

Drill'n CPT

Combine Sonic drilling with Cone Penetration Testing



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Drill'n CPT is a 10 or 20 ton fully automatic CPT tool placed in the break out clamps of a drill rig. Our Drill'n CPT tool allows you to convert every (sonic) drill rig into a CPT unit. It can deliver a continuous CPT measurement or measure in between sampling. It is also the perfect combination to advance casing through refusal layers and apply CPT testing to greater depths.

SPECIFICATIONS*	Drill'n CPT 10 Ton		Drill'n CPT 20 Ton	
CPT force max.	100 kN	22,480 lbf	200 kN	44,960 lbf
Oil pressure	75 bar	1,087 psi	150 bar	2,175 psi
Max. system pressure	210 bar	3,045 psi	210 bar	3,045 psi
Required oil flow	20 l/min	4.4 gpm	20 l/min	4.4 gpm
Max. oil flow	60 l/min	13.2 gpm	60 l/min	13.2 gpm
CPT speed	20...25 mm/s	0.065...0.1082 ft/s	20...25 mm/s	0.065...0.1082 ft/s
CPT stroke	800 mm	31.5 "	800 mm	31.5 "
Pull back force max.	120 kN	29,977 lbf	240 kN	53,954 lbf
Max. return speed in automatic mode	60 mm/s	0.196 ft/s	60 mm/s	0.196 ft/s
Depth registration encoder	up to 20 puls/mm	up to 500 puls/1"	up to 20 puls/mm	up to 500 puls/1"
CPT rod diameter	36...44 mm	1.417 - 1.732"	36...44 mm	1.417 - 1.732"
Hydraulic rod clamping cilinder	Standard	Standard	Standard	Standard
SonicCPT hydraulic clamping	Option	Option	Option	Option
Height	1.750 mm	68.9"	1,750 mm	68.9"
Width	700 mm	27.6"	700 mm	27.6"
Depth	600 mm	23.6"	600 mm	23.6"
Clamping diameter	190 mm	7.5"	190 mm	7.5"
Electrical power	24V-5A / 12V-10A	24V-5A / 12V-10A	24V-5A / 12V-10A	24V-5A / 12V-10A

* specifications are subject to changes

General

Automatic:

- Modus 1 CPT measurement
- Modus 2 Fast feed trip in
- Modus 3 Fast feed trip out

Available products for Cone Penetration Testing and SonicCPT

- SonicCPT electrical cone, measuring:
 - Tip resistance (qc)
 - Sleeve friction (fs)
 - Deviation in two directions
- CPT Logging equipment, data logger, depth encoder
- Cables
- Electrical cones available for static CPT:
 - CPT cone
 - CPTu Pore pressure cone (u1-u3)
 - Electric Conductivity cone
 - Video cone
 - Magnetic field detection cone
- Ground anchors for light drill rigs
- Software
- Training



Drill'n CPT on MRS-XL MAX

