



AGD Equipment Limited

SALES • RENTAL • SERVICE • PARTS

MINI CRANES

CRAWLER CRANES

TELESCOPIC CRANES

**PILING RIGS
AND EQUIPMENT**

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NCB FD280 Rotary & CFA Specification

www.agd-equipment.co.uk



FD 280

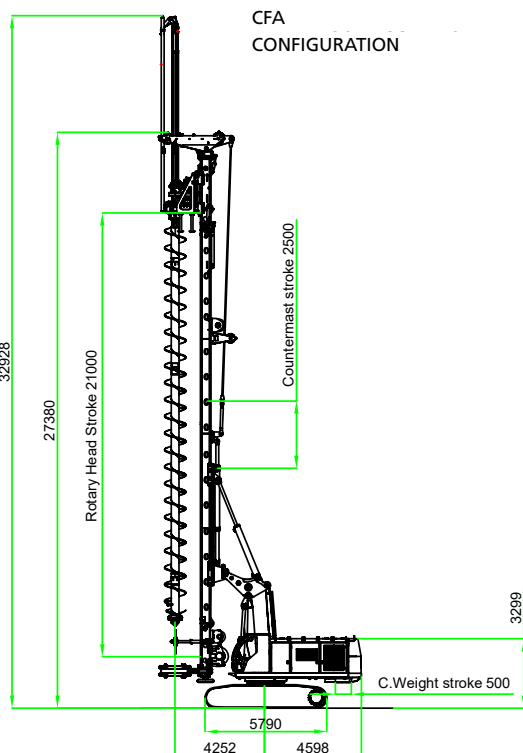
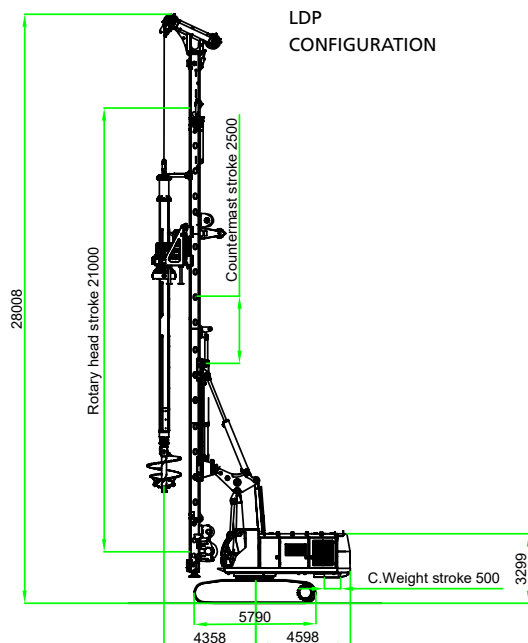
CFA • FDP • Rigid Inclusions • LDP



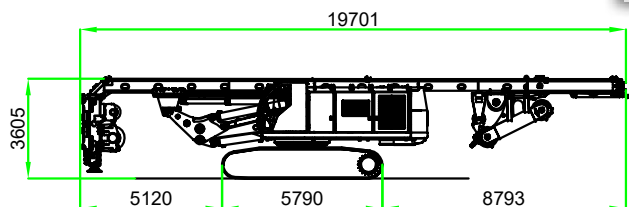


FD 280
CFA • FDP • Rigid Inclusions • LDP

Work configuration



Transport configuration



UNDERCARRIAGE

Width with closed tracks	mm	2980
Width with open tracks	mm	4480
Shoe width	mm	900
Length	mm	5791
Pitch	mm	4800

DIESEL ENGINE

Type / Model	VOLVO PENTA	TAD 1383 VE	STAGE V
Power @ 1900 rpm		kw	345
Electrical system		V	24
Fuel Tank capacity		l	760

HYDRAULIC SYSTEM

Hydraulic pumps (Delivery @ 2000 r.p.m.)	1° circuit P1 Hydrostatic Pump	l/min bar (max)	540 320
	2° circuit P2 Hydrostatic Pump	l/min bar (max)	540 320
Rig Setup	3° circuit P3 Hydrostatic Pump	l/min bar (max)	220 320
Air-oil heat exchanger drive	4° circuit P4 Gears Pump	l/min bar	54 140
Oil recirculation for cooling	5° circuit P5 Gears Pump	l/min bar	260 60
Rotary head motors washing	6° circuit P6 Gears Pump	l/min bar	76 140
Pilots	7° circuit P7 Gears Pump	l/min bar	28 40
Hydraulic oil tank capacity		l	750

MAST (LDP Configuration)

Total length		mm	25916
Telescopic foot stroke		mm	1600
Counter mast stroke		mm	2500
Crowd system	Type	2nd line pull	Winch
1st Gear	Push/Pull	kN	330
	Speed	m/min	7.5
2nd Gear	Push/Pull	kN	102
	Speed	m/min	25
	LDP Stroke	m	10
	CFA Stroke	m	21.5
Mast lateral inclinations		°	+/-5
Mast forward inclinations		°	5
Mast backwards inclination		°	15

LDP Performance

Maximum drilling Depth	m	71
Installed Kelly Bar	4x12 m	Depth 42 m
Maximum feasible diameter	Cased mm	1600
	Uncased mm	1900

CFA Kit

Drilling depth	m	21
Maximum depth with 8 m extension	m	29
Extraction Force	kN	1000
Maximum drilling diameter	mm	1200
Maximum Depth up to Ø1000 CFA	m	29
Maximum Depth with Ø1200 CFA	m	20

CFA KIT components included

- 4 line pull cathead
- 8 m Extension rod
- 5" swivel + swan neck
- Anti-rotation rod
- Rotary head reduction
- Rotary head pulleys
- Reaction rope
- Hydraulic drive Auger guide fit for Ø600 ÷ Ø1200 mm

CFA Pull Down Winch

Crowd winch used as CFA pull down winch limited to 3-ton line pull.

T-28000 ROTARY HEAD

Maximum torque		daNm	28402
Drilling Speed		r.p.m.	7 – 26
Discharge Speed		r.p.m.	71
Number of hydraulic motors		n°	4
1st gear	Torque	daNm	28402.23
		r.p.m.	7.31
2nd gear	Torque	daNm	20637.93
		r.p.m.	10.01
3rd gear	Torque	daNm	15539.06
		r.p.m.	13.30
4th gear	Torque	daNm	12989.62
		r.p.m.	15.91
5th gear	Torque	daNm	7890.76
		r.p.m.	26.19

WINCHES

MAIN WINCH (controlled descend type)			
Max Pulling force Pull force (1st layer)	daN	23200	
Max Speed (3rd layer)	m/min	55	
Rope diameter	mm	Ø28	
AUXILIARY WINCH			
Max pulling force (1st layer)	daN	8000	
Max Speed (3rd layer)	m/min	50	
Rope diameter	mm	Ø18	

WEIGHT

Weight	<i>without kelly / auger</i>	ton	~80
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NOTES

- Remote control for loading and unloading operations and for rig setup;
- NCB software;
- Overturning of the cathead and the upper extension by hydraulic cylinders;
- Extendable undercarriage;
- Extendable counterweight;
- Handrail on the top of the base machine canopy;
- Lateral catwalk;
- Camera safety kit;



FD 280



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