

45
YEARS

REL
REVATHI EQUIPMENT LIMITED



C750

ROTARY SERIES

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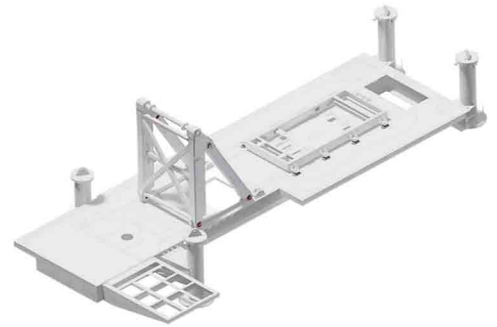
- ✓ The REL C750 is a crawler mounted, self-propelled, self-contained, hydraulically operated, diesel engine / electric powered Rotary Blast hole drilling rig capable of drilling up to 9" to 11" dia. holes by Rotary drilling method.

MAINFRAME:

- ✓ Made up of I Beam construction, High Tensile strength material, Designed with Finite Element Analysis, Fabricated by certified welders.

MAST:

- ✓ REL C750 Masts are designed using Finite Element Analysis to achieve high cycle fatigue resistance and less downtime and costs repairing cracks. Constructed of seamless rectangular tubes braced by quend plate strength alloy steel, the mast provides maximum rotary carriage and drill string support.



MAST STRUCTURE MADE OF
ASTM A500 STRUCTURAL STEEL TUBING

OPERATORS CABIN:

- ✓ Ergonomically designed, FOPS certified operator's cab provides excellent visibility and operators comfort. Provided with a clear, unobstructed view of the drilling area and areas surrounding the drill. Cameras ensure that the operator can maintain complete situational awareness during drilling and propelling. The operator's chair can swivel to face the direction of travel during propelling for safer repositioning.



ROTARY HEAD:

- ✓ Two hydraulic motor driven top head drive through Planetary gearbox and spur gear reduction with a maximum high rotation torque of 108,000 Inch-pounds (12,200 Nm) at 0-150 RPM infinitely variable speed. Shock sub will be provided to avoid drilling vibrations and shock loads transferred to rotary head.

PARAMETERS	UNIT	ROTARY		
		C750D	C750E	C750Ee
Recommended Hole Diameter	inch	9 to 11	9 to 11	9 to 11
	mm	229 to 279	229 to 279	229 to 279
Drill rod / tube diameter	inch	7 to 8.625	7 to 8.625	7 to 8.625
	mm	178 to 219	178 to 219	178 to 219
Single pass (Standard)	feet (m)	37 (11.2)	37 (11.2)	23 (7)
Single pass (Optional)	feet (m)	59 (18)*	59 (18)*	33 (10)*
Multi pass capacity	feet (m)	197 (60) / 119 (36.2)*	197 (60) / 119 (36.2)*	123 (37.5) / 138 (42)*
Drill pipe length	feet (m)	40 (12.2) / 60 (18.3)	40 (12.2) / 60 (18.3)	25 (7.6) / 35 (10.7)
Storage capacity		4 Pod	4 Pod	4 Pod
Rotation Torque	in.lbs	108000	108000	100000
	Nm	12200	12200	11300
Rotation Speed	rpm	0 to 150	0 to 150	0 to 100
Feed force	lbf	70000	70000	70000
	kN	311	311	311
Hoist force	lbf	33000	33000	33000
	kN	147	147	147
Normal Feed rate	ft/min	12	12	12
	m/min	3.6	3.6	3.6
Normal Hoist Rate	ft/min	25	25	25
	m/min	7.6	7.6	7.6
Fast Feed rate	ft/min	75	75	75
	m/min	22.8	22.8	22.8
Fast Hoist Rate	ft/min	150	150	150
	m/min	45.7	45.7	45.7
Engine type	Model	CAT C27 / Cummins KTA38C	Siemens / Crompton Greaves	Crompton Greaves
Engine output power	HP	800 HP @ 2400 rpm	750 HP @ 1480 rpm	550 HP @ 1480 rpm
	KW	597 kW @ 2400 rpm	560 kW @ 1480 rpm	410 kW @ 1480 rpm
Compressor capacity	cfm x psi	1900 x 100	1800 x 100	1460 x 100
	m³/min x bar	53.8 x 6.9	51 x 6.9	41.3 x 6.9
Operator cabin	FOPS Certified,AC & Heater			
Tramming speed	mph	0.7 / 1.5	0.7 / 1.5	0.7 / 1.5
	kmph	1.2 / 2.4	1.2 / 2.4	1.2 / 2.4

PARAMETERS		C750D/E	C750Ee
Standard Mast		40' (12.2m)	25' (7.6m)
A	Height - Mast Up	738" (18.7m)	516" (13.1m)
B	Height - Mast Down	324" (8.2m)	247" (6.27m)
C	Length - Mast Down	690" (17.5m)	523" (13.3m)
D	Length - Mast Up	567" (14.4m)	528" (13.4m)
Maxx Drill Mast		60' (18.3m)	35' (10.6m)
A	Height - Mast Up	915" (23.2m)	636" (16.1m)
B	Height - Mast Down	324" (8.2m)	247" (6.27m)
C	Length - Mast Down	852" (21.6m)	648" (16.4m)
D	Length - Mast Up	630" (16.0m)	528" (13.4m)
Width			
E	Width - Drilling End	246" (6.2m)	223" (5.6m)
F	Width - Non Drilling End	199" (5.1m) / 260" (6.6m)*	223" (5.6m)
Weight		218200 - 242400 lbs (99 - 110Tonnes)	154300 - 165300 lbs (70 - 75Tonnes)

* Electric Version

ADDITIONAL FEATURES: (*for Electric drills)

- ❑ Cold-weather kit for operating in extremely cold ambient (-40° C).
- ❑ Hydraulically operated auto Power breakout system.
- ❑ Auto fire detection and suppression system.
- ❑ Hydraulically retractable dust curtains.
- ❑ Auto thread lubrication system.
- ❑ Centralised lubrication system.
- ❑ Wiggins fast fuelling system.
- ❑ 360° Walk around the drill.
- ❑ Hydraulic retractable stair.
- ❑ Water injection system.
- ❑ Angle drilling package.
- ❑ Dust collector system.
- ❑ Fast service options.
- ❑ Vertical fall arrester.
- ❑ Rear view camera.
- ❑ Cable reel drum.*
- ❑ Trailing cable.*
- ❑ Field switch.*



Always Dependable.

REL drill rigs have earned a reputation for dependability and productivity, Operator safety and Ergonomics. We believe in working closely with our clients to achieve optimum safe and cost-effective performance in drilling. Whatever your requirement may be standard or custom, simple and rugged, or advanced and automated you can depend on REL.



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