

# TAPER MILL

DRILLSTAR taper mill is used to repair collapsed casing or tubing sections, and to shave off cement or corroded parts in a casing.

The taper mill hardfacing is designed to clean the casing without cutting it, and to penetrate very gradually. The upper part of the taper mill is long enough to allow the addition of stabilizing blades while still remaining "fishable".

DRILLSTAR Taper mill is available in two types, long or short. Blades, whether spiralled or straight, are fully customizable.

They can be hardaced with your choice of TOPLOY or TOPMILL / SWORDFISH inserts.



Long taper mill with straight blades and TOPMILL inserts

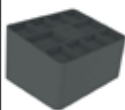


**TOPLOY**  
*Copper alloy hardness : 120 to 130 Hv*  
*Calibrated tungsten carbide grains.*  
*Hardness: 1400 to 1700 Hv*

- Stabilizers (TOPLOY W) : satisfactory behaviour in soft formations.
- Mills (TOPLOY S) : excellent behaviour thanks to its matrix specially designed to release worn grains.

## Cutting inserts

Drillstar cutting inserts are made of premium cutting grade tungsten carbide, and can replace TOPLOY on most milling tools. They enable you to mill faster and longer, while reducing the necessary weight on bit.



**TOPMILL**  
 these large, square-shaped tungsten carbide inserts are widely used today for all milling applications.



**SWORDFISH®**  
 These innovative inserts combine the advantages of both square and round-shaped models.  
 (exclusivity from Cutting & Wear)



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## Standard dimensions

Dressed OD	Top Pin connection API Reg.	Overall Length		Fishing Neck		Weight (lbs)	
		Long type	Short Type	Length	OD	Long type	Short Type
3 1/4 - 3 7/8"	2 3/8"	34"	30"	10"	3"	80	60
4 - 4 3/8"	2 3/8"	34"	30"	10"	3 1/8"	90	70
4 1/2 - 5 3/8"	2 7/8"	38"	31"	10"	3 3/4"	106	75
5 1/2 - 5 5/8"	3 1/2"	42"	32"	13"	4 1/4"	155	115
5 3/4 - 6 3/8"	3 1/2"	44"	32"	13"	4 3/4"	160	120
6 1/2 - 7 3/8"	3 1/2"	46"	34"	13"	4 3/4"	170	130
7 1/2 - 7 7/8"	4 1/2"	54"	36"	13"	5 3/4"	250	185
8 3/8 - 9 1/2"	4 1/2"	54"	36"	14"	5 3/4"	280	220
9 3/8 - 9 7/8"	4 1/2", 6 5/8"	54"	36"	14"	5 3/4", 7 3/4"	345	280
10 3/8 - 11"	6 5/8"	57"	38"	14"	7 3/4"	415	355
11 1/2 - 12 1/4"	6 5/8"	60"	40"	14"	7 3/4"	455	390
14 3/4 - 15"	6 5/8"	70"	60"	18"	7 3/4"	525	460
17 - 17 1/2"	6 5/8"	70"	60"	18"	7 3/4"	595	530
20 - 26"	6 5/8", 7 5/8"	76"	66"	18"	7 3/4", 9 1/2"	1250	1125



*Downhole Innovations, Made in France*