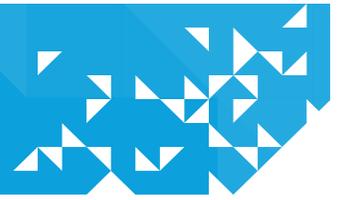


Centramax[®] CT

(close tolerance)

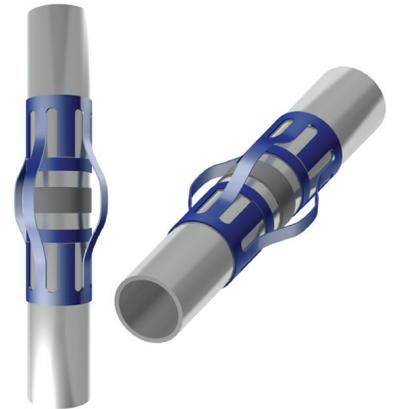


CentraMax[®] CT is Antelope's line of close tolerance, single-piece centralizers for centralizing the liner in the wellbore. The CT product line includes the RT1, PT1 and PI1 models that offer different anchor geometries, allowing you to choose the design that provides optimum centralization in any given well. All three product variations are cold-formed and then heat-treated for ultimate durability and performance, and can easily be installed by our trained personnel.

CENTRAMAX[®] RT1, ROTATING TECHNOLOGY

This close tolerance centralizer is pulled in both directions using an Antelope anchoring device inside the centralizer between inner rings, and allows the centralizer to freely rotate. The unique design prevents the anchoring device from getting underneath the bows and the end collars, allowing the bows to compress, while adding safety and performance to the tool.

Design allows for both reciprocation and rotation type applications. The RT1 centralizer is always pulled when installed over an internal anchoring device. For use when annular clearance between casing O.D. and restriction I.D. are sufficient (approx. 1/2" minimum of radial annular clearance is required). Centralizer – US Patent No. D743.447.



CENTRAMAX[®] PI1, PUSH-IN TECHNOLOGY

This close tolerance centralizer used as an alternative to centralizer subs, allows for both reciprocation and rotation type applications. It is always pushed when installed between two external Antelope anchoring devices. Specially designed bows allow the centralizer to be pushed into a restriction I.D. without increasing starting and running forces, while still providing an optimum restoring force inside the open hole or under-reamed section of the well.

Design allows for rotating and reciprocating type applications. The PI1 centralizer is installed between two anchoring devices. For use when annular clearance between casing O.D. and restriction I.D. are sufficient (approx. 3/8" minimum of radial annular clearance is required). Centralizer – US Patent No. D717,837



CENTRAMAX[®] PT1, PULL-THROUGH TECHNOLOGY

Unique to the market, this centralizer option for ultra-close tolerance applications allows the centralizer to be pulled and/ or reciprocated both in and out of the restriction with specially designed windows in the centralizer's end collars. The PT1 centralizer can be anchored using Antelope's WearSox[®] or MCC technologies.

Design allows for reciprocating type applications. The PT1 centralizer is always pulled when anchoring devices are installed in the windows of the centralizer's end collars. For use when annular clearance between casing O.D. and restriction I.D. are sufficient (approx. 3/8" minimum of radial annular clearance is required). Centralizer – US Patent No. D718,342.

