

**Doing
more
with less.**



Casing Running Tools (CRTi™ / CRTe™)



The tool of choice for operators with challenging casing runs.

Bottom Line Performance.

Getting safely to the bottom is the bottom line. If you can avoid stuck pipe, you can avoid extra costs and risks. Volant's Casing Running Tools (internal grip CRTi, and external grip CRTe) enable makeup, break out, reciprocate, rotate, fill/circulate, and cement casing and liner strings, reducing non productive time and associated costs. It's proven where the figures add up – in the real world of field operations.



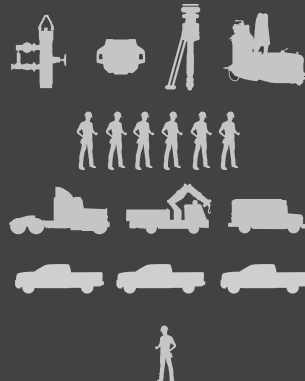
Volant's Approach

1 Tool
1 Man
1 Truck
1 Driller



Conventional Approach

Multiple
Men
Trucks
Equipment



Problem. Solution.

Problem

Where: The Rig

What: Manpower requirements have historically driven costs up. The traditional approach to making up pipe, computer monitoring, filling/circulating and cementing results in multiple workers and multiple pieces of equipment, operated by several different service providers whose presence can increase the risk of rig floor accidents.



Solution

Most of these functions can be combined into a single service and a single piece of equipment that utilizes manpower already at the rig. The Volant CRT is the only casing running tool that is operated by the driller, bringing efficiency and enhanced safety to the process.

Problem

Where: Wellbore

What: Frictional resistance within the wellbore prevents further advance of the pipe.



Solution

Rotation can be used to reorient the friction vector (a force with magnitude and direction) to oppose the direction of rotation. This reduces the component of friction opposing advance into the wellbore and that's why you can get a pipe pushed out further if you rotate it. Any CRT can provide this, but only the Volant CRT is also designed with a substantial push capacity.

Problem

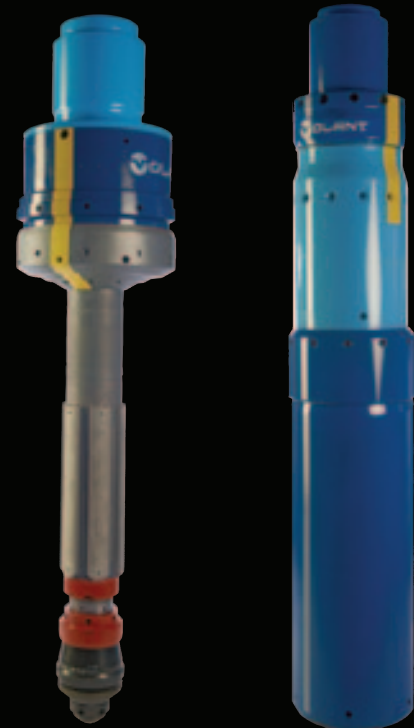
Where: Casing Surface

What: CRT dies can mark the casing surface. This can range from mild indentations to severe gouges resulting from slippage. Other CRTs depend on hydraulic set to engage the dies sufficiently to transfer torsion loads. If torsion exceeds this predetermined capacity, slippage and surface damage occur.

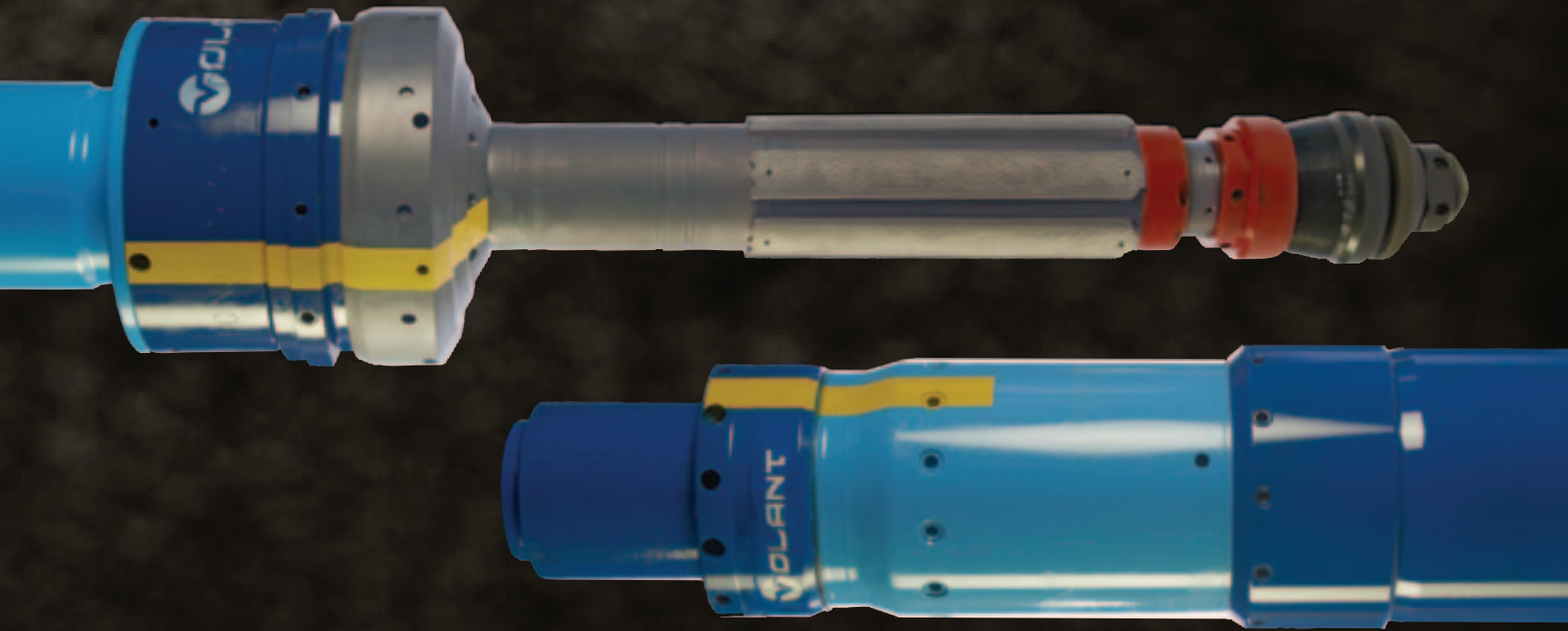


Solution

Volant CRTs self-energize in torsion as well as in hoisting and therefore grip only as hard as they need to. And they don't slip.



Internal Grip CRTi™ / External Grip CRTe™



Product Range

Tool Model	Rated Load Capacity		Casing Sizes
	Max Hoist	Max Torque	
CRTi 2-4.50	120 ton	13,000 ft.lbs	4.50" to 5.50"
CRTi 2-5.50	200 ton	25,000 ft.lbs	5.50" to 7.63"
CRTi 3-7.00	320 ton	50,000 ft.lbs	7.00" to 20.00"
CRTi 4-7.00	420 ton	50,000 ft.lbs	7.00" to 20.00"
CRTi 2-8.63	660 ton	85,000 ft.lbs	8.63" to 26.00"
CRTe 1.0	500 ton	40,000 ft.lbs	4.50" to 5.50"

Please contact Volant for full details.



Give us a problem.

Or just drop us a line if you want to learn more.

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Printed in Canada