

Ball-Nosed Cement Dart

Application:	Velocity String Well-Intervention Cementing Operation
Client location:	Germany
Part Number:	2301##
Description:	Ball CT Dart - Ball OD [37.2]mm 4-Chevron OD [51.3]mm L 129.5mm Solid Core 80A BLACK



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Benoil's client requested a solid-core dart that would pass through a coiled tubing velocity string with a combination of loose and tight restrictions then seal against a non-chamfered ring in a landing nipple.

What We Did:

After a consultation process, we proposed a ball-nosed solid core dart with polyurethane fins, which would provide a metal-metal seal without strict alignment. Benoil completed detailed designs for the stainless-steel core and polyurethane chevrons, and manufactured units for supply within the client's time frame.

Yard testing was carried out to validate component performance and iterate design changes. Our polyurethane formulation balanced durability and flexibility, so the cement dart provided an effective seal despite having to pass tight restrictions. The ball cement dart passed 2400m of 2" coiled tubing velocity string without its fins being significantly abraded by the weld bead.