

# CROSSOVER, INC.

## Taper Taps

Crossover taper taps are the most economical internal catch pulling tools for freeing stuck fish. Their hardened cutting teeth are machined on a shallow taper to provide an excellent catch for all types of downhole equipment.

Taper Taps are furnished either plain or threaded for skirts. If threaded, a skirt or oversized guide can be run if hole conditions require. Plain or fluted wickers are also available in standard sizes. Sizes range other than standard are available on request.

## Die Collars

Crossover die collars are the most economical external catch tools for freeing stuck fish. The shallow-tapered, hardened teeth provide excellent engagement. Crossover die collars are available with plain or lipped bottom or threaded bottom for attaching a lipped guide.



Die Collar



Die Collar

w/ Lipped Guide

### Taper Taps (Right-hand or left-hand available)

Nominal Size In.	5/8 S.R.	3/4 S.R.	1 13/16 W.F.J.	1 EUE	7/8 S.R.	1 1/4 EUE	2 3/8 EUE	2 3/8 REG.	2 3/8 I.F.	2 7/8 REG.	2 7/8 I.F.	3 1/2 REG.
Outside Dia. In.	1 1/2	1 3/4	1 13/16	1.9	2 5/16	2 3/8	3 1/16	3 1/8	3 3/8	3 3/4	4 1/4	4 1/4
To Catch In.	1/2 ID 1 ID	5/8 ID 1 1/4 ID	3/4 ID 1 3/8 ID	1 PIPE	7/8 ID 1 1/2 ID	1 1/4 PIPE	2 3/8 OD PIPE & CPL	2 3/8 REG.	2 3/8 PIPE I.F. HYD I.F.	2 7/8 REG.	2 7/8 PIPE I.F. HYD. I.F.	3 1/2 REG.
Total Length In.	16	18	18	18	20	20	23	23	23	23	23	29
Dia. Smallest Wicker In.	3/8	1/2	5/8	3/4	3/4	7/8	1 5/8	5/8	1 3/8	7/8	1 1/4	1
Dia. Largest Wicker In.	1 1/4	1 1/2	1 5/8	1 3/4	1 3/4	1 7/8	2 5/8	1 5/8	2 3/8	1 7/8	2 1/4	2 1/2
Complete Assembly No.	TT-1 11	TT-2 12	TT-3 15	TT-4 16	TT-5 19	TT-6 20	TT-7 23	TT-8 24	TT-9 31	TT-10 36	TT-11 41	TT-12 56

Nominal Size In.	3 1/2 F.H.	3 1/2 I.F.	4 1/2 D.S.	4 F.H.	4 1/2 Reg.	4 1/2 F.H.	4 1/2 X.H.	4 1/2 I.F.	5 1/2 Reg.	5 1/2 F.H.	5 1/2 I.F.	6 5/8 Reg.	6 5/8 F.H.
Outside Dia. In.	4 5/8	4 3/4	5	5 1/4	5 1/2	5 3/4	6	6 1/8	6 3/4	7	7 3/8	7 3/4	8
To Catch	3 1/2 PIPE F.H.	3 1/2 I.F. 3 1/2 PIPE	4 1/2 D.S.	4 F.H.	4 1/2 REG.	4 1/2 F.H. 4 1/2 PIPE	4 1/2 X.H.	4 1/2 I.F. 4 1/2 PIPE	5 1/2 or 5 9/16 REG.	5 1/2 or 5 9/16 F.H. or PIPE	5 1/2 or 5 9/16 I.F. or PIPE	6 5/8 Reg.	6 5/8 I.F. F.H. & PIPE
Total Length In.	29	29	29	32	32	32	32	32	34	34	34	34	34
Dia. Smallest Wicker In.	15/8	2 3/16	2 5/16	2 5/16	1 1/4	2 5/8	2 7/8	3 1/4	2 1/4	3 5/8	4 1/4	3	45/8
Dia. Largest Wicker In.	3 1/8	3 11/16	3 13/16	3 15/16	3 3/8	4 1/4	4 1/4	4 3/4	4	5 3/8	6	4 3/4	6 3/8
Complete Assembly No. Wt. lb	TT-13 70	TT-14 82	TT-15 90	TT-16 96	TT-17 105	TT-18 120	TT-19 126	TT-20 132	TT-21 164	TT-22 186	TT-23 198	TT-24 215	TT-25 242

### ROTARY DIE COLLARS (Right or Left-hand available)

Nominal Size In.	1 1/4 PIPE	2 3/8 PIPE	2 3/8 UP-SET	2 3/8 API Reg.	2 3/8 API I.F.	2 7/8 PIPE	2 7/8 UP-SET	2 7/8 API REG.	2 7/8 API I.F.	3 1/2 PIPE	3 1/2 UP-SET	3 1/2 API Reg.	3/12 API F.H.
To Catch In.	1.660	2 3/8	2 21/32	3 1/8	3 3/8	2 7/8	3 7/32	3 3/4	4 1/8	3 1/2	3 13/16	4 1/4	4 5/8
Total Length In.	12	24	24	24	24	24	24	24	24	32	32	32	32
Outside Diameter In.	2 6/16	3 7/16	3 11/16	4 3/16	4 7/16	4	4 3/8	4 7/2	5 1/4	4 3/4	5 1/16	5 1/2	5 7/8
Dia. of Largest Wicker In.	1 7/8	29/16	2 13/16	3 5/16	3 9/16	3 1/16	3 7/16	3 15/16	4 5/16	3 3/4	4 1/16	4 1/2	4 7/8
Dia. of Smallest Wicker In.	1 3/8	1 1/4	2	2 1/2	2 3/4	2 1/4	2 5/8	3 1/8	3 1/2	2 5/8	2 15/16	3 3/8	3 3/4
With Plain or Lipped Bottom No. Wt. lb	DC-4 20	DC-5 30	DC-6 34	DC-7 43	DC-8 51	DC-9 50	DC-10 59	DC-11 72	DC-12 81	DC-13 95	DC-14 107	DC-15 121	DC-16 132

Nominal Size In.	4 1/2 API F.H.	4 1/2 API I.F.	5 9/16 PIPE	5 9/16 UP-SET	5 9/16 API REG.	5 9/16 API F.H.	5 9/16 API I.F.	6 5/8 PIPE	6 5/8 UP-SET	6 5/8 API REG.	6 5/8 API F.H.	6 5/8 API I.F.	6 5/8 API REG.
To Catch In.	5 3/4	6 1/8	5 9/16	6 1/16	6 3/4	7	7 3/8	6 5/8	7 1/8	7 3/4	8	8 1/2	8 5/8
Total Length In.	36	36	42	42	42	42	42	42	42	42	42	42	42
Outside Diameter In.	7 1/8	7 1/2	7 1/16	7 9/16	8 3/4	8 1/2	8 7/8	8 1/8	8 5/8	9 1/4	9 1/2	10	10 3/4
Dia. of Largest Wicker In.	6	6 3/8	5 13/16	6 5/16	7	7 1/4	7 5/8	6 7/8	7 3/8	8	8 1/4	8 3/4	9 3/4
Dia. of Smallest Wicker In.	4 5/8	5	3 15/16	4 7/16	5 1/8	5 3/8	5 3/4	5	5 1/2	6 1/8	6 3/8	6 7/8	7 7/8
With Plain or Lipped Bottom No. Wt. lb	DC-21 212	DC-22 234	DC-23 237	DC-24 291	DC-25 310	DC-26 321	DC-27 338	DC-28 320	DC-29 340	DC-30 368	DC-31 380	DC-32 405	DC-33 399

To order, specify: (1) Name and number of assembly • (2) Connection size and type if other than standard