# 8. PLUMBING TOOLS PLUMBING TOOLS





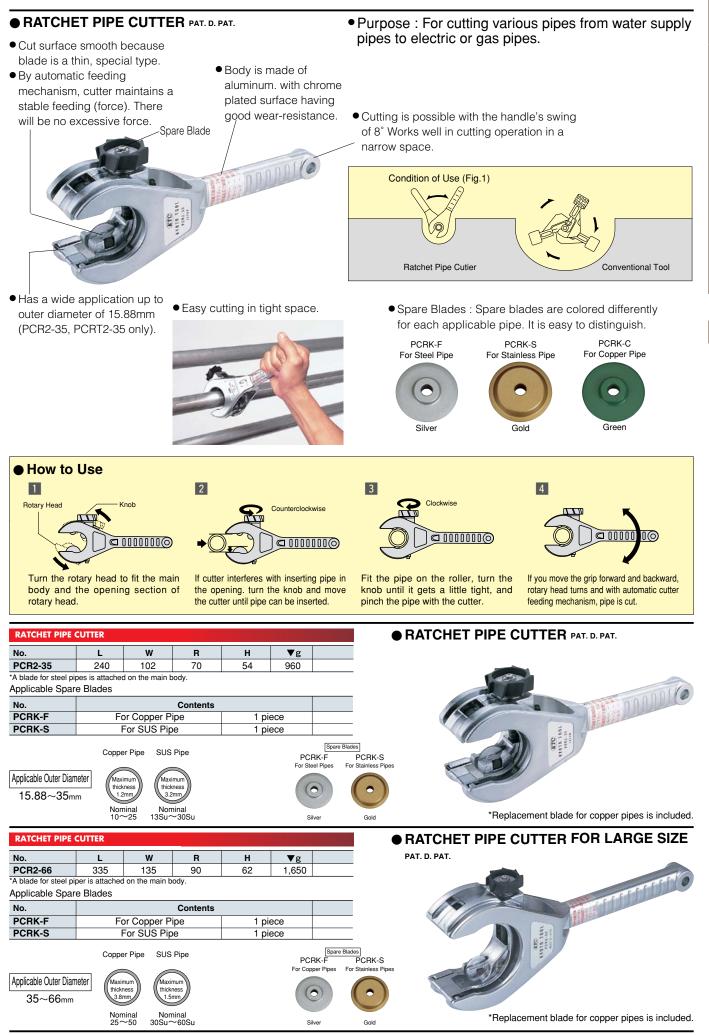
## Ratchet pipe cutters, Miniature ratchet tube cutter, Tube cutter, Flex pipe cutter, PVC cutter

- Make sure that you read the OwnerÅfs Operator Manual carefully before use.
  - Do not use these tools to cut unspecified materials.
  - Do not use the tools if they are cracked, chipped, worn or deformed, etc.
  - Do not customize tools. The tools quality will decrease significantly if heated or modified.

# Application Table of Ratchet Pipe Cutters

 $^{\star}$  A special blade (PCRK-S) is needed for cutting stainless steel pipes.

	Product and							Plastic Plp	e
	Product Code	Application	Copper Pipe	Steel Pipe	SUS Pipe	SUS Flexible Pipe	Rigid polyvinyl chloride pipes for waterworks	Polyethylene pipes for waterworks	Polyethylene pipes for gas
	PCR2-35 PAT.	Applicable Outer Diameter		15.88~35mm	15.88~35mm				
	Ratchet Pipe Cutter	Nominal		10~25	13Su~30Su				
	and the second s	Applicable Thickness		Max.3.2mm	Max.1.2mm				
	-31								
	PCR2-66 PAT.	Applicable Outer Diameter		35~66mm	35~66mm				
	Ratchet Pipe Cutter For Large Size			25~50	30Su~60Su				
-	-	Applicable Thickness		Max.3.8mm	Max.1.5mm				
Ratchet Pipe Cutters									
cher	PCRT2-35 PAT.		15.88~35mm				15.88~35mm	15.88~35mm	15.88~35mm
P	Ratchet Pipe Cutter For Copper And Resin Pipe	Nominal	$\frac{1}{2}$ "~1 $\frac{1}{4}$ "				13~25	10~25	20~25
pe		Applicable Thickness	Max.1.65mm				Max.3.5mm	Max.5.0mm	Max.3.4mm
Cut									
ters	PCRT2-66 PAT.	Applicable Outer Diameter					35~66mm	35~66mm	35~66mm
0,	Ratchet Pipe Cutter For Copper And Resin Pipe, Large Size	Nominal	11/4"~21/2"				30~50	25~50	25~50
		Applicable Thickness	Max.2.03mm				Max.4.5mm	Max.6.5mm	Max.5.5mm
	and the second s								
	PCRT-23 D.PAT. Miniature Ratchet Pipe Cutter	Applicable Outer Diameter							
		Nominal	$\frac{1}{4} \sim \frac{7}{8}$						
		Covered copper piping							
		Applicable Thickness Applicable Outer Diameter	Max.1.24mm 6~66mm		0.00		0.00		
	PC2-66 Tube Cutter	Nominal	$\frac{6\sim66mm}{\frac{1}{4}''\sim2\frac{1}{4}''}$		6~66mm		6~66mm		
		Applicable Thickness			May 1 Emm		May 4 Emm		
Я	1 77	Applicable Thickness	wax.2.0mm		Max.1.5mm		Max.4.5mm		
Rotary Pipe Cutters	ZC30 D.PAT.	Applicable Outer Diameter	3~30mm				3~30mm	3~30mm	3~30mm
٦ ۲	Tube Cutter	Nominal	0.000				0.000000	0.4001111	0.000
ipe			Max.2.0mm				Max.3.0mm	Max.3.0mm	Max.3.0mm
5	a a								
itter	FV20 D.PAT.	Applicable Outer Diameter				15.88~21mm			
Ś	Flex pipe cutter	Nominal				$\frac{1}{2}$ " $\cdot \frac{3}{4}$ "			
	B CON	Applicable Thickness				Max.0.3mm			
	3-8								
Blade	PP-30	Applicable Outer Diameter					Max.38mm		
Bladed Manual Pipe Cutte	PVC Cutter	Nominal							
ual Pip	The second se	Applicable Thickness							
e Cutter									



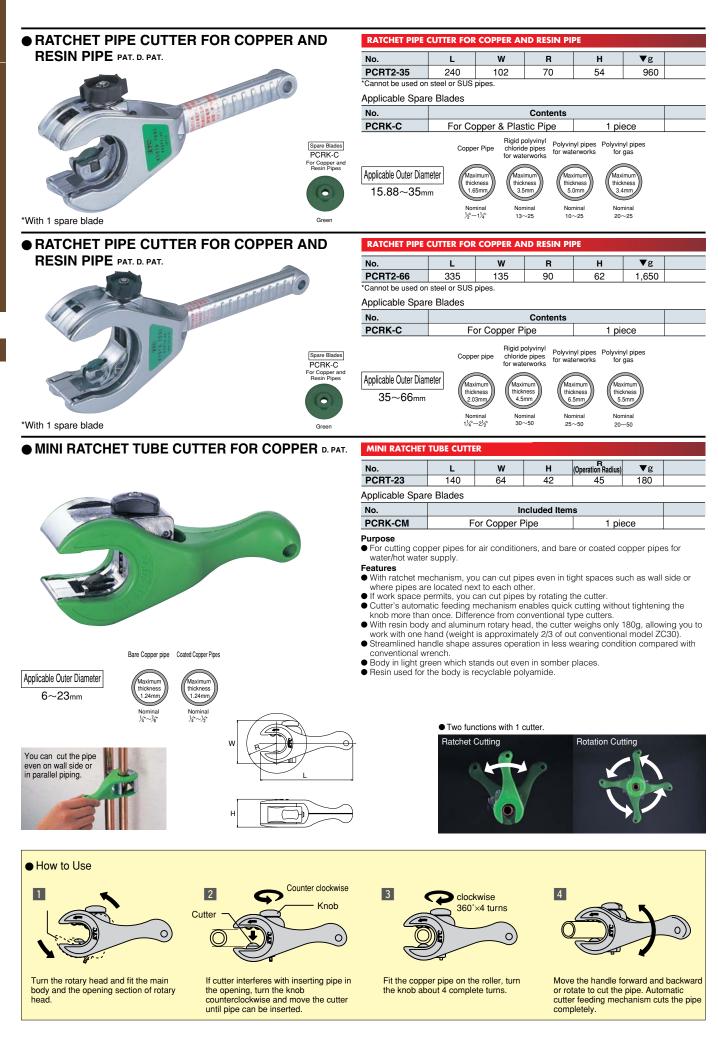
\*Please check the merchandise inventory for a product that is marked by 🕗 before placing an order.

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**PLUMBING TOOLS** 

PLUMBING TOOLS

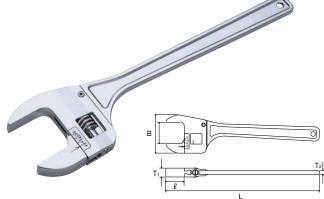
PLUMBING TOOLS



**CO** PLUMBING TOOLS

TUBE CUTTER						• TUBE CUTTER D. PAT.	
No.	L	W	н	▼g			
ZC30	126	42	45	270		-	
A blade for copper,				_	body.		-
Purpose					н Ма		
For cutting cop	per or resin pip	es.				Hole diameter 4.8	EP-
Adoption of res			as reduces de	eformation			E
	etc. on the cut s	urface.					all
Spare Blade	-			<b></b>	<b>0</b>		9
No. ZCK305		tting Dia. Pipe (ø3~30		um Thickness .0mm	Quantity 5 pieces		
201303		Pipe (03~30 Pipe (03~30	/	.0mm	י אופרפס		
-		Flexible Pipe (ø	/	.3mm			
ZCK305S	Thin-wall Stainle				5 pieces	_	
Rigidity against	torsion and stat	pility during cut	tting have be	en increase	d		*With 1 spare blade
TUBE CUTTER						• TUBE CUTTER	
	Cutting Die		14/	u –	60		
No. PC2-66	Cutting Dia.	L	<b>W</b> 42 9	H ▼g 0.5 730		1	15
For cutting and	ø6~66 chamfering cop	201~282	-			-	22
caung and		p.p00, 00p	5. p.p00, 0			Hole diameter 4.8	6
							Cull
					<del></del> {%⊂€		2 million
							r
pare Blade						-	
No.		Content		Quantity			
PCK305	For	Copper Pipe	)	5pcs.		0	
PCK305S		Stainless Pipe		5pcs.			
PC2665C	For	P.V.C. Pipe		Enco		—	
		1.V.O.1 ipc		5pcs.		_	*With 1 spare blade
		1.0.0.1.100		opes.			*With 1 spare blade
	TER	_				● FLEX TUBE CUTTER D. PAT.	*With 1 spare blade
No.	TER	W	Н	▼g		• FLEX TUBE CUTTER D. PAT.	*With 1 spare blade
FV20	TER	_	Н 45			• FLEX TUBE CUTTER D. PAT.	*With 1 spare blade
No. FV20 Purpose	TER L 126	<b>W</b> 42		▼g		• FLEX TUBE CUTTER D. PAT.	*With 1 spare blade
No. FV20 Purpose ● For cutting stair	TER L 126	<b>W</b> 42		▼g		• FLEX TUBE CUTTER D. PAT.	*With 1 spare blade
No. FV20 Purpose For cutting stair Application Stainless Steel	TER L 126 nless steel flexib Flexible Pipes fo	W 42 ble pipes. or Gas Piping.	45 Nomin	<b>▼g</b> 220 al 8A~20A		• FLEX TUBE CUTTER D. PAT.	*With 1 spare blade
FLEX TUBE CUT No. FV20 Purpose For cutting stair Application Stainless Steel Water Supply.	TER L 126 nless steel flexib Flexible Pipes fo	W 42 ble pipes. or Gas Piping.	45 Nomin Nomin	▼g 220	H ES) H		*With 1 spare blade
No. FV20 Purpose For cuting staii pplication Stainless Steel Stainless Steel Water Supply. reatures	TER L 126 nless steel flexib Flexible Pipes for Flexible Pipes for	W 42 Dle pipes. or Gas Piping. or Water/Hot	45 Nomin Nomin (excep	■ <b>Vg</b> 220 al 8A~20A al 13, 20 ot spiral type		• FLEX TUBE CUTTER D. PAT.	*With 1 spare blade
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No. FV20 For cutting staii opplication Stainless Steel Stainless Steel Water Supply. 'eatures Adoption of res	TER L 126 nless steel flexib Flexible Pipes for Flexible Pipes for	W 42 ble pipes. or Gas Piping. or Water/Hot sisting roller ha	45 Nomin Nomin (excep	■ ▼g 220 al 8A~20A al 13, 20 ot spiral type	13) H		*With 1 spare blade
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No. FV20 Purpose For cutting stail spplication Stainless Steel Stainless Steel Stainless Steel Water Supply. eatures Adoption of res of pipe, burrs, of Spare Blade	TER L 126 nless steel flexible Flexible Pipes for Flexible Pipes for sin roller and assent. on the cut s	W 42 ble pipes. or Gas Piping. or Water/Hot sisting roller ha	45 Nomin Nomin (excep as reduced de	■ ▼g 220 al 8A~20A al 13, 20 ot spiral type			*With 1 spare blade
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# ● JOINT NUT WRENCH PAT. D. PAT.



JOINT NUT WR	ENCH								
No.	в	T1	T2	Applicable Nut Width Across Flats	L	l	▼g	Ø	
FMR260	66	15	7.5	22~35	260	31	500	5	
FMR330	88	15	7.5	35~49	330	43	700	5	

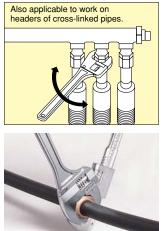
Purpose ● A Wrench for tightening and loosening of mechanical joints for gas, water, hot water, or air conditioning pipes.

With ratchet mechanism, quick tightening and loosening of nuts possible with ease even in narrow spaces.
Spanner type end enables application to both hexagonal and octagonal nuts with one

wrench. Applicable to joints of different sizes.
Engraved scale facilitates adjustment of size.

No. (Applicable Nut	Width Across Flats)	FMR260	FMR330
Stainless Steel Flexible Pipe Joint for Water and Hot Water	Hexagonal	8A, 10A, 13A, 15A, 16A	20A
Metal Joints for Polyethylene Water Pipe	Hexagonal/Octagonal	13A	13A, 20A, 25A
Union Nuts for Water Supply	Hexagonal/Octagonal	13A	20A, 25A
Flex Pipe Joint for Gas	Hexagonal	8A, 10A, 15A 20A	20A, 25A
Stainless Steel Flexible Pipe Joint for Water and Hot Water	Hexagonal	1/2", 3/4"	—
Flare Pipe Joint for Air Conditioner	Hexagonal	3/8", 1/2", 5/8"	3/4"

• How to Use Adjust the opening of joint nut wrench to fit width across flat of the nut in advance.



# Tighten the nut.



Turn the nut to tightening direction with joint nut wrench.

# **2** Turn the joint nut wrench back to loosening direction.



With nut still held in between, turn the wrench to loosening direction.

# FLANGING TOOL

# Repeat procedures 1 and 2 to complete.

**3** Tighten the nut

FLANGING TOOL					
No.	L	w	н	▼kg	
FV10	350	90	145	3.7	

Flange can easily be made with a simple operation.

 Purpose
 ● A tool to make sealing surface on joint section of stainless steel flexible pipes for water/hot water supply. Application

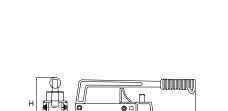
• Stainless flex pipes, nominal 13.20 (except spiral shapes).

### Features

Holder No.

FV10-1

- You only push down the handle to make flanges quickly and efficiently.
- It applies force to create uniform flanges.
  One holder is applicable to flexible pipes of 2 different sizes.





How to Use

# 1 Set flexible pipe on the holder.

Nomination 13 (1/2") Nomination 20 (3/4")



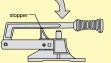
3 threads 3 threads Set the flexible pipe into the holder of appropriate size with 3 threads projecting out of the holder end.



Attach the holder fixed with flexible pipe into the tool.



# from main



Push down the handle until it hits the stopper.

Push down until it

hits the stopper.



Pull up the handle and take out the flex pipe with holder.

PLUMBING TOOLS

# PIPE BENDER FOR STAINLESS FLEXIBLE PIPE



Shoe Side Handle

Guiding Handle

D2

25

28

Thin socket convenient for work in narrow spaces.
Side is green which stands out in working environment. Made of resin and light.

L

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15

15

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143

166 160

mm

TIII MIN

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▼g

130

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POWERFIT

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( O) D2

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w

**4 SIZE STANDARD RATCHET BOXEND WRENCH** 

10×13·12×14 25

• Wave shape grip : hand-fitted and easy to transmit force.

SixS<sub>2</sub>

8×12 · 10×13

нŢ

w

D1

21

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### PIPE BENDER FOR STAINLESS FLEXIBLE PIPI Shoe Side Handle Guiding Handle

	Silve	Side F	lanule	Guid	лпу па	inule	▼kg	69	
No.	w	н	L	w	н	L	v ng		
FV30	210	77	803	112	65	700	3.5	1	
Purpose									
<ul> <li>A special tool for</li> </ul>	bendin	g wavy	stainles	ss steel	pipes	used in	piping	from wa	ater supply

pipe to meter up to 90 degrees.

Application ● Wavy Stainless Steel Pipes

Nomination 30su, 40su, 50su. (Cannot be used for bending any other types of pipes.) Features

- Use of guiding handle ; eliminates need of setting the pipe on the ground. Operation in
- a ditch (for piping) is possible (Fig.1). No need for complicated preparations. You can quickly, easily and smoothly bend the stainless steel pipe.
  With indication of angle (Fig.2).
- Mobile hook enables most appropriate bending for the pipe size.
   Made of high strength aluminum, the tool is light and easy to carry around.
- 6 G (91

Fig.1

Operation in a ditch is possible.



Fig.2

# ● 4 SIZE STANDARD RATCHET BOXEND WRENCH



• 4 SIZE LONG RATCHET BOXEND WRENCH

The changeover switch must be operated properly to prevent breakages and idling
 For temporary tightening only. Do not carry out the final tightening adjustment with

# **4 SIZE LONG RATCHET BOXEND WRENCH**

this tool.

No.	SixS <sub>2</sub>	h1	h2	h₃	h4	D1	D2	<b>T</b> 1	T2	L	▼g	Ø	
MR-0813L	8×12 · 10×13	10	17.5	15	17.5	21	25	34.5	44.5	143	180	10	
-1014L	10×13 · 12×14	15	18	15	30	25	28	39.5	57.5	166	230	10	
A "must" for piping work. Works in various situations.													
Purpose													

No.

MR-0813

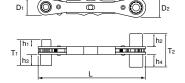
Features

-1014

 Tightening various cable way or piping support materials. Features

Long socket enables to work in deep sections.

 Side is green which stands out in working environment. Made of resin and light. • Wave shape grip ; hand-fitted and easy to transmit force.



on • The changeover switch must be operated properly to prevent breakages and idling.

· For temporary tightening only. Do not carry out the final tightening adjustment with this tool.