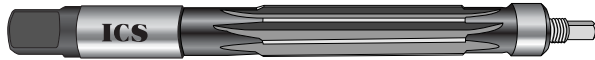


HIGH SPEED STEEL HAND EXPANSION REAMERS

ICS USA

GENERAL PURPOSE

RIGHT HAND CUT



STRAIGHT FLUTE
(General Purpose Reaming)



HELICAL FLUTE, LEFT HAND HELIX
(Reaming keyways & interrupted cut holes)

High Speed Steel Hand Expansion Reamers are designed to enlarge reamed holes by a few thousandths. The pilot and guide on these reamers are ground slightly undersize for clearance and to guide reamer. The flutes also have a ground starting taper to help guide reamer into hole. Reamer can be expanded slightly by turning adjusting screw on end of reamer.

SIZE	DEC. EQUIV.	FLUTE LENGTH	OVERALL LENGTH	HIGH SPEED STEEL	
				STRAIGHT FLUTE HERSF	HELICAL FLUTE HERHF
3/16	.1875	1-1/8	3-3/8	\$ 64.00	\$ 64.00
1/4	.2500	1-7/16	4-1/4	64.00	82.12
5/16	.3125	1-3/4	4-1/2	80.00	84.64
3/8	.3750	1-3/4	5	89.56	95.64
13/32	.4062	1-3/4	5	94.12	98.80
7/16	.4375	1-3/4	5	95.64	100.40
15/32	.4688	1-13/16	5-1/2	97.00	101.88
1/2	.5000	1-13/16	5-1/2	96.04	100.84
17/32	.5312	2-1/8	6	101.84	106.96
9/16	.5629	2-1/8	6	104.88	100.12
19/32	.5938	2-1/2	6	133.80	147.36
5/8	.6250	2-1/2	6-1/2	113.64	118.80
21/32	.6562	2-1/2	7	149.52	169.92
11/16	.6875	2-1/2	6-3/4	129.72	136.20
23/32	.7188	2-11/16	7	164.52	187.92
3/4	.7500	2-11/16	7-1/16	143.52	150.68
25/32	.7812	3-1/16	8	183.60	199.20
13/16	.8125	3-1/16	7-9/16	161.48	169.52
27/32	.8438	3-5/16	8	201.96	213.96

SIZE	DEC. EQUIV.	FLUTE LENGTH	OVERALL LENGTH	HIGH SPEED STEEL	
				STRAIGHT FLUTE HERSF	HELICAL FLUTE HERHF
7/8	.8750	3-5/16	8	\$173.88	\$182.56
29/32	.9062	3-9/16	9	226.80	256.68
15/16	.9375	3-9/16	8-3/8	198.72	208.64
31/32	.9688	3-3/4	9	253.32	267.60
1	1.0000	3-3/4	8-7/8	211.60	222.20
1-1/16	1.0625	4	9-3/16	220.80	231.84
1-1/8	1.1250	4-1/8	9-1/2	239.20	251.16
1-3/16	1.1875	4-1/4	9-7/8	243.80	256.00
1-1/4	1.2500	4-3/8	10-1/4	249.00	262.76
1-5/16	1.3125	4-1/2	10-5/8	262.20	275.32
1-3/8	1.3750	4-9/16	11	285.20	299.48
1-7/16	1.4375	4-3/4	11-3/8	312.80	328.44
1-1/2	1.5000	4-13/16	11-5/8	360.00	376.76
1-9/16	1.5625	4-13/16	11-7/8	378.12	397.04
1-5/8	1.6250	4-7/8	12	388.24	407.64
1-3/4	1.7500	5	12-3/8	447.12	469.48
1-7/8	1.8750	5	12-3/4	487.60	512.00
2	2.0000	5	13-1/16	570.40	598.92

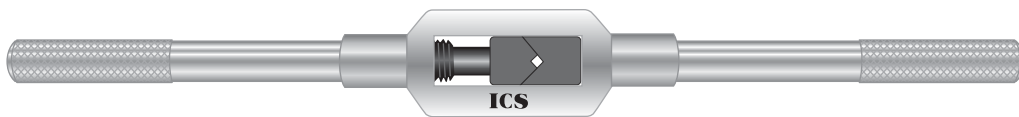
The maximum expansion on these reamers is as follows: .006 inch up to 7/16" sizes, .010 inch up to 15/16" sizes and .012 inch up to 1-1/2" sizes.

ADJUSTABLE TAP AND REAMER WRENCHES

ICS USA

GENERAL PURPOSE

STRAIGHT TYPE



Solid Die Cast Adjustable Tap and Reamer Wrenches are solidly built for a lifetime of industrial service under normal conditions. Size 0 to 7 wrenches have solid handles, one of which is forged integral with the body. The other handles turn for size adjustment. Size 7-1/2 to 8 wrenches have solid handles which are removable. One handle turns for size adjustment.

ITEM NO.	OVERALL LENGTH	CAPACITY						PRICE
		SCREW EXTRACTOR	HAND TAPS	MACHINE TAPS	PIPE TAPS	HAND REAMERS	ADJUSTABLE HAND REAMERS	
TW-0	6-1/2	#1-3	1/16 - 1/4	0 - 14	-	1/8 - 21/64	8A - A	\$8.74
TW-4	9	#4	1/16 - 3/8	0 - 14	-	1/8 - 25/64	8A - C	12.22
TW-5	10	#5	5/32 - 1/2	7 - 14	1/8 - 1/4	11/64 - 7/16	8A - F	14.78
TW-6	13-1/2	#6	5/32 - 3/4	7 - 14	1/8 - 1/4	11/64 - 41/64	8A - G	19.04
TW-7	19	#7	1/4 - 1-1/8	-	1/8 - 3/4	9/32 - 29/32	3A - K	33.50
TW-7.5	31	#8	1/2 - 1-3/8	-	1/8 - 1	3/4 - 1-5/32	B - L	91.84
TW-8	40	#10	3/4 - 1-5/8	-	3/8 - 1-1/4	37/64 - 1-11/32	C - M	140.00
TW-9.5	54	#11-12	1 - 2-1/2	-	3/4 - 2	7/8 - 2-1/8	J - O	169.46