Doing more with less.

VOLANT

The tool of choice for operators with challenging casing runs.

CRTi® & CRTe® Casing Running Tools

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 CRTi® and CRTe® casing running tools are designed for casing drilling or running with top drive equipped rigs to makeup, breakout, 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 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 CRTi and CRTe tools are the only casing running tools that are 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. Volant casing running tools have been designed to offer industry leading torque and push-down capacities, allowing you to rotate and reciprocate casing and liner strings. Rotation and reciprocation of the string helps to reduce downhole friction that may otherwise resist advancement of the pipe, ultimately improving run-ability and reducing pipe installation times.

Problem

Where: Casing Surface

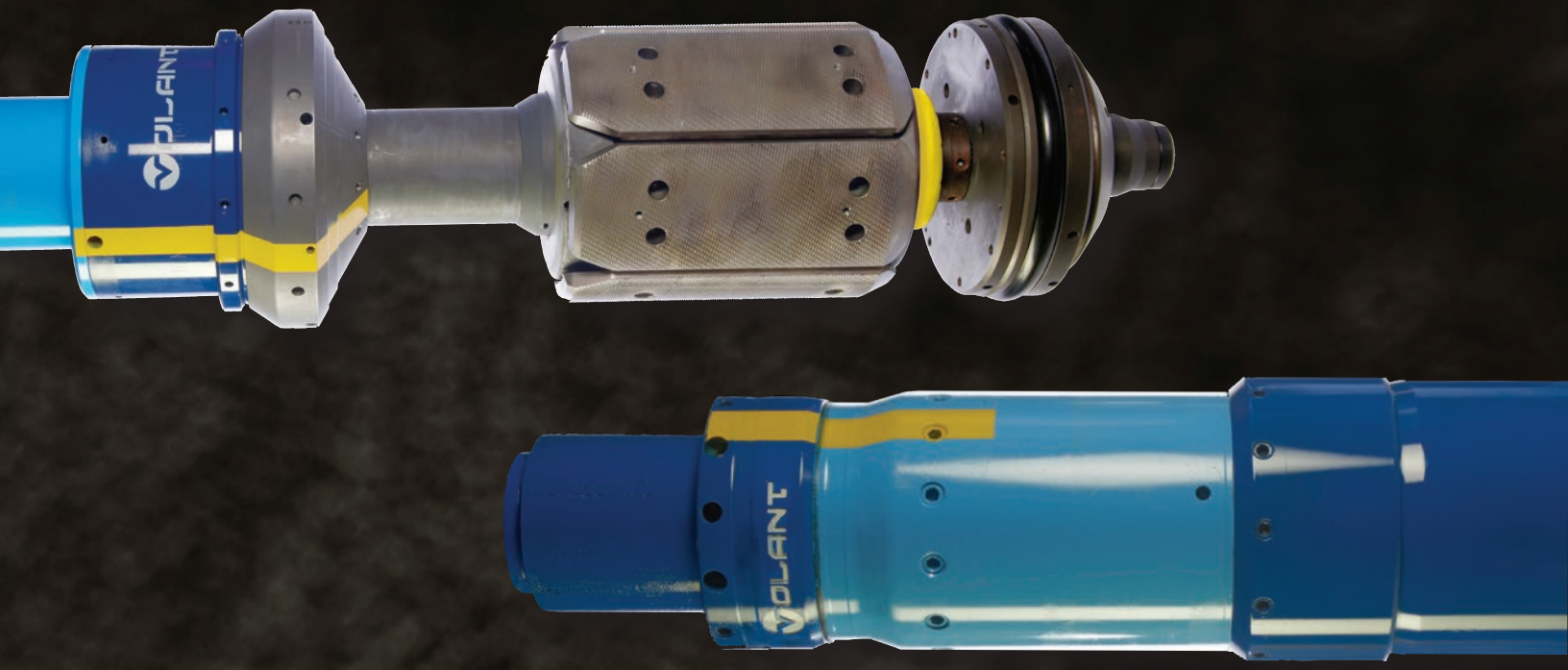
What: Casing running tool dies can mark the casing surface. This can range from mild indentations to severe gouges resulting from slippage. Other casing running tools depend on hydraulic set to engage the dies sufficiently to transfer torsion loads. If torsion exceeds this predetermined capacity, slippage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

Solution

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

CRTi® Internal Grip Casing Running Tool

CRTe® External Grip Casing Running Tool



Product Range

Tool Model	Rated Load Capacity		Casing Sizes
	Max. Hoist	Max. Torque	
CRTi2-4.5	120 ton (108 tonne)	13,000 ft.lbs (17,600 N.m)	4.5 in (114.3 mm) to 5.5 in (139.7 mm)
CRTi2-5.5	200 ton (181 tonne)	25,000 ft.lbs (33,800 N.m)	5.5 in (139.7 mm) to 13.38 in (339.7 mm)
CRTi3-7.0	320 ton (290 tonne)	50,000 ft.lbs (67,700 N.m)	7.0 in (177.8 mm) to 20.0 in (508.0 mm)
CRTi4-7.0	420 ton (381 tonne)	50,000 ft.lbs (67,700 N.m)	7.0 in (177.8 mm) to 20.0 in (508.0 mm)
CRTi2-8.63	690 ton (625 tonne)	85,000 ft.lbs (115,200 N.m)	8.63 in (219.2 mm) to 30.0 in (762.0 mm)
CRTi1-10.75	1,250 ton (1,133 tonne)	125,000 ft.lbs (169,400 N.m)	10.75 in (273.0 mm) to 38.0 in (965.2 mm)
CRTe-1.0	500 ton (453 tonne)	40,000 ft.lbs (54,200 N.m)	4.5 in (114.3 mm) to 7.63 in (193.8 mm)

Please contact Volant for full details.

VOLANT®

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

+1 866.8VOLANT / +1 866.886.5268
+1 780.784.7099
sales@volantproducts.ca
volantproducts.ca

Volant Oil Tools (US) Inc.
sales@volantoiltoolsUS.com

DNV·GL TYPE APPROVED PRODUCT

CE

DNV & CE certification available upon request.