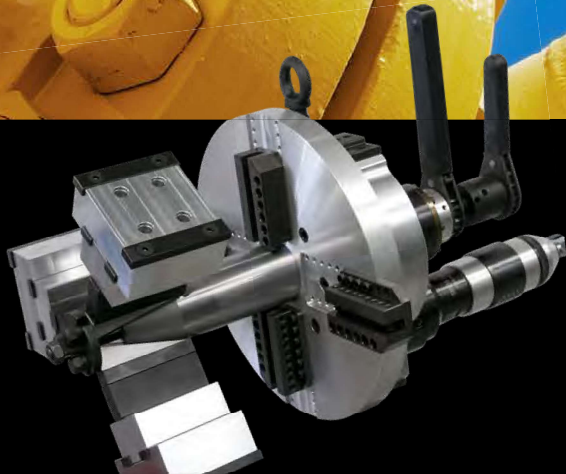
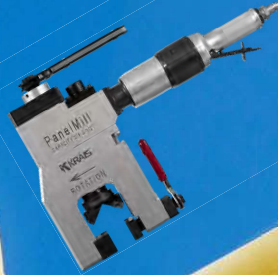
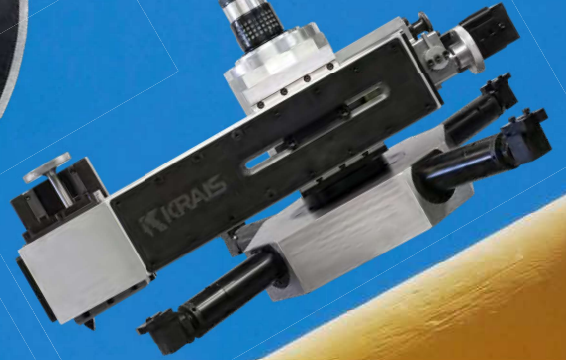
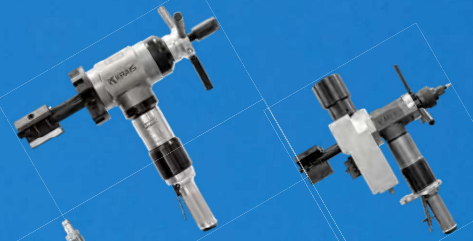




**MADE IN
POLAND**

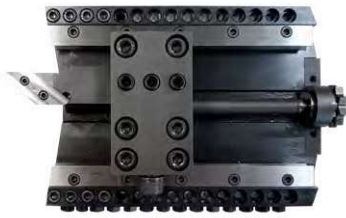


Tube & Pipe Professional Tools



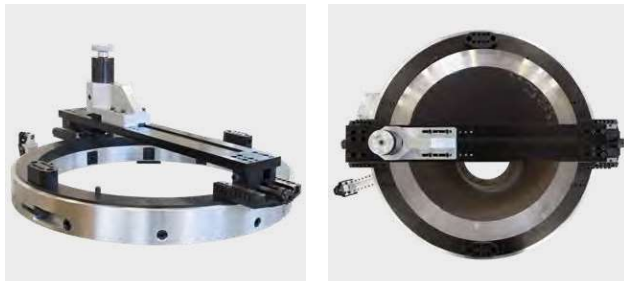
SFSF clamshells add-ons

TOOL SLIDES



KRAIS Tool Slides are rugged and build for strength and durability tool slides. Standard sizes are 1", 3" and 6". Other on request. Out-of-round and axial-feed tool slides are also available. Built with the same quality: for strength and durability as other KRAIS tool slides. KRAIS Slide construction dramatically eases tool slide mounting and locating.

BCS - BRIDGE CROSS SLIDES



Bridge Cross Slides are available for all KRAIS Split Frame SlimFit series machines. Whether flange facing our single point heavy wall machining, the BCS quickly and easily bolts onto the split frame ring.

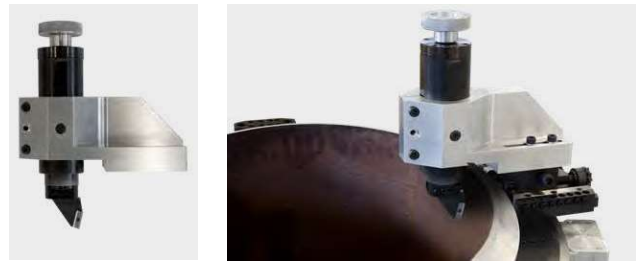
BCS NUMBER	RANGE [MM]		RANGE [INCH]	
	MIN	MAX	MIN	MAX
BCS-0814	203,2	355,6	8,000	14,000
BCS-1416	355,6	406,4	14,000	16,000
BCS-1618	406,4	457,2	16,000	18,000
BCS-1820	457,2	508,0	18,000	20,000
BCS-2024	508,0	609,6	20,000	24,000
BCS-2832	609,6	812,8	24,000	32,000
BCS-3236	812,8	914,4	32,000	36,000
BCS-3642	914,4	1066,8	36,000	42,000
BCS-4248	1066,8	1117,6	42,000	44,000

SUPPORT HINGE



Accessory for convenient folding and unfolding of the device. It also allows the use of cranes and lifts that make work easier.

SFSF-CBA UNIVERSAL COUNTERBORE ATTACHMENT



Designed for the precision counterboring of tube and pipe inside diameters. The Universal counterbore is manufactured with both 6" (SFSF-CBA-150) and 10" (SFSF-CBA-254) long sleeves, and attaches directly to all KRAIS Split Frame SlimFit clamshells. The Universal Counterbore Attachment utilizes a simple and effective hand wheel to precisely control the counterboring process. Both versions (6" and 10") can be mounted directly to the tool slide or Bridge Cross Slide.

SFSF-SCBA SWIVEL HEAD COUNTERBORING ATTACHMENT



Designed for the precision counterboring of tube and pipe inside diameters. The swivel head attachment can also be used for flange facing, OD beveling and flange facing grooving. The Swivel counterbore is manufactured with both 6" (SFSF-SCBA-150) and 10" (SFSF-SCBA-254) long sleeves, and attaches directly to all KRAIS Split Frame SlimFit clamshells. The Universal Counterbore Attachment utilizes a simple and effective hand wheel to precisely control the counterboring process. Both versions (6" and 10") can be mounted directly to the tool slide or Bridge Cross Slide.

OUT OF ROUND TOOL SLIDES

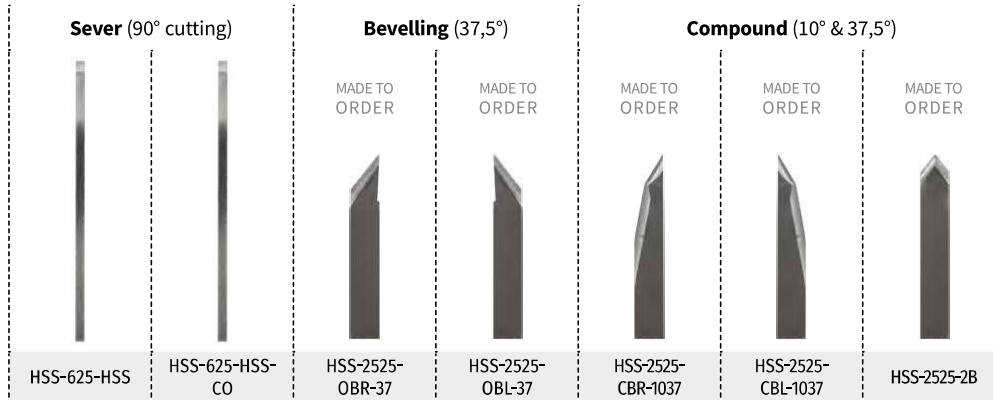


Out of round tool slides - can be solution for all misshapen tubes and pipes. Out of round slides feature durable springs and tracking module that follows the contours of a deformed or less than perfectly round pipe. Built with the same quality: for strength and durability as other KRAIS tool slides.

SFSF clamshells bits and holders

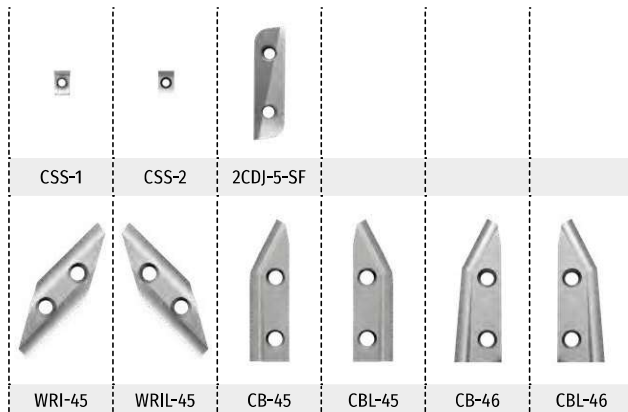
HSS CUTTERS

All cutters are made out of regular High Speed Steel. All of them are also available with increased content of Cobalt. Sever holders are available in two standard lengths: 200 and 160 mm. For other shapes please send your request.



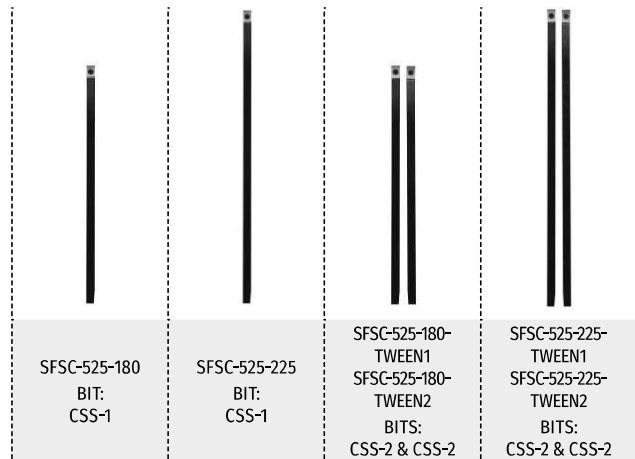
CUTTING BITS FOR USING WITH HOLDERS

Inserts are made out of High Speed Steel with 6% Cobalt and are available with ALNOVE hard coating also. For other tool bits please send your request.



SEVER HOLDERS (90° CUTTING)

Sever holders are made in two lengths: 225 and 180 mm. Twin sets have a special rotated bits for better chip removal. Another lengths are available on special request.



BEVELING HOLDERS

High quality, wide range of holders to work with KRAIS inserts. For other tool bits please send your request.



MiniCut 100 – Heat exchanger

MiniCut 100 is recommended for use in cutting alloy and ferrous tubing up to 1-1/4" O.D. Heavy wall tubing up to 10 BWG can be cut quickly and efficiently. Tool uses one cutting bit to cut any material tubes. The MiniCut 100 tool is equipped with star wheel feed for smooth, positive power transmission to the cutting bit. Tool is available as electric version. MiniCut 100E covers the same tube sizes and comes with the same cutting head.



CUTTING RANGE		POWER		FREE SPEED		TORQUE	
Up to 1-1/4" OD		1,3 Hp		100 Rpm		105 Ft.Lbs	
Up to 31,7 mm						140 Nm	
AIR USE		WIDTH		HEIGHT		WEIGHT	
55 cfm	1,3 m ³ /min	2,32"	59 mm	13,1"	335 mm	9 Lbs	4,5 kg

MiniCut 300 - Condenser and chillers

The MiniCut 300 is recommended for use in cutting tubes within condensers, chillers and similar vessels with non-ferrous tubes. Tool uses one cutting bit, can cut 1" x 16 BWG brass tubes in just a few seconds. This machine is equipped with lever feed handle as standard. Tool is available as electric version. MiniCut 300E covers the same tube sizes and comes with the same cutting head.



CUTTING RANGE		POWER		FREE SPEED		TORQUE	
Up to 1" OD		1,3 Hp		300 Rpm		18 Ft.Lbs	
Up to 25,4 mm						24 Nm	
AIR USE		WIDTH		HEIGHT		WEIGHT	
55 cfm	1,3 m ³ /min	2,32"	59 mm	13,1"	335 mm	9 Lbs	4,5 kg

MINICUT 100 E

Tool is driven by electric motor made by Makita with 3 stage planetary gear box made by KRAIS and has variable speed control. Is interchangeable with pneumatic drive and can be purchased separately at any time.

Free Speed120 RPM
 Power.....750 W
 Torque360 Nm (266 Ft.Lbs)
 Feed Stroke25 mm (1")



MINICUT 300 E

Tool is driven by electric motor made by Makita with 3 stage planetary gear box made by KRAIS and has variable speed control. Is interchangeable with pneumatic drive and can be purchased separately at any time.

Free Speed300 RPM
 Power.....750 W
 Torque122 Nm (92 Ft.Lbs)
 Feed Stroke25 mm (1")



MiniCut 101/AF

MiniCut 101/AF tube cutting machine with Automatic Feed.

Alloy and ferrous tubes up to 1-1/4" with heavy wall up to 10 BWG can be cut quickly, consistently efficiently and effortlessly within 15-40 second depending on diameter and wall thickness. The MiniCut 101/AF tool is equipped with pneumatic/hydraulic automatic feed for positive power transmission to the cutting bit.



CUTTING RANGE		POWER	FREE SPEED	TORQUE	
Up to 1-1/4" OD		1,3 Hp	100 Rpm	105 Ft.Lbs	
Up to 31,7 mm				140 Nm	
AIR USE		DIMENSIONS		WEIGHT	
55 cfm	1,3 m³/min	2,44" x 14,96" x 21,25"		25,35 Lbs	11,5 kg

MINICUT 101/AF-RB OPTION



The most convenient version can be delivered with reaction bar with two locking shafts. The reaction bar is universal and allows to precise tool alignment to the tubes pitch.

Dim: 250 x 330 x 54 mm / 9,84 x 14,96 x 21,25"
Weight: 13,5 kg / 29,76 Lbs



Tube Cutters for MiniCut Machines



Standard length: 3", other available upon order: 6" and 14"

TUBE OD		TUBE GAUGE	TUBE ID	TOOL NO.	CUTTER BIT NO.	BODY DIAMETER	NUMBER OF BLADES
[INCH]	[MM]	[BWG]					
5/8	15,8	12-13	10,3 - 10,05	PTMC-158-3"-12	K-25186	10,00	1
5/8	15,8	14-15	11,66 - 12,22	PTMC-158-3"-14	K-25186	11,30	1
5/8	15,8	16-17	12,57 - 12,93	PTMC-158-3"-16	K-25186	12,20	1
5/8	15,8	18-19	13,40 - 13,74	PTMC-158-3"-18	K-25186	13,10	1
5/8	15,8	20-22	14,10 - 14,45	PTMC-158-3"-20	K-25186	13,80	1
3/4	19,0	14-15	14,80 - 15,40	PTMC-190-3"-14	K-25186	14,50	1
3/4	19,0	16-17	15,75 - 16,10	PTMC-190-3"-16	K-25186	15,40	1
3/4	19,0	18-19	16,56 - 16,90	PTMC-190-3"-18	K-25186	16,15	1
3/4	19,0	20-22	17,27 - 17,63	PTMC-190-3"-20	K-25186	17,00	1
7/8	22,2	10-11	15,42 - 16,13	PTMC-222-3"-10	K-25194	15,00	1
7/8	22,2	12-13	16,69 - 17,40	PTMC-222-3"-12	K-25194	16,20	1
7/8	22,2	14-15	18,01 - 18,57	PTMC-222-3"-14	K-25194	17,60	1
7/8	22,2	16-17	18,92 - 19,28	PTMC-222-3"-16	K-25194	18,50	1
7/8	22,2	18-20	19,74 - 20,42	PTMC-222-3"-18	K-25194	19,40	1
1	25,4	8-9	17,02 - 17,88	PTMC-254-3"-8	K-25199	16,60	1
1	25,4	10-11	18,59 - 19,30	PTMC-254-3"-10	K-25199	18,20	1
1	25,4	12-13	19,86 - 20,57	PTMC-254-3"-12	K-25199	19,40	1

TUBE OD		TUBE GAUGE	TUBE ID	TOOL NO.	CUTTER BIT NO.	BODY DIAMETER	NUMBER OF BLADES
[INCH]	[MM]	[BWG]					
1	25,4	14-15	21,18 - 21,74	PTMC-254-3"-14	K-25199	20,80	1
1	25,4	16-17	22,10 - 22,45	PTMC-254-3"-16	K-25199	21,70	1
1	25,4	18-19	22,91 - 23,27	PTMC-254-3"-18	K-25199	22,50	1
1	25,4	20-22	23,62 - 23,89	PTMC-254-3"-20	K-25199	23,20	1
1-1/8	28,5	13-14	23,75 - 24,36	PTMC-285-3"-13	K-25199	23,40	1
1-1/8	28,5	15-16	24,92 - 25,27	PTMC-285-3"-14	K-25199	24,50	1
1-1/8	28,5	17-18	25,63 - 26,09	PTMC-285-3"-17	K-25199	25,10	1
1-1/4	31,7	12-13	26,21 - 26,92	PTMC-317-3"-12	K-25206	25,80	1
1-1/4	31,7	14-15	27,53 - 28,09	PTMC-317-3"-14	K-25206	27,10	1
1-1/4	31,7	16-17	28,45 - 28,80	PTMC-317-3"-16	K-25206	28,00	1
1-1/4	31,7	18-20	29,26 - 29,92	PTMC-317-3"-20	K-25206	28,80	1
1-1/2	38,1	8-9	29,72 - 30,58	PTMC-381-3"-8	K-25206	29,30	1
1-1/2	38,1	10-11	31,29 - 32,00	PTMC-381-3"-10	K-25206	30,08	1
1-1/2	38,1	12-13	32,56 - 33,27	PTMC-381-3"-12	K-25206	32,10	1
1-1/2	38,1	14-15	33,88 - 34,44	PTMC-381-3"-14	K-25206	33,40	1
1-1/2	38,1	16-17	34,80 - 35,15	PTMC-381-3"-16	K-25206	34,40	1
1-1/2	38,1	18-20	35,51 - 36,32	PTMC-381-3"-18	K-25206	35,10	1

KDM Pneumatic drill

KRAIS KDM is high torque, pneumatic, low-speed drilling machine for any application. Recommended for use with KRAIS PTTC Tube Cutters, PTTT Tube Trimmers, TEF Tube End Facers and JGS Grooving Tools.

MODEL	RPM	TORQUE		POWER	AIR USE		WEIGHT	
		NM	FT/LBS	HP	CFM	L/MIN	KG	LBS
70-KDM	70	188	138	1,3	48	1200	6,5	14,3
130-KDM	130	105	78	1,3	48	1200	6,5	14,3
180-KDM	180	79	58	1,3	48	1200	6,5	14,3
400-KDM	400	36	27	1,3	48	1200	6,5	14,3

KDM Pneumatic Drill can be used as a portable drive for many typical tube works. In connection with proper tools offers a wide range of uses.



PTTC Universal



This tools are used with KDM Pneumatic drill

TUBE OD		TUBE GAUGE	TOOL NO.	CUTTER BIT NO.	NUMBER OF BLADES	DRIVE SHANK
[INCH]	[MM]	[BWG]				
5/8	15,8	16-22	PTTC-U-158	K-25186	1	HEX-1/2"
3/4	19	14-22	PTTC-U-190	K-25186	1	HEX-1/2"
7/8	22,2	11-22	PTTC-U-222	K-25194	1	HEX-1/2"
		11-13	PTTC-U-222	K-25194	1	HEX-1/2"
1	25,4	14-22	PTTC-U-254	K-25199	2	HEX-1/2"
		14-22	PTTC-U-317	K-25206	2	HEX-5/8"
1-1/4	31,7	14-22	PTTC-U-317	K-25206	2	HEX-5/8"
1-1/2	38,1	10-20	PTTC-U-381	K-25206	2	HEX-5/8"
2	50,8	8-20	PTTC-U-508	K-25221	2	SQ-3/4"
2-1/2	63,5	8-12	PTTC-U-635	K-25223	2	SQ-3/4"

PTTT - Tube trimmer



This tools are used with KDM Pneumatic drill

TUBE OD		TUBE GAUGE	TOOL NO.	CUTTER BIT NO.	NUMBER OF BLADES	DRIVE SHANK
[INCH]	[MM]	[BWG]				
5/8	15,8	16-22	PTTT-158	K-25186	1	HEX-1/2"
3/4	19	14-22	PTTT-190	K-25186	1	HEX-1/2"
7/8	22,2	11-22	PTTT-222	K-25194	1	HEX-1/2"
		11-13	PTTT-222	K-25194	1	HEX-1/2"
1	25,4	14-22	PTTT-254	K-25199	2	HEX-1/2"
		14-22	PTTT-317	K-25206	2	HEX-5/8"
1-1/4	31,7	14-22	PTTT-317	K-25206	2	HEX-5/8"
1-1/2	38,1	10-20	PTTT-381	K-25206	2	HEX-5/8"
2	50,8	8-20	PTTT-508	K-25221	2	SQ-3/4"
2-1/2	63,5	8-12	PTTT-635	K-25223	2	SQ-3/4"

Solid body PTTC

The PTTC cutter blade depth can be adjusted to allow the tube to be cut through. Tool uses one or two blades made out of the HSS. The front pilot mounted under the cutter keeps the cutter in the center of the tube and prevent the cutter to be jammed as the chips must go forward into the tube. Also available as tube trimmer and push type tube trimmer.



This tools are used with KDM Pneumatic drill

TUBE OD		TUBE GAUGE	TUBE ID [MM]		TUBE ID [INCH]		CUTTER BODY DIAMETER	TOOL NO.	CUTTER BIT NO.	NUMBER OF BLADES	DRIVE SHANK
[INCH]	[MM]	[BWG]	MIN	MAX	MIN	MAX					
3/8"	9,5	22-24	8,10	8,40	0,319	0,331	7,8	PTTC-95-3"-22	K-25210-78	1	HEX-1/2"
1/2"	12,7	14-15	8,50	9,04	0,335	0,356	8,2	PTTC-127-3"-14	K-25210	1	HEX-1/2"
		16-17	9,40	9,75	0,370	0,384	9,2	PTTC-127-3"-16	K-25210	1	HEX-1/2"
5/8"	15,8	12-13	10,30	10,05	0,406	0,396	10	PTTC-158-3"-12	K-25186-A	1	HEX-1/2"
		14-15	11,66	12,22	0,459	0,481	11,3	PTTC-158-3"-14	K-25186-B	1	HEX-1/2"
		16-17	12,57	12,93	0,495	0,509	12,2	PTTC-158-3"-16	K-25186-B	1	HEX-1/2"
		18-19	13,40	13,74	0,528	0,541	13,1	PTTC-158-3"-18	K-25186	1	HEX-1/2"
		20-22	14,10	14,45	0,555	0,569	13,8	PTTC-158-3"-20	K-25186	1	HEX-1/2"
3/4"	19	14-15	14,80	15,40	0,583	0,606	14,5	PTTC-190-3"-14	K-25186	1	HEX-1/2"
		16-17	15,75	16,10	0,620	0,634	15,4	PTTC-190-3"-16	K-25186	1	HEX-1/2"
		18-19	16,56	16,90	0,652	0,665	16,15	PTTC-190-3"-18	K-25186	1	HEX-1/2"
		20-22	17,27	17,63	0,680	0,694	17	PTTC-190-3"-20	K-25186	1	HEX-1/2"
7/8"	22,2	10-11	15,42	16,13	0,607	0,635	15	PTTC-222-3"-10	K-25194	1	HEX-1/2"
		12-13	16,69	17,40	0,657	0,685	16,2	PTTC-222-3"-12	K-25194	1	HEX-1/2"
		14-15	18,01	18,57	0,709	0,731	17,6	PTTC-222-3"-14	K-25194	1	HEX-1/2"
		16-17	18,92	19,28	0,745	0,759	18,5	PTTC-222-3"-16	K-25194	1	HEX-1/2"
		18-20	19,74	20,42	0,777	0,804	19,4	PTTC-222-3"-18	K-25194	1	HEX-1/2"
1"	25,4	8-9	17,02	17,88	0,670	0,704	16,6	PTTC-254-3"-8	K-25199-A	1	HEX-1/2"
		10-11	18,59	19,30	0,732	0,760	18,2	PTTC-254-3"-10	K-25199-B	1	HEX-1/2"
		12-13	19,86	20,57	0,782	0,810	19,4	PTTC-254-3"-12	K-25199-B	1	HEX-1/2"
		14-15	21,18	21,74	0,834	0,856	20,8	PTTC-254-3"-14	K-25199	1	HEX-1/2"
		16-17	22,10	22,45	0,870	0,884	21,7	PTTC-254-3"-16	K-25199	1	HEX-1/2"
		18-19	22,91	23,27	0,902	0,916	22,5	PTTC-254-3"-18	K-25199	1	HEX-1/2"
1-1/8"	28,5	20-22	23,62	23,89	0,930	0,941	23,2	PTTC-254-3"-20	K-25199	1	HEX-1/2"
		13-14	23,75	24,36	0,935	0,959	23,4	PTTC-285-3"-13	K-25199	1	HEX-5/8"
		15-16	24,92	25,27	0,981	0,995	24,5	PTTC-285-3"-14	K-25199	1	HEX-5/8"
1-1/4"	31,7	17-18	25,63	26,09	1,009	1,027	25,1	PTTC-285-3"-17	K-25199	1	HEX-5/8"
		12-13	26,21	26,92	1,032	1,060	25,8	PTTC-317-3"-12	K-25206	1	HEX-5/8"
		14-15	27,53	28,09	1,084	1,106	27,1	PTTC-317-3"-14	K-25206	1	HEX-5/8"
		16-17	28,45	28,80	1,120	1,134	28	PTTC-317-3"-16	K-25206	1	HEX-5/8"
		18-20	29,26	29,92	1,152	1,178	28,8	PTTC-317-3"-20	K-25206	1	HEX-5/8"
1-1/2"	38,1	8-9	29,72	30,58	1,170	1,204	29,3	PTTC-381-3"-8	K-25206	1	HEX-5/8"
		10-11	31,29	32,00	1,232	1,260	30,08	PTTC-381-3"-10	K-25206	1	HEX-5/8"
		12-13	32,56	33,27	1,282	1,310	32,1	PTTC-381-3"-12	K-25206	1	HEX-5/8"
		14-15	33,88	34,44	1,334	1,356	33,4	PTTC-381-3"-14	K-25206	1	HEX-5/8"
		16-17	34,80	35,15	1,370	1,384	34,4	PTTC-381-3"-16	K-25206	1	HEX-5/8"
		18-20	35,51	36,32	1,398	1,430	35,1	PTTC-381-3"-18	K-25206	1	HEX-5/8"
2"	50,8	8	42,42		1,670		42	PTTC-508-3"-8	K-25221	1	SQ-3/4"
		9	43,28		1,704		42,8	PTTC-508-3"-9	K-25221	1	SQ-3/4"
		10	44,00		1,732		43,6	PTTC-508-3"-10	K-25221	1	SQ-3/4"
		11	44,70		1,760		44,3	PTTC-508-3"-11	K-25221	1	SQ-3/4"
		12	45,26		1,782		44,8	PTTC-508-3"-12	K-25221	1	SQ-3/4"
		13	46,00		1,811		45,6	PTTC-508-3"-13	K-25221	1	SQ-3/4"
		14	46,60		1,835		46,2	PTTC-508-3"-14	K-25221	1	SQ-3/4"
		15	47,14		1,856		46,7	PTTC-508-3"-15	K-25221	1	SQ-3/4"
16-20	47,50	48,94	1,870	1,927	47,1	PTTC-508-3"-16	K-25221	1	SQ-3/4"		
2-1/2"	63,5	8	55,12		2,170		54,7	PTTC-635-3"-8	K-25223	1	SQ-3/4"
		9	55,98		2,204		55,6	PTTC-635-3"-9	K-25223	1	SQ-3/4"
		10	56,70		2,232		56,3	PTTC-635-3"-10	K-25223	1	SQ-3/4"
		11	57,40		2,260		57	PTTC-635-3"-11	K-25223	1	SQ-3/4"
		12	57,96		2,282		57,5	PTTC-635-3"-12	K-25223	1	SQ-3/4"

ORTC - One Revolution Tube Cutter

Tools designed for cutting both ferrous and non-ferrous tubes commonly found in heat exchangers, boilers and condensers. Standard tool length is adjustable from 1"-6" (25-155 mm). Longer reach tools are available in 10" (254 mm) increments. The tool is designed to be used with a hand or ratchet wrench only. Impact wrenches should never be used with these tools. The Cutting of the tube is based on the eccentric principle, where the cutter bit moves out to the tube wall as the cutter is rotated. Continued clockwise rotation will puncture and cut the tube in one revolution. Simply rotating the tool counterclockwise closes the bit and the tool can be removed from the tube.



TUBE OD		TUBE GAUGE	TUBE ID				TOOL NO.	TOOL BIT
[INCH]	[MM]		[MM]	[INCH]	[MM]	[INCH]		
1/2	12,70	18-19	10,20	10,70	0,402	0,421	ORTC-100	N-625-4
		20	11,00	11,30	0,433	0,445	ORTC-108	N-625-4
5/8	15,88	14	11,40	11,90	0,449	0,469	ORTC-113	N-625-3
		15-16	12,00	12,90	0,472	0,508	ORTC-119	N-625-3
		17-18	12,70	13,50	0,500	0,531	ORTC-123	N-625-2
		19-20	13,50	14,20	0,531	0,559	ORTC-131	N-625-2
		22	14,00	14,70	0,551	0,579	ORTC-139	N-750-2
3/4	19,05	14-15	14,70	15,50	0,579	0,610	ORTC-145	N-750-2
		16	15,20	16,50	0,598	0,650	ORTC-151	N-750-2
		17-18	15,90	16,50	0,626	0,650	ORTC-153	N-750-2
		19-20	16,70	17,50	0,657	0,689	ORTC-163	N-1000-1
7/8	22,23	14-15	17,80	18,50	0,701	0,728	ORTC-174	N-1000-1
		16-17	18,80	19,50	0,740	0,768	ORTC-184	N-1000-1
		18	19,30	20,00	0,760	0,787	ORTC-190	N-1000-1
		19-20	19,80	20,60	0,780	0,811	ORTC-193	N-1000-2
		12	19,80	20,60	0,780	0,811	ORTC-193	N-1000-2
1	25,40	14	20,80	21,60	0,819	0,850	ORTC-205	N-1000-2
		15	21,30	22,10	0,839	0,870	ORTC-210	N-1000-2
		16-17	21,80	22,60	0,858	0,890	ORTC-215	N-1000-2
		18-20	22,60	23,10	0,890	0,909	ORTC-223	N-1000-2
		22	23,90	24,60	0,941	0,969	ORTC-232	N-1000-2
1-1/4	31,75	10-11	24,90	25,60	0,980	1,008	ORTC-245	N-1000-2
		12	25,90	26,70	1,020	1,051	ORTC-255	N-1000-2
		13-14	26,70	27,40	1,051	1,079	ORTC-264	N-1000-2
		15-16	27,90	28,70	1,098	1,130	ORTC-274	N-1000-2
		17-19	28,70	29,60	1,130	1,165	ORTC-283	N-1000-2

TUBE OD		TUBE GAUGE	TUBE ID				TOOL NO.	TOOL BIT
[INCH]	[MM]		[MM]	[INCH]	[MM]	[INCH]		
1-1/2	38,10	10-11	31,30	32,10	1,232	1,264	ORTC-309	N-1500-1
		12-13	32,50	33,30	1,280	1,311	ORTC-320	N-1500-1
		14-15	33,80	34,50	1,331	1,358	ORTC-333	N-1500-1
		16-17	34,50	35,30	1,358	1,390	ORTC-339	N-1500-1
		18-19	35,30	36,10	1,390	1,421	ORTC-350	N-1500-1
1-3/4	44,45	10-11	37,00	38,50	1,457	1,516	ORTC-369	N-1500-1
		12-14	38,80	40,30	1,528	1,587	ORTC-383	N-1500-1
		15-16	40,80	41,20	1,606	1,622	ORTC-403	N-1500-1
2	50,80	17-18	41,30	42,00	1,626	1,654	ORTC-410	N-1500-1
		10	44,00	44,00	1,732	1,732	ORTC-435	N-1500-1
		11	44,70	44,70	1,760	1,760	ORTC-442	N-1500-1
		12-13	45,00	46,00	1,772	1,811	ORTC-447	N-1500-1
2-1/4	57,15	14-15	46,20	48,20	1,819	1,898	ORTC-457	N-1500-1
		16-17	47,20	48,20	1,858	1,898	ORTC-468	N-1500-1
		18-19	48,00	49,00	1,890	1,929	ORTC-476	N-1500-1
		10	50,30	50,30	1,980	1,980	ORTC-497	N-2250-1
		11	51,00	51,00	2,008	2,008	ORTC-505	N-2250-1
		12-13	51,60	52,30	2,031	2,059	ORTC-511	N-2250-1
2-1/2	63,50	14-15	52,90	53,50	2,083	2,106	ORTC-524	N-2250-1
		16-17	53,80	54,80	2,118	2,157	ORTC-533	N-2250-1
		18-19	54,60	55,60	2,150	2,189	ORTC-541	N-2250-1
		10	56,70	56,70	2,232	2,232	ORTC-562	N-2250-1
		11	57,40	57,40	2,260	2,260	ORTC-569	N-2250-1
		12-13	57,60	58,60	2,268	2,307	ORTC-572	N-2250-1
		14-15	58,90	60,00	2,319	2,362	ORTC-585	N-2250-1
2-1/2	63,50	16-17	60,00	61,00	2,362	2,402	ORTC-586	N-2250-1
		18-19	60,70	61,70	2,390	2,429	ORTC-602	N-2250-1

ORTCC - One Revolution Tube Cutter version C

One Revolution Tube Cutter version C is used for piercing heavy wall, carbon steel tubes for ventilation prior to plugging the leaky tubes. Delivered in two length version 6" and 12".

TUBE OD		TUBE GAUGE	TOOL NO.	TOOL BIT
[INCH]	[MM]			
3/4	19,0	10	ORTCC-119	N-625-3
		11	ORTCC-123	N-625-2
		12	ORTCC-131	N-625-2
		13	ORTCC-139	N-750-2
		14	ORTCC-145	N-750-2
7/8	22,2	10	ORTCC-151	N-750-2
		12	ORTCC-153	N-750-2
1	25,4	13	ORTCC-163	N-1 000-1
		10	ORTCC-174	N-1000-1
		11	ORTCC-184	N-1000-1
		12	ORTCC-190	N-1000-1
1	25,4	13	ORTCC-193	N-1000-2
		14	ORTCC-205	N-1000-2

1WTTC-1000 Wheel Type Tube Cutter

The 1WTTC-1000 greatly reduces cutting time by utilizing the special 1 point self-centering cutter wheel design and works with 3/4", thru 1-1/4" O.D. tubes (after changing cutter body wheels and pilots). The tool does not create any chips during the cutting process!



CUTTING RANGE		REACH		POWER	FREE SPEED	TORQUE	
5/8" to 4"		3" & 6"		1,3 Hp	100 Rpm	105 Ft.Lbs	
15,8 - 101,6 mm		76,2 & 152,4 mm		0,97 kW		140 Nm	
AIR USE		WIDTH		HEIGHT		WEIGHT	
55 cfm	1,3 m ³ /min	2,32"	59 mm	13,1"	335 mm	15 Lbs	6,8 kg

TRIMMING ATTACHMENT

Tube projection can be cut quickly without generating any chips!



OPTIONAL FEED SYSTEMS



Lever feed handle



Crank arm with double feed stroke

TUBE OD		TUBE GAUGE	TOOL NR	WHEEL HOLDER	WHEEL PIN	CUTTING			TRIMMING			BODY
[INCH]	[MM]	[BWG]				CUTTER WHEEL	PILOT	THRUST COLLAR	TRIMMING COLLAR	PILOT	PILOT EXTENSION	
3/4	19,05	13	1WTTC-750-13	1CCWH-190-3	CP-19	CW-20	Solid Body	SWTC-750-13	WTTA-750-13	Solid body	Solid body	1WTB-750-13
		14	1WTTC-750	1CCWH-190	CP-20	CW-21	P-008	SWTC-750	WTTA-750	PE-1WTTC-190	T-8	1WTB-750
		15				CW-21	P-009				T-9	
		16				CW-21	P-010				T-10	
		17				CW-21	P-011				T-11	
		18				CW-21	P-012				T-12	
		19				CW-21	P-013				T-13	
		20				CW-21	P-014				T-14	
		21				CW-21	P-015				T-15	
		22				CW-21	P-016				T-16	
		23				CW-21	P-017				T-17	
24	CW-31	P-018	T-18									
7/8	22,23	14	1WTTC-875	1CCWH-222	CP-21	CW-25	P-019	SWTC-875	WTTA-875	PE-1WTTC-222	T-19	1WTB-875
		15				CW-25	P-020				T-20	
		16				CW-25	P-021				T-21	
		17				CW-25	P-022				T-22	
		18				CW-25	P-023				T-23	
		19				CW-25	P-024				T-24	
		20				CW-25	P-025				T-25	
		21				CW-25	P-026				T-26	
		22				CW-25	P-027				T-27	
		23				CW-25	P-028				T-28	

* For 3/4" GA13 the cutting machine needs complete solid body tube cutter 1WTTC-750-13

TUBE OD		TUBE GAUGE	TOOL NR	WHEEL HOLDER	WHEEL PIN	CUTTING			TRIMMING			BODY
[INCH]	[MM]	[BWG]				CUTTER WHEEL	PILOT	THRUST COLLAR	TRIMMING COLLAR	PILOT	PILOT EXTENSION	
1	25.40	12	1WTTC-1000	1CCWH-254	CP-25	CW-31	P-029-1	SWTC-1000	WTTA-1000	T-29-1	PE-1WTTC-254	1WTB-1000
		13				CW-31	P-029-2			T-29-2		
		14				CW-31	P-029			T-29		
		15				CW-31	P-030			T-30		
		16				CW-31	P-031			T-31		
		17				CW-31	P-032			T-32		
		18		1CCWH-254-2		CW-31	P-033			T-33		
		19				CW-31	P-034			T-34		
		20				CW-31	P-035			T-35		
		21				CW-31	P-036			T-36		
		22				CW-31	P-037			T-37		
		23				CW-31	P-038			T-38		
24	CW-31	P-039	T-39									
1 1/8	28.58	12	1WTTC-1125	1CCWH-286	CP-25	CW-34	P-040-1	SWTC-1125	WTTA-1125	T-40-1	PE-1WTTC-286	1WTB-1125
		13				CW-34	P-040-2			T-40-2		
		14				CW-34	P-040			T-40		
		15				CW-34	P-041			T-41		
		16				CW-34	P-042			T-42		
		17				CW-34	P-043			T-43		
		18		1CCWH-286-2		CW-34	P-044			T-44		
		19				CW-34	P-045			T-45		
		20				CW-34	P-046			T-46		
		21				CW-34	P-047			T-47		
		22				CW-34	P-048			T-48		
		23				CW-34	P-049			T-49		
24	CW-34	P-050	T-50									
1 1/4	31.75	12	1WTTC-1250	1CCWH-317	CP-30	CW-37	P-051	SWTC-1250	WTTA-1250	T-51	PE-1WTTC-317	1WTB-1250
		13				CW-37	P-052			T-52		
		14				CW-37	P-053			T-53		
		15				CW-37	P-054			T-54		
		16				CW-37	P-055			T-55		
		17				CW-37	P-056			T-56		
		18		1CCWH-317-2		CW-37	P-057			T-57		
		19				CW-37	P-058			T-58		
		20				CW-37	P-059			T-59		
		21				CW-37	P-060			T-60		
		22				CW-37	P-061			T-61		
		23				CW-37	P-062			T-62		
24	CW-37	P-063	T-63									
1 1/2	38,1	10	1WTTC-1500	1CCWH-381	CP-4	CW-41	P-064	SWTC-1500	WTTA-1500	T-64	PE-1WTTC-381	1WBT-1500
		11				CW-41	P-065			T-65		
		12				CW-41	P-066			T-66		
		13				CW-41	P-067			T-67		
		14				CW-41	P-068			T-68		
		15				CW-41	P-069			T-69		
		16		CW-41		P-070	T-70					
		17		1CCWH-383		CW-41	P-071			T-71		
		18				CW-41	P-072			T-72		
		19				CW-41	P-073			T-73		
		20				CW-41	P-074			T-74		
		21				CW-41	P-075			T-75		
22	CW-41	P-076	T-76									
23	CW-41	P-077	T-77									
24	CW-41	P-078	T-78									

TUBE OD		TUBE GAUGE	TOOL NR	WHEEL HOLDER	WHEEL PIN	CUTTING			TRIMMING			BODY
[INCH]	[MM]	[BWG]				CUTTER WHEEL	PILOT	THRUST COLLAR	TRIMMING COLLAR	PILOT	PILOT EXTENSION	
1 3/4	44,45	8	1WTTC-1750	1CCWH-444	CP-4	CW-45	P-079	SWTC-1750	WTTA-1750	PE-1WTTC-444	1WBT-1750	T-79
		9				CW-45	P-080					T-80
		10				CW-45	P-081					T-81
		11				CW-45	P-082					T-82
		12				CW-45	P-083					T-83
		13				CW-45	P-084					T-84
		14		CW-45		P-085	T-85					
		15		CW-45		P-086	T-86					
		16		CW-45		P-087	T-87					
		17		CW-45		P-088	T-88					
		18		1CCWH-445		CW-45	P-089					T-89
		19		CW-45		P-090	T-90					
		20		CW-45		P-091	T-91					
2	50,8	6	1WTTC-2000	1CCWH-508	CP-4	CW-51	P-092	SWTC-2000	WTTA-2000	PE-1WTTC-508	1WBT-2000	T-92
		7				CW-51	P-093					T-93
		8				CW-51	P-094					T-94
		9				CW-51	P-095					T-95
		10				CW-51	P-096					T-96
		11				CW-51	P-097					T-97
		12		CW-51		P-098	T-98					
		13		1CCWH-506		CW-51	P-099					T-99
		14		CW-51		P-100	T-100					
		15		CW-51		P-101	T-101					
		16		CW-51		P-102	T-102					
		17		CW-51		P-103	T-103					
		18		1CCWH-504		CW-51	P-104					T-104
19	CW-51	P-105	T-105									
20	CW-51	P-106	T-106									
2 1/4	57,1	6	1WTTC-2000	1CCWH-571	CP-4	CW-51	P-107	SWTC-2250	WTTA-2250	PE-1WTTC-508	1WBT-2000	T-107
		7				CW-51	P-108					T-108
		8				CW-51	P-109					T-109
		9				CW-51	P-110					T-110
		10				CW-51	P-111					T-111
		11				CW-51	P-112					T-112
		12		CW-51		P-113	T-113					
		13		1CCWH-573		CW-51	P-114					T-114
		14		CW-51		P-115	T-115					
		15		CW-51		P-116	T-116					
		16		CW-51		P-117	T-117					
		17		CW-51		P-118	T-118					
		18		1CCWH-575		CW-51	P-119					T-119
19	CW-51	P-120	T-120									
20	CW-51	P-121	T-121									

TUBE OD		TUBE GAUGE	TOOL NR	WHEEL HOLDER	WHEEL PIN	CUTTING			TRIMMING			BODY
[INCH]	[MM]	[BWG]				CUTTER WHEEL	PILOT	THRUST COLLAR	TRIMMING COLLAR	PILOT	PILOT EXTENSION	
2,5	63,5	6	1WTTC-2000	1CCWH-635	CP-4	CW-51	P-122	SWTC-2500	WTTA-2500	T-122	PE-1WTTC-508	1WBT-2000
		7				CW-51	P-123			T-123		
		8				CW-51	P-124			T-124		
		9				CW-51	P-125			T-125		
		10				CW-51	P-126			T-126		
		11				CW-51	P-127			T-127		
		12	CW-51	P-128		T-128						
		13	CW-51	P-129		T-129						
		14	CW-51	P-130		T-130						
		15	CW-51	P-131		T-131						
		16	CW-51	P-132		T-132						
		17	CW-51	P-133		T-133						
		18	CW-51	P-134		T-134						
		19	CW-51	P-135		T-135						
20	CW-51	P-136	T-136									
3	76,2	6	1WTTC-2000	1CCWH-762	CP-4	CW-51	P-137	SWTC-3000	WTTA-3000	T-137	PE-1WTTC-508	1WBT-2000
		7				CW-51	P-138			T-138		
		8				CW-51	P-139			T-139		
		9				CW-51	P-140			T-140		
		10				CW-51	P-141			T-141		
		11				CW-51	P-142			T-142		
		12	CW-51	P-143		T-143						
		13	CW-51	P-144		T-144						
		14	CW-51	P-145		T-145						
		15	CW-51	P-146		T-146						
		16	CW-51	P-147		T-147						
		17	CW-51	P-148		T-148						
		18	CW-51	P-149		T-149						
		19	CW-51	P-150		T-150						
20	CW-51	P-151	T-151									
4	101,6	6	1WTTC-2000	1CCWH-101	CP-4	CW-51	P-152	SWTC-4000	WTTA-4000	T-152	PE-1WTTC-508	1WBT-2000
		7				CW-51	P-153			T-153		
		8				CW-51	P-154			T-154		
		9				CW-51	P-155			T-155		
		10				CW-51	P-156			T-156		
		11				CW-51	P-157			T-157		
		12	CW-51	P-158		T-158						
		13	CW-51	P-159		T-159						
		14	CW-51	P-160		T-160						
		15	CW-51	P-161		T-161						
		16	CW-51	P-162		T-162						
		17	CW-51	P-163		T-163						
		18	CW-51	P-164		T-164						
		19	CW-51	P-165		T-165						
20	CW-51	P-166	T-166									

2WTTC-1500 Two Wheels Type Tube Cutter

The 2WTTC-1500 greatly reduces cutting time by utilizing the special 2 point self-centering cutter wheel design and works from 1-1/2" up to 2" O.D. tubes. The tool does not create any chips during the cutting process!



CUTTING RANGE		REACH		POWER		FREE SPEED		TORQUE	
1-1/2" to 2"		4"		1,3 Hp		100 Rpm		105 Ft.Lbs	
38,1 - 50,8 mm		101,6 mm		0,97 kW				140 Nm	
AIR USE			WIDTH		HEIGHT		WEIGHT		
55 cfm	1,3 m³/min	2,32"	59 mm	13,1"	335 mm	21 Lbs	9,5 kg		

OPTIONAL FEED SYSTEMS



Lever feed handle



Crank arm single feed stroke

ALL-PURPOSE TOOL



Tube cutting and tube trimming setup-set-up

TUBE OD		TUBE GAUGE	CUTTER WHEEL	WHEEL HOLDER	WHEEL PIN	PILOT	SUPPORT PILOT	THRUST COLLAR	COLAR DEPTH STOP	
[INCH]	[MM]	[BWG]							LONG	SHORT
1 1/2	38.1	12	CW-13	2CWH-15	CP-3	2P-29	SP-29	TC-300	TCDS-L	TCDS-S
		13				2P-291	SP-291			
		14				2P-30	SP-30			
		15				2P-301	SP-301			
		16				2P-31	SP-31			
		17				2P-311	SP-311			
		18				2P-32	SP-32			
		19				2P-321	SP-321			
		20				2P-33	SP-33			
		21				2P-331	SP-331			
		22				2P-332	SP-332			
1 3/4	44.45	12	CW-16	2CWH-18	CP-4	2P-35	SP-35	TC-250	TCDS-L	TCDS-S
		13				2P-351	SP-351			
		14				2P-36	SP-36			
		15				2P-361	SP-361			
		16				2P-37	SP-37			
		17				2P-371	SP-371			
		18				2P-38	SP-38			
		19				2P-381	SP-381			
		20				2P-382	SP-382			
		21				2P-383	SP-383			
		22				2P-384	SP-384			
23	2P-385	SP-385								
24	2P-386	SP-386								

TUBE OD		TUBE GAUGE	CUTTER WHEEL	WHEEL HOLDER	WHEEL PIN	PILOT	SUPPORT PILOT	THRUST COLLAR	COLAR DEPTH STOP	
[INCH]	[MM]	[BWG]							LONG	SHORT
2	50.80	8	CW-17	2CWH-20	CP-4	2P-40	SP-40	TC-200	TCDS-L	TCDS-S
		9				2P-401	SP-401			
		10				2P-41	SP-41			
		11				2P-411	SP-411			
		12				2P-42	SP-42			
		13				2P-421	SP-421			
		14				2P-43	SP-43			
		15				2P-431	SP-431			
		16				2P-44	SP-44			
		17				2P-441	SP-441			
		18				2P-45	SP-45			
		19				2P-451	SP-451			
		20				2P-46	SP-46			
		21				2P-461	SP-461			
		22				2P-47	SP-47			
		23				2P-471	SP-471			
		24				2P-48	SP-48			

3W TTC-2000 Three Wheels Type Tube Cutter

The 3W TTC-2000 greatly reduces cutting time by utilizing the special 3 point self-centering cutter wheel design and works with 2", thru 4" O.D. tubes. The tool does not create any chips during the cutting process!

Depending on operator experience and tube material the KRAIS 3W TTC-2000 can cut 2" GA 12 in between 6 to 12 seconds. Real tube to tube cycle time is approximately 30 seconds, giving unmatched productivity.



CUTTING RANGE		REACH		POWER		FREE SPEED		TORQUE	
2" - 4"		4"		1,3 Hp		100 Rpm		105 Ft.Lbs	
50,8 - 101,6 mm		101,6 mm		0,97 kW				140 Nm	
AIR USE			WIDTH		HEIGHT		WEIGHT		
55 cfm	1,3 m³/min	2,32"	59 mm	13,1"	335 mm	23 Lbs	10,42 kg		

OPTIONAL FEED SYSTEMS



Lever feed handle



Crank arm single feed stroke

ALL-PURPOSE TOOL



Tube cutting and tube trimming setup-set-up



On demand we offer 3W TTC with reach up to 5 m.

TUBE OD		TUBE GAUGE	CUTTER WHEEL	WHEEL HOLDER	WHEEL PIN	PILOT EXTENSION	PILOT	THRUST COLLAR	COLAR DEPTH STOP	
[INCH]	[MM]	[BWG]							LONG	SHORT
2	50.8	10	CW-16	CCWH-20	CP-4	PE-WTTC	P42	TC-200	TCDS-L	TCDS-S
		11								
		12								
		13								
		14								
		15								
		16								
		17								
		18								
		19								
20										
2 1/2	63.50	9	CW-17	CCWH-25	CP-4	PE-WTTC	P51	TC-200	TCDS-L	TCDS-S
		10								
		11								
		12								
		13								
		14								
		15								
		16								
		17								
		18								
19										
20										
							P461			
							P47			
							P471			
							P48			
							P481			
							P49			
							P52			
							P53			
							P54			
							P55			
							P56			
							P561			
							P57			
							P571			
							P58			
							P581			
							P59			

TUBE OD		TUBE GAUGE	CUTTER WHEEL	WHEEL HOLDER	WHEEL PIN	PILOT EXTENSION	PILOT	THRUST COLLAR	COLAR DEPTH STOP	
[INCH]	[MM]	[BWG]							LONG	SHORT
3	76.20	9	CW-17	CCWH-30	CP-4	PE-WTTC	P61	TC-200	TCDS-L	TCDS-S
		10					P62			
		11					P63			
		12					P64			
		13					P65			
		14					P66			
		15					P661			
		16					P67			
		17					P671			
		18					P68			
		19					P681			
20	P69									
3 1/2	88.90	9	CW-17	CCWH-35	CP-4	PE-WTTC	P71	TC-400	TCDS-L	TCDS-S
		10					P72			
		11					P73			
		12					P74			
		13					P75			
		14					P76			
		15					P761			
		16					P77			
		17					P771			
		18					P78			
		19					P781			
20	P79									
4	101.60	9	CW-17	CCWH-40	CP-4	PE-WTTC	P81	TC-400	TCDS-L	TCDS-S
		10					P82			
		11					P83			
		12					P84			
		13					P85			
		14					P86			
		15					P861			
		16					P87			
		17					P871			
		18					P88			
		19					P881			
20	P89									

3WTTTC-3000 Three Wheels Tube Cutter

The 3WTTTC-3000 greatly reduces cutting time by utilizing the special 3 point self-centering cutter wheel design and works with 2-1/2", thru 5" O.D. tubes. The tool does not create any chips during the cutting process! "Real life" tube to tube cycle time is approximately 30 seconds, giving unmatched productivity.



CUTTING RANGE		REACH		POWER	FREE SPEED	TORQUE	
2,5" - 5"		4"		1,3 Hp	55 Rpm	207 Ft.Lbs	
63,5 - 127,0 mm		101,6 mm		0,97 kW		280 Nm	
AIR USE		WIDTH		HEIGHT		WEIGHT	
55 cfm	1,3 m³/min	2,32"	59 mm	19"	485 mm	36,3 Lbs	16,5 kg

OPTIONAL FEED SYSTEMS



Lever feed handle



Crank arm with double feed stroke



Tube cutting and tube trimming setup-set-up

ALL-PURPOSE TOOL

TUBE OD		TUBE GAUGE	CUTTER WHEEL	WHEEL HOLDER	WHEEL PIN	PILOT EXTENSION	PILOT	THRUST COLLAR	COLLAR DEPTH	
[INCH]	[MM]	[BWG]							LONG	SHORT
2 1/2	63.50	8	CW-19	CCWH-55	CP-4	PE-WTTC-3	P350	TC-3200	TCDS-L	TCDS-S
		9								
		10								
		11								
		12								
		13								
		14								
		15								
		16								
		17								
		18								
19										
20										
3	76.20	6	CW-22	CCWH-60	CP-5	PE-WTTC-3	P3606	TC-3200	TCDS-L	TCDS-S
		7								
		8								
		9								
		10								
		11								
		12								
		13								
		14								
		15								
		16								
17										
18										
19										
20										
3	76.20	13	CW-22	CCWH-60	CP-5	PE-WTTC-3	P3607	TC-3200	TCDS-L	TCDS-S
		14								
		15								
		16								
		17								
		18								
		19								
		20								
		P360								
		P361								
		P362								
P363										
P364										
P365										
P366										
P3661										
P367										
P3671										
P368										
P3681										
P369										

TUBE OD		TUBE GAUGE	CUTTER WHEEL	WHEEL HOLDER	WHEEL PIN	PILOT EXTENSION	PILOT	THRUST COLLAR	COLAR DEPTH	
[INCH]	[MM]	[BWG]							LONG	SHORT
3 1/2	88.90	6	CW-22	CCWH-65	CP-5	PE-WTTC-3	P3716	TC-3400	TCDS-L	TCDS-S
		7								
		8								
		9								
		10								
		11								
		12								
		13								
		14								
		15								
		16								
		17								
		18								
		19								
20										
4	101.60	6	CW-22	CCWH-70	CP-5	PE-WTTC-3	P3806	TC-3400	TCDS-L	TCDS-S
		7								
		8								
		9								
		10								
		11								
		12								
		13								
		14								
		15								
		16								
		17								
		18								
		19								
20										
5	127	6	CW-22	CCWH-80	CP-5	PE-WTTC-3	P3906	TC-3500	TCDS-L	TCDS-S
		7								
		8								
		9								
		10								
		11								
		12								
		13								
		14								
		15								
		16								
		17								
		18								
		19								
20										

MWTTTC – Manual Tube Cutter

Tool designed to cut or partially cut the tubes in the center support sheet of condensers, similar in design to those manufactured by Trane, Carrier and JCI.

The MWTTTC has adjustable wheel travel that accurately controls the amount of tube wall the operator can cut. Typically 98% or less is easily set up. The MWTTTC comes as standard with 120” reach (3m). On request we can manufacture up to 196” reach (5m).

We recommend our MCP-100 Manual Collet Puller as a companion tool to the MWTTTC, this allows quick and trouble free stub and tube extraction.



CUTTING RANGE	REACH	POWER
19-25 mm	3000 mm	Manual
3/4" - 1"	120"	

CUTTING WITHOUT CHIPS



TUBE OD		TUBE GAUGE	TOOL NR	WHEEL HOLDER	WHEEL PIN	CUTTING		
[INCH]	[MM]	[BWG]				CUTTER WHEEL	PILOT	THRUST COLLAR
3/4	19.05	14	MWTTTC-750	1CCWH-190	CP-20	CW-21	P-008	MWTC-750
		15				CW-21	P-009	
		16				CW-21	P-010	
		17				CW-21	P-011	
		18				CW-21	P-012	
		19		CW-21		P-013		
		20		CW-21		P-014		
		21		CW-21		P-015		
		22		CW-21		P-016		
		23		CW-21		P-017		
7/8	22.23	14	MWTTTC-875	1CCWH-222	CP-25	CW-25	P-019	MWTC-875
		15		CW-25		P-020		
		16		CW-25		P-021		
		17		CW-25		P-022		
		18		CW-25		P-023		
		19		CW-25		P-024		
		20		CW-25		P-025		
		21		CW-25		P-026		
		22		CW-25		P-027		
		23		CW-25		P-028		
1	25.40	12	MWTTTC-1000	1CCWH-254	CP-25	CW-31	P-029-1	MWTC-1000
		13				CW-31	P-029-2	
		14				CW-31	P-029	
		15				CW-31	P-030	
		16				CW-31	P-031	
		17				CW-31	P-032	
		18		CW-31		P-033		
		19		CW-31		P-034		
		20		CW-31		P-035		
		21		CW-31		P-036		
		22		CW-31		P-037		
		23		CW-31		P-038		
24	CW-31	P-039						

Tube wall reducing tool

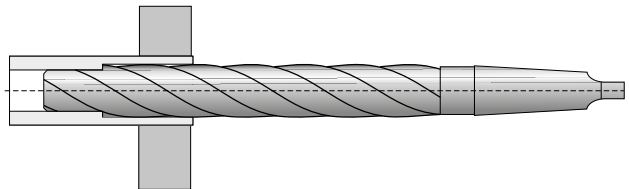
It is a special reamer made out of high speed steel, it has a Morse Taper shank and a centralizing pilot specially grinded according to the tube gauge. This tools are used to reduce the gauge of tube to be removed from the tube sheet. Tubes should be drilled in about 80% of the length of the tube sheet.



This tools are used with KDM Pneumatic drill

TUBE O.D.		TUBE GAUGE	TUBE I.D.		TOOL NO.	MORSE TAPER	TUBE SHEET THICKNESS	
[INCH]	[MM]	[BWG]	[INCH]	[MM]			[INCH]	[MM]
1/2	12,7	16	0,370	9,40	WTRT-1	2	2-7/8"	73
		17	0,384	9,75	WTRT-2	2	2-7/8"	73
		18	0,402	10,21	WTRT-3	2	2-7/8"	73
		19	0,415	10,56	WTRT-4	2	2-7/8"	73
5/8	15,8	12	0,407	10,34	WTRT-5	2	3-3/8"	86
		13	0,435	11,05	WTRT-6	2	3-3/8"	86
		14	0,459	11,66	WTRT-7	2	3-3/8"	86
		15	0,481	12,22	WTRT-8	2	3-3/8"	86
		16	0,495	12,57	WTRT-9	2	3-3/8"	86
		18	0,527	13,39	WTRT-10	2	3-3/8"	86
3/4	19	10	0,482	12,24	WTRT-11	2	4-3/8"	111
		11	0,510	12,95	WTRT-12	2	4-3/8"	111
		12	0,532	13,51	WTRT-13	2	4-3/8"	111
		13	0,560	14,22	WTRT-14	2	4-3/8"	111
		14	0,584	14,83	WTRT-15	2	4-3/8"	111
		15	0,606	15,39	WTRT-16	2	4-3/8"	111
		16	0,620	15,75	WTRT-17	2	4-3/8"	111
		18	0,652	16,56	WTRT-18	2	4-3/8"	111
7/8	22,2	10	0,607	15,42	WTRT-19	2	4-5/8"	117
		11	0,635	16,13	WTRT-20	2	4-5/8"	117
		12	0,657	16,69	WTRT-21	2	4-5/8"	117
		13	0,685	17,40	WTRT-22	2	4-5/8"	117
		14	0,709	18,01	WTRT-23	2	4-5/8"	117
		15	0,731	18,57	WTRT-24	2	4-5/8"	117
		16	0,745	18,92	WTRT-25	2	4-5/8"	117
		18	0,777	19,74	WTRT-26	2	4-5/8"	117
1	25,4	8	0,670	17,02	WTRT-27	3	5-1/2"	140
		10	0,732	18,59	WTRT-28	3	5-1/2"	140
		11	0,760	19,30	WTRT-29	3	5-1/2"	140
		12	0,782	19,86	WTRT-30	3	5-1/2"	140
		13	0,810	20,57	WTRT-31	3	5-1/2"	140
		14	0,834	21,18	WTRT-32	3	5-1/2"	140
		15	0,856	21,74	WTRT-33	3	5-1/2"	140
		16	0,870	22,10	WTRT-34	3	5-1/2"	140
		18	0,902	22,91	WTRT-35	3	5-1/2"	140

TUBE O.D.		TUBE GAUGE	TUBE I.D.		TOOL NO.	MORSE TAPER	TUBE SHEET THICKNESS	
[INCH]	[MM]	[BWG]	[INCH]	[MM]			[INCH]	[MM]
1-1/4	31,7	8	0,92	23,37	WTRT-36	3	5-1/2"	140
		10	0,982	24,94	WTRT-37	3	5-1/2"	140
		11	1,010	25,65	WTRT-38	3	5-1/2"	140
		12	1,032	26,21	WTRT-39	3	5-1/2"	140
		13	1,060	26,92	WTRT-40	3	5-1/2"	140
		14	1,084	27,53	WTRT-41	3	5-1/2"	140
		16	1,12	28,45	WTRT-42	3	5-1/2"	140
		18	1,152	29,26	WTRT-43	4	5-1/2"	140
1-1/2	38,1	8	1,170	29,72	WTRT-44	4	5-1/2"	140
		10	1,232	31,29	WTRT-45	4	5-1/2"	140
		11	1,260	32,00	WTRT-46	4	5-1/2"	140
		12	1,282	32,56	WTRT-47	4	5-1/2"	140
		13	1,310	33,27	WTRT-48	4	5-1/2"	140
		14	1,334	33,88	WTRT-49	4	5-1/2"	140
		16	1,370	34,80	WTRT-50	4	5-1/2"	140



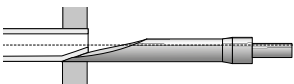
Pneumatic Chipping hammer



TD Tube Drifts and CT Collapsing tools are very good tools for quick removal of tube stubs from the tube sheet. For tube 1/2" to 1" OD tools are made as standard. The tools are equipped with shank 06. Other sizes available on request. The 01 shank and tool with reach longer the 6" available on request. Other sizes, up to 2" available on request.

RAM STROKE		RAM FREQUENCY		RAM DIAMETER	
80 mm		33 Hz		40 mm	
3,149"				1,574"	
AIR USE		LENGTH WITHOUT TOOL		BODY WEIGHT	
### cfm	25 m ³ /min	16,141"	410 mm	9,48 Lbs	4,3 kg

CT Collapsing tools



TUBE O.D.		TUBE GAUGE			TOOL WITH SHANK 06
[INCH]	[MM]	[BWG]	[MM]	[INCH]	
3/8"	10	16 - 20	1,65 - 0,89	0,065 - 0,035	CT-375-06
1/2"	12,7				CT-500-06
5/8"	15,8				CT-625-06
3/4"	19,05				CT-750-06
7/8"	22,2				CT-875-06
1"	25,4				CT-1000-06
1-1/4"	31,7				CT-1125-06
1-1/2"	38,1				CT-1500-06
1-3/4"	44,4				CT-1750-06
2"	50,8				CT-2000-06

TD Tube drift



TUBE O.D.	TUBE GAUGE		TUBE I.D.		TOOL WITH SHANK 06		
	[INCH]	[MM]	[BWG]	[INCH]			
1/2	12,7	12	0,109	2,77	0,281	7,16	TD-500-12-06
		14	0,083	2,11	0,333	8,48	TD-500-14-06
		16	0,065	1,65	0,370	9,40	TD-500-16-06
		18	0,049	1,24	0,402	10,22	TD-500-18-06
		20	0,035	0,89	0,429	10,92	TD-500-20-01
5/8	15,8	12	0,109	2,77	0,407	10,34	TD-625-12-06
		13	0,095	2,41	0,435	11,05	TD-625-13-06
		14	0,083	2,11	0,459	11,66	TD-625-14-06
		15	0,072	1,83	0,481	12,22	TD-625-15-06
		16	0,065	1,65	0,495	12,57	TD-625-16-06
		17	0,058	1,47	0,509	12,93	TD-625-17-06
		18	0,049	1,24	0,527	13,39	TD-625-18-06
		19	0,042	1,07	0,541	13,74	TD-625-19-06
		20	0,035	0,89	0,555	14,10	TD-625-20-06
		3/4	19	10	0,134	3,40	0,482
12	0,109			2,77	0,532	13,51	TD-750-12-06
13	0,095			2,41	0,560	14,22	TD-750-13-06
14	0,083			2,11	0,584	14,83	TD-750-14-06
15	0,072			1,83	0,606	15,39	TD-750-15-06
16	0,065			1,65	0,620	15,75	TD-750-16-06
17	0,058			1,47	0,634	16,10	TD-750-17-06
18	0,049			1,24	0,652	16,56	TD-750-18-06
19	0,042			1,07	0,666	16,92	TD-750-19-06
20	0,035			0,89	0,680	17,27	TD-750-20-06
7/8	22,2	12	0,109	2,77	0,657	16,69	TD-875-12-06
		14	0,083	2,11	0,709	18,01	TD-875-14-06
		15	0,072	1,83	0,731	18,57	TD-875-15-06
		16	0,065	1,65	0,745	18,92	TD-875-16-06
		18	0,049	1,24	0,777	19,74	TD-875-18-06
1	25,4	8	0,165	4,19	0,670	17,02	TD-1000-8-06
		9	0,148	3,76	0,704	17,88	TD-1000-9-06
		10	0,134	3,40	0,732	18,59	TD-1000-10-06
		11	0,120	3,05	0,760	19,30	TD-1000-11-06
		12	0,109	2,77	0,782	19,86	TD-1000-12-06
		13	0,095	2,41	0,810	20,57	TD-1000-13-06
		14	0,083	2,11	0,834	21,18	TD-1000-14-06
		15	0,072	1,83	0,856	21,74	TD-1000-15-06
		16	0,065	1,65	0,870	22,10	TD-1000-16-06
		17	0,058	1,47	0,884	22,45	TD-1000-18-06
		18	0,049	1,24	0,902	22,91	TD-1000-18-06
		19	0,042	1,07	0,916	23,27	TD-1000-19-06
20	0,035	0,89	0,930	23,62	TD-1000-20-06		

SHANK TYPE 06

