque	18 kN	13,635 lbf.ft
Maximum Clamp Diameter	457 mm	18 in
Rotary Stroke	16 m	52 ft 6 in
Pull Down Force	98 kN	22,000 lbf
Pull Up Force	196 kN	44,000 lbf

EM800/24 JET

TECHNICAL SPECIFICATIONS

Application	Micro Pile / Jet Grouting	
Base Machined	CAT 320	CAT 320
Installed Power	103 kW	138 HP
Maximum Torque	18 kN	13,635 lbf.ft
Maximum Speed	150 rpm	150 rpm
Maximum Depth (single pass)	30 m	98 ft
Maximum Diameter	90 mm	3.1/2 in
Transport Weight	40 ton	88,000 lb



FOUNDATION EQUIPMENT



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WWW.CZM.COM.BR

CONTAGEM

Avenida Sócrates Mariani Bittencourt, nº364
Cinco • Contagem • Minas Gerais
CEP 32010-010 • Tel.: +55 31 2111-6200

SÃO PAULO

Avenida Eliseu de Almeida, nº1051
Butantã • São Paulo • São Paulo
CEP: 05533-000 • Tel.: +55 11 3721-7795



USA

WWW.CZM-US.COM

SAVANNAH

145 East Industrial Boulevard
Pembroke • Georgia • ZIP Code: 31321
USA • Phone: +1 912 964-2214