

## TUBE CUTTER-ATP TYPE



### Features:

- ❖ Push type internal tube cutter quickly cuts through the walls of ferrous tube in condenser or Heat Exchangers.
- ❖ This sturdy tube cutter can be used with portable Electric or Air Drill Motor.
- ❖ Standard adjustable reach is 4" (101.6mm), Extra reach also available in increments of 2" (50.8mm).

TUBE SIZE (inch)	Tube gauge (BWG)	Tube cutter Model	Spare tool bit Model
5/8"	14 – 22	ATP-625	ATP-625-SB
3/4"	14 – 22	ATP-750	ATP-750-SB
7/8"	14 – 22	ATP-875	ATP-875-SB
1"	14 – 22	ATP-1000	ATP-1000-SB
1.1/8"	14 – 22	ATP-1125	ATP-1125-SB
1.1/4"	14 – 22	ATP-1250	ATP-1250-SB
1.1/2"	14 – 22	ATP-1500	ATP-1500-SB

### Features:

- Available for Tube Size: 5/8" - 2" OD (16.0 – 50.8mm)
- Adjustable Range : 4.7/16" (110.0mm)
- Longer reach also Available.  
A Reach: 7.7/16" (188.0mm)  
C Reach: 10.15/16" (277.0mm)
- Two piece body and mandrel construction allows for Quick & Easy Tool Bit Replacement. Internal Tube cutter come with complete set with Pilot & two spare Tool Bit.
- NOTE : BITS SOLD AS SET 2 BITS PER SET

## TUBE CUTTER-ITC TYPE



Tube OD inch(mm)	Tube Gauge (BWG)	Model No	Tool bit Non-Ferrous	Tool bit Ferrous	Tool bit Stainless
5/8" (16.0mm)	16 – 20 BWG	ITC – 625	ITC – 626	ITC – 626 – F	ITC – 626 – S
3/4" (19.0mm)	14 – 20 BWG	ITC – 750	ITC – 756	ITC – 756 – F	ITC – 756 – S
7/8" ( 22.0mm)	16 – 20 BWG	ITC – 875	ITC – 876	ITC – 876 – F	ITC – 876 – S
1" ( 25.0mm)	12 – 20 BWG	ITC - 1000	ITC – 1006	ITC – 1006 – F	ITC – 1006 – S

## OTC TYPE



- OTC Tube Cutter is ideal for cutting thin walled Tube.
- OTC Tube Cutters designed for Hand operation using Ratchet handle.
- OTC Tube Cutter Standard adjustable reach is 4" (101.6mm).

TUBE OD		TUBE GAUGE (BWG)	TUBE I.D.		TUBE CUTTER MODEL	TOOL BIT MODEL
mm	inch		Mm	inch		
15.87	5/8"	14	11.4 – 11.9	.450 – .470	OTC-625-14	OTC-625-B
		15 – 16	12.0 – 12.9	.472 – .510	OTC-625-16	
		17 – 18	12.7 – 13.5	.500 – .531	OTC-625-18	
		19 – 20	13.5 – 14.2	.531 – .560	OTC-625-20	
		22	14.0 – 14.7	.550 – .580	OTC-625-22	
19.05	3/4"	14 – 15	14.7 – 15.5	.580 – .610	OTC-750-14	OTC-750-B
		16	15.2 – 16.0	.600 – .630	OTC-750-16	
		17 – 18	15.9 – 16.5	.625 – .650	OTC-750-18	
		19 – 20	16.7 – 17.5	.660 – .690	OTC-750-20	
22.22	7/8"	14 – 15	17.8 – 18.5	.700 – .730	OTC-875-14	OTC-875-B
		16 – 17	18.8 – 19.5	.740 – .770	OTC-875-16	
		18	19.3 – 20.0	.760 – .790	OTC-875-18	
		19 – 20	19.8 – 20.6	.780 – .810	OTC-875-20	
25.4	1"	14	20.8 – 21.6	.820 – .850	OTC-1000-14	OTC-1000-B
		15	21.3 – 22.1	.840 – .870	OTC-1000-15	
		16 – 17	22.1 – 22.6	.860 – .890	OTC-1000-16	
		18 – 20	22.6 – 23.1	.890 – .910	OTC-1000-20	
		22	23.9 – 24.6	.940 – .970	OTC-1000-22	



## TC – 68 TYPE

- TC – 68 Tube Cutter is ideal for cutting Thick walled Tube.
- TC – 68 is used with Electric, Pneumatic or Hydraulic Drive machine.
- TC – 68 Standard adjustable reach is 4"(101.6mm),

Tube ID Range		Tool Model No.	Tool Bit Model	Max Tube OD		TOOL Diameter		Drive Square
mm	inch			mm	inch	Mm	inch	
10 – 12	.394 – .472	PTC – 0681012	PTB – 1314	15	0.591	9.5	0.374	1/2"
11 – 13	.433 – .512	PTC – 0681113		18	0.709	10.5	0.413	
12 – 14	.472 – .551	PTC– 0681314	PTB – 1314	19	0.748	11.5	0.453	
13 – 15	.519 – .591	PTC– 0681315	PTB – 1619	20	0.787	12.5	0.492	
14 – 17	.551 – .669	PTC– 0681417		23	0.906	13.5	0.531	
16 – 19	.630 – .748	PTC– 0681619		25	0.984	15.5	0.610	
18 – 21	.709 – .827	PTC– 0681821	PTB – 2025	27	1.063	17.5	0.689	
20 – 25	.787 – .984	PTC– 0682025	PTB – 2025	34	1.339	19.5	0.768	
25 – 30	.984 – 1.181	PTC–0682530	PTB – 2530	38	1.496	24.5	0.965	
30 – 35	1.181 – 1.378	PTC– 0683035	PTB – 4050	43	1.693	29.0	1.142	
35 – 40	1.378 – 1.587	PTC– 0683540		48	1.890	33.0	1.299	3/4"
40 – 50	1.587 – 1.969	PTC– 0684050		58	2.283	38.0	1.496	
50 – 60	1.969 – 2.362	PTC– 0685060	PTB – 6587	68	2.677	48.0	1.890	
55 – 65	2.165 – 2.559	PTC– 0685565		73	2.874	53.0	2.087	
65 – 87	2.559 – 2.953	PTC– 0686587		83	3.268	63.0	2.480	
87 – 85	2.953 – 3.346	PTC– 0688785	PTB – 95105	93	3.661	73.0	2.874	
85 – 95	3.346 – 3.740	PTC– 06885951		103	4.055	83.0	3.268	
95 – 105	3.740 – 4.134	PTC– 06895105		113	4.449	93.0	3.661	

## MANUAL TUBE PULLER



TUBE SIZE							TUBE PULLER MODEL	TUBE SPEAR MODEL
TUBE OD		BWG	WALL THICKNESS		ID			
mm	inch		mm	inch	mm	inch		
9.52	3/8	16	1.65	0.065	6.22	.245	MTP-38-16	MPS-38-16
		18	1.24	0.049	7.04	.277	MTP-38-18	MPS-38-18
		20	0.88	0.035	7.87	.305	MTP-38-20	MPS-38-20
12.7	1/2	14	2.10	0.083	8.48	.334	MTP-50-14	MPS-50-14
		16	1.65	0.065	9.40	.370	MTP-50-16	MPS-50-16
		18	1.24	0.049	10.21	.402	MTP-50-18	MPS-50-18
		20	0.88	0.035	10.92	.430	MTP-50-20	MPS-50-20
15.87	5/8	14	2.10	0.083	11.66	0.459	MTP-63-14	MPS-63-14
		16	1.65	0.065	12.57	0.495	MTP-63-16	MPS-63-16
		18	1.24	0.049	13.39	0.527	MTP-63-18	MPS-63-18
		20	0.88	0.035	14.10	0.555	MTP-63-20	MPS-63-20
19.05	3/4	14	2.10	0.083	14.86	0.585	MTP-75-14	MPS-75-14
		16	1.65	0.065	15.75	0.620	MTP-75-16	MPS-75-16
		18	1.24	0.049	16.56	0.652	MTP-75-18	MPS-75-18
		20	0.88	0.035	17.27	0.680	MTP-75-20	MPS-75-20
22.22	7/8	14	2.10	0.083	18.01	0.709	MTP-87-14	MPS-87-14
		16	1.65	0.065	18.92	0.745	MTP-87-16	MPS-87-16
		18	1.24	0.049	19.74	0.777	MTP-87-18	MPS-87-18
		20	0.88	0.035	20.45	0.805	MTP-87-20	MPS-87-20
25.4	1	14	2.10	0.083	21.18	0.834	MTP-100-14	MPS-100-14
		16	1.65	0.065	22.10	0.870	MTP-100-16	MPS-100-16
		18	1.24	0.049	22.91	0.902	MTP-100-18	MPS-100-18
		20	0.88	0.035	23.62	0.930	MTP-100-20	MPS-100-20



## SHORT SPEARS (PINE JENNY)

Tube Size	Model No	Tube Size	Model No
1/2"-20G	PTP-500-20G	7/8"-20G	PTP-875-20G
5/8"-12/13G	PTP-625-11/13G	1"-9/10G	PTP-1000-9/10G
5/8"-14/15G	PTP-625-14/15G	1"-11G	PTP-1000-11G
5/8"-16/17G	PTP-625-16/17G	1"-12/13G	PTP-1000-11/13G
5/8"-18/19G	PTP-625-18/19G	1"-14/15G	PTP-1000-14/15G
5/8"-20G	PTP-625-20G	1"-16/17G	PTP-1000-16/17G
3/4"-10G	PTP-750-10G	1"-18/20G	PTP-1000-18/20G
3/4"-11/13G	PTP-750-11/13G	1.1/4"-7/8G	PTP-1250-7/8G
3/4"-14/15G	PTP-750-14/15G	1.1/4"-10/11G	PTP-1250-10/11G
3/4"-16/17G	PTP-750-16/17G	1.1/4"-12/13G	PTP-1250-12/13G
3/4"-18/19G	PTP-750-18/19G	1.1/4"-14/15G	PTP-1250-14/15G
3/4"-20G	PTP-750-20G	1.1/4"-16/18G	PTP-1250-16/18G
7/8"-14/15G	PTP-875-14/15G	1.1/2"-10/11G	PTP-1500-10/11G
7/8"-16/17G	PTP-875-16/17G	1.1/2"-12/13G	PTP-1500-12/13G
7/8"-18/19G	PTP-875-18/19G	1.1/2"-14G	PTP-1500-14G

Note : Larger Size also available on Request.

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## WALL REDUCER



- Used to 'thin' the walls of heavy gauge tubes as a step in their removal from tube sheet.
- Suffix model number with tube gauge when ordering. Example for 3/4" O.D. 16G, model number will be WR-750-16.
- Wall reducers available for mm tube sizes also. Please enquire.

## KNOCKOUT TOOL



- Used with pneumatic chipping hammer to knock out tubes / tube stubs from tube sheet.
- Available in 01 and 06 shanks as standard. 15 (Jumbo) shank available on request.
- Suffix model number with tube gauge and shank when ordering. Example for 3/4" O.D. 16G, 06 shank, model will be KT-750-16-06.

## COLLAPSING TOOL



- Used to collapse tube and drive out collapsed tube from tube sheet with a chipping hammer.
- Recommended for use on 16G and thinner tubes.
- Available on 01 and 06 shanks as standard.
- Suffix model number with shank number when ordering. Example for 3/4" O.D. 16G, 06 shank, model will be CT-750-06.

TUBE OD inch	MODEL NO	MT SHANK #
3/8	WR-375	1
1/2	WR-500	2
5/8	WR-625	2
3/4	WR-750	2
7/8	WR-875	3
1	WR-1000	3
1.1/4	WR-1250	3
1.1/2	WR-1500	3
1.3/4	WR-1750	3
2	WR-2000	3
2.1/2	WR-2500	4

TUBE OD inch	MODEL NO
3/8	KT-375
1/2	KT-500
5/8	KT-625
3/4	KT-750
7/8	KT-875
1	KT-1000
1.1/4	KT-1250
1.1/2	KT-1500
1.3/4	KT-1750
2	KT-2000
2.1/2	KT-2500

TUBE OD Inch	MODEL NO
3/8	CT-375
1/2	CT-500
5/8	CT-625
3/4	CT-750
7/8	CT-875
1	CT-1000
1.1/4	CT-1250
1.1/2	CT-1500
1.3/4	CT-1750
2	CT-2000
2.1/2	CT-2500



## TUBE PLUG

TUBE OD inch		SINGLE TUBE PLUG MODEL	DOUBLE TUBE PLUG MODEL
inch	mm		
3/8	9.52	PLG-375-1	PLG-375-2
1/2	12.7	PLG-500-1	PLG-500-2
5/8	15.8	PLG-625-1	PLG-625-2
3/4	19.05	PLG-750-1	PLG-750-2
7/8	22.22	PLG-875-1	PLG-875-2
1	25.40	PLG-1000-1	PLG-1000-2
1.1/4	31.75	PLG-1250-1	PLG-1250-2
1.1/2	38.10	PLG-1500-1	PLG-1500-2



## Features :

- Remove Tube Without any damage to the tube sheet.
- Low setup time and ease to operate.
- Low maintenance cost.
- Time and money saver.
- Interchangeable Pulling Guns with same Power pack, 15 T gun is Light duty with high Speed, 30 Ton gun for heavy Duty Tube Pulling & 45 T gun upto 3" Tube OD.

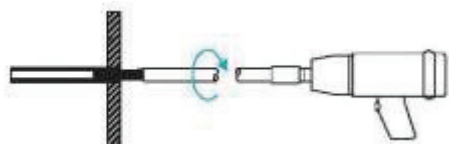
## TUBE PULLING POWERPACK SPECIFICATION

Input	3 Phase 415 +/- 10%V
Power	3.7 K.W., 5h.P.
Max Working Pressure (Bar)	350
Weight Without Oil	220 Kg.
Control	24 Volt DC
Hydraulic Hose	¾" I.D.(Forward), ½" I.D.(Reverse) 5m Long
Dimension (Mm).(L X W X H)	1020 X 680 X 960

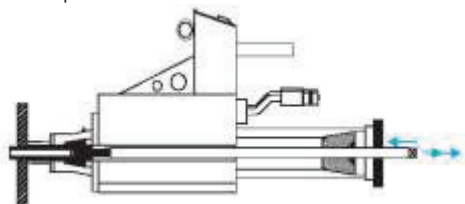


Pulling Gun Model	Pulling Capacity (Ton)	Max Tube OD Through Gun (Inch)	Stub Pulling Capacity (Inch)	Weight Kgs(lbs)	Free Pulling Speed (Mtrs/Min) With Tpp-50
PTPG- 15	15	1	1.1/2	26.0 (57)	5.0
PTPG -30	30	1.1/2	3	38.0 (84)	3.0
PTPG-45	45	3	4	78.0 (172)	2.0

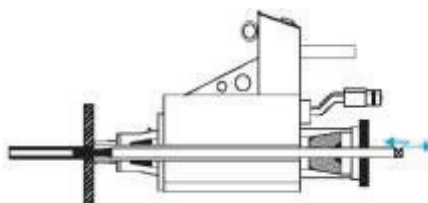
## SEQUENCE OF OPERATION



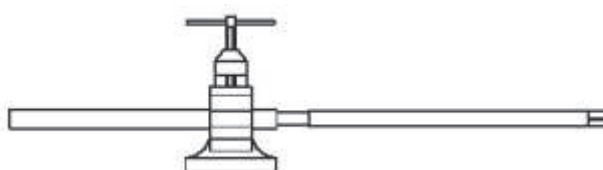
1. Threaded Mandrel insert in the tube with Impact Wrench



3. Switch to auto cycle to complete removal of tube

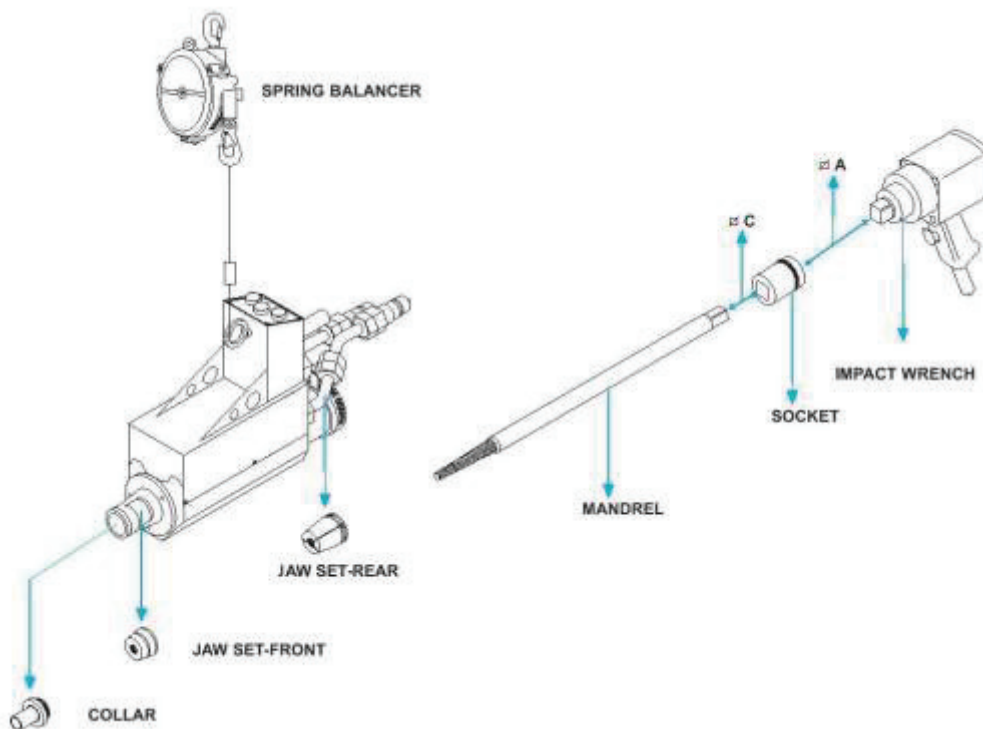


2. Mount pulling gun on to Mandrel Automatic Slow Start.



4. Remove Mandrel from Tube.





## SPRING BALANCER

- Used to Suspend Pulling Guns.

Model	Balancer Range In Kgs	Pulling Gun
PSB – 30	22 – 30	PTPG – 15
PSB – 40	30 – 40	PTPG – 30
PSB – 85	70 – 85	PTPG – 45

## IMPACT WRENCH

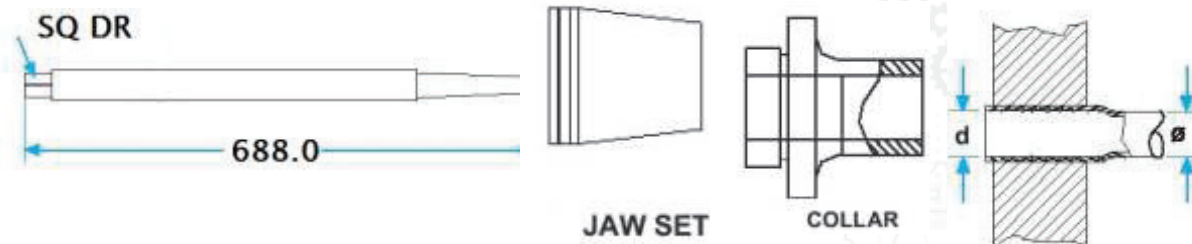
- Used to Push Threaded Mandrels into the tube with the help of socket.

MODEL	THREADED MANDREL MODEL	WEIGHT IN KGS
PPIW - 204	PPM – 7 to PPM – 37	5.0
PPIW - 263	PPM – 19 to PPM – 102	10.0

## SOCKET

- Used Connect Impact Wrench With Threaded Mandrel

MODEL	DRIVE SOCKET HEAD	MANDREL END DRIVE
PS -1	3/4"	3/8"
PS - 2	3/4"	1/2"
PS - 3	3/4"	5/8"
PS - 4	3/4"	3/4"
PS - 5	3/4"	1"
PS - 6	1"	3/4"
PS - 7	1"	1"
PS - 8	1"	1.1/2"



TUBE SIZE		TUBE ID AFTER EXPANSION		PULLING MANDREL		JAW SET			COLLAR		
				MODEL	SQ. SIZE	FOR PTPG- 15	FOR PTPG-15	FOR PTPG-15	FOR PTPG- 15	FOR PTPG- 15	FOR PTPG- 15
DIA	BWG	mm	inch	PPM	SQ DR	PPJ – 15	PPJ – 30	PPJ – 45	PPC – 15	PPC – 30	PPC – 45
3/8"	17-19	6.5 – 7.5	0.260 – 0.295	7	5/16"	1	1	--	11	11	--
	20-24	7.5 – 8.5	0.295 - 0.335	8							
1/2"	14-16	8.5 – 9.5	0.335 – 0.375	9	3/8"	2	2		15	15	
	17-18	9.5 - 10.5	0.375 – 0.415	10							
	19-21	10.5 -11.5	0.415 – 0.455	11							
	24	11.5 – 12.5	0.455 – 0.495	12							
5/8"	16-17	12.5 – 13.5	0.495 – 0.535	13A	1/2"	3	3		18	18	
	19-21	13.5 – 14.5	0.535 – 0.570	14A							
	23-24	14.5 – 15.5	0.570 – 0.610	15A							
3/4"	11	12.5 – 13.5	0.495 – 0.535	13	5/8"	4	4		21	21	
	12-13	13.5 – 14.5	0.535 – 0.570	14							
	14-15	14.5 – 15.5	0.570 – 0.610	15							
	16-17	15.5 – 16.5	0.610 – 0.650	16							
	18-20	16.5 – 17.5	0.650 – 0.690	17							
	21-24	17.5 – 18.5	0.690 – 0.730	18							
7/8"	14	17.5 – 18.5	0.690 – 0.730	18 S	5/8"	4/A	4/A		25	25	
	16-17	18.5 – 19.5	0.730 – 0.770	19 S							
	18-19	19.5 – 20.5	0.770 – 0.810	20 S							
1"	10-11	18.5 – 19.5	0.730 – 0.770	19	3/4"	5	5	5	28	28	
	12	19.5 – 20.5	0.770 – 0.810	20							
	13-14	20.5 – 21.5	0.810 – 0.845	21							
	15-16	21.5 – 22.5	0.845 – 0.885	22							
	18	23.5 – 24.5	0.885 – 0.925	23							
	19-20	23.5 – 24.5	0.925 – 0.965	24							
1.1/4"	10	24.5 – 25.5	0.965 – 1.105	25	1"	--	7	7	--	34	34
	11-12	25.5 – 26.5	1.105 – 1.045	26							
	13	26.5 – 27.5	1.045 – 1.085	27							
	14-15	27.5 – 28.5	1.085 – 1.125	28							
	16-18	28.5 -29.5	1.125 – 1.160	29							
	19-22	29.5 – 30.5	1.160 – 1.200	30							
1.1/2"	23-24	30.5 – 31.5	1.200 – 1.240	31		9	9	--	41	41	
	10-11	31.5 – 32.5	1.240 – 1.280	32							
	12-13	32.5 – 33.5	1.280 – 1.320	33							
	14	33.5 – 34.5	1.320 – 1.360	34							
	15-17	34.5 – 35.5	1.360 – 1.400	35							
	18-20	35.5 – 36.5	1.400 – 1.440	36							
1.3/4"	21-24	36.5 – 37.5	1.440 – 1.475	37		11	--	--	--		
	10-11	37.5 – 38.5	1.475 – 1.515	38/44							
	12	38.5 – 39.5	1.515 – 1.555	39/44							
	13-14	39.5 – 40.5	1.555 – 1.595	40/44							
	15-16	40.5 – 41.5	1.595 – 1.635	41/44							
	18-19	41.5 – 42.5	1.635 – 1.675	42/44							
2"	20-24	42.5 – 43.5	1.675 – 1.715	43/44		13	54				
	10	43.5 – 44.5	1.715 – 1.775	44/51							
	11-12	44.5 – 45.5	1.775 – 1.795	45/51							
	13	45.5 – 46.5	1.795 – 1.835	46/51							
	14-15	46.5 – 47.5	1.835 – 1.870	47/51							
	16-18	47.5 - 48 .5	1.870 – 1.910	48/51							
	19-22	48.5 – 49.5	1.910 – 1.950	49/51							