

MILLING TOLLS

I- FLAT JUNK MILL

item	Description	Qty
1	Flat junk mill with 3 blade stabilizer for use in 5"OD cased hole 3 1/2"OD body ×4" OD mill w/2 3/8"REG up pin fishing neck 16" length	5
2	Flat junk mill with 3 blade stabilizer for use in 7"OD cased hole 4 3/4"OD body ×5 1/2" OD mill w/3 1/2"REG up pin fishing neck 16" length	10
3	Flat junk mill with 3 blade stabilizer for use in 7"OD cased hole 4 3/4"OD body ×5 7/8" OD mill w/3 1/2"REG up pin fishing neck 16" length	10
4	Flat junk mill with 3 blade stabilizer for use in 7"OD cased hole 4 3/4"OD body ×6" OD mill w/3 1/2"REG up pin fishing neck 16" length	15
5	Flat junk mill with 3 blade stabilizer for use in 9 5/8"OD cased hole 6 1/2"OD body ×7 1/2" OD mill w/4 1/2"REG up pin fishing neck 16" length	15
6	Flat junk mill with 3 blade stabilizer for use in 13 3/8"OD cased hole 9"OD body ×11 1/4" OD mill w/6 5/8"REG up pin fishing neck 16" length	15
7	Flat junk mill with 3 blade stabilizer for use in 20"OD cased hole 9"OD body ×17" OD mill w/7 5/8"REG up pin fishing neck 16" length	5
8	Flat junk mill without stabilizer for use in 6"OD open hole 4 3/4"OD body ×5 7/8" OD mill w/3 1/2"REG up pin fishing neck 16" length	15
9	Flat junk mill without stabilizer for use in 8 1/2"OD open hole 6 1/2"OD body ×8 1/8" OD mill w/4 1/2"REG up pin fishing neck 16" length	15
10	Flat junk mill without stabilizer for use in 12 1/4"OD open hole 9 "OD body ×12" OD mill w/6 5/8"REG up pin fishing neck 16" length	15
11	Flat junk mill without stabilizer for use in 17 1/2"OD open hole 9"OD body ×15 1/2" OD mill w/7 5/8"REG up pin fishing neck 16" length	15

II – CONCAVE JUNK MILL

item	Description	Qty
1	Concave junk mill with 3 blade stabilizer for use in 7"OD cased hole 4 3/4"OD body ×5 1/2" OD mill w/3 1/2"REG up pin fishing neck 16" length	5
2	Concave junk mill with 3 blade stabilizer for use in 7"OD cased hole 4 3/4"OD body ×5 7/8" OD mill w/3 1/2"REG up pin fishing neck 16" length	5

3	Concave junk mill with 3 blade stabilizer for use in 7"OD cased hole 4 3/4"OD body ×6" OD mill w/3 1/2"REG up pin fishing neck 16" length	5
4	Concave junk mill with 3 blade stabilizer for use in 9 5/8"OD cased hole 6 1/2"OD body ×7 1/2" OD mill w/4 1/2"REG up pin fishing neck 16" length	5
5	Concave junk mill with 3 blade stabilizer for use in 13 3/8"OD cased hole 9"OD body ×11 1/4" OD mill w/6 5/8"REG up pin fishing neck 16" length	5
6	Concave junk mill with 3 blade stabilizer for use in 20"OD cased hole 9"OD body ×17" OD mill w/7 5/8"REG up pin fishing neck 16" length	5
7	Concave junk mill without stabilizer for use in 6"OD open hole 4 3/4"OD body ×5 7/8" OD mill w/3 1/2"REG up pin fishing neck 16" length	5
8	Concave junk mill without stabilizer for use in 8 1/2"OD open hole 6 1/2" OD body ×8 1/8" OD mill w/4 1/2"REG up pin fishing neck 16" length	5
9	Concave junk mill without stabilizer for use in 12 1/4"OD open hole 9" OD body ×11 7/8" OD mill w/6 5/8"REG up pin fishing neck 16" length	5
10	Concave junk mill without stabilizer for use in 17 1/2"OD open hole 9" OD body ×15 1/2" OD mill w/7 5/8"REG up pin fishing neck 16" length	5

III – CONVEX JUNK MILL

item	Description	Qty
1	Convex junk mill with 3 blade stabilizer for use in 7"OD cased hole 4 3/4"OD body ×5 1/2" OD mill w/3 1/2"REG up pin fishing neck 16" length	5
2	Convex junk mill with 3 blade stabilizer for use in 7"OD cased hole 4 3/4"OD body ×5 7/8" OD mill w/3 1/2"REG up pin fishing neck 16" length	5
3	Convex junk mill with 3 blade stabilizer for use in 7"OD cased hole 4 3/4"OD body ×6" OD mill w/3 1/2"REG up pin fishing neck 16" length	5
4	Convex junk mill with 3 blade stabilizer for use in 9 5/8"OD cased hole 6 1/2"OD body ×7 1/2" OD mill w/4 1/2"REG up pin fishing neck 16" length	5
5	Convex junk mill with 3 blade stabilizer for use in 13 3/8"OD cased hole 9"OD body ×11 1/4" OD mill w/6 5/8"REG up pin fishing neck 16" length	5
6	Convex junk mill with 3 blade stabilizer for use in 20"OD cased hole 9"OD body ×17" OD mill w/7 5/8"REG up pin fishing neck 16" length	5

7	Convex junk mill without stabilizer for use in 6"OD open hole 4 3/4" OD body ×5 7/8" OD mill w/3 1/2"REG up pin fishing neck 16" length	5
8	Convex junk mill without stabilizer for use in 8 1/2"OD open hole 6 1/2" OD body ×8 1/8" OD mill w/4 1/2"REG up pin fishing neck 16" length	5
9	Convex junk mill without stabilizer for use in 12 1/4"OD open hole 9" OD body ×11 7/8" OD mill w/6 5/8"REG up pin fishing neck 16" length	5
10	Convex junk mill without stabilizer for use in 17 1/2"OD open hole 9" OD body ×15 1/2" OD mill w/7 5/8"REG up pin fishing neck 16" length	5

V – TAPER MILL

item	Description	Qty
1	Taper mill for reaming out 7" OD casing 5" mill w/ 3 1/2 REG up pin fishing neck 16 " length	10
2	Taper mill for reaming out 7" OD casing 5 1/2" mill w/ 3 1/2 REG up pin fishing neck 16 " length	10

VI – MATERIALS

item	Description	Qty
1	Tungsten carbide rods	400 kg
2	Brazing flux	50 kg
3	Tinning rods	50 kg

REMARKS:

- All types of junk mill will be dressed with sintered tungsten carbide for all milling jobs (alloy steel , packer , drill pipe , rook bits ,)
- All conn. Shall be protected by copper or phosphate surface coating.
- All connection should be manufactured according API 7-1
- The bidder will have to furnish valid API 7-1 certificate with the offer .
- Marking shall be done according API 7-1 , the type of mills should be die – stamped with the manufacturers name ,the API monogram and the size & style on the mill body.
- The junk mills should be made from chromium molybdenum alloy steel , heat treated and conforming to the requirement of AISI 4130.
- Relevant catalogue and drawing should be enclosed with the offer illustrated the dimensions
- all material shall be new and not renewed
- manufacturer and country of origin shall be mentioned in the offer