

# HOLE OPENER

## Fully field maintainable and intrinsically safe design

Drillstar hole openers have been used worldwide by major drilling contractors for over 30 years. Their proven robustness ensures safe operations while minimizing maintenance and rig costs. Bodies are designed to last a lifetime, and used cutters are easily replaced.

### Safe Design

Drillstar Hole openers have been designed by putting safety and reliability first. Oversized arms can withstand heavy WOB, and are mechanically assembled on the body so that welds are not subjected to any direct load during drilling.

### Easy maintenance

All sizes are field maintainable, with easy replacement of cutters using only basic tools.

### Cutters range

Cutters are made of heat-treated steel, hardfaced with tungsten carbide. Cutter sizes have been widely standardized to minimize customer inventory: for example, 23"-24"-26" and 36" hole openers use the same cutters. They come in 4 types, adapted to a wide range of formation hardness:



**TYPE S**  
for soft formations: milled tooth cutter with wide openings for improved cleaning



**TYPE M**  
for medium formations: our standard, widely used milled tooth cutter.



**TYPE H**  
for hard formations: milled tooth cutter with increased teeth density.



**TYPE SH**  
for very hard formations: tungsten carbide inserts. Inserts shape can be customized as per the customer need: chisel, ballistic, round top, etc



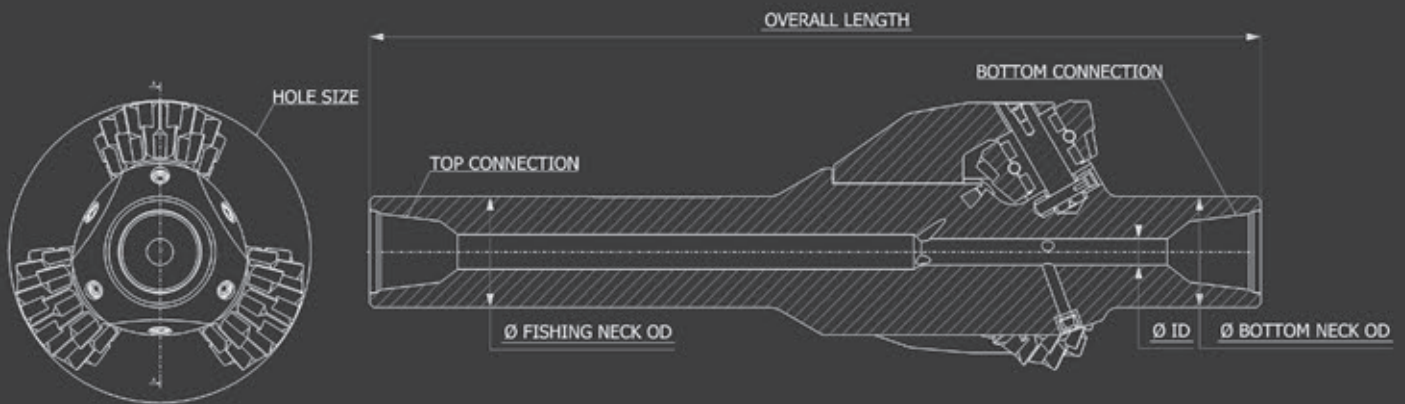
26" hole opener



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## Standard dimensions

P/N	Hole Size	Pilot Hole	Nr. Cutters	Upper Connection		Lower Connection	
				OD	API Reg. Thread	OD	API Reg. Thread
4505000850	8 1/2"	5 3/4"	2 - 3	6 1/2"	4 1/2"	5"	3 1/2"
4505000950	9 1/2"	6 3/4"	2 - 3	8"	6 5/8"	4 3/4"	3 1/2"
4505001225	12 1/4"	8 1/2"	2 - 3	8"	6 5/8"	5 3/4"	4 1/2"
4505001475	14 3/4"	9 5/8"	3	8"	6 5/8"	8"	6 5/8"
4505001750	17 1/2"	12 1/4"	3	9 1/2"	7 5/8"	8 1/2"	6 5/8"
4505002300	23"	17 1/2"	3	9 1/2 - 10"	7 5/8"	9 1/2"	7 5/8"
4505002600	26"	17 1/2"	3	9 1/2 - 10"	7 5/8"	9 1/2"	7 5/8"
4505003600	36"	26"	3 - 4	10 - 11"	8 5/8"	10"	7 5/8"
4505004200	42"	26"	4	11"	8 5/8"	10 1/2"	7 5/8"



*Downhole Innovations, Made in France*