



# TUF TOOL MACHINERY



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## Threading Machines

Electrical Threading Machine  
Handheld Threading Machine  
Manual Threading Machine  
Threading and Cutting Oil



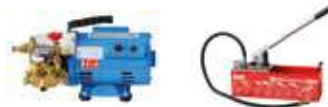
## Grooving Machines

Hydraulic Grooving Machine



## Test Pumps

Electrical Test Pumps  
Manual Test Pumps



## Pipe Hole Cutter

Holesaw Cutting Machine



## Flushing & Pipe Cleaning

Drain Clean Machine  
Spirals & Augers  
handheld Drain Clean Machine  
Pneumatic Drain Cleaner  
Pipe Inspection Camera



## Refrigeration & Airconditioning Technology

Vacuum Pumps  
Manifold Gauges  
Recovery Unit  
Recovery Cylinders  
Leak Detector  
Digital Manifold  
Torches  
Pressing Tool



## Plastic Pipe Welding

Socket Welder  
Electrofusion Welding Machine



## Bending

Hydraulic Bender  
Manual Pipe Bender  
Expander Set  
Flaring and swaging



## General Purpose Tools

Pipe Cutter  
Pipe Jack Stand  
Tri Stand





## TT-AS50

### Features

- Dies made of special pre-heat treated steel, ensuring long life and easy threading.
- Cutter & Reamer blade: most suitable shaped blade tip allows sharp cut and durability.
- Hammer chuck: Outer ring designed to grip easily and to grab pipes firmly with less power.
- The Jaw Body is wider giving greater load capacity and durability.
- Jaw insert improves the centripetal clamping feature.
- Spindle is supported by Sealed Ball Bearing. It ensures correct alignment and continued accuracy through lack of wear.
- Class F insulation grade on the motor allows continuous operation.
- The high capacity of Gear Pump operates even at low revolutions to assure precise threads.

### Accessories Included

- Manual Die Head 1/2" to 2"
- BSPT Dies 1/2"- 3/4"
- BSPT Dies 1"-2"



### Features

- Compact portable design
- High speed threading
- Spindle speed 40rpm
- Pipe Capacity 1/2"- 2"
- Bolt Capacity 3/8"- 2" (M10-42mm)
- Conduit Capacity 19-51mm 3/4" - 2"

### Includes

- 1/2"- 3/4" dies
- 1"-2" dies
- 4 x pipe legs

Capacity	1/2" - 2"
Voltage	220V/240V
Power Capacity	1150W
Frequency	50Hz/60Hz
Output RPM	40r/min
N.W.	67KG
Packaging size	76x59x55CM



## Featuring

This machine is for threading of various water, electric or gas pipes ranging from 2/1 Z It is efficient and can be widely used in equipment installation and construction industries and is an ideal device for increasing efficiency, shortening construction time, securing construction quality, and decreasing working intensity Read this manual carefully before using the machine

### TT-SQ50A

#### Specifications

Motor 1000w Induction 220V/110V

Switch on/off heavy duty switch.

Spindle speed 30RPM

Die head: Rex Type

Heavy duty proven performance

Threads 1/4" - 2" pipe

An induction motor ensure sound level well when using



- Front Chuck Hammer type with replaceable rocker action jaw inserts
- Rear Centering Device: Cam action
- Oiling System: Through die head, with intergral oil reservoir
- Oil Pump: Self-priming constant flow Standard Equipment
- Model SQ50A threading machine
- Self-opening die head.
- 1/2" - 3/4" Alloy dies set.
- 1" - 2" Alloy dies set.

## Features

Heavy-duty proven performance. Fast transport and set-up. Self-Contained Oil System with adjustable flow control. Approved by CE standards.

### TT-SQ80C1

#### Capacity

**Pipe:** 1/4"-3" (8mm-80mm)

**Bolt:** 12mm-45mm

#### Standard Dies

1/2"-3/4" universal HS dies set.

1"-2" universal HS dies set.

2 1/2" - 3" universal HS dies set.



#### Technical Specifications

**Motor:** 1500W universal, 5060/Hz

**Switch:** ON/OFF heavy duty switch, foot switch and FOR/OFF/REV switch are optional

**Spindle Speed:** 32 RPM.

**Front Chuck:** Hammer type with replaceable rocker action jaw inserts.

**Rear Centering Device:** Cam action.

**Oiling System:** Through die head, with intergral oil reservoir.

**Pump:** Self-priming adjustable flow, gerotor pump.

## Ordering Information

Catalog No.	Model No .	Description	Spindle Speed RPM	Pipe Threading Capacity		Rod Threading Capacity	N.W (kg)
				in	mm	metric	
303301	TTSQ80C1	110V,60HZ	32	1/4"-3"	8-80	M12 - M45	74
303302	TTSQ80C1	220V,50HZ	32	1/4"-3"	8-80	M12 - M45	74



# THREADING MACHINE

## Capacity

**Pipe:** 14"-4"(8mm-100mm)

**Bolt:** 12mm-45mm

## Features

- Heavy-duty proven performance
- Threads 14"-4" pipe at 36RPM, 12-" at 20RPM, 2W"-4" at 11RPM.
- An induction motor ensures sound levels well when using
- A special capacitor-start / capacitor run motor allows the machine to thread where voltage drop is experienced.
- Approved by CSA and CE standards.

## Technical Specifications

- **Motor:** 1500W induction, 5060/Hz, single phase.
- **Switch:** ON/OFF heavy duty switch, foot switch and FOR/OFF/REV switch is optional.
- **Spindle Speed:** 3611/20/ RPM.
- **Front Chuck:** Hammer type with replaceable rocker action jaw inserts.
- **Rear Centering Device:** Cam action.
- **Oiling System:** Through die head, with intergral oil reservoir.

## Standard Dies

- 1"-2" universal HS dies set
- 2 1-4"2/" universal HS dies set.



Die head and dies, order separately

## Accessories

Catalog No.	Model No..	Description	N.W kg
	443	Die head, Self-open, X-2"	6.2
	444	Die head, Self-open, X-2"	14.4
4581011	819	Nipple Chuck (optional)	4.5
4060008		reinforced cutting wheel	

## THREADING AND CUTTING OIL

High-performance cutting fluid for producing thread connections or cutting metal. The cutting oil in various sizes can be used with manual threaders or stationary machines

- ☞ Premium cutting oil
- ☞ Compatible for all threading machines
- ☞ High grade minerals for smooth cutting and lower friction temperature
- ☞ Excellent cooling and lubricating properties
- ☞ Durability of the threading die is increased considerably
- ☞ For perfect, clean threads
- ☞ Safe for skin contact
- ☞ Also suitable as cold lubrication when cutting meta



1 Gallon (3)





## TT - SQ2 - 30C

The SQ30 - 2C is a lightweight and powerful portable threader. It is designed for threading 1/2" pipe with 11-R Die Heads. The SQ302-C is equipped with a full set of 11-R Die Heads, 1/2-2", the SQ302-C Support Arm and a durable Carrying Case. The SQ302-C Power Drive is the perfect lightweight and portable power drive for maintenance and repair workers, as well as service plumbers requiring 2' pipe capacity.

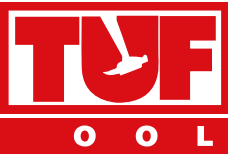


### Specifications

- ★ Capacity: 1/2"-2" (12mm-50mm) pipe
- ★ Motor: 1700 Universal 110V or 220V, 50/60 Hz.
- ★ Switch Heavy-duty paddle type switch with safety lock off device (automatically locks off when released). Separate mechanical transmission FOR/REV switch.
- ★ Reverse 3-times faster than threading
- ★ Gear Head: Spur gear reduction/ring gear drive. All shafts, ball and needle bearing mounted. Permanently lubricated gear housing.
- ★ Gear Housing: Die cast Aluminum.
- ★ Body & Handle: Durable heavy-duty fiberglass reinforced plastic.
- ★ Spindle Speed: 30 RPM for threading, 55 RPM reverse (No load)
- ★ Die Heads: 1/2", 3/4", 1", 1 1/4", 1 1/2", 2" (Type 11R)
- ★ Includes support arm.
- ★ Screw Threads: NPT/BSPT
- ★ Dies Material: Alloy standard, (HSS optional)
- ★ Die Head Adapter: Used with 1/2" through 1 1/4" die heads.
- ★ Weight 8kg, power drive only.
- ★ Length: 76cm
- ★ Approved by ETL and CE standards

### Ordering Information

Model No.	Description	G.W(kg)
TTSQ30 -2C	110V 1 / 2 -2 NPT w/Case and Support Arm	25
TTSQ30 -2C	220V 1 / 2 -2 BSP w/Case and Support Arm	25
Accessories		
	Adapter	25
	Support Arm	
TTH401	16 - 8/ TRISTAND chain vise (optional)	20
	Die head with Dies 1 / 2, 11R, NPT./BSPT	
	Die head with Dies 3 / 2, 11R, NPT./BSPT	
	Die head with Dies 1, 11R, NPT./BSPT	
	Die head with Dies 1 1 / 4, 11R, NPT./BSPT	
	Die head with Dies 1 1 / 2, 11R, NPT./BSPT	
	Die head with Dies 2, 11R, NPT./BSPT	



# MANUAL RATCHET THREADER WITH CARRY CASE



## TT - HL63 BSPT / NPT

### Product Description

All matched Threader/Sets including Die Heads, Ratchet Assembly, Ratchet and Alloy Dies.  
Different Threader Sets maybe use different Dies and Head, consults us when you choosing.

### Ratchet Threader

Precision thread cutting to approved standards

### Ratchet Lever

Convenient, lockable reversal of ratchet direction  
Right and handed threads  
Secure hold with retainer locking, simple insertion and removal of die heads  
User friendly  
For easy work in difficult to reach positions  
Labor saving



### Quick Change Die Heads

Positive octagonal universal drive  
Secure hold  
Long pipe guide  
Perfect centering  
Simple insertion and removal of die heads  
Easy changing

### Precision Dies

High-quality tempered steel  
Extremely long working life  
Optimized cutting geometry  
Gentle first cut, chip discharge

Catalog No.		Model No.	Capacity		N.W
BSPT	NPT		in.	mm	kg
4511310	4511311	TTHL-63	3/4 - 2	10-50	12.5
4511312	4511313	TTHL-63	1/2 - 2	12-50	12

## TT - HL62D BSPT / NPT

### Product Description

All matched Threader/Sets including Die Heads, Ratchet Assembly, Ratchet and Alloy Dies.  
Different Threader Sets maybe use different Dies and Head, consults us when you choosing.

### Ratchet Threader

Precision thread cutting to approved standards

### Ratchet Lever

Convenient, lockable reversal of ratchet direction  
Right and handed threads  
Secure hold with retainer locking, simple insertion and removal of die heads  
User friendly  
For easy work in difficult to reach positions  
Labor saving

### Quick Change Die Heads

Positive octagonal universal drive  
Secure hold  
Long pipe guide  
Perfect centering  
Simple insertion and removal of die heads  
Easy changing

### Precision Dies

High-quality tempered steel  
Extremely long working life  
Optimized cutting geometry  
Gentle first cut, chip discharge



Catalog No.		Model No.	Capacity		N.W
BSPT	NPT		in.	mm	kg
4511010	4511011	TTHL-62D	1/4 - 1 1/4	6-32	6.5
4511012	4511013	TTHL-62D	3/8 - 1 1/4	10-32	6
4511014	4511015	TTHL-62D	1/2 - 1 1/4	12-32	5.5



# ROLL GROOVING MACHINE 1 TO 12



## TT-YG12D

### Product Description

The Model YG12D hydraulic roll groover, equips updated hydraulic pump, with convenient depth adjusting function, powered by 1100W induction motor, is capable of grooving 1"-12" Sch 10 and 1"- 8" Sch 40 standard wall pipes. "All-in-one" design for the drive shaft, suitable for heavy duty jobs. The YG12D comes with standard support legs, the unit can be set up quickly. The induction motor ensures steady and quiet working.

### Technical Specifications

Motor: 1100W induction, 60/50Hz  
 Switch: ON/OFF heavy duty switch.  
 Spindle Speed: 24 RPM  
 Capacity: 1"-12" Sch. 10 steel, stainless steel.  
 1"-8" Sch. 40/10 steel, stainless steel.  
 Weight: 120 kg

### Standard Dies

Model YG12D grooving machine  
 Switch: ON/OFF heavy duty switch.  
 Spindle Speed: 24 RPM  
 Capacity: 1"-12" Sch. 10 steel, stainless steel.  
 1"-8" Sch. 10/40 steel, stainless steel.  
 Weight: 120 kg



### Ordering Information

Catalog No.	Model No.	Description	N.W(kg)
502305	TTYG12D	Hydraulic Roll Groover, 110V/60Hz	120
502306	TTYG12D	Hydraulic Roll Groover, 220V/50Hz	120
Accessories			
	--	Roll Set for 1 -6	
	--	Roll Set for 8 -12	
11002009	658C	Pipe support stand	

## TT-RG5X

### Design Features

Model RG5-X Electric Hydraulic Roll Grooving Machine is designed to roll grooves on steel pipes and stainless steel from 1"-12" (DN-25DN300) SCH10/SCH20-1"- 8" (DN-25DN200) SCH10/SCH40

Appropriate for various daily tasks involving fire-fighting pipes, this roll groover is a comprehensive tool that includes a motor, hydraulic feeding pump, foot switch, and pipe stand.

The motor's built-in high-performance gear reduction system enables a compact design and reduced noise levels.

The unique combination of the hydraulic feeding pump and the groove depth lock knob guarantees premium grooves and optimal efficiency.

### Specification

Fabrication Capacity: 1"- 8"(DN25 - DN200,  $\phi$ 33 -  $\phi$ 219)  
 SCH10 / 40 Steel Pipe  
 10 - 12 ( DN250 - DN300,  $\phi$ 254 -  $\phi$ 325)  
 SH10 / 20 Steel Pipe  
 Max Wall Thickness: 8mm  
 Output Speed: 23R.P.M  
 Gross Weight:  
 Packing Size: 75 x40x 70cm



### Drive Unit

Catalog No.	Phase	Power	Voltage	Frequency
900050	Single	1100W	220V	5060/Hz
900051	Single	1100W	110V	5060/Hz

### Standard

Catalog No.	Description	N.W (kg)	Ref No.
911106	Drive roller 1"-1 / 2"	( $\phi$ 33- $\phi$ 48)	1
911107	Drive roller 2"-3"	( $\phi$ 60- $\phi$ 89)	2
911108	Drive roller 3 1/2"-6"	( $\phi$ 101- $\phi$ 168)	3
9111019	Drive roller 8"-12"	( $\phi$ 219- $\phi$ 25)	4
912041	Groove roller 1"-1"	( $\phi$ 33- $\phi$ 48)	5
912042	Groove roller 2"-6"	( $\phi$ 60- $\phi$ 168)	6
912043	Groove roller 8"-12"	( $\phi$ 219- $\phi$ 25)	7
998078	Pipe stand for 1"-12"	( $\phi$ 33- $\phi$ 325)	8
998026	Foot Switch		9

## TT-DSY 60A

### Product Description

Suitable for water or hydraulic oil as medium, for all kinds of pressure vessel, pipe, valves, pressure test, etc. Also used for the hydraulic energy, provide the required pressure, suitable for chemical industry, building, water, oil, coal, metallurgy, ship-building and other industries

With compact reasonable structure, the test pump is easy to operate, and light weight for carry.

Convenient maintenance, DSY-series electric test pump is driven by motor, greatly improving work efficiency.

### Specification

**Model:** DSY60A

**Testing range:** 0-60 bar( 860psi, 6Mpa)

**Water flow:** 6L/min

**Valve:** brass, single type

**Connections:** 1/2" BSPP

**Power:** 400W induction type

**Accessories:** pressure hose, pressure gauge, seal set



# MANUAL HAND TEST PUMP

## TT-RP50

### Product Description

For quick and exact compression testing

For testing of leaks in installations, especially for use in heating, compressed air, refrigeration systems, oil installations, sprinkler systems and other small bore pipe applications.

### Specifications

**Model:** RP50

**Testing range:** 0-60bar( 860psi, 6Mpa)

**Tank capacity:** 12L

**Volume/stroke:** -45ml

**Connections:** 1/2" BSPP

**Valve material:** Aluminum

**Tank material:** steel

Hollow handle

**Accessories:** pressure hose, pressure gauge, seal set





# PIPE HOLE CUTTER



## TT- JK150

### Product Description

The TUF Model JK150 pipe hole cutter is designed to cut holes up to 152 mm into steel pipe. The multiple hole sizes allow the use of fittings for branching unpressurized pipe lines. The JK150 has a 5/8" (16mm) capacity drill chuck to accommodate all sizes of hole saws and hole saw arbors. An integral motor and gear reduction optimizes performance of large diameter hole saws. The dual-side feed handle allows the operator to use the Hole Cutting Tool from either the left or right side.



### Specifications

**Cutting Capacity:** Up to 152 mm

**Pipe Mounting Capacity:** 1 1/4" - 12" (OD: 42mm-323mm)

**Drill Chuck Capacity:** 3 - 16mm

**Drill Chuck Speed:** 110 RPM (no load)

**Motor:** universal, 1500W

### Ordering Information

Catalog No.	Model No .	Description	N.W	G.W	Packing(cm)
310202	TTJK 150	220V,50HZ	20.0kg	22.0kg	40x30x35
310202	TTJK 150	110V,60HZ	20.0kg	22.0kg	40x30x35



## TT-A150

### For 3/4" to 6" (19mm-150mm) Drain Lines

- Particularly light, compact handy design, ideal for general purpose maintenance work on baths, wash basins, toilets, in kitchens, waste pipes, drains, and downpipes.
- Equipped with 1HP(750W) motor (Input 1100W)





### Specifications


<b>Rated Voltage</b>	110V/60HZ, 220V/50HZ
<b>No-load Speed</b>	460RPM
<b>For Pipe</b>	19mm-150mm
<b>Max working length</b>	50 meters with 16mm dia. Cable
	60 meters with 22mm dia.Cable






### Φ 16mm combination set

 16mm combination set	30112017		5pcs* 16mm *2.3 cables Cable holder
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### Φ 22mm combination set

 22mm combinatio set	30112019		5pcs* 22mm *4.5 cables Cable holder
	30112020		3pcs* 22mm *4.5 cables Cable holder

### Φ16mm augers/cutter set

 Srraight Auger	 Bulb Auger	 Cross-blade cutter, serated	 Grease Cutter
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### Φ 22mm augers/cutter set

 Bulb Auger	 Bulb Auger	 Funnel auger	 Spade head Cutter
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### Accessories

 Tool case	 4 Key	 5 Key	 Protection gloves
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Standard Equipment	
Φ 16mm cable *5pcs *2.3 meter Φ 16mm cutter *4 pcs	Φ 22mm cable *5pcs *4.5 meter Φ 22mm cutter *4 pcs
Φ 16mm cable *5pcs *2.3 meter Φ 16mm cutter *4 pcs	Φ 22mm cable *5pcs *4.5 meter Φ 22mm cutter *4 pcs
Φ 16mm cable *5pcs *2.3 meter Φ 16mm cutter *4 pcs	Φ 22mm cable *5pcs *4.5 meter Φ 22mm cutter *4 pcs
Φ 16mm cable *5pcs *2.3 meter Φ 16mm cutter *4 pcs	Φ 22mm cable *5pcs *4.5 meter Φ 22mm cutter *4 pcs



# POWER DRAIN CLEANER WITH AUTOFEED

**TT - 62A**



**For 3/4" to 2 1/2" (19mm-54mm) Drain lines**

Using  $\phi$ 8 mm and  $\phi$ 10mm enhanced cable, improving torque transmission, against twisting and winding  
Entirely sealed structure, Sexible cables are put in ABS drums, to ensure clean and convenient use  
Motor power 705W with 0-600 adjustable speed  
Auto-feed device



## PNEUMATIC DRAIN CLEANER WITH ADAPTERS

**TT - 10A**

### Product Description

Environmentally compatible cleaning tool safe and simple application, chemical-free  
Numerous application areas, such as wash basins, bathtubs, toilets, showers, and floor drains

Precise-fitting high-quality rubber adapter: long service life and complete sealing of drain openings

Force pump cleaner uses the air pump principle with water pressure clear obstructions in drains of basins, showers, bathtubs, etc.

including main machine, three adapters





## TT - WPS - B1 C23

### Controller

Display size: 7 inches  
 Resolution: 800 \*480  
 Sensor size: 1 / 3 CMOS  
 Working power supply: 12V  
 Operating current: 450mA  
 Storage medium: 8GB SD card, maximum support 256GB  
 Main functions: video recording, photographing, recording, 8-level digital zoom, photographing while recording  
 Audio: Built-in microphone, support external headphones  
 Video format avi  
 Picture format: JPEG  
 Custom DVR boot logo  
 Counting: metric and imperial conversion  
 Rotatable: horizontal 360° vertical 180°  
 Battery running time: 7 hours

### Coil

Size: 0330\* 132mm  
 Cable material: glass fiber line  
 Cable length:30M  
 Cable diameter: 05mm, 4-cores  
 Viewing angle: 95°  
 Cable color: blue  
 Counter accuracy: 0.1m  
 Counter error: ±5%  
 Battery: polymer lithium battery 12V 4400mAh 48.84wh

### Camera head

Size: 23\* 134mm  
 Pixel:720\*576  
 Sensor size: 1 / 3 inch CMOS  
 Viewing angle: 105°  
 Camera lights: 12PCS highlight LEDS (white) adjustable  
 Lens material: sapphire glass  
 Shell material: stainless steel  
 Waterproof: IP68  
 40mm, 80mm skid

### Camera head

Camera head  
 Pixel: 720\*576  
 Sensor size: 1 / 4inch CMOS  
 Viewing angle: 95°  
 Camera lights: 12PCS highlight LEDS (white) adjustable  
 Transmitter: 512Hz  
 Effective distance: 4.5M  
 Lens material: sapphire glass  
 Shell material: stainless steel  
 Waterproof: IP68Self-levelling

### Charger

Input: AC100- 240V - 50 /60Hz  
 Output: DC 12.6V/1A  
 Battery level display  
 Output plug specification: 5521

### SD card

Size:L24 \*W32 \*H2.1mm  
 Capacity:8GB

### Card reader

Size:L73.5 \* W18.3\*9.6mm  
 Material:ABS  
 Interface:USB  
 Support memory card: TF card,SD card

### Case

Size: L440\* W395\* H165mm.  
 Material: Fireproof board and aluminum alloy

### SKID

Universal skid  
 Range:80 -180mm

### SKID

Size:90 / 120 / 150 / 160 / 180 / 190mm

### Receiver

Frequency: 512hz  
 Signal: Analog  
 Distance: 4.5- 5m



Controller



Coil



Card reader



Charger



SD Card



Camera head



Microphone



Skids



Microphone



### Specifications

Ø 23mm\*134mm waterproof camera head, View angle: 105°  
 14/ inch sensor size, 720\*576 resolution  
 7 inch handheld LCD screen. Resolution 800\*480  
 Video/Audio/Photo  
 Digital zoom function, 8 level  
 30m cable length; 05mm glass fiber line  
 DVR with SD card, max 256G storage  
 4400MAH Li-ion Battery, unit work time more than 7hours  
 Fireproof Aluminium Box



### Date Sheet of Vacuum Pump

		Dual Stage Vacuum Pump													
Model		TTVP215		TTVP225		TTVP235		TTVP245		TTVP260		TTVP280		TTVP2100	
Voltage		220V -50Hz	110V -60Hz	220V -50Hz	110V -60Hz	220V -50Hz	110V -60Hz	220V -50Hz	110V -60Hz	220V -50Hz	110V -60Hz	220V -50Hz	110V -60Hz	220V -50Hz	110V -60Hz
Free Air	CFM	1.5	1.8	2.5	3.0	3.5	3.5	4.5	5.0	6.0	7.0	8.0	9.0	10	12
Displacement	L/min	42	50	70	84	100	114	128	142	170	198	226	254	283	340
Ultimate Vacuum	Pa	3x10		3x10		3x10		3x10		3x10		3x10		3x10	
	mbar	0.003		0.003		0.003		0.003		0.003		0.003		0.003	
	Microns	25		25		25		25		25		25		25	
Motor		1/4		1/3		1/3		1/2		3/4		1		1	
Intake Fitting		1/4 Flare		1/4 Flare		1/4 & 3/8 Flare		1/4 & 3/8 Flare		1/4 & 3/8 Flare		1/4 & 3/8 Flare		1/4 & 3/8 Flare	
Oil Capacity		180		280		360		350		700		600		600	
Dimensions(mm)		275x122x220		280x122x220		320x138x240		320x138x240		380x145x250		380x145x250		380x145x250	
Net Weight(kg)		6		7		11		11.8		16.5		17		17.5	

## STANDARD MANIFOLD GAUGE

## INDUSTRIAL MANIFOLD



### TT - 2 - R32

2 Way Standard Manifold Set with Charging Hoses  
 Provided with Knurled brass nuts to make single hand tightening

Working Pressure: 800PSI  
 Burst Pressure: 4000PSI  
 Hose Length: 1 meter

Model	Description	Refrigerant Gases
TT 2 R32	Standard Manifold Set	R22 R32 R134a R410A

### TT - 2 - R22

2 Way Manifold Set with Charging Hoses

Working Pressure: 500PSI  
 Fittings: 1 / 4" SAE  
 Hose Length: 1 meter

Model	Description	Refrigerant Gases
TT 2 R22	Industrial Manifold Set	R22 R404A R134a R407C



## TT500 -R32

Model	<b>TTRR500; TTRR500-R32</b>
Refrigerants	Category III: R12,R134a, R401C,R406A,R500,R1234YF (suit for RR500-R32) Category IV:R22 R401A R401B R402B R407C R407D R408A R409A, R411A R411B R412A R502 R509 Category V:R402A R404A R407A R407B R410A R507, R32(suit for RR500-R32)
Power	220- 240VAC 50- 60HZ; 110- 120Vac 60Hz
Motor	1HP, Twin Cylinder System
Motor Speed	1450rpm@50Hz; 1750rpm@60Hz
Maximal Current Draw	110V:10A;220V:5A
Compressor	Oil-less,Air-cooled, Piston
High Pressure Shut-off	38.5bar/3850kPa (558psi)
Operating Temperature	0°C-40°C/32- 104 F
Dimensions	400mmx250mmx360mm
Net Weight	14KG



Model	<b>TTRR500</b>		
Refrigerants	R134a	R22	R410A
Liquid	3.00kg/min	3.50kg/min	3.50kg/min
Push/Pull	7.50kg/min	8.50kg/min	9.50kg/min

## RECOVERY CYLINDER

### TT50

Name	Refrigerant recovery cylinders
Color	Green, Blue, Pink, Grey, Silver etc.
Certification	CE
Capacity	30lbs 50lbs
Total Length	524mm
Wall thickness	2.36 mm
Filling medium	Refrigerant
Net Weight	9.1
Working Pressure	48 Bar





# LEAK DETECTOR

## TT 100

### Semiconductor Leak Detector RLD - 100

The RLD-100 features a long life solid electrolyte semiconductor sensor technology is designed to detect all CFC, HCFC, HFC, and HFO refrigerants including R-1234YF (HFO), R-134A (HFC), R-410A (HFC), R-22 (HCFC), R-407C (HFC), R-507 (HFC), R-12 (CFC), R-404C (HFC). The RLD-100 is designed to detect all SNAP approved refrigerant blends.

#### FEATURES

- Solid electrolyte semiconductor sensor, Long life, stable sensor
- R1234yf sensitivity .015 oz/yr
- R134a sensitivity .05 oz/yr
- Digital leak size display, 7-level display
- Audio mute mode
- 3 sensitivity levels
- Low battery indicator
- CE Certified
- Uses 4 AA alkaline batteries
- 2-year warranty includes sensor

Sensitivity	.05 oz/yr R134a, .015 oz/yr R1234yf
Sensor life	>300 hours
Response time	Instantaneous
Power supply	4 AA Alkaline batteries
Battery life	4-6 hours continuous
Warm up time	30 seconds
Probe length	17 inches (43cm)
Numerical display	Seven segment digital display (1 to 7)
Weight	0.95lbs (433g)
Warranty	1 year



## DIGITAL MANIFOLD GAUGE

## TT 100B

### Digital Manifold with two temperature probe clamps and three-color fluoridated tube

- Extra-large LCD screen
- Automatic calculation of superheat and subcooling
- Overload capacity of 2x range (10Mpa)
- A2L Flammable Refrigerant Warning Reminder
- 87 refrigerant data and continuously updated
- APO Auto Power Off gives you longer battery life.
- Magnetic hooks for easy storage



Product Name	Digital manifold
Application	Multifunctional
Color	Yellow
Packing	Black Box + Outer Box
Pressure measurement range	-14.5 - 500 psi/ -14.5 - 800 psi
Pressure Unit	psi, bar, kg/cm2, inHg, kPa, MPa
Battery	3 # AAA
2 channels	Red, blue
Refrigerant	88 types



## TT - 1S

### 360° SWIVEL TORCH

#### TO ACCESS

#### TIGHT SPOTS

A 360° vertical swivel torch head and trigger-start igniter provide easy, one-hand accessibility to soldering, brazing, and heating jobs in tight spaces.

Turbo-swirl flame provides more heat distribution for soldering, brazing, heat-treating, and automotive repair.

For best performance, use with 400g PRO GAS, but Propane is also suitable with lower heat.

100% rugged brass inter-structure to avoid the gas-leakage, 100% fire tested.

Advanced gas control system to easily adjust the size of the flame for different applications.

Flame stable for consistent performance when tilted or momentarily inverted.



### PRODUCT DESCRIPTION

For soldering and brazing. Applying in HVAC and plumbing.

Temperature can reach 1650°C.

360° rotation of torch tube is capable for various using environments.

The continuous working time of cylinder can reach 160 mins.

Suited for 14.1- 16oz cylinder, connection of CGA600 (120-UNEF).

## TT- 1550



DESCRIPTION	JAW SIZE	Weight (KGS)
	U16	1.95
	U20	2.05
	U25	2.00
PEX& MULTI-LAYER PIPE	U32	2.15
	U40	2.20
	U50	-
	U63	2.47



SPECIFICATIONS			
Capacity:	12- 54mm(1/2-2") for stainless steel pipe	Battery	18V Li-ion 4.0Ah
	12- 108mm(1/2-4") for PEXMulti-layer and copper pipe	Battery Charger:	AC 100- 240V
Output:	32KN	Charging Time:	Approx, 80mins
Stroke:	40mm	Service Interval:	30000cycles
Cycle Time:	Approx. 3- 4.5 seconds	Weight:	Approx.3.9kgs (tool with battery)
Oil capacity:	115ml		Approx.6.1kgs/tool with battery and jawl
		Tool Size:	450x81x128mm

PZ-1550 Battery Press Tool Kit		
MODEL NO:	DESCRIPTION	Weight(kgs)
TTPZ-1550	TTPZ-1550 Battery Press Tool Kit without jaws	9.20
	Battery, 18V, 4.0Ah Li-Ion	0.60
ACCESSORRIES	Charger	0.70
	Plastic case	4.10

## TT - 63TB

### SPECIFICATIONS

Model	TTWP63TB
Power supply	220/ 110V. 50/ 60Hz, 1PH
Power	1.0 KW
Ambient temperature	20- 85°C
Welding range	2025-32-40-50-63-mm
Relative humidity	40-95%
Certification	4CE
Heating plate temperature	260±5°C
Handle alarm temperature	>8.5°C
Leakage of electric current	<5mA



## TT - 110TB

### SPECIFICATIONS

Model	TTWP110TB
Power supply	220/ 110V. 50/ 60Hz, 1PH
Power	1.2 KW
Ambient temperature	20- 85°C
Welding range	75 - 90 - 110mm
Relative humidity	40-95%
Certification	CE
Heating plate temperature	260+ z5°C
Handle alarm temperature	>8.5°C
Leakage of electric current	<5mA



### FEATURING

TB-series models perform excellently in plastic pipes welding Industrial class dies and healing plate with thicker materials guaranteed welding temperature Double insulation panels efficiently prevent heat dissipation Engineering rubber handle, galvanized stand and clamping bracket make easier in undesirable situations Quality aluminum heat sink allows the machine to work for a long tirne Digital display is an optional part with better experience

### STANDARD PARTS

Fusion welder	1 set
Support stand	1 ps
Carrying case	1 ps
Die head	1 set
Tool kit	1 set



## TT- 40K

### Electrofusion Machine

The Electrofusion Machine is a reliable, easy-to-use, rugged tool designed to withstand conditions found at typical construction sites throughout the world

Splash proof and highly shock resistant

Can fuse all manufacturers' fittings requiring outputs that are within the voltage and current values listed below.

Welding modes of operation: Barcode Scanner

Has an intuitive user interface that is easy to learn.

Built in Data-logger with internal memory for data storage.

Fusion data can be downloaded to your smartphone to document installation conditions and fusion cycle status



Model	TTWP35K	TTWP40K
Welding made	automatic and manual	
Suitable material	PE PP	
Max. welding range	315mm	400mm
Power supply	220V±20%, 4065- Hz	
Power	3.5kw	4.5KW
Ambient temperature	-15- 45°C	
Output voltage	075-V adjustable	085-V
Output current	0 -55A adjustable	
Control mode	Constant voltage Constant current	
Data record	500	
Output accuracy	±1.5%	
Duty rate	60%	
Data interface	optional: USB, scanner, printer	

### Application Scope

Water supply pipe

Drainage pipe

Chemical industry

Gas delivery system

Mining pipeline



## Product Description

Hydraulic pipe benders provide easier bending than manual mechanical benders.

- ★ Bending range up to 4", portable design for construction.
- ★ Cold bending pipes only in one turn. Up to 90 degree, hydraulic equipment makes more precise bending.
- ★ Fast setup and disassembly, convenient removing with bottom wheels.
- ★ Friendly use for European Environmental Standard with CE.
- ★ Suitable for cold bending of thick-walled pipes (gas, water and steam pipes, non-heated black iron pipes, galvanized pipes), up to 90°

### TT-HHW - 1A



### TT - HHW 2



## Specifications

Model No.	Max Pressure	Max Stroke	Pipe wall thickness	Bending dies	G.W.	Dimension	Packing way
TTHHW-1A	6T	150mm	1.5-3.5mm	3/8", 1/2", 3/4", 1"	17 kg	43x38x13cm	Metal case
TTHHW-2	13T	250mm	2.75-4.5mm	1/2", 3/4", 1", 1 1/4", 1 1/2", 2"	49 kg	73x32x20cm	Plywood
TTHHW-3	20T	190mm	2.75-5mm	1/2", 3/4", 1", 1 1/4", 1 1/2", 2" 1/2", 3/4", 1", 1 1/4", 1 1/2", 2"	98 kg	93x40x21cm	
TTHHW-4	23T	370mm	2.75-6mm	1/2", 3/4", 1", 1 1/4", 1 1/2", 2" 2 1/2", 3", 4"	149 kg	118x46x23cm	



## TT-HHW - 22A

### Product Description

- ★ Designed to bend soft copper and coated soft copper of 622-mm as well as multilayer pipes up to 26mm.
- ★ For sanitary, heating, air conditioning, refrigerating and hydraulic field.
- ★ Also for DIN EN 1057 and tubes of press fitting systems.
- ★ No costs for fittings, storage, procurement. Savings in soldering joints, pressing joints and working hours.
- ★ Suitable for cold bending of soft copper tubes, coated copper tubes, multi-layer composite tubes, up to 90°

### Specification

- ★ Model: TTHHW-22A
- ★ Bending range: 6-22mm
- ★ Bending dies: 1/4", 5/16", 3/8", 1/2", 5/8", 3/4", 7/8"
- ★ Wall thickness of pipe: 1mm
- ★ Dimension: 52x31x9cm



### Ordering Information

Description	N.W(kg)
TTHHW-22 complete set with all dies	4.1
TTHHW-22A complete set with all dies	5.1

## TT-HHW - 25S

### Product Description

- ★ Designed to bend soft copper and coated soft copper of 622-mm as well as multilayer pipes up to 26mm.
- ★ For sanitary, heating, air conditioning, refrigerating and hydraulic field.
- ★ Also for DIN EN 1057 and tubes of press fitting systems.
- ★ No costs for fittings, storage, procurement. Savings in soldering joints, pressing joints and working hours.
- ★ Suitable for cold bending of soft copper tubes, coated copper tubes, multi-layer composite tubes, up to 90°



### Ordering Information

Bending Shoe Size	A (mm)	B (mm)	C (mm)	Wall Thickness	
				Steel/SS Pipe(mm)	Copper tubes(mm)
3/8"	100	42	11	0.8	1.0
1/2"	119	50.5	13	1.0	1.2
9/16"	139	55.5	15	1.0	1.2
5/8"	159	68.5	17	1.0	1.2
3/4"	179	77	20	1.0	1.2
7/8"	225	98.5	23	1.2	1.5
1"	225	97	26	2.0	1.6

### Ordering Information

Model No:	Bending Range	Description	N.W (kg)	Packing Size
TTHHW-25S	∅ 10-25 mm	3/8", 1/2", 9/16", 5/8", 3/4", 7/8", 1"	25	66x46x18cm



# TUBE EXPANDER TOOL KIT



## TT- 100A-L

Lever Tube Expanding Tool Kit CT-100A-L

Size: TTCT-100A-L: 3/8", 1/2", 5/8", 3/4", 7/8", 1", 1-1/8", 1-1/4", 1-3/8", 1-1/2" & 1 5/8" TTCT-312: 1/4" 1- 5/8" (6-42 mm) +CT-208 3/16" -1" -1/2" ( 5 - 38mm) +CT-207

Suitable for copper tubes, aluminum tubes, thin-walled stainless steel tube and other hoses

expansion expansion expansion of copper tubes, so that the two copper tubes connected with each other!



Item No.	Name	Size
TTCT-23	Tube Expander	1/4"; 5/16" 3/8" 1/2" 5/8"; 3/4"; 7/8"
TTCT-94	Swaging Punch	1/2"; 5/8"; 7/8"
TTCT-95	Swaging Punch	1/4" 5/16" 3/8" 1/2" 5/8"
TTCT-96	Swaging Punch	1/4" 5/16" 3/8" 1/2" 5/8"; 3/4"
TTCT-193	Swaging Punch	1/4" 5/16" 3/8" 1/2" 5/8"
TTCT-100A	Tube Expander Tool Kit	3/8"-1-1/8"; 7/8"; 1-1/8"; 1-1/4"; 1-3/8"; 1-1/2" With CT-274 & CT-208
TTCT-100M	Tube Expander Tool Kit	10mm, 12mm, 16mm, 19mm, 22mm, 25mm, 28mm, With CT-274 & CT-208
TTCT-100AL	Tube Expander Tool Kit	3/8"-5-1/2"; 1-1/8"; 1-1/4"; 1-1/2"; 1-3/4"; 1-7/8"; 2"; 2-1/8"; 2-1/4"; 2-3/8"; 2-1/2" With CT-274 & CT-208
TTCT-100ML	Tube Expander Tool Kit	10mm, 12mm, 16mm, 19mm, 22mm, 25mm, 28mm, 32mm, 35mm, 38mm, 42mm, With CT-274 & CT-208
TTCT-300A	Tube Expander Tool Kit	HYDRAULIC, 3/8"-1-1/8"; 1-1/4"; 1-1/2"; 1-3/4"; 1-7/8"; 2"; 2-1/8"; 2-1/4" With CT-107 & CT-207
TTCT-300M	Tube Expander Tool Kit	HYDRAULIC, 10mm, 12mm, 16mm, 19mm, 22mm, 25mm, 28mm With CT-107 & CT-207
TTCT-300AL	Tube Expander Tool Kit	HYDRAULIC, 3/8"-5-1/2"; 1-1/8"; 1-1/4"; 1-1/2"; 1-3/4"; 1-7/8"; 2"; 2-1/8"; 2-1/4" With CT-107 & CT-207
TTCT-300ML	Tube Expander Tool Kit	HYDRAULIC, 10mm, 12mm, 16mm, 19mm, 22mm, 25mm, 28mm, 32mm, 35mm, 38mm, 42mm With CT-107 & CT-207

## FLARING & SWAGING SET

### TT- 278

#### Product Description

CT-278 Tube Expander Refrigeration Soft Copper Tube Flaring Swaging Tool Kit

#### Features:

1. Flaring and expanding tubes, rapid conversion, spiral feeding
2. Two expansion splints with 9 sizes, hardness steel material, chrome plating
3. Automatic positioning center gantry, use more accurate

#### Specification:

1. Name: 278K pipe expander
2. Surface treatment: mirror
3. Expanded tube size: 1/8, 3/16, 1/4, 5/16, 3/8, 7/16, 1/2, 5/8, & 3/4 (approx. 3-18.75 mm)
4. Expansion tube size: 3/16, 1/4, 5/16, 3/8, 1/2, 5/8, 3/4 (about 4.6-18.75 mm)
5. Package weight: 3kg

#### Include:

- 1 x 45" Extrusion Expander (with 5 Tube Expanders)
- 1 x cutting knife (3-28 mm)
- 1 x ratchet wrench
- 1 x plastic box





## TT- H2A/H3A/H4A

### Product Description

Fast, clean pipe cutting by hand or power.

Extra-long shank protects adjustment threads. While an extra-large handle provided for quick, easy adjustment.

Second handle on H3A, H4A makes two-man leverage possible on large pipe sizes.

### Ordering Information

Catalog No.	Model No..	Description	Pipe Capacity		N.W(kg)
			in.	mm	
4011010	TTH2A	Heavy-Duty Pipe cutter	1/8 - 2	3-50	3.3
4011110	TTH3A	Heavy-Duty Pipe cutter	1-3	25-75	3
4011210	TTH4A	Heavy-Duty Pipe cutter	2-4	50-100	5.5



## HINGED PIPE CUTTERS

## TT- H2S/H3S/H4S

### Product Description

Designed for rapid cutting of 1" through 8" steel pipe, heavy-wall steel pipe and cast-iron pipe

The cutters operate with minimal cutter rotation (90 -110 degree) as necessary for fight quarters

During cutting operation, there is no sparks, serving ybs with such special requirements

Portable and light weight, easy for transportation

Suitable to cut steel pipe, cast iron Pipe, galvanized pipe, ductile iron pipe and black iron pipe, stainless steel pipe.



### Specifications

Catalog No.	Item Model	For Steel Pipe		For Cast Iron Pipe		For Stainless Steel Pipe	
		Wall Thickness (mm)	Pipe Size(inch)	Wall Thickness (mm)	Pipe Size(inch)	Wall Thickness (mm)	Pipe Size(inch)
311205	TTH2S	1"-2 1/2"	2.77mm 5.15mm	1"-2 1/2"	2.77mm 5.15mm	1"-2 1/2"	2.77mm 5.15mm
311201	TTH4S	2"-4"	2.77mm 6.02mm	2"-4"	3mm -6mm	2"-4"	3mm -6mm
311202	TTH6S	4"-6"	3mm 7.11mm	4"-6"	3mm -6mm	4"-6"	3mm -6mm
311203	TTH8S	6"-8"	3.4mm 8.18mm	6"-8"	3.4mm -6mm	6"-8"	3.4mm -6mm





# PIPE JACK STAND

## Product features

S, M and L stands for different height, A and B ball head can mount 1107 stand  
1107 series pipe stands equip lock ring allowing quick height adjustment.

Foldable structure, easy for transportation and stock.

Durable V-head, easy to install, for 1/8"-12" (3mm-300mm),

suitable in many applications, Like pipe threading, cutting, grooving etc.

A portable handle wrapped by rubber is also a highlight.

Easy carrying and storage.

### V head pipe stands

Catalog No.	Model No.	Description	Height adjustment LOW - High		Max pipe capacity		Max loading capacity		Weight
			in.	cm	in.	cm	lb.	kg	
730010	1107-S	V head pipe stand	20 - 36 1/2	50 - 93.5	12	30	2500	1134	12.9
730020	1107-M	V head pipe stand	23 - 42 1/2	60 - 108	12	30	2500	1134	14.1
730030	1107-L	V head pipe stand	28 - 52	71 - 132	12	30	2500	1134	15.9

### Ball head for 1107

Catalog No.	Model No.	Description	Max pipe capacity		Max loading capacity		Weight
			in.	cm	lb.	kg	
730131	A	Ball head for 1107	12	30	1000	454	1.5
730132	B	Ball head for 1107	12	30	2000	900	2.8



## PORTABLE TRI-STAND CHAINVISE

### TT- H401

#### Product Description

Model TTH401 includes integral legs and tray fold in for easy carrying and setup. Large vise base overhangs front legs for clear tool swing. Casting Aluminum base, lightweight but strong enough.

Model TTH401 includes slots for hanging tools, pipe rest, three-pipe benders, and ceiling brace screw.

Model TTH401 features a larger work surface.

Model TTH402 Rugged cast-iron base has handy pipe rest and bender.

Model TTH401 and TTH402 Crank handle is anchored to base.

- Collapsible, extremely stable frame
- Attachment of various tools is possible
- Screw fixture for 1" pipe to enable overhead support of the unit **without integrated chain vice**
- Bending of pipes  $\varnothing$  3/8" - 1/2" - 3/4" **without integrated chain vice**
- Bending of pipes  $\varnothing$  3/8" - 1/2" - 3/4"
- Universal vice attachments applicable for pipe vice and chain pipe vices



#### Ordering Information

Catalog No.	Model No.	Description	Pipe Capacity		NW
			in.	mm	kg
602201	TTH401	Portable TRISTAND China Vise	1/8 - 6	3 - 150	20
602208	TTH402	Top Screw Bench China Vise	1/8 - 6	3 - 150	7



## Product Description

Yoke and base made of strong, dependable iron.  
Hardened alloy steel jaws and convenient pipe rest and bender.



## Ordering Information

Catalog No.	Model No..	Description	Pipe Capacity		N.W
			in.	mm	kg
4021010	HL21	Bench Yoke Vise	1/8-2	3-50	4
4021011	HL22	Bench Yoke Vise	1/8-2 1/2	3-60	6.25
4021012	HL23	Bench Yoke Vise	1/8-3	3-80	8
4021013	HL25	Bench Yoke Vise	1/8-4	3-100	12

## HYDRAULIC POWER PIPE CUTTER

### Product Description

The Model QG12C Hydraulic Power Pipe Cutter offers 2" to 12" schedule 10/ 40 cutting range. Utilizing displacement type cutter wheel technology. The operator controls the feeding rate by pumping the hydraulic pump throughout the operation. The QG12C cuts pipe with clean cutting edge, no sparks, dust or open flame. The processed pipes which by OG12C can be threaded or grooved with no extra processing. An induction motor insures very quiet operation.

- Easily cuts by displacing instead of removing pipe material.
- No abrasive dust, dangerous sparks, or open flame.
- Quickly cuts steel pipe with minimal burr
- Great for cutting pipe for groove joining
- Heavy-duty design is perfect for field or shop use.
- Quiet operation
- Hongli Reinforced Alloy cutting Wheel which is suitable to squeeze

### Specifications

- **Cutting Capacity:** 2" to 12" schedule 1040/
- **Motor:** 750W induction, 5060/Hz
- **Spindle Speed:** 24 RPM
- **Switch:** ON/OFF heavy duty switch

### Ordering Information

Catalog No.	Model No..	Description	N.W kg
308203	Q612C	Hydraulic Power Pipe Cutter, 110V/60Hz	120
308204	Q612C	Hydraulic Power Pipe Cutter, 220V/50Hz	120
<b>Accessories</b>			
		Cutting Wheel	1.25
		Ball Head Pipe Support	





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