

UPGRADE YOUR RUN

New Cam + Mandrel Enhancements

Volant is committed to delivering the best quality products that continuously improve your operational safety and performance. By implementing a broad suite of design changes to our internal grip casing running tools you can enhance your investment and elevate returns.

The redesigned cams reduce the rotations to engage and disengage the CRTi and reduce torque required to disengage the casing running tool relative to the torque applied during tool make-up. With less sensitivity to common variables that can result in high torque release incidents in day-to-day operations, the new cams provide safer, more predictable and more efficient tool operation. The new mandrels are designed with a high-strength material allowing for higher hoist capacities while still retaining the same functionality as the previous style.



**Renew your current
fleet tools today**

Performance Improvements:



- Reduces CRTi makeup rotations
- Decreases engagement and release time
- Reduces breakout torque
- Improves running speeds
- Enhances casing running operations

Safety Enhancements:



- Reduces high-torque release incidents
- Significantly reduces unintentional tool joint back-off
- Mitigates operational interruption
- Increases operator confidence

Tool Maintenance Benefits:



- Simplified design
- Fewer parts
- Easier maintenance and assembly

FAQs

Which tool models are compatible with these upgrades?

TOOL MODEL	NEW CAM	NEW MANDREL
CRTi2-4.5	✗	✗
CRTi2-5.5	✓	✓
CRTi3-7.0	✓	✓
CRTi4-7.0	✓	✗
CRTi2-8.63	✓	✓

How long does it take to replace the new cams and mandrel?

Each upgrade can be done while performing a Category 2C Maintenance on the tool.

Where do the upgrades take place?

Upgrades can be implemented by customers while performing Category 2C Maintenance, at the Volant facility in Edmonton, Alberta or Katy, Texas or at an authorized representatives facility.

Do these upgrades affect past certificates?

These upgrades do not affect user certificates.

Will additional training be required?

Additional training is not required, however, it is encouraged and accompanying technical documentation will be provided.

What is the torque-release ratio for the new cam assembly?

Compared to standard cams, the new cams reduce the torque-release ratio by almost half.

Is it required to upgrade the entire cam assembly at once?

Upgrading to the low release cam requires replacement of the full cam set and associated smaller components that are integral to its function.

Can I still purchase the previous style cams and mandrels?

Previous style cams and mandrels will be available upon request as we transition the new styles to our standard offering.