

# CMV TH32

Hydraulic Piling Rig



Mc DRILL TECHNOLOGY

Perforatrice idraulica per pali  
Hydraulic piling rig



## caratteristiche tecniche technical features

### **TH 32 hydraulic piling rig**

CMV new generation of hydraulic piling rig TH 32 is composed of a CMV design base unit on crawlers and of a drilling application module either for:

- Telescopic friction and interlocking kelly bars
- Casing oscillator attachment.

### TECHNICAL FEATURES

#### *Selferecting / Selfpropelled*

TH 32 equipment is ready to operate without any service crane support as it is supplied with a parallelogram support system that allows the unit to selferect. No separate power pack is required to operate the drilling unit.

Retractable and demountable crawlers TH 32 model is equipped with heavy duty retractable undercarriage with demountable crawlers, for easy transportation and high working stability. The controls to extend and retract the crawlers are fully electrohydraulic and located inside the operator's cabin.

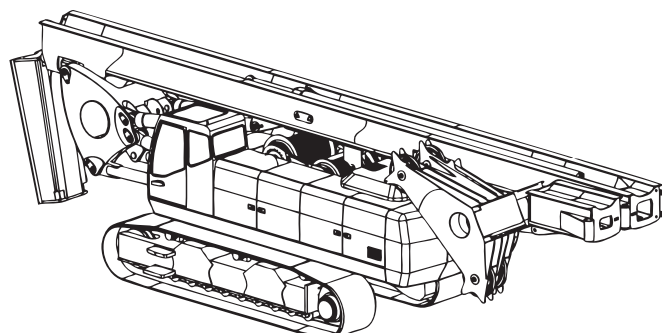
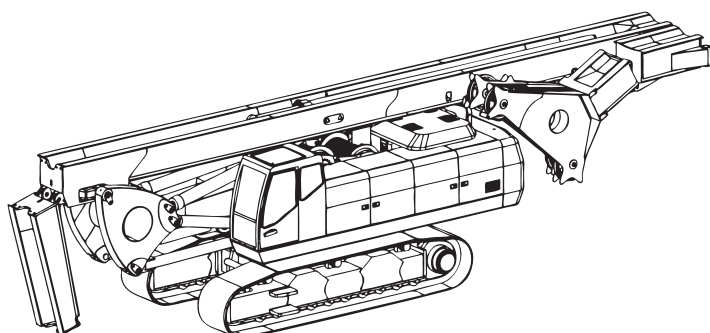
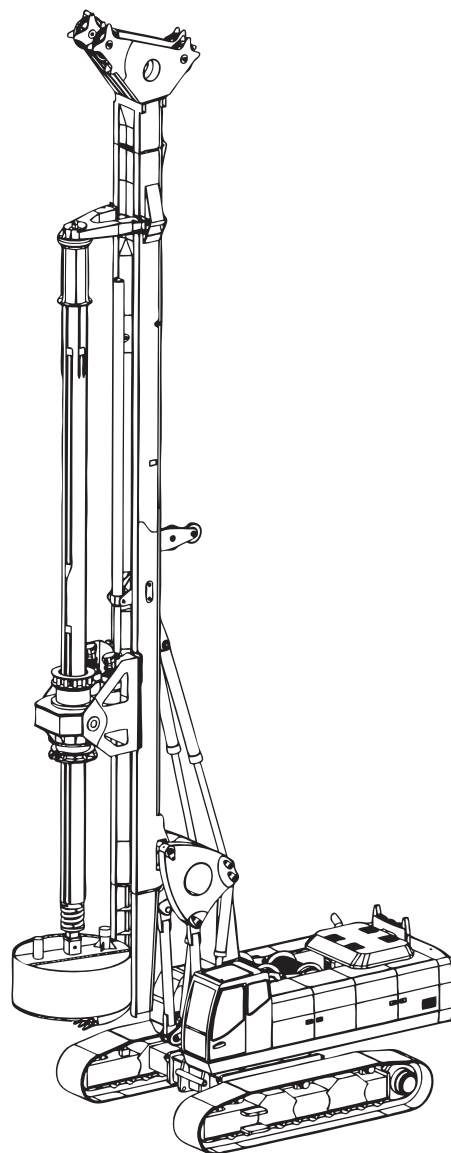
Base unit TH 32 base unit is fitted with: diesel engine; hydraulic circuit made with main steel piping, high pressure joints and JIC type fittings; hydraulic distributors; hydraulic oil tank; fuel tank; hydraulic filters and air filter, hydraulic pumps.

The oil cooling system has been specially designed to work at severe outside temperatures.

Built-in hydraulic winches TH 32 base frame is designed to house high capacity hydraulic main winch and auxiliary winch. The main winch is also provided with a controlled freefall hydraulic system for automatic winch rope release during the drilling operations.

Operator's cabin TH 32 is equipped with a very comfortable soundproofed cabin, provided with adjustable seat, air conditioner and heater. Control panel is designed with all levers and operating joystick located in favourable position to the operator. The control panel is also provided with mast verticality and depthfinder electronic indicators.

A complete computerized system is also available on request.

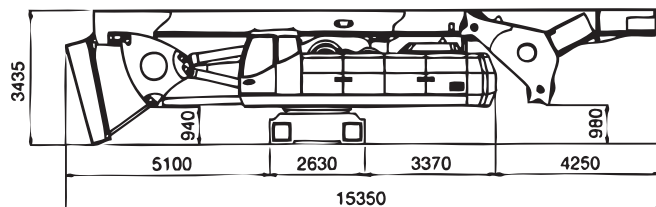
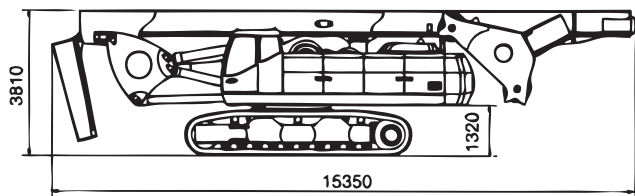
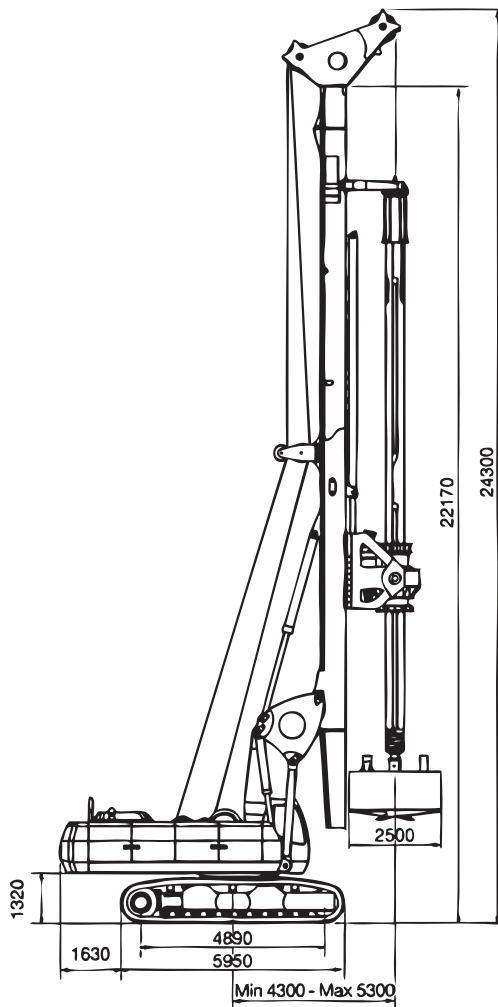
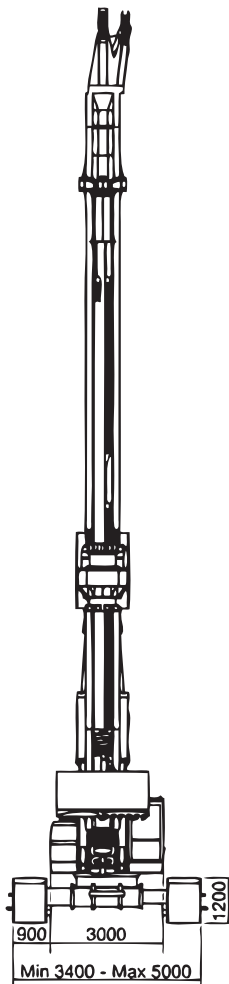


# dati tecnici - MDT CMV TH 32

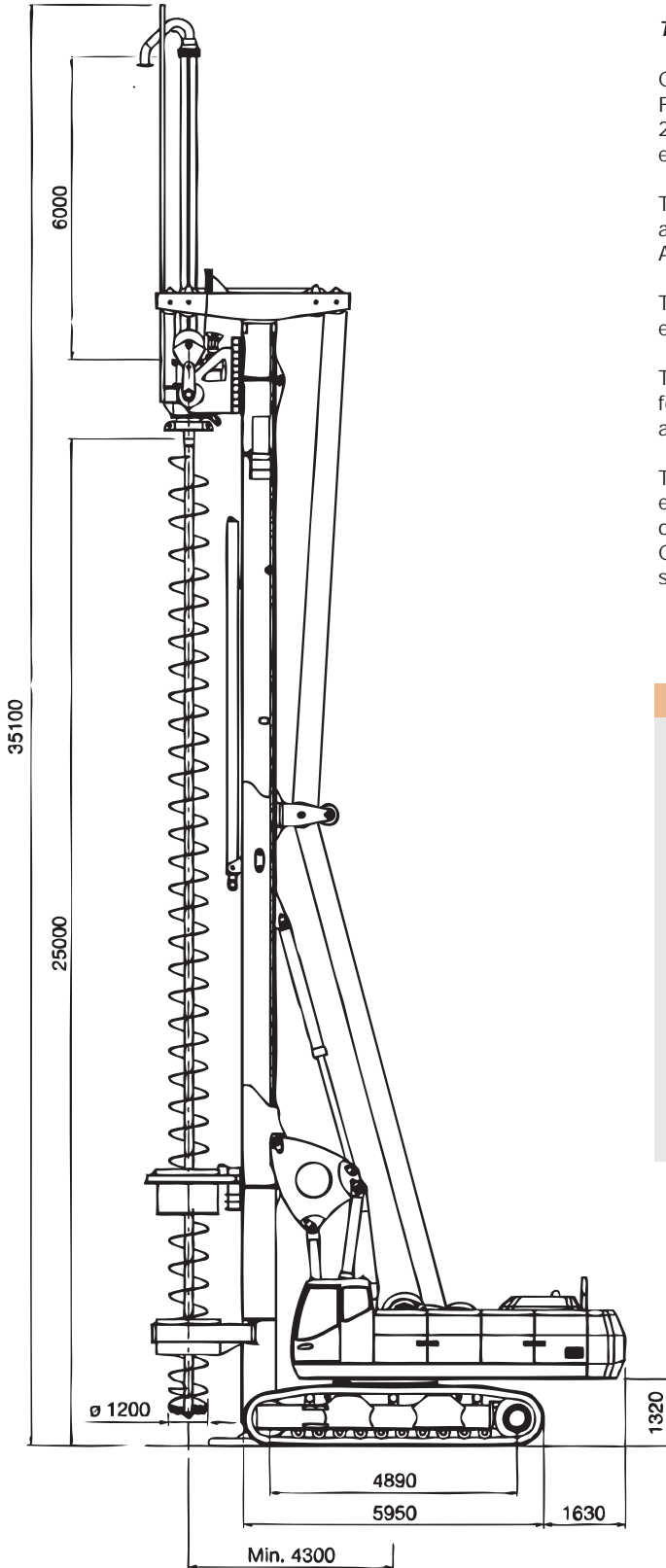
## technical data - MDT CMV TH 32

Macchina Base / Base Unit	Unità / Units	Misure / Measures
<i>Sottocarro allargabile / Retractable undercarriage</i>		
Larghezza min/max. / Min/Max width	mm	3.400 /5.000
Lunghezza / Length	mm	5.950
Larghezza pattini / Track shoes width	mm	900
Velocità avanzamento cingoli / Travelling speed	Km/h	1,5
Pressione specifica al suolo / Ground pressure	N /cm <sup>2</sup>	11
<i>Motore diesel / Diesel Engine</i>		
Potenza installata / Rated power	tipo/type	CUMMINS QSX 15
Serbatoio carburante / Fuel tank capacity	kW/hp	447 / 600 @ 2.100 rpm
	Lt	630
<i>Argano principale / Main winch</i>		
Tiro max / Line pull max	kN	300
Velocità fune max / Line speed max	m/min	81
Diametro fune / Rope diameter	mm	32
<i>Argano ausiliario / Auxiliary winch</i>		
Tiro max / Line pull max	kN	220
Velocità fune max / Line speed max	m/min	81
Diametro fune / Rope diameter	mm	28
Peso totale operativo / Operating weight	Kg	110.000
Peso min trasporto / Transport weight min	Kg	70.000
<b>Applicazione Pali / Kelly Bar Application</b>		
Unità / Units		
Misure / Measures		
Diametro di perforazione max / Drilling diameter max	mm	3.000
Profondità max / Depth max	m	75
Coppia Rotary / Rotary torque	kNm	320
Velocità di rotazione max / Drilling speed max	rpm	22
Velocità di scarico / Discharge speed	rpm	110
<i>Pull-down / Crowd system</i>		
Corsa / Stroke	mm	6.500
Spinta / Crowd force max	kN	250
Estrazione / Extraction force max	kN	250
<i>Aste telescopiche / Kelly bar application</i>		
A frizione - profondità max / Friction type - depth max	m	5x17 m (75 m)
Ad incastro - profondità max / Interlocking type - depth max	m	4x17 m (58 m)
<b>Applicazione Morsa Giracolonne / Casing Oscillator Application</b>		
Unità / Units		
Misure / Measures		
Morsa giracolonne / Hydraulic casing oscillator	tipo/type	HCO 2500
Diametro rivestimento max / Casing diameter max	mm	2.500
Diametro rivestimento min / Casing diameter min	mm	800
Lunghezza rivestimento / Casing element length max	mm	4.000
Larghezza morsa max / Casing oscillator width max	mm	3.100
Lunghezza morsa max / Casing oscillator length max	mm	4.960
Altezza morsa max / Casing oscillator height max	mm	1.695
Peso morsa max / Casing oscillator weight max	Kg	15.500
Asta telescopica / Appliable telescopic kelly bar	tipo/type	4x12 m /5x12 m
Profondità di scavo max / Drilling depth max	m	42 /52
<i>Trascinatore / Casing twister</i>		
Rivestimento diametro min/max / Casing diameter min/max	mm	2.500
<b>Elica Continua / Cfa Application</b>		
Unità / Units		
Unità / Units		
Diametro di perforazione max / Drilling diameter max	mm	1.500
Profondità massima / Drilling depth max	m	23 + 6
Profondità con puliellica max / Drilling depth with auger cleaner max	m	22 + 6
Forza di estrazione / Extraction force	kN	1.200
Argano pull-down (opzionale) / Crowd winch (optional)	kN	75
Computer per CFA (opzionale) / CFA computer (optional)		✓

disegni tecnici - MDT CMV TH 32  
 technical drawings - MDT CMV TH 32



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**TH 32 hydraulic piling rig**

CMV hydraulic piling rig TH 32 is also available for CFA (Continuous Flight Auger) application. The unit is designed to drill with CFA up to 23 m depth with the possibility to apply an interlocking type auger extension allowing a max. depth of 29 m.

The rotary table stroke is manoeuvred by the main winch of the rig assuring a nominal extraction force of kN 1176. A 10 tons pull-down winch is an optional supply.

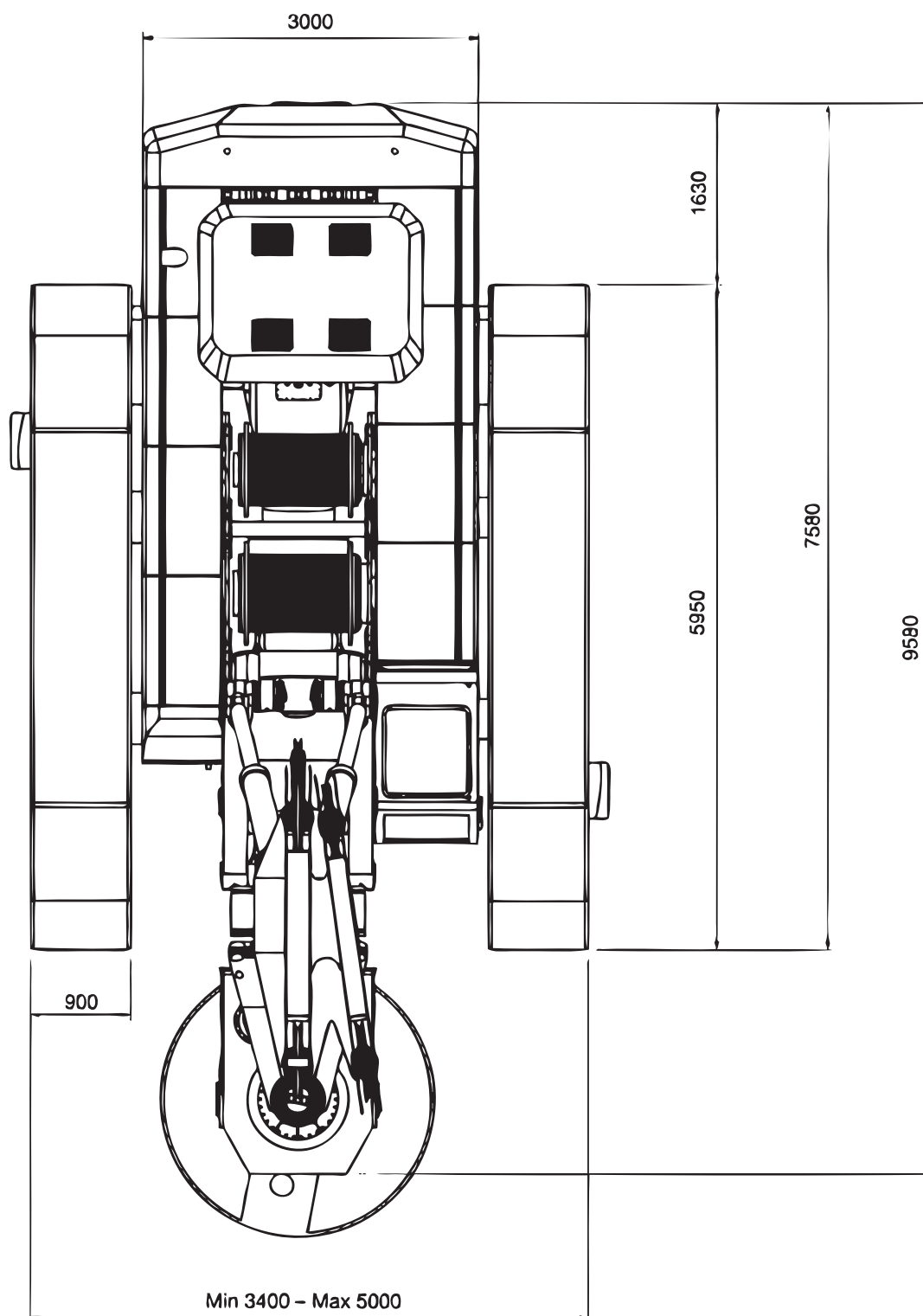
The drilling mast is designed with foldable and demountable CFA extensions and hydraulic mast foot with wide steel base plate.

The unit is provided with openable auger guide with proper reductions for a range of augers from 1200 mm dia. to 600 mm, and hydraulic auger cleaner with automatic control during extraction operations.

The control panel is also provided with mast verticality and depthfinder electronic indicators. A complete computerized system is also available on request. The unit is ready to be implemented with data recorder and CFA parameters control devices. A concrete pressure indicator is a standard supply.

CFA Version	Units	Measures
Drilling depth with auger extension	m	31
Drilling depth with auger cleaner	m	29
Drilling depth without drilling extension	m	25
Drilling diameter max.	mm	1.200
Nominal torque at 350 bar	kNm	320
Drilling speed range min/max	rpm	7,5-22
Rotary hollow passage	inch	5
<i>Extraction force by main winch</i>		
Nominal extraction force - 4 lines pull	kN	4x300
Main winch rope dia.	mm	32
<i>Auxiliary winch</i>		
Nominal single line pull	kN	220
Auxiliary winch rope dia.	mm	28
Pull-down winch (optional)	kN	98
Auger cleaner dia. min / max (optional)	mm	1.200-1.600

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