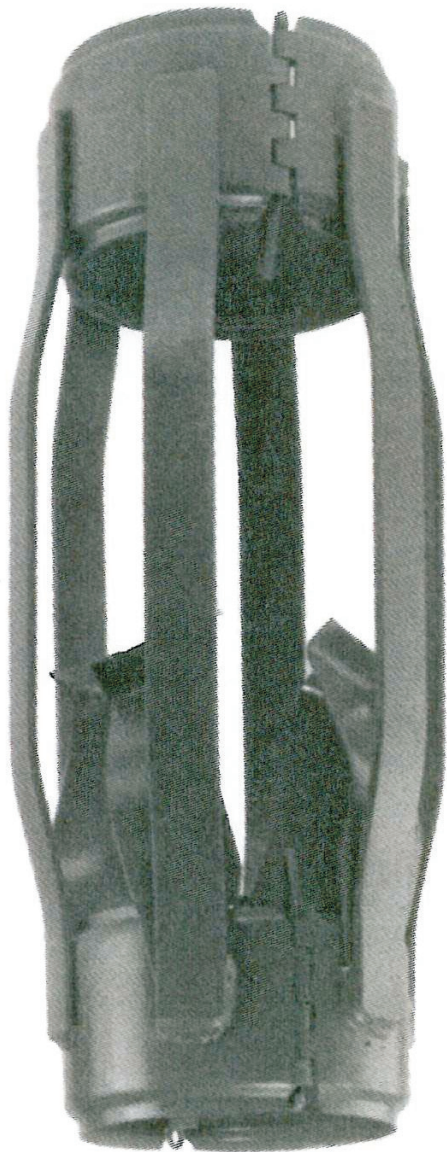


Turbolizer

(Hinge Type)



The Turbolizer is a centralizer that has all the characteristics of the Regular Hinge-Type. The main difference is that the Turbolizer has deflector blades. The Turbolizer design allows for the deflection of the fluid in the hole causing an outward turbulent motion. This motion causes the deflection of mud and cement toward open sections of the well bore. Also it helps prevent channeling of cement.