

# THE WIRLTOOL® - BOP CLEANING TOOL

The Innovar WirlTool® is the most effective BOP cleaning tool on the market

## APPLICATIONS

- BOP and Riser cleaning
- Smaller sizes can also be used for cleaning in the PBR area

## FEATURES & BENEFITS:

- Creates a powerful circular flow pattern that establishes a vortex that draws/pulls debris from the BOP cavities and crevices
- Minimizes the risk of water cutting the BOP sealing elements as opposed to traditional jetting tools
- Reduces risk of failing BOP pressure tests caused by metal shavings
- Prevents expensive and time-consuming maintenance of the BOP on surface
- Reduces spill of mud on deck when riser is laid down

The Innovar WirlTool® creates a powerful circular flow pattern that establishes a vortex that draws/pulls debris out from the Blow Out Preventer (BOP) cavities and crevices. It is designed to remove metallic/non-metallic debris that could adversely affect a BOP's performance.

The centrifugal force created by the circular flow exerts an increased pressure against the pipe wall and thereby a more efficient washing effect.

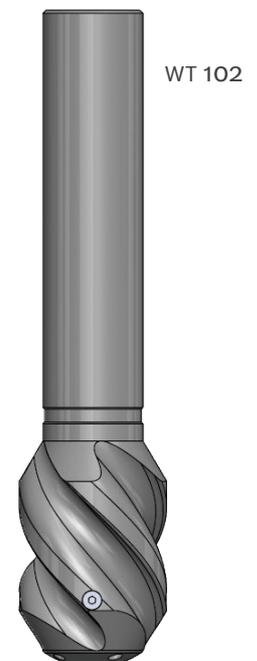
The washing effect works above and below the outlet point, no need for accurate placement for optimal effect.

The Innovar WirlTool® also minimize the risk of water cutting the BOP sealing elements as opposed to traditional jetting. Available in sizes to clean out 6 5/8" - 18 3/4" BOPs.

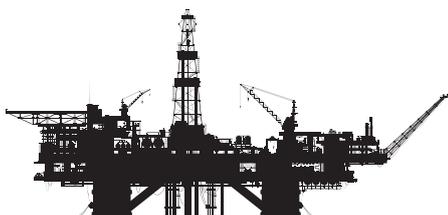
Combined with Innovar's powerful Innomag® and Magnum Fishing Magnet® you are ensured the most efficient bottom-hole assembly for BOP cleaning on the market.



WT 100



WT 102



## WIRLTOOL® FOR CASING AND BOP CLEANING

Dimensional data					
Model	WT 101	*WT 102	WT105	WT100	**WT 103
Max OD, inch	6,625	6,625	7,88	13,375	13,375
Min ID, inch	2,25	2,25	3,00	3,00	N/A
Fish neck OD, inch	4,50	4,50	6,38	6,38	6,38
Length, mm	1245	758	1830	1300	1300
Circulation portsize diameter, mm	12	14,5	17,5	20	20
Number of jets	8	4	16	8	8
Activation ball OD, inches	N/A	N/A	N/A	N/A	1 ½
Material properties					
Body material	AISI 4140	AISI 4140	AISI 4145	AISI 4140	AISI 4140
Tensile Yield strength, lbs	649 000	649 000	1 416 000	1 298 000	1 298 000
Torsional Yield strength, ft-lbs	11 000	11 000	50 500	46 000	46 000
Operational data					
Total jet flow area, sq.in	1,4	1,0	5,96	3,9	3,9
Connection	NC 38	NC 38	NC50	NC 50	NC 50
Max pump rate, lpm	2500	2500	5500	5500	5500
Transport Data					
Tool weight, kg	79	48	233	280	280

\*WT 102: For cleaning 9 5/8" casing or small bore BOP with no string below, with NC 38 box connection

\*\*WT 103: 13 3/8" WirlTool®, Circulating Tool w/closing sleeve. Circulate straight through, drop ball and divert flow (or part of flow) to the circulation ports for the clean up job.

