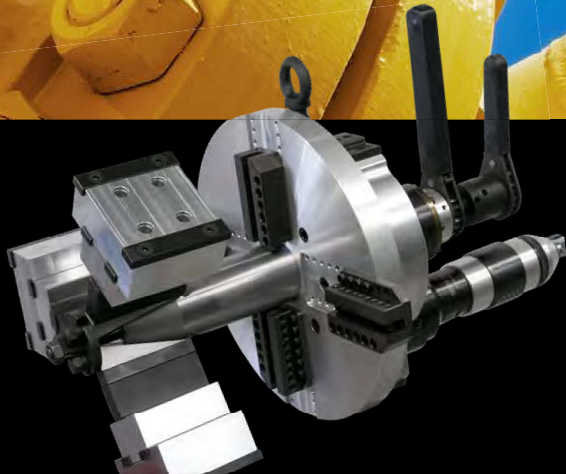
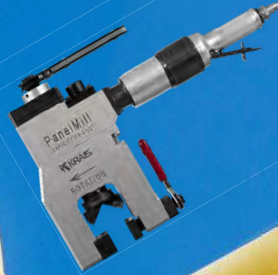
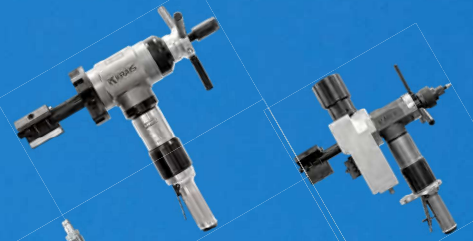
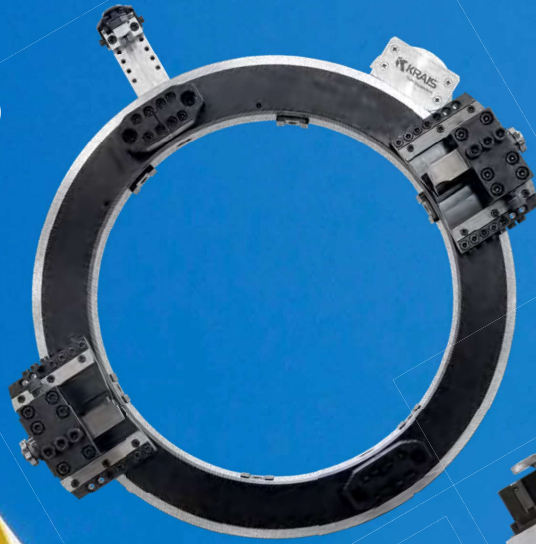




**MADE IN
POLAND**



Tube & Pipe Professional Tools



▀ HETT – Tube Taping Machine

The HETT tapping machine solves problems with retubing heat exchangers tubes made of hard alloyed steel such as Inconel, duplex, other stainless steel or thick-walled carbon steel tubes. The unique characteristic of the HETT machine is a high torque, up to 450 Nm, and the tool is easy to operate by one person.

The machine uses the short version of standard machine tapping tools.



Using the HETT solution eliminates the traditional taper spears and noisy impact wrenches. Once the thread is ready, an operator can use any tube of pullers, such as HPR-30, SupperJenny, ACTP, or custom made CP-1000 puller.



The only difference is that a threaded drawbar is used, which guarantees a strong connection with pulled tubes and a long tool lifetime in comparing the traditional tube spear.



WORK EXAMPLES



Another advantage of threading tube end in the tube sheet is that by cutting grooves in the tube wall, we weaken the expanded connection, making it much easier to break that expansion with a tube puller.

Manual Tube Puller



TUBE OD		TUBE GAUGE		WALL THKS		TUBE ID		TUBE PULLER NO	SPARE SPEARS NO
[INCH]	[MM]	[BWG]	[INCH]	[MM]	[INCH]	[MM]			
1/2	12,7	14	0,08	2,11	0,334	8,48	KSP 500-14	KSP 1/2-14	
		16	0,07	1,65	0,370	9,40	KSP 500-16	KSP 1/2-16	
		18	0,05	1,24	0,402	10,21	KSP 500-18	KSP 1/2-18	
		20	0,04	0,89	0,430	10,92	KSP 500-20	KSP 1/2-20	
5/8	15,88	14	0,08	2,11	0,459	11,66	KSP 625-14	KSP 5/8-14	
		16	0,07	1,65	0,495	12,57	KSP 625-16	KSP 5/8-16	
		18	0,05	1,24	0,527	13,39	KSP 625-18	KSP 5/8-18	
		20	0,04	0,89	0,555	14,10	KSP 625-20	KSP 5/8-20	
3/4	19,05	14	0,08	2,11	0,585	14,86	KSP 750-14	KSP 3/4-14	
		16	0,07	1,65	0,620	15,75	KSP 750-16	KSP 3/4-16	
		18	0,05	1,24	0,652	16,56	KSP 750-18	KSP 3/4-18	
		20	0,04	0,89	0,680	17,27	KSP 750-20	KSP 3/4-20	
7/8	22,2	14	0,08	2,11	0,709	18,01	KSP 875-14	KSP 7/8-14	
		16	0,07	1,65	0,745	18,92	KSP 875-16	KSP 7/8-16	
		18	0,05	1,24	0,777	19,74	KSP 875-18	KSP 7/8-18	
		20	0,04	0,89	0,805	20,45	KSP 875-20	KSP 7/8-20	
1	25,4	14	0,08	2,11	0,834	21,18	KSP 1000-14	KSP 1-14	
		16	0,07	1,65	0,870	22,10	KSP 1000-16	KSP 1-16	
		18	0,05	1,24	0,902	22,91	KSP 1000-18	KSP 1-18	
		20	0,04	0,89	0,930	23,62	KSP 1000-20	KSP 1-20	

MSP-100 Manual Spear Puller



Easy and economical way for tube removal.

- Easy to use by inserting the spear into the tube and removing required just a hand wrench or our universal ratched handle design for this operation (the drive handle it's a separate item and must be ordered separately).
- No external power required.
- Durable - all parts made out of high strength steel and are heat treated.
- Only one tool body required to cover the range from 1/2" to 1". Required only spears and nose pieces.

TUBE OD		TUBE GAUGE	SPEARS	NOSE PIECE
[INCH]	[MM]	[BWG]		
1/2	12,7	14-15	CPS-12-14-15	CPS-10-06A-12
		16-17	CPS-12-16-17	
		18-19	CPS-12-18-19	
		20-22	CPS-12-20-22	
5/8	15,88	22-24	CPS-12-22-24	CPS-10-06A-34
		10-11	CPS-58-10-11	
		12-13	CPS-58-12-13	
		14-15	CPS-58-14-15	
3/4	19,05	16-17	CPS-58-16-17	CPS-10-06A-34
		10-11	CPS-34-10-11	
		12-13	CPS-34-12-13	
		14-15	CPS-34-14-15	
7/8	22,23	16-17	CPS-34-16-17	CPS-10-06A-78
		10-11	CPS-78-10-11	
		12-13	CPS-78-12-13	
		14-15	CPS-78-14-15	
1	25,4	16-17	CPS-78-16-17	CPS-10-06A-1
		10-11	CPS-1-10-11	
		12-13	CPS-1-12-13	
		14-15	CPS-1-14-15	
		16-17	CPS-1-16-17	

2-FUNCTION RATCHED HANDLE



MCP-100 Manual Collet Puller

MCP-100 manual collet type tube puller for quick and easy tube stub removal from heat exchanges, condensers, chillers and other tubular pressure vessels.

Manually operated develop up to 10 Tons pulling force (depend on the arm length of the ratchet wrench), with 4" stroke. Can be used for tubes form 5/8" (16mm) to 1" (25 mm) O.D.

Recommended for smaller amount of tube to be pulled.



TUBE OD		TUBE GAUGE	GRIPPER SET	DRAW MANDREL	NOSE PIECE	LOCK NUT	ADJUST NUT	JAW O'RING	C O'RING
[INCH]	[MM]	[BWG]							
5/8"	15,88	16-17	CP-1000-01-58-16	CP-10S-03-58	CP-10S-06A-58	CP-10-LN-58	CP-10-AN-58	CP-2220	CP-1724
		18-19	CP-1000-01-58-18	CP-10S-03-58	CP-10S-06A-58	CP-10-LN-58	CP-10-AN-58	CP-2220	CP-1724
		20-21	CP-1000-01-58-20	CP-10S-03-58	CP-10S-06A-58	CP-10-LN-58	CP-10-AN-58	CP-2220	CP-1724
		22-23	CP-1000-01-58-22	CP-10S-03-58	CP-10S-06A-58	CP-10-LN-58	CP-10-AN-58	CP-2220	CP-1724
3/4"	19,05	16-17	CP-1000-01-34-16	CP-10S-03-34	CP-10S-06A-34	CP-10-LN-34	CP-10-AN-34	CP-2220	CP-1724
		18-19	CP-1000-01-34-18	CP-10S-03-34	CP-10S-06A-34	CP-10-LN-34	CP-10-AN-34	CP-2220	CP-1724
		20-21	CP-1000-01-34-20	CP-10S-03-34	CP-10S-06A-34	CP-10-LN-34	CP-10-AN-34	CP-2220	CP-1724
		22-23	CP-1000-01-34-22	CP-10S-03-34	CP-10S-06A-34	CP-10-LN-34	CP-10-AN-34	CP-2220	CP-1724
7/8"	22,23	16-17	CP-1000-01-78-16	CP-10S-03-78	CP-10S-06A-78	CP-10-LN-78	CP-10-AN-78	CP-2220	CP-1724
		18-19	CP-1000-01-78-18	CP-10S-03-78	CP-10S-06A-78	CP-10-LN-78	CP-10-AN-78	CP-2220	CP-1724
		20-21	CP-1000-01-78-20	CP-10S-03-78	CP-10S-06A-78	CP-10-LN-78	CP-10-AN-78	CP-2220	CP-1724
		22-23	CP-1000-01-78-22	CP-10S-03-78	CP-10S-06A-78	CP-10-LN-78	CP-10-AN-78	CP-2220	CP-1724
1"	25,4	16-17	CP-1000-01-1-16	CP-10S-03-1	CP-10S-06A-1	CP-10-LN-1	CP-10-AN-1	CP-2220	CP-1724
		18-19	CP-1000-01-1-18	CP-10S-03-1	CP-10S-06A-1	CP-10-LN-1	CP-10-AN-1	CP-2220	CP-1724
		20-21	CP-1000-01-1-20	CP-10S-03-1	CP-10S-06A-1	CP-10-LN-1	CP-10-AN-1	CP-2220	CP-1724
		22-23	CP-1000-01-1-22	CP-10S-03-1	CP-10S-06A-1	CP-10-LN-1	CP-10-AN-1	CP-2220	CP-1724

Tube Puller CP-1200

Shortened version of our model CP-1000. This unit has been designed to remove both ferrous and non-ferrous tubing from condensers, chillers and heat exchangers. Capacity from 5/8" to 1-1/2" O.D. gage 16 to 24 (16 to 38 mm O.D. wall 0,5 to 1,6 mm) from tube sheet up to 2" (50 mm)



PULLING FORCE		PULLING STROKE		PULLING SPEED	
120 kN		160 mm		17 mm/sec	
12 T		6"		0,7"/sec.	
BODY DIMENSIONS				BODY WEIGHT	
3,38" x 26,77"		86 x 680 mm		30 Lbs	13,5 kg

CPSCK-1000



For this tool we offer a spars type conversion kit.

TUBE OD		TUBE GAUGE	MIN ENTER DIM AFTER EXP.		MAX ENTER DIM AFTER EXP.		GRIPPER SET	DRAW MANDREL	NOSE PIECE	LOCK NUT	ADJUST NUT	JAW O'RING	C O'RING
[INCH]	[MM]		[INCH]	[MM]	[INCH]	[MM]							
5/8	15,88	16-17	0,506	12,85	0,545	13,84	CP-1000-01-58-16	CP-10S-03-58	CP-10S-06A-58	CP-10-LN-58	CP-10-AN-58	CP-2220	CP-1724
		18-19	0,535	13,59	0,574	14,58	CP-1000-01-58-18						
		20-21	0,562	14,27	0,602	15,29	CP-1000-01-58-20						
		22-23	0,576	14,63	0,616	15,65	CP-1000-01-58-22						
3/4	19,05	16-17	0,631	16,03	0,671	17,04	CP-1000-01-34-16	CP-10S-03-34	CP-10S-06A-34	CP-10-LN-34	CP-10-AN-34	CP-2220	CP-1724
		18-19	0,665	16,89	0,704	17,88	CP-1000-01-34-18						
		20-21	0,692	17,58	0,732	18,59	CP-1000-01-34-20						
		22-23	0,706	17,93	0,746	18,95	CP-1000-01-34-22						
7/8	22,23	16-17	0,755	19,18	0,795	20,19	CP-1000-01-78-16	CP-10S-03-78	CP-10S-06A-78	CP-10-LN-78	CP-10-AN-78	CP-2220	CP-1724
		18-19	0,787	19,99	0,826	20,98	CP-1000-01-78-18						
		20-21	0,815	20,70	0,854	21,69	CP-1000-01-78-20						
		22-23	0,828	21,03	0,868	22,05	CP-1000-01-78-22						
1	25,4	16-17	0,881	22,38	0,921	23,39	CP-1000-01-1-16	CP-10S-03-1	CP-10S-06A-1	CP-10-LN-1	CP-10-AN-1	CP-2220	CP-1724
		18-19	0,913	23,19	0,952	24,18	CP-1000-01-1-18						
		20-21	0,941	23,90	0,980	24,89	CP-1000-01-1-20						
		22-23	0,972	24,69	1,011	25,68	CP-1000-01-1-22						
1-1/4*	31,75	16-17	1,133	28,78	1,173	29,79	CP-1000-01-114-16	CP-10S-03-114	CP-10S-06A-114	CP-10-LN-114	CP-10-AN-114	CP-2220	CP-1724
		18-19	1,165	29,59	1,204	30,58	CP-1000-01-114-18						
		20-21	1,194	30,33	1,234	31,34	CP-1000-01-114-20						
		22-23	1,208	30,68	1,248	31,70	CP-1000-01-114-22						
1-1/2*	38,10	16-17	1,385	35,18	1,425	36,20	CP-1000-01-112-16	CP-10S-03-112	CP-10S-06A-112	CP-10-LN-112	CP-10-AN-112	CP-2220	CP-1724
		18-19	1,417	35,99	1,456	36,98	CP-1000-01-112-18						
		20-21	1,444	36,68	1,484	37,69	CP-1000-01-112-20						
		22-23	1,458	37,03	1,498	38,05	CP-1000-01-112-22						

* For tubes 1-1/4" i 1-1/2" SS7-381 adapter and SS10-381 joint are required!

Tube Puller CP-1000-CC

This is our lightweight unit, specifically designed for the condenser and chiller markets. An ideal tool for working within the water box of a surface condenser or within the channel head of a chiller, you can remove 4-6 tubes a minute quickly and effortlessly. Capacity from 5/8" to 1" OD, gage 16 to 24 (16 to 25 mm OD, wall 0,5 to 1,6 mm) from tube sheet up to 2" (50 mm).



PULLING FORCE		PULLING STROKE		PULLING SPEED	
150 kN		160 mm		17 mm/sec	
15 T		6"		0,7"/sec.	
BODY DIMENSIONS			BODY WEIGHT		
3,38" x 26,77"		86 x 680 mm		26,4 Lbs / 12 kg	

TUBE OD		TUBE GAUGE	MIN ENTER DIM AFTER EXP.		MAX ENTER DIM AFTER EXP.		GRIPPER SET	DRAW MANDREL	NOSE PIECE	LOCK NUT	ADJUST NUT	JAW O'RING	C O'RING
[INCH]	[MM]		[INCH]	[MM]	[INCH]	[MM]							
5/8	15,88	16-17	0,506	12,85	0,545	13,84	CP-1000-01-58-16	CP-10S-03-58	CP-10L-06A-58	CP-10-LN-58	CP-10-AN-58	CP-2220	CP-1724
		18-19	0,535	13,59	0,574	14,58	CP-1000-01-58-18						
		20-21	0,562	14,27	0,602	15,29	CP-1000-01-58-20						
		22-23	0,576	14,63	0,616	15,65	CP-1000-01-58-22						
3/4	19,05	16-17	0,631	16,03	0,671	17,04	CP-1000-01-34-16	CP-10S-03-34	CP-10L-06A-34	CP-10-LN-34	CP-10-AN-34	CP-2220	CP-1724
		18-19	0,665	16,89	0,704	17,88	CP-1000-01-34-18						
		20-21	0,692	17,58	0,732	18,59	CP-1000-01-34-20						
		22-23	0,706	17,93	0,746	18,95	CP-1000-01-34-22						
7/8	22,23	16-17	0,755	19,18	0,795	20,19	CP-1000-01-78-16	CP-10S-03-78	CP-10L-06A-78	CP-10-LN-78	CP-10-AN-78	CP-2220	CP-1724
		18-19	0,787	19,99	0,826	20,98	CP-1000-01-78-18						
		20-21	0,815	20,70	0,854	21,69	CP-1000-01-78-20						
		22-23	0,828	21,03	0,868	22,05	CP-1000-01-78-22						
1	25,4	16-17	0,881	22,38	0,921	23,39	CP-1000-01-1-16	CP-10S-03-1	CP-10L-06A-1	CP-10-LN-1	CP-10-AN-1	CP-2220	CP-1724
		18-19	0,913	23,19	0,952	24,18	CP-1000-01-1-18						
		20-21	0,941	23,90	0,980	24,89	CP-1000-01-1-20						
		22-23	0,972	24,69	1,011	25,68	CP-1000-01-1-22						

Non standard sizes on request

Tube Puller CP-1000-FF

This unit has all the features of our Standard Model CP-1000 with the additional advantage of being able to remove stubs from the waterbox of Fin Fan Coolers as well as tubes/stubs close to the shell or pass partition plates within thermal exchange units. A standard waterbox depth of X is furnished with custom depths available upon request. Capacity from 5/8" to 1-1/2" O.D. gage 16 to 38 (16 to 38 mm O.D. wall 0,5 to 1,6 mm) from tube sheet up to 2" (50 mm)



PULLING FORCE		PULLING STROKE		PULLING SPEED	
150 kN		160 mm		17 mm/sec	
15 T		6"		0,7"/sec.	
BODY DIMENSIONS				BODY WEIGHT	
3,38" x 36,61"		86 x 930 mm		32 Lbs	14,5 kg

TUBE OD		TUBE GAUGE	MIN ENTER DIM AFTER EXP.		MAX ENTER DIM AFTER EXP.		GRIPPER SET	DRAW MANDREL	NOSE PIECE	LOCK NUT	ADJUST NUT	JAW O'RING	C O'RING	JAWS HOLDER	MANDREL EXT.
[INCH]	[MM]		[INCH]	[MM]	[INCH]	[MM]									
5/8	15,88	16-17	0,506	12,85	0,545	13,84	CP-1000-01-58-16	CP-10L-03-58	CP-10S-06A-58	CP-10-LN-58	CP-10-AN-58	CP-2220	CP-1724	CP-JH-58-10"	CP-10-DM-EXT
		18-19	0,535	13,59	0,574	14,58	CP-1000-01-58-18								
		20-21	0,562	14,27	0,602	15,29	CP-1000-01-58-20								
		22-23	0,576	14,63	0,616	15,65	CP-1000-01-58-22								
3/4	19,05	16-17	0,631	16,03	0,671	17,04	CP-1000-01-34-16	CP-10L-03-34	CP-10S-06A-34	CP-10-LN-34	CP-10-AN-34	CP-2220	CP-1724	CP-JH-34-10"	CP-10-DM-EXT
		18-19	0,665	16,89	0,704	17,88	CP-1000-01-34-18								
		20-21	0,692	17,58	0,732	18,59	CP-1000-01-34-20								
		22-23	0,706	17,93	0,746	18,95	CP-1000-01-34-22								
7/8	22,23	16-17	0,755	19,18	0,795	20,19	CP-1000-01-78-16	CP-10L-03-78	CP-10S-06A-78	CP-10-LN-78	CP-10-AN-78	CP-2220	CP-1724	CP-JH-78-10"	CP-10-DM-EXT
		18-19	0,787	19,99	0,826	20,98	CP-1000-01-78-18								
		20-21	0,815	20,70	0,854	21,69	CP-1000-01-78-20								
		22-23	0,828	21,03	0,868	22,05	CP-1000-01-78-22								
1	25,4	16-17	0,881	22,38	0,921	23,39	CP-1000-01-1-16	CP-10L-03-1	CP-10S-06A-1	CP-10-LN-1	CP-10-AN-1	CP-2220	CP-1724	CP-JH-1-10"	CP-10-DM-EXT
		18-19	0,913	23,19	0,952	24,18	CP-1000-01-1-18								
		20-21	0,941	23,90	0,980	24,89	CP-1000-01-1-20								
		22-23	0,972	24,69	1,011	25,68	CP-1000-01-1-22								
1-1/4	31,75	16-17	1,133	28,78	1,173	29,79	CP-1000-01-114-16	CP-10L-03-114	CP-10S-06A-114	CP-10-LN-114	CP-10-AN-114	CP-2220	CP-1724	CP-JH-58-114"	CP-10-DM-EXT
		18-19	1,165	29,59	1,204	30,58	CP-1000-01-114-18								
		20-21	1,194	30,33	1,234	31,34	CP-1000-01-114-20								
		22-23	1,208	30,68	1,248	31,70	CP-1000-01-114-22								
1-1/2	38,10	16-17	1,385	35,18	1,425	36,20	CP-1000-01-112-16	CP-10L-03-112	CP-10S-06A-112	CP-10-LN-112	CP-10-AN-112	CP-2220	CP-1724	CP-JH-58-114"	CP-10-DM-EXT
		18-19	1,417	35,99	1,456	36,98	CP-1000-01-112-18								
		20-21	1,444	36,68	1,484	37,69	CP-1000-01-112-20								
		22-23	1,458	37,03	1,498	38,05	CP-1000-01-112-22								

We can supply the FF conversion kit to your specifications on all models of the CP-1000 and CP-1000-S.

Tube Puller HPR20-CP1500

Unit designed to pull stubs in the refinery industry. An ideal tool to pull heavy wall tubes and stubs from the heat exchangers. Unique machine design is based on the idea of replacing the traditional, slow and cumbersome method, with spear type puller. HPR20-CP1500 delivers capacity from 5/8" to 1-1/4" gauge 10 to 16, with max pulling force up to 30 ton from the tube sheet up to 2,5" (63 mm) HPR20-CP1500 is easy and fast in operation with lower operating costs.



PULLING FORCE		PULLING STROKE		PULLING SPEED	
300 kN		160 mm		34 mm/sec	
30 T		6"		1,33"/sec.	
BODY DIMENSIONS			BODY WEIGHT		
4,7" x 31,5"		120 x 800 mm		85 Lbs / 39 kg	



UNIQUE DESIGN
Unique gripper design is close to spear type pulling capacity in its tube gauge.



SPINAIR COMPATIBILITY
Tube puller may co operate with SpinAir-2H with spherical rolls .



CPPZ-4W PUMPS
KRAIS 4 way hydraulic pumps have been specifically designed to operate this tube puller.

Tube OD		Tube gauge	Gripper Set	Draw Mandrel	Nose Piece	Jaw o'ring	NS Joint	Adapter	Max Force	Pump
[inch]	[mm]	[BWG]								(700 Bar)
5/8"	15,8	14	CP-1500-01-58-14	CP-15-02-58	CP-15-03-58	CP-15-058	CP-15-06-58	CP-15-07-34	15 ton	CPPZ-4W
		15	CP-1500-01-58-15	CP-15-02-58	CP-15-03-58	CP-15-058	CP-15-06-58	CP-15-07-34	15 ton	CPPZ-4W
		16	CP-1500-01-58-16	CP-15-02-58	CP-15-03-58	CP-15-058	CP-15-06-58	CP-15-07-34	15 ton	CPPZ-4W
		17	CP-1500-01-58-17	CP-15-02-58	CP-15-03-58	CP-15-058	CP-15-06-58	CP-15-07-34	15 ton	CPPZ-4W
		18	CP-1500-01-58-18	CP-15-02-58	CP-15-03-58	CP-15-058	CP-15-06-58	CP-15-07-34	15 ton	CPPZ-4W
		19	CP-1500-01-58-19	CP-15-02-58	CP-15-03-58	CP-15-058	CP-15-06-58	CP-15-07-34	15 ton	CPPZ-4W
		20	CP-1500-01-58-20	CP-15-02-58	CP-15-03-58	CP-15-058	CP-15-06-58	CP-15-07-34	15 ton	CPPZ-4W
		21	CP-1500-01-58-21	CP-15-02-58	CP-15-03-58	CP-15-058	CP-15-06-58	CP-15-07-34	15 ton	CPPZ-4W
3/4"	19,05	22	CP-1500-01-58-22	CP-15-02-58	CP-15-03-58	CP-15-058	CP-15-06-58	CP-15-07-34	15 ton	CPPZ-4W
		12	CP-1500-01-34-12	CP-15-02-34	CP-15-03-34	CP-15-034	CP-15-06-34	CP-15-07-34	20 ton	CPPZ-4W
		13	CP-1500-01-34-13	CP-15-02-34	CP-15-03-34	CP-15-034	CP-15-06-34	CP-15-07-34	20 ton	CPPZ-4W
		14	CP-1500-01-34-14	CP-15-02-34	CP-15-03-34	CP-15-034	CP-15-06-34	CP-15-07-34	20 ton	CPPZ-4W
		15	CP-1500-01-34-15	CP-15-02-34	CP-15-03-34	CP-15-034	CP-15-06-34	CP-15-07-34	20 ton	CPPZ-4W
		16	CP-1500-01-34-16	CP-15-02-34	CP-15-03-34	CP-15-034	CP-15-06-34	CP-15-07-34	20 ton	CPPZ-4W
		17	CP-1500-01-34-17	CP-15-02-34	CP-15-03-34	CP-15-034	CP-15-06-34	CP-15-07-34	20 ton	CPPZ-4W
		18	CP-1500-01-34-18	CP-15-02-34	CP-15-03-34	CP-15-034	CP-15-06-34	CP-15-07-34	20 ton	CPPZ-4W
7/8"	22,2	19	CP-1500-01-34-19	CP-15-02-34	CP-15-03-34	CP-15-034	CP-15-06-34	CP-15-07-34	20 ton	CPPZ-4W
		20	CP-1500-01-34-20	CP-15-02-34	CP-15-03-34	CP-15-034	CP-15-06-34	CP-15-07-34	20 ton	CPPZ-4W
		21	CP-1500-01-34-21	CP-15-02-34	CP-15-03-34	CP-15-034	CP-15-06-34	CP-15-07-34	20 ton	CPPZ-4W
		22	CP-1500-01-34-22	CP-15-02-34	CP-15-03-34	CP-15-034	CP-15-06-34	CP-15-07-34	20 ton	CPPZ-4W
		12	CP-1500-01-78-12	CP-15-02-78	CP-15-03-78	CP-15-034	CP-15-06-34	CP-15-07-34	20 ton	CPPZ-4W
		13	CP-1500-01-78-13	CP-15-02-78	CP-15-03-78	CP-15-034	CP-15-06-34	CP-15-07-34	20 ton	CPPZ-4W
		14	CP-1500-01-78-14	CP-15-02-78	CP-15-03-78	CP-15-034	CP-15-06-34	CP-15-07-34	20 ton	CPPZ-4W
		15	CP-1500-01-78-15	CP-15-02-78	CP-15-03-78	CP-15-034	CP-15-06-34	CP-15-07-34	20 ton	CPPZ-4W
7/8"	22,2	16	CP-1500-01-78-16	CP-15-02-78	CP-15-03-78	CP-15-034	CP-15-06-34	CP-15-07-34	20 ton	CPPZ-4W
		17	CP-1500-01-78-17	CP-15-02-78	CP-15-03-78	CP-15-034	CP-15-06-34	CP-15-07-34	20 ton	CPPZ-4W
		18	CP-1500-01-78-18	CP-15-02-78	CP-15-03-78	CP-15-034	CP-15-06-34	CP-15-07-34	20 ton	CPPZ-4W

Tube OD		Tube gauge	Gripper Set	Draw Mandrel	Nose Piece	Jaw o'ring	NS Joint	Adapter	Max Force	Pump
[inch]	[mm]	[BWG]								(700 Bar)
1"	25,4	8	CP-1500-01-1-8	CP-15-02-1	CP-15-03-1	CP-15-034	CP-15-06-34	CP-15-07-34	30 ton	CPPZ-4W
		8	CP-1500-01-1-9	CP-15-02-1	CP-15-03-1	CP-15-034	CP-15-06-34	CP-15-07-34	30 ton	CPPZ-4W
		10	CP-1500-01-1-10	CP-15-02-1	CP-15-03-1	CP-15-034	CP-15-06-34	CP-15-07-34	30 ton	CPPZ-4W
		11	CP-1500-01-1-11	CP-15-02-1	CP-15-03-1	CP-15-034	CP-15-06-34	CP-15-07-34	30 ton	CPPZ-4W
		12	CP-1500-01-1-12	CP-15-02-1	CP-15-03-1	CP-15-034	CP-15-06-34	CP-15-07-34	30 ton	CPPZ-4W
		13	CP-1500-01-1-13	CP-15-02-1	CP-15-03-1	CP-15-034	CP-15-06-34	CP-15-07-34	30 ton	CPPZ-4W
		14	CP-1500-01-1-14	CP-15-02-1	CP-15-03-1	CP-15-034	CP-15-06-34	CP-15-07-34	30 ton	CPPZ-4W
		15	CP-1500-01-1-15	CP-15-02-1	CP-15-03-1	CP-15-034	CP-15-06-34	CP-15-07-34	30 ton	CPPZ-4W
		16	CP-1500-01-1-16	CP-15-02-1	CP-15-03-1	CP-15-034	CP-15-06-34	CP-15-07-34	30 ton	CPPZ-4W
		17	CP-1500-01-1-17	CP-15-02-1	CP-15-03-1	CP-15-034	CP-15-06-34	CP-15-07-34	30 ton	CPPZ-4W
		18	CP-1500-01-1-18	CP-15-02-1	CP-15-03-1	CP-15-034	CP-15-06-34	CP-15-07-34	30 ton	CPPZ-4W
1-1/8"	28,5	8	CP-1500-01-118-8	CP-15-02-118	CP-15-03-118	CP-15-114	CP-15-06-114	CP-15-07-114	30 ton	CPPZ-4W
		9	CP-1500-01-118-9	CP-15-02-118	CP-15-03-118	CP-15-114	CP-15-06-114	CP-15-07-114	30 ton	CPPZ-4W
		10	CP-1500-01-118-10	CP-15-02-118	CP-15-03-118	CP-15-114	CP-15-06-114	CP-15-07-114	30 ton	CPPZ-4W
		11	CP-1500-01-118-11	CP-15-02-118	CP-15-03-118	CP-15-114	CP-15-06-114	CP-15-07-114	30 ton	CPPZ-4W
		12	CP-1500-01-118-12	CP-15-02-118	CP-15-03-118	CP-15-114	CP-15-06-114	CP-15-07-114	30 ton	CPPZ-4W
		13	CP-1500-01-118-13	CP-15-02-118	CP-15-03-118	CP-15-114	CP-15-06-114	CP-15-07-114	30 ton	CPPZ-4W
		14	CP-1500-01-118-14	CP-15-02-118	CP-15-03-118	CP-15-114	CP-15-06-114	CP-15-07-114	30 ton	CPPZ-4W
		15	CP-1500-01-118-15	CP-15-02-118	CP-15-03-118	CP-15-114	CP-15-06-114	CP-15-07-114	30 ton	CPPZ-4W
		16	CP-1500-01-118-16	CP-15-02-118	CP-15-03-118	CP-15-114	CP-15-06-114	CP-15-07-114	30 ton	CPPZ-4W
		17	CP-1500-01-118-17	CP-15-02-118	CP-15-03-118	CP-15-114	CP-15-06-114	CP-15-07-114	30 ton	CPPZ-4W
		18	CP-1500-01-118-18	CP-15-02-118	CP-15-03-118	CP-15-114	CP-15-06-114	CP-15-07-114	30 ton	CPPZ-4W
1-1/4"	31,7	8	CP-1500-01-317-8	CP-15-02-114	CP-15-03-114	CP-15-114	CP-15-06-114	CP-15-07-114	30 ton	CPPZ-4W
		9	CP-1500-01-317-9	CP-15-02-114	CP-15-03-114	CP-15-114	CP-15-06-114	CP-15-07-114	30 ton	CPPZ-4W
		10	CP-1500-01-317-10	CP-15-02-114	CP-15-03-114	CP-15-114	CP-15-06-114	CP-15-07-114	30 ton	CPPZ-4W
		11	CP-1500-01-317-11	CP-15-02-114	CP-15-03-114	CP-15-114	CP-15-06-114	CP-15-07-114	30 ton	CPPZ-4W
		12	CP-1500-01-317-12	CP-15-02-114	CP-15-03-114	CP-15-114	CP-15-06-114	CP-15-07-114	30 ton	CPPZ-4W
		13	CP-1500-01-317-13	CP-15-02-114	CP-15-03-114	CP-15-114	CP-15-06-114	CP-15-07-114	30 ton	CPPZ-4W
		14	CP-1500-01-317-14	CP-15-02-114	CP-15-03-114	CP-15-114	CP-15-06-114	CP-15-07-114	30 ton	CPPZ-4W
		14	CP-1500-01-317-15	CP-15-02-114	CP-15-03-114	CP-15-114	CP-15-06-114	CP-15-07-114	30 ton	CPPZ-4W
		16	CP-1500-01-317-16	CP-15-02-114	CP-15-03-114	CP-15-114	CP-15-06-114	CP-15-07-114	30 ton	CPPZ-4W
		17	CP-1500-01-317-17	CP-15-02-114	CP-15-03-114	CP-15-114	CP-15-06-114	CP-15-07-114	30 ton	CPPZ-4W
		18	CP-1500-01-317-18	CP-15-02-114	CP-15-03-114	CP-15-114	CP-15-06-114	CP-15-07-114	30 ton	CPPZ-4W

▶ HPR-CP2000 Tube Puller

HPR-CP2000 KRAIS gripper-type tube puller is designed for pulling 1-1/4" thru 2-1/2" OD tubes in heat exchangers and fire tube boilers. This gripper type tube puller makes tube pulling faster and easier. See selection charts below for ordering grippers, draw bars and components for the tube sizes being pulled.



PULLING FORCE		PULLING STROKE		PULLING SPEED	
300 kN		160 mm		34 mm/sec	
30 T		6"		1,33"/sec.	
BODY DIMENSIONS			BODY WEIGHT		
4,7" x 31,5"		120 x 800 mm		85 Lbs / 39 kg	

TUBE OD		TUBE GAUGE	GRIPPER SET	DRAW MANDREL	NOSE PIECE	LOCK NUT	ADJUST NUT	JAW O'RING	JOINT	ADAPTER	JAWS LOCKING RING	SPRING
[INCH]	[MM]											
1-1/4	31,75	12	CP-2000-01-114-12	CP-30-02-114	CP-30-03-114	CP-30-04-114	CP-30-05-114	CP-30-0114	CP-30-06-112	CP-30-07-112	CP-30-08-112	CP-30-09-112
		13	CP-2000-01-114-13									
		14	CP-2000-01-114-14									
		15-16	CP-2000-01-114-15									
		17-18	CP-2000-01-114-17									
1-1/2	38,10	8	CP-2000-01-112-8	CP-30-02-112	CP-30-03-112	CP-30-04-112	CP-30-05-112	CP-30-0112	CP-30-06-112	CP-30-07-112	CP-30-08-112	CP-30-09-112
		9	CP-2000-01-112-9									
		10	CP-2000-01-112-10									
		11	CP-2000-01-112-11									
		12	CP-2000-01-112-12									
		13	CP-2000-01-112-13									
		14	CP-2000-01-112-14									
		15-16	CP-2000-01-112-15									
		17-18	CP-2000-01-112-17									
19-20	CP-2000-01-112-19											
1-3/4	44,45	8	CP-2000-01-175-8	CP-30-02-175	CP-30-03-175	CP-30-04-175	CP-30-05-175	CP-30-0175	CP-30-06-200	CP-30-07-200	CP-30-08-200	CP-30-09-200
		9	CP-2000-01-175-9									
		10	CP-2000-01-175-10									
		11	CP-2000-01-175-11									
		12	CP-2000-01-175-12									
		13	CP-2000-01-175-13									
		14	CP-2000-01-175-14									
		15-16	CP-2000-01-175-15									
17-18	CP-2000-01-175-17											
2	50,80	6	CP-2000-01-200-6	CP-30-02-200	CP-30-03-200	CP-30-04-200	CP-30-05-200	CP-30-0200	CP-30-06-200	CP-30-07-200	CP-30-08-200	CP-30-09-200
		7	CP-2000-01-200-7									
		8	CP-2000-01-200-8									
		9	CP-2000-01-200-9									
		10	CP-2000-01-200-10									
		11	CP-2000-01-200-11									
		12	CP-2000-01-200-12									
		13	CP-2000-01-200-13									
		14	CP-2000-01-200-14									
		15-16	CP-2000-01-200-15									
		17-18	CP-2000-01-200-17									

Super Jenny Semi-Automatic Tube Puller

Super Jenny Series of Hydraulic Semi-Automatic Tube Pullers, allows the user to continuously pull tubes through heat exchangers, condensers and boilers, without the use of hammers or winches etc. The key to the system is the OD gripping jaw that will pull the tube as the operator actuates the ram.



30-TON "SUPER-JENNY"

30-ton puller is the workhorse of industry. Available with either a 3" or 6" stroke. This tool is capable of pulling 5/8" – 1-1/4" tubes continuously. It can even pull up to 3" stubs in specific applications.

TUBE OD		TUBE GAUGE	PULLING SPEAR	PULLING JAW	NOSE COLLAR	O-RING	JAW SPRING	SPEAR-MALE
[INCH]	[MM]							
5/8"	15,88	13-16	K-6011	K-3032	K-0625	K-0006	K-0303	1/2"
		18-24	K-6012	K-3032	K-0625	K-0006	K-0303	1/2"
3/4"	19,05	10-12	K-6020	K-3042	K-0750	K-0006	K-0303	5/8"
		13-16	K-6021	K-3042	K-0750	K-0006	K-0303	5/8"
		18-24	K-6022	K-3042	K-0750	K-0006	K-0303	5/8"
7/8"	22,23	10-12	K-6030	K-3047	K-0875	K-0006	K-0303	5/8"
		13-16	K-6031	K-3047	K-0875	K-0006	K-0303	5/8"
		18-24	K-6032	K-3047	K-0875	K-0006	K-0303	5/8"
1"	25,4	10-12	K-6040	K-3052	K-1000	K-0006	K-0303	3/4"
		13-16	K-6041	K-3052	K-1000	K-0006	K-0303	3/4"
		18-24	K-6042	K-3052	K-1000	K-0006	K-0303	3/4"
1-1/4"	31,75	10-12	K-6060	K-3072	K-1250	K-0006	K-0303	1"
		13-16	K-6061	K-3072	K-1250	K-0006	K-0303	1"
		18-24	K-6062	K-3072	K-1250	K-0006	K-0303	1"

10-TON "MINI-JENNY"

Smallest puller, has been specifically designed for chiller and condenser work. Weighing in at just 18 lbs. (6 kg), this 10-ton capacity ram can pull up to 1" OD tubes. With a 3" stroke, this unit is exceptionally quick, and is ideal for tight access applications.

TUBE OD		TUBE GAUGE	PULLING SPEAR	PULLING JAW	NOSE COLLAR	O-RING	JAW SPRING	SPEAR-MALE
[INCH]	[MM]							
5/8"	15,88	13-16	K-6011	K-3031	K-0625M	K-0046	K-0302	1/2"
		18-24	K-6012	K-3031	K-0625M	K-0046	K-0302	1/2"
3/4"	19,05	10-12	K-6020	K-3041	K-0750M	K-0046	K-0302	5/8"
		13-16	K-6021	K-3041	K-0750M	K-0046	K-0302	5/8"
		18-24	K-6022	K-3041	K-0750M	K-0046	K-0302	5/8"
7/8"	22,23	10-12	K-6030	K-3046	K-0875M	K-0046	K-0302	5/8"
		13-16	K-6031	K-3046	K-0875M	K-0046	K-0302	5/8"
		18-24	K-6032	K-3046	K-0875M	K-0046	K-0302	5/8"
1"	25,4	10-12	K-6040	K-3051	K-1000M	K-0046	K-0302	3/4"
		13-16	K-6041	K-3051	K-1000M	K-0046	K-0302	3/4"
		18-24	K-6042	K-3051	K-1000M	K-0046	K-0302	3/4"

60-TON "SUPER-JENNY"

Biggest 60-ton "Super-Jenny" has been designed to pull tubes in the toughest applications. As standard, the unit can pull 1 1/2"-2" tubes. As a special, an adapter is offered which will allow the operator to pull smaller diameter tubes with up to 60 tons of pulling force.

For example, a tube extraction of 1 1/4" x 10 BWG with a 7" tube sheet was noted to pull at 52 tons of pulling force.

TUBE OD		TUBE GAUGE	PULLING SPEAR	PULLING JAW	NOSE COLLAR	O-RING	JAW SPRING	SPEAR-MALE
[INCH]	[MM]							
1-1/2"	38,10	10-12	K-6070	K-3211	K-3212	K-0015	18.2321	1"
		13-16	K-6071	K-3211	K-3212	K-0015	18.2321	1"
		18-24	K-6072	K-3211	K-3212	K-0015	18.2321	1"
1-3/4"	44,45	10-12	K-6080	K-3216	K-3217	K-0015	18.2321	1"
		13-16	K-6081	K-3216	K-3217	K-0015	18.2321	1"
		18-24	K-6082	K-3216	K-3217	K-0015	18.2321	1"
2"	63,50	7-8	K-6090	K-3221	K-3222	K-0015	18.2321	1"
		10-12	K-6091	K-3221	K-3222	K-0015	18.2321	1"
		13-16	K-6092	K-3221	K-3222	K-0015	18.2321	1"

ACTP - Automatic, continuous toolset for tube pulling

The KRAIS ACTP is an automatic tube pulling system consists of a very fast pump and pulling gun. It is designed for continuous removal of tubes from boilers, condensers and heat exchangers.

Automation provides significant time savings compared to conventional systems. Tubes can be continuously pulled from between 16 mm (5/8") OD and 63 mm (2,5") OD. A choice of super heavy duty 17, 36 and 45 Ton pulling gun options are available.

The basic version ACTP is a fully hydraulic system - it guarantees safety and eliminates the need for electric wires between the pump and the gun. ACTP is also available with a choice of the electric or pneumatic drive for use in potentially explosive environments.

ADVANTAGES OF KRAIS ACTP

- › tubes extraction takes place without damaging the tube sheet,
- › hydraulic RAM ensures smooth and stable operation,
- › automatic switching from low pressure to high depending on the RAM demand,
- › high power translates into a short duration of the extraction cycle,
- › the possibility of using different pulling guns with the same pump,
- › compact design, short installation time and ease of use.



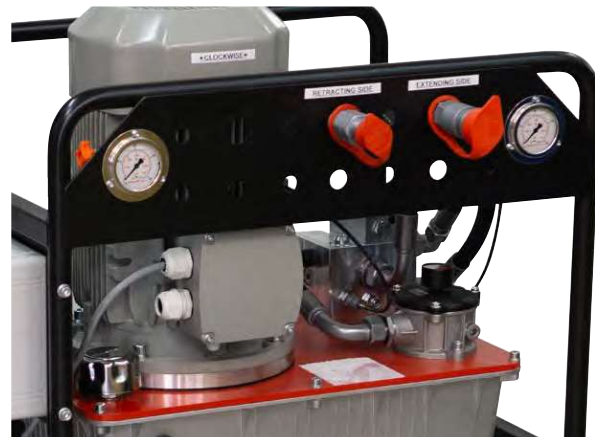
PULLING GUN	POWER	PULLING STROKE		PULLING SPEED		TUBE OD [MM]		TUBE OD [INCH]		WEIGHT
		[MM]	[INCH]	[M/MIN]	[INCH/MIN]	MIN	MAX	MIN	MAX	
ACTP-17	17 ton	150	6"	7	275	12,7	25,4	1/2"	1"	34 kg
ACTP-36	36 ton	150	6"	3,5	137	15,9	38,0	5/8"	1-1/2"	64 kg
ACTP-45	45 ton	100	4"	1,5	60	38,0	63,0	1-1/2"	2-1/2"	83 kg

PUMP CHOICE



ACTP is available with a choice of electric or pneumatic drive for use in potentially explosive environments.

EASY TO USE CONNECTORS



Pumps for ACTP are equipped with convenient meters and connectors with easy and convenient access. All parts are made with high attention to details.



CONSUMABLES FOR ACPG-4 (4 TON)

TUBE OD		BWG	PULLING SPEAR	PULLING JAWS	FRONT SPRING	HOLD JAWS	BACK SPRING
[INCH]	[MM]						
5/8"	15,88	13-16	K-6011	K-3031	K-0302	K-3031	K-0301
		18-24	K-6012				
3/4"	19,05	10-12	K-6020	K-3041	K-0302	K-3041	K-0301
		13-16	K-6021				
		18-24	K-6022				
		10-12	K-6030				
7/8"	22,23	13-16	K-6031	K-3046	K-0302	K-3046	K-0301
		18-24	K-6032				
		10-12	K-6040				
1"	25,4	13-16	K-6041	K-3051	K-0302	K-3051	K-0301
		18-24	K-6042				



CONSUMABLES FOR ACPG-17 (17 TON)

TUBE OD		BWG	PULLING SPEAR	PULLING JAWS	FRONT SPRING	HOLD JAWS	BACK SPRING
[INCH]	[MM]						
5/8"	15,88	13-16	K-6011	K-3032	K-0302	K-3031	K-0301
		18-24	K-6012				
3/4"	19,05	10-12	K-6020	K-3042	K-0302	K-3041	K-0301
		13-16	K-6021				
		18-24	K-6022				
		10-12	K-6030				
7/8"	22,23	13-16	K-6031	K-3047	K-0302	K-3046	K-0301
		18-24	K-6032				
		10-12	K-6040				
1"	25,4	13-16	K-6041	K-3052	K-0302	K-3051	K-0301
		18-24	K-6042				



CONSUMABLES FOR ACPG-36 (36 TON)

TUBE OD		BWG	PULLING SPEAR	PULLING JAWS	FRONT SPRING	HOLD JAWS	BACK SPRING
[INCH]	[MM]						
5/8"	15,88	13-16	K-6011	K-3030	K-0303	K-3032	K-0303
		18-24	K-6012				
3/4"	19,05	10-12	K-6020	K-3040	K-0303	K-3042	K-0303
		13-16	K-6021				
		18-24	K-6022				
		10-12	K-6030				
7/8"	22,23	13-16	K-6031	K-3045	K-0303	K-3047	K-0303
		18-24	K-6032				
1"	25,4	10-12	K-6040	K-3050	K-0303	K-3052	K-0303
		13-16	K-6041				
		18-24	K-6042				
1-1/4"	31,75	10-12	K-6060	K-3070	K-0303	K-3072	K-0303
		13-16	K-6061				
		18-24	K-6062				
1-1/2"	38,10	10-12	K-6070	K-3090	K-0303	K-3092	K-0303
		13-16	K-6071				
		18-24	K-6072				

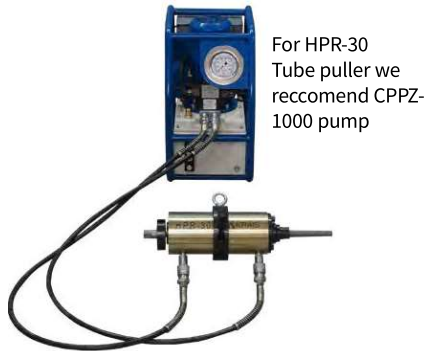


CONSUMABLES FOR ACPG-45 (45 TON)

TUBE OD		BWG	PULLING SPEAR	PULLING JAWS	SPRING	HOLD JAWS
[INCH]	[MM]					
1-1/2"	38,10	10-12	K-6070	K-3210	K-2321	K-3211
		13-16	K-6071			
		18-24	K-6072			
1-3/4"	44,45	10-12	K-6080	K-3215	K-2321	K-3216
		13-16	K-6081			
		18-24	K-6082			
2"	50,8	7-8	K-6090	K-3220	K-2321	K-3221
		10-12	K-6091			
		13-16	K-6092			
2-1/4"	57,1	10-12	K-7000	K-3230	K-2321	K-3231
		13-16	K-7001			
		18-24	K-7002			
2-1/2"	63,5	10-12	K-7010	K-3240	K-2321	K-3241
		13-16	K-7011			
		18-24	K-7012			

🚩 HPR-30 Tube Puller

HPR-30 is a heavy-duty, 30 Ton Pulling Ram. This tool has been engineered with a 6" pull stroke for challenging tube removal applications. It is fitted with a flush face, non-drip, couplings and its own custom suspension and handling bracket. In conjunction with Double Pull Adaptor, this machine has the captivity to pull the tube 9" from the tube sheet.



For HPR-30 Tube puller we recommend CPPZ-1000 pump

🚩 HPR-12 Tube Puller

HPR-12 is a heavy-duty, 12 Ton Pulling Ram. This tool has been engineered with a 6" pull stroke for challenging tube removal applications. It is fitted with a flush face, non-drip, couplings and its own custom suspension and handling bracket. In conjunction with Double Pull Adaptor, this machine has the captivity to pull the tubes from 1/2" to 1" from the tube sheet.

🚩 Tube Spears for HPR Tube Puller

LENGTH 5,433" (138 MM) WITH 1-1/4 FLAT SIZE (HEX)



TUBE SIZE			TOOL NO.	SMALL END DIAMETER		LARGE END DIAMETER	
[INCH]	[MM]	GA		[INCH]	[MM]	[INCH]	[MM]
1-1/4"	31,75	7-8	ATS-1250-7-8	0,856	21,7	1,114	28,3
		10-11	ATS-1250-10-11	0,977	24,8	1,206	30,6
		12-13	ATS-1250-10-11	1,027	26,1	1,256	31,9
		14-15	ATS-1250-14-15	1,079	27,4	1,308	33,2
		16-18	ATS-1250-16-18	1,115	28,3	1,344	34,1
1-1/2"	38,10	10-11	ATS-1500-10-11	1,227	31,2	1,456	37,0
		12-13	ATS-1500-12-13	1,227	31,2	1,500	38,1
		14	ATS-1500-14	1,329	33,8	1,500	38,1

LENGTH 8,750" (223 MM) WITH 7/8 FLAT SIZE (HEX)



TUBE SIZE			TOOL NO.	SMALL END DIAMETER		LARGE END DIAMETER	
[INCH]	[MM]	GA		[INCH]	[MM]	[INCH]	[MM]
1/2"	12,70	20	ATS-500-20	0,427	10,8	0,499	12,7
5/8"	15,88	12-13	ATS-625-12-13	0,402	10,2	0,610	15,5
		14-15	ATS-625-14-15	0,454	11,5	0,662	16,8
		16-17	ATS-625-16-17	0,489	12,4	0,625	15,9
		18-19	ATS-625-18-19	0,521	13,2	0,625	15,9
		20	ATS-625-20	0,545	13,8	0,620	15,7
3/4"	19,05	10	ATS-750-10	0,454	11,5	0,662	16,8
		11-13	ATS-750-11-13	0,505	12,8	0,713	18,1
		14-15	ATS-750-14-15	0,597	15,2	0,750	19,1
		16-17	ATS-750-16-17	0,614	15,6	0,750	19,1
		18-19	ATS-750-18-19	0,646	16,4	0,750	19,1
7/8"	22,23	20	ATS-750-20	0,670	17,0	0,745	18,9
		14-15	ATS-875-14-15	0,699	17,8	0,875	22,2
		16-18	ATS-875-16-18	0,740	18,8	0,948	24,1
1"	25,4	20	ATS-875-20	0,800	20,3	0,874	22,2
		9-10	ATS-1 000-9-10	0,699	17,8	0,875	22,2
		11-13	ATS-1000-11-13	0,755	19,2	0,963	24,5
		12-13	ATS-1000-12-1 3	0,777	19,7	0,985	25,0
		14-15	ATS-1000-14-15	0,829	21,1	1,000	25,4
16-17	ATS-1000-16-17	0,869	22,1	1,000	25,4		
18-20	ATS-1000-18-20	0,896	22,8	1,000	25,4		

Spears sizes of up to 3" on request

Accessories for HPR-30 tube puller

D-3055-7 RAM CHAIR



TUBE SIZE	TOOL NO
1-1/4"	D-3055-7
1-1/2"	D-3055-8
1-3/4"	D-3055-9
2"	D-3055-10
2-1/2"	D-3055-11

For tube sizes from 3/8" to 1" the following are required:

- 】 Either Single or Double Pull Adaptor
- 】 Tube Puffing Spear to suit
- 】 Horse Shoe Lock Adaptor
- 】 Load Cap

For tube sizes from 1-1/8" to 2-1/2" the following are required:

- 】 Either Single or Double Pull Adaptor
- 】 Tube Pulling Spear to suit
- 】 Male x Male Adaptor
- 】 Horse Shoe Lock Adaptor
- 】 Ram Chair of Choice

NOTE!

M x F Adaptors are used when additional reach is required in 12" increments. An example of this is when pulling tubes close to shell, and having the puller operating 24" away from the Tube Sheet. In this instance 2 each M x F Adaptors would be used in conjunction with either a single or double pull adaptor. For this example a strong back or extended ram chair would also be required.

D-3055-2 SINGLE PULL ADAPTOR



D-3055-3D DOUBLE ADAPTOR



D-3055-6 MALE X FEMALE ADAPTOR



D-3055-5 MALE X MALE ADAPTOR



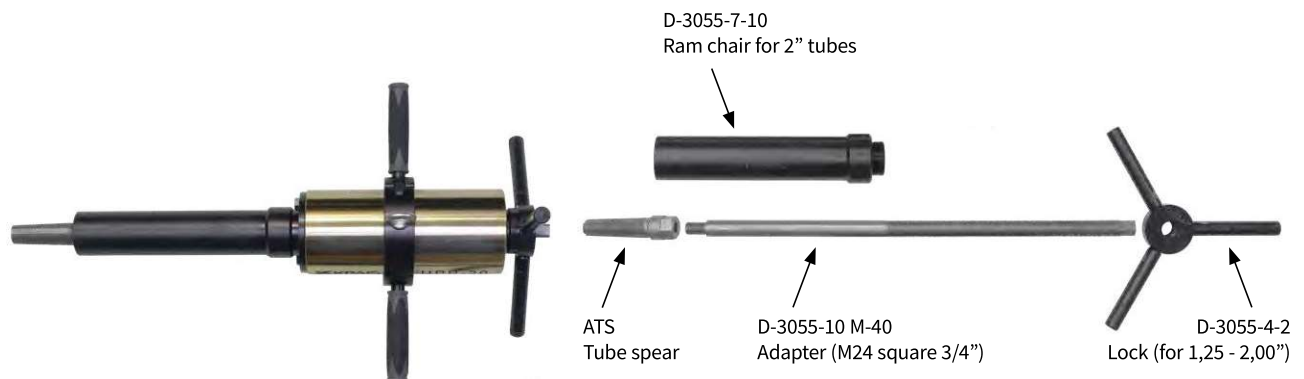
D-3055-4 HORSE SHOE LOCK



D-3055-1 LOAD CAP



HPR-30 Setup for stubs 1 1/4" and up



Tube SpinAIR

Pneumatic tube spinner is designed to remove and flatten non ferrous tubes from 5/8" to 1 1/4" OD. Can also be used to extract ferrous tubes from 5/8" to 1 1/2" OD using special shaped rolls sized to fit each tube.

SPINAIR FEATURES

- ▶ Pulling rolls are made from tool steel and hardened for extended life.
- ▶ High quality, strength construction body is made from aircraft grade aluminium and is anodized for high corrosion resistance.
- ▶ Nose piece and bearing caps are made from stainless steel for corrosion resistance
- ▶ Fully sealed bearings guarantee thousands of hours trouble free operation!



SELECTION GUIDE

	PULLING SPEED	TORQUE		PULLING FORCE	AIR CONSUMPTION		AIR PRESSURE		MAX MOTOR POWER
TUBE SPINAIR-12	12 m/min	1183 Nm	872,25 Ft.Lbs	2,50 Ton	2 x 2300 l/min	2 x 75 cfm	6,2 bar	90 psi	2 x 3,0 Hp
TUBE SPINAIR-20	20 m/min	886 Nm	653,48 Ft.Lbs	1,80 Ton	2 x 2300 l/min	2 x 75 cfm	6,2 bar	90 psi	2 x 3,0 Hp
TUBE SPINAIR-40	40 m/min	960 Nm	708,06 Ft.Lbs	1,95 Ton	2 x 2800 l/min	2 x 95 cfm	6,2 bar	90 psi	2 x 3,5 Hp

TUBE SPINAIR HYDRAULIC



Hydraulic tube spinner SpinAir H is designed to perform the same tasks as the pneumatic version.

SpinAir H specification

Pulling speed: up to 70 m per minute (depends on pump)
 Standard configuration: 1" non ferrous tubes
 Body construction: aircraft grade aluminium, tool steel stainless.
 Weight: 50 kg
 Size: 160 x 220 x 350 mm

Pump Requirements

Min: 40 l/min at 2000 psi (gives approximately 30 m/min);
 Max: 100 l/min at 2250 psi (gives approximately 70 m/min);
 Forward and reverse oil flow.

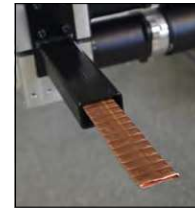
It is recommended that the pump should be controlled by pedant with a forward and reverse lever attached to the Tube Traveller head. Variable flow control preferred.

SPHERICAL ROLLS



Optional, spherical rolls for tubes bigger than GA16.

TUBE SPINAIR AT WORK



CPPZ-1000

KRAIS Hydraulic Pumps have been designed to exacting standards to provide the maximum productivity from a lightweight pump, specifically designed for tough tube pulling applications.

STANDARD FEATURES

- 】 Two Speed Pump for High Performance
- 】 Light Weight and Portable
- 】 Safe Cage as Standard
- 】 10 ft. Remote Pendant
- 】 2-1/2 Gallon (9,5 liter) Metal Reservoir
- 】 Large Pressure Gauge



SELECTION GUIDE FOR PUMPS

MODEL NUMBER	MAX OUTPUT		AMP DRAW FOR MAX OUTPUT	OIL DELIVERY			
	PSI	BAR		100 PSI 6,9 BAR	1015 PSI 70 BAR	5 000 PSI 350 BAR	10 000 PSI 690 BAR
CPPZ-1000 Electric	10000	690	25 Amps 230V & 110V	678 inch ³ /min 11,3 l/min	426 inch ³ /min 4,7 l/min	72 inch ³ /min 1,2 l/min	54 inch ³ /min 1,1 l/min
PE-554 Electric	10000	690	25 Amps 230V	678 inch ³ /min 11,3 l/min	426 inch ³ /min 7,1 l/min	72 inch ³ /min 1,2 l/min	54 inch ³ /min 1,1 l/min
PA-554 Pneumatic	10000	690	Required 1,4 CU.M/MIN at 6 Bar	678 inch ³ /min 11,3 l/min	426 inch ³ /min 7,1 l/min	72 inch ³ /min 1,2 l/min	54 inch ³ /min 0,9 l/min

CPPZ-1000 - RECOMMENDATION

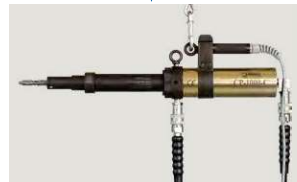
The most popular pump for wide range of pullers is CPPZ-1000.



Super Jenny



HPR-30



CP 1000 SERIES