



2025^{NEW}



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public number



official website

PREMIUM REFRIGERATION TOOL SERIES

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Vacuum Pump **P01-09**



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Use For
R32

DIGITAL DISPLAY REFRIGERANT RECOVERY MACHINE



ST-520D

LIGHT WEIGHT FAST RECOVERY

Brushless DC Motor

Safe, sparkless design
Light weight, easy to carry

Digital Display

Easy and accurate reading of pressure values
Backlight for night use

Built-in Pressure Sensor

Accurate measurement of pressure values
Overpressure protection (38kg)

Double Cylinder Design

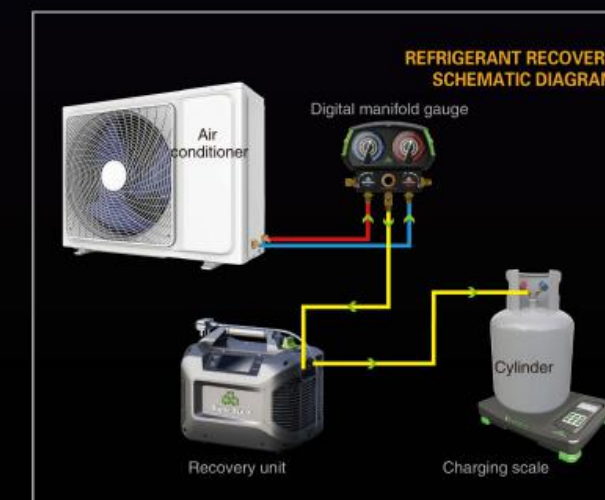
Quick recovery
Compact structure

Oilless Compressor

Suit for R32, R134, R410 and so on.

Purge

Prevent mixing of different refrigerants

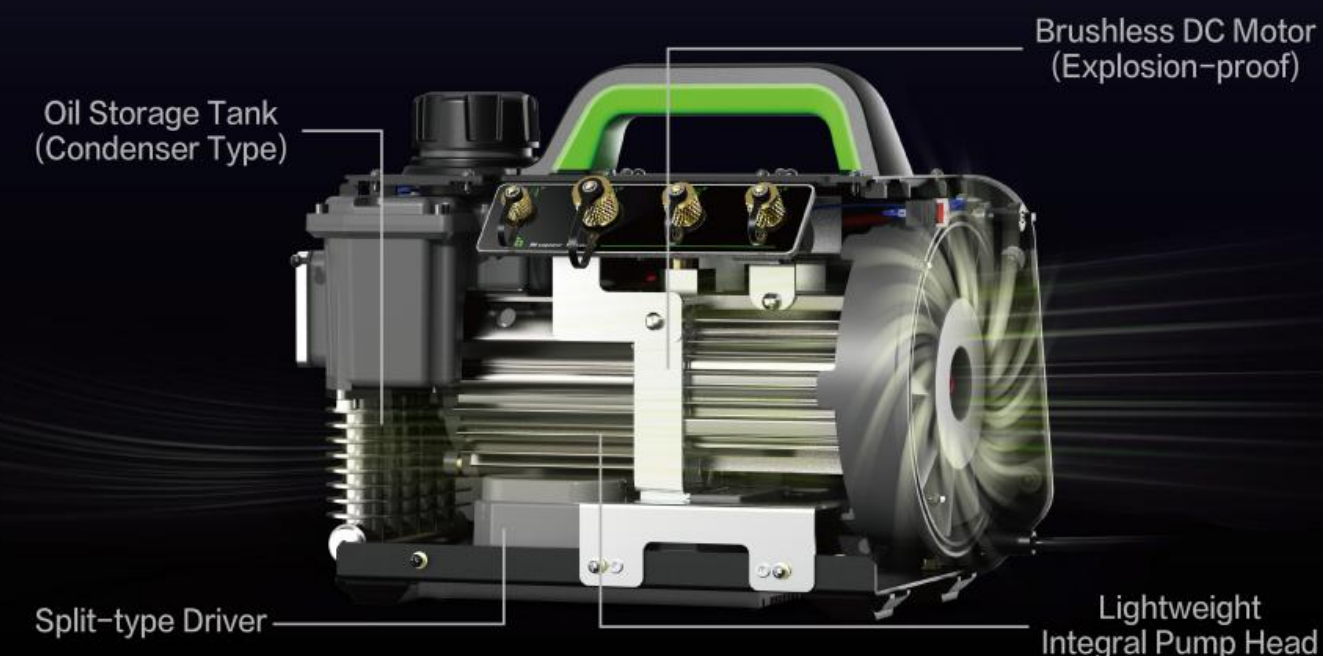


Item No.	ST-520D		
Suitable refrigerant gas	III series: R12, R134a, R401C, R406A, R500, 1234YF IV series: R22, R401A, R401B, R402B, R407C, R407D, R408A, R409A, R411A, R411B, R412A, R502, R509 V series: R402A, R404A, R407A, R407B, R410A, R507, R32		
Cylinder quantity	2 cylinder		
Power	220V-240V, 50/60Hz		
Motor	750W(1HP)		
Speed of revolution	2500 RPM		
Electric current	220V:6A		
Compressor	No oil lubricate, Forced air cooling, Piston type		
High pressure protection	38.5bar / 3850kPa(558psi)		
Operating temperature	0°C ~ 40°C / 32 ~ 104 °F		
Dimensions	375 x 250 x 320 mm		
Net weight	10 kg		
Refrigerant gas	R134a	R22	R410A
Liquid	2.40 kg/min	2.70 kg/min	3.50 kg/min
Push-pull mode	7.50 kg/min	8.50 kg/min	9.50 kg/min

AIR COOLED VACUUM PUMP

ST-FL8

PATENTED



PENETRATIVE INTEGRAL HEAT DISSIPATION

Keep The Vacuum Pump In the Best Working Condition

NEW INNOVATION
REVOLUTION

AIR COOLED VACUUM PUMP

ST-FL8

PATENTED



INTELLIGENT VACUUM PUMP

Separate design of pump head and oil storage tank

Stable vacuum degree, fast pumping.
Keep the vacuum pump in the best working condition.

DC motor design

Brushless DC motor, no spark.
Suit for R32, R134, R410 and so on.

Oil storage tank(Condenser type design)

Oil temperature heat dissipation speed, large heat
dissipation area, uniform, obvious cooling.

Lightweight design of pump head

High strength aviation aluminum for pump head.

Super air cooled design

Big fan for penetrative integral heat dissipation.

Item No.	ST-FL8	ST-FL15
Flow Rate	8 CFM 241 m ³ /h	15 CFM 425 m ³ /h
Pole No.	Dual Stages	Dual Stages
Power	2Pa	2Pa
Ultimate Vac.	15 microns	15 microns
Inlet Port	1/4", 1/2", 3/8", 3/8" flare	1/4", 1/2", 3/8", 3/8" flare
Oil Capacity	330 ml	330 ml
Dimension	388x214x288mm	388x214x288mm
Weight	12.3 kgs	12.3 kgs



MADE BY DSZH TOOL

LI-BATTERY VACUUM PUMP ST-2BMC

PATENTED



Use For
R32

INTELLIGENT VACUUM PUMP

Safety sparkless.

Intelligent brushless and variable frequency.

Efficient ultra-fast pumping speed.

Portable light weight, easy to carry and transport.

Item No.	ST-2BMC	ST-2SC
Flow Rate	2.5 CFM 70 L/MIN	2.5 CFM 70 L/MIN
Pole No.	Dual Stages	Single Stage
Power	1/4 HP	1/4 HP
Ultimate Vac.	2x10 ⁻¹ Pa	2 Pa
Inlet Port	1/4" flare	1/4" flare
Oil Capacity	240 ml	300 ml
Dimension	249.5x105x200mm	249.5x105x200mm
Weight	4 kgs	3.5 kgs



MADE BY DSZH TOOL

LI-BATTERY VACUUM PUMP ST-4BMC

PATENTED



Use For
R32

INTELLIGENT VACUUM PUMP

Safety sparkless.

Intelligent brushless and variable frequency.

Efficient ultra-fast pumping speed.

Portable light weight, easy to carry and transport.

Item No.	ST-4BMC	ST-4SC
Flow Rate	4.5 CFM 127 L/MIN	4.5 CFM 127 L/MIN
Pole No.	Dual Stages	Single Stage
Power	1/4 HP	1/4 HP
Ultimate Vac.	2x10 ⁻¹ Pa	2 Pa
Inlet Port	1/4" & 3/8" flare	1/4" & 3/8" flare
Oil Capacity	720 ml	890 ml
Dimension	363x128x276mm	363x128x276mm
Weight	6 kgs	5.4 kgs



MADE BY DSZH TOOL

INTELLIGENT VACUUM PUMP

ST-2BM

PATENTED



Use For
R32

INTELLIGENT VACUUM PUMP

- ★ Sparkless brushless motor use for R32、R134、R410 and so on.
- ★ Portable and novel appearance.
- ★ Integrated cylinder, superior air impermeability.

Item No.	ST-2BM	ST-2S
Flow Rate	2.5 CFM	2.5 CFM
	71 L/MIN	71 L/MIN
Pole No.	Dual Stages	Single Stage
Power	1/4 HP	1/4 HP
Ultimate Vac.	2×10^{-1} Pa	2 Pa
Inlet Port	1/4" flare	1/4" flare
Oil Capacity	240 ml	300 ml
Dimension	215.5x105x200mm	215.5x105x200mm
Weight	3.5 kgs	3 kgs

MADE BY DSZH TOOL



INTELLIGENT VACUUM PUMP

ST-4BM

PATENTED



Use For
R32

INTELLIGENT VACUUM PUMP

- ★ Sparkless brushless motor use for R32、R134、R410 and so on.
- ★ Portable and novel appearance.
- ★ Integrated cylinder, superior air impermeability.

Item No.	ST-4BM	ST-4S
Flow Rate	4.5 CFM	4.5 CFM
	127 L/MIN	127 L/MIN
Pole No.	Dual Stages	Single Stage
Power	1/4 HP	1/4 HP
Ultimate Vac.	2×10^{-1} Pa	2 Pa
Inlet Port	1/4" & 3/8" flare	1/4" & 3/8" flare
Oil Capacity	720 ml	890 ml
Dimension	290x128x276mm	290x128x276mm
Weight	5.3 kgs	4.7 kgs



MADE BY DSZH TOOL

INTELLIGENT VACUUM PUMP

ST-8BM

PATENTED



Use For
R32

INTELLIGENT VACUUM PUMP

- ★ Sparkless brushless motor use for R32、R134、R410 and so on.
- ★ Portable and novel appearance.
- ★ Integrated cylinder, superior air impermeability.

Item No.	ST-6BM	ST-8BM	ST-10BM	ST-12BM
Flow Rate	6.5 CFM	8.5 CFM	10.5 CFM	12.5 CFM
	184 L/MIN	241 L/MIN	297 L/MIN	354 L/MIN
Pole No.	Dual Stages	Dual Stages	Dual Stages	Dual Stages
Power	1 HP	1 HP	1 HP	1 HP
Ultimate Vac.	2x10 ⁻¹ Pa	2x10 ⁻¹ Pa	2x10 ⁻¹ Pa	2x10 ⁻¹ Pa
Inlet Port	1/4" & 3/8" flare	1/4" & 3/8" flare	1/4" & 3/8" flare	1/4" & 3/8" flare
Oil Capacity	600 ml	600 ml	600 ml	600 ml
Dimension	349x139x333mm	349x139x333mm	349x139x333mm	349x139x333mm
Weight	11 kgs	11 kgs	11 kgs	11 kgs

MADE BY DSZH TOOL



INTELLIGENT VACUUM PUMP

ST-15BM

PATENTED



Use For
R32

INTELLIGENT VACUUM PUMP

Overall Double Steel Structure

Ultra-high tightness.
Higher ultimate vacuum.

Industrial-grade Design

Super durable.
Ultra-high flow rate.

Built-in intelligent control valve

Intelligent anti-reflux.
Avoid oil contamination When the refrigeration system is shut down.

Gas Ballast Valve

Accelerate the extraction of steam
without contaminating the oil.

Intelligent Motor

Powerful, easy to start in -1℃ environment.
Brushless variable frequency motor, suit for R32、R134、R410 and so on.

Item No.	ST-15BM
Flow Rate	15 CFM
	25 m³/h
Pole No.	Dual Stages
Power	5x10 ⁻¹ Pa
Ultimate Vac.	15 microns
Inlet Port	1/4", 5/16" & 3/8" flare
Oil Capacity	1100 ml
Dimension	407x161x334mm
Weight	14.2 kgs

RATCHET ECCENTRIC CONE TYPE FLARING TOOL

ST-R806A

PATENTED



- ★ RATCHET (REMOVABLE HANDLE)
- ★ CAN BE USED WITH ELECTRIC DRILL
- ★ HIGH STRENGTH ALUMINUM ALLOY CLAMP
- ★ ALUMINUM ALLOY CLAMP LIMIT PLATE
- ★ FORGED HIGH STRENGTH ALUMINIUM ALLOY YOKE
- ★ SUPER TACTILITY, PRECISE FLARING, LIGHTWEIGHT

Item No.	Description	
ST-R806A	For inch:1/4",5/16",3/8",1/2",5/8",3/4"	
ST-R806M	For metric:6mm,9mm,10mm,12mm,16mm,19mm	
ST-R806FT-L	ST-R806+ST-532+ST-207	For inch and metric:1/4",5/16",3/8",1/2",5/8",3/4" & 6,9,10,12,16,19mm

ECCENTRIC CONE TYPE FLARING TOOL

ST-806A

PATENTED



- ★ HIGH STRENGTH ALUMINUM ALLOY CLAMP
- ★ ALUMINUM ALLOY CLAMP LIMIT PLATE
- ★ FORGED HIGH STRENGTH ALUMINIUM ALLOY YOKE
- ★ SUPER TACTILITY, PRECISE FLARING, LIGHTWEIGHT

Item No.	Description	
ST-806A	For inch:1/4",5/16",3/8",1/2",5/8",3/4"	
ST-806M	For metric:6mm,9mm,10mm,12mm,16mm,19mm	
ST-806FT-L	ST-806+ST-532+ST-207	For inch and metric:1/4",5/16",3/8",1/2",5/8",3/4" & 6,9,10,12,16,19mm

ST-809AM

PATENTED

- ★ METRIC & INCH 2 IN 1
- ★ SUPPORT 9MM PIPE FLARE
- ★ HIGH-STRENGTH ALUMINUM ALLOY, LIGHTWEIGHT, SUPER DURABLE

Item No.	Description	
ST-809AM	Metric & Inch 2 in 1:6mm,1/4",9mm,3/8",10mm,12mm,1/2",5/8"(16mm) & 3/4"(19mm)	



FLARING & SWAGING TOOL

ST-275A-L

PATENTED



Multi sizes expander head



Accurate flaring



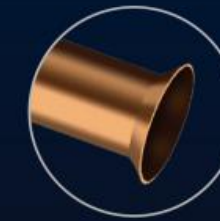
Accurate expanding

Item No.	Description
ST-275A-L	Flaring : 1/4", 5/16", 3/8", 1/2", 5/8", 3/4"
	Swaging : 3/16", 1/4", 5/16", 3/8", 1/2", 5/8", 3/4"

FLARING TOOL

ST-519FT

PATENTED



⊙ ACCURATE FLARING

⚡ HIGH EFFICIENCY

🍃 LIGHTWEIGHT



Multi-size flaring clamps



Eccentric flaring cone



Can be used with electric drill
More efficient and less labor

Item No.	Description
ST-519FT	1/4", 3/8", 1/2", 5/8" (16mm), 3/4" (19mm)
	Optional Flaring Clamps: 5/16" (8mm), 6mm, 9mm, 10mm, 12mm

LI-BATTERY FLARING TOOL

ST-E900

PATENTED



STRONG POWER

ACCURATE FLARING

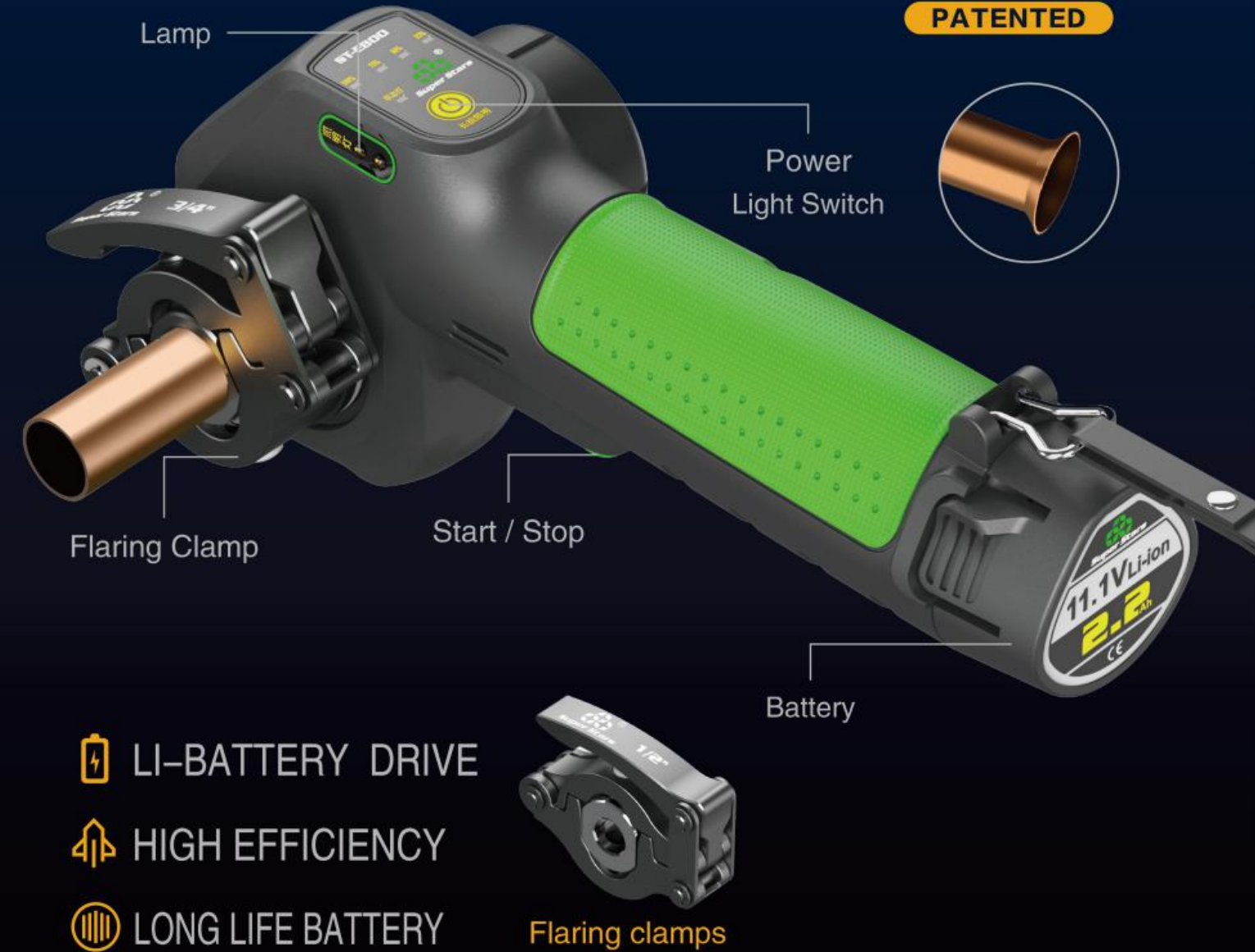
LONG LIFE BATTERY

Item No.	ST-E900A	ST-E900AM
Power	11.1V Lithium battery	
Applicable Tube	Copper tube	
Tube Diameter	1/4", 3/8", 1/2", 5/8", 3/4"	6mm, 1/4", 9mm, 3/8", 12mm, 1/2", 5/8"(16mm), 3/4"(19mm)
Dimension	243x101x102 mm	
Weight	3.5 kgs	3.9 kgs

LI-BATTERY FLARING TOOL

ST-E800A

PATENTED



LI-BATTERY DRIVE

HIGH EFFICIENCY

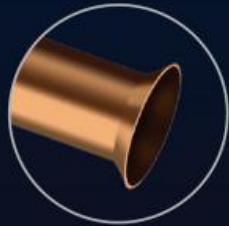
LONG LIFE BATTERY

Item No.	ST-E800A
Power	11.1V Lithium battery
Applicable Tube	Copper tube
Tube Diameter	1/4", 3/8", 1/2", 5/8"(16mm), 3/4"(19mm) Optional flaring clamps: 6mm, 9mm, 10mm, 12mm
Dimension	245x114x102 mm
Weight	4.1 kgs

ELECTRIC CORDLESS FLARING TOOL

ST-E809AM-L

- ★ METRIC & INCH 2 IN 1
- ★ SUPPORT 9MM PIPE FLARE
- ★ CORDLESS FLARE MAKE WORK EASIER



PRECISE FLARE, EXQUISITE WORKMANSHIP, SUPER DURABLE

Item No.	Description
ST-E809AM-L	Metric & Inch 2 in 1:6mm,1/4",9mm,3/8",10mm,12mm,1/2",5/8"(16mm) & 3/4"(19mm)

LI-BATTERY TUBE EXPANDER

ST-E300

PATENTED



 LI-BATTERY DRIVE

 HIGH EFFICIENCY

 LONG LIFE BATTERY

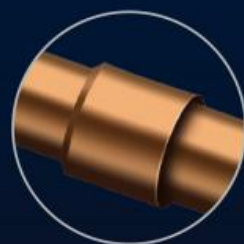
Item No.	Description	
ST-E300A	ST-E300A+ST-650	For inch: 3/8",1/2",5/8",3/4",7/8",1",1-1/8"
ST-E300M	ST-E300M+ST-650	For metric: 10,12,16,19,22,25,28mm
ST-E300AL	ST-E300A+ST-650	For inch: 3/8",1/2",5/8",3/4",7/8",1",1-1/8",1-1/4",1-3/8",1-1/2",1-5/8"
ST-E300ML	ST-E300M+ST-650	For metric: 10,12,16,19,22,25,28,32,35,38,42mm



MADE BY DSZH TOOL

HYDRAULIC TUBE EXPANDER

ST-300



High Strength Aluminum Alloy Expander Body

Ergonomic Non-slip Handle

LIGHTWEIGHT FORGED ALUMINUM EASY TO CARRY

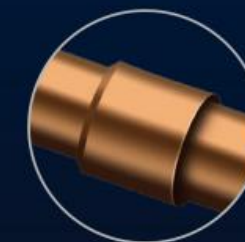
	Item No.	Description	
	ST-300A	ST-300A+ST-650	For inch: 3/8", 1/2", 5/8", 3/4", 7/8", 1", 1-1/8" O.D. Tubing
	ST-300M	ST-300M+ST-650	For metric: 10, 12, 16, 19, 22, 25, 28mm O.D. Tubing
	ST-300AL	ST-300A+ST-650	For inch: 3/8", 1/2", 5/8", 3/4", 7/8", 1", 1-1/8", 1-1/4", 1-3/8", 1-1/2", 1-5/8" O.D. Tubing
	ST-300ML	ST-300M+ST-650	For metric: 10, 12, 16, 19, 22, 25, 28, 32, 35, 38, 42mm O.D. Tubing



MADE BY DSZH TOOL

LEVER TUBE EXPANDER

ST-100



High Strength Aluminum Alloy Body

Ergonomic Non-slip Handle

LIGHTWEIGHT FORGED ALUMINUM EASY TO CARRY

Item No.	Description	
ST-100A	ST-100A+ST-532	For inch: 3/8", 1/2", 5/8", 3/4", 7/8", 1", 1-1/8" O.D. Tubing
ST-100M	ST-100M+ST-532	For metric: 10, 12, 16, 19, 22, 25, 28mm O.D. Tubing

ELECTRIC SWAGING PINS

ST-E900S

PATENTED



Item No.	Description	Item No.	Description
ST-E900S-04	Use for 1/4" O.D.Tubing	ST-E900S-10	Use for 5/8" O.D.Tubing
ST-E900S-06	Use for 3/8" O.D.Tubing	ST-E900S-12	Use for 3/4" O.D.Tubing
ST-E900S-08	Use for 1/2" O.D.Tubing	ST-E900S-14	Use for 7/8" O.D.Tubing

ELECTRIC FLARING PINS

ST-E900F

PATENTED



ELECTRIC SWAGING PINS
ST-E900S-4S
PATENTED

Description:
1/4"(6mm)、
3/8"(9mm)、
1/2"(12mm)、
5/8"(16mm)



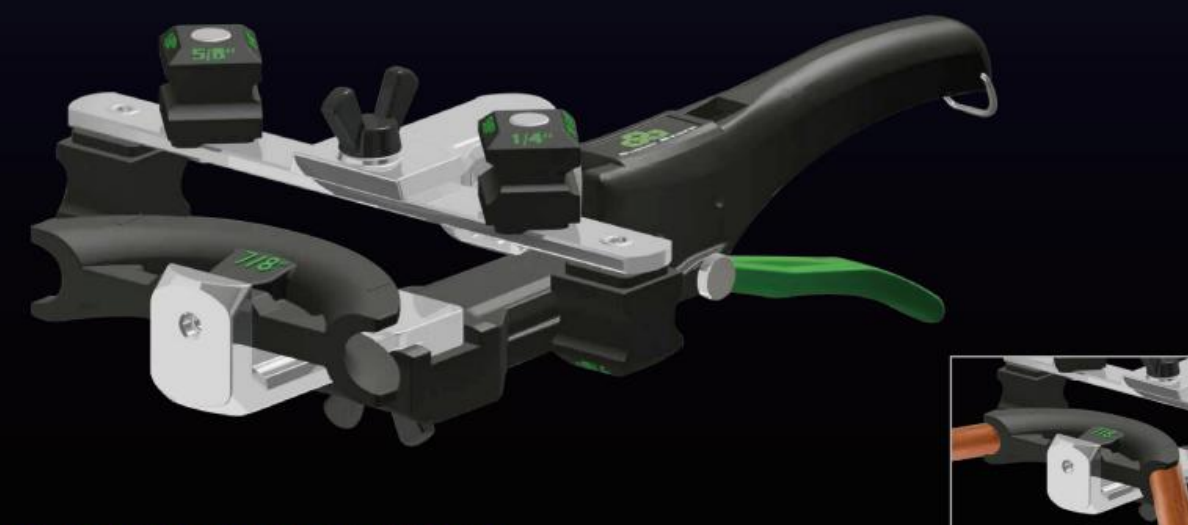
Item No.	Description	Item No.	Description
ST-E900F-04	Use for 1/4" O.D.Tubing	ST-E900F-10	Use for 5/8" O.D.Tubing
ST-E900F-06	Use for 3/8" O.D.Tubing	ST-E900F-12	Use for 3/4" O.D.Tubing
ST-E900F-08	Use for 1/2" O.D.Tubing		

90° PIPE BENDER SET

ST-R999



REVERSE BENDING



EASY OPERATION PERFECT BENDING

Item No.	Description
ST-R999+ST-207	For inch:1/4",5/16",3/8",1/2",5/8",3/4",7/8" For metric:6,8,10,12,16,19,22mm In blow-mold carrying case Aluminum wheel



MADE BY DSZH TOOL

LI-BATTERY TUBE BENDER

ST-E999

PATENTED



ELECTRIC HYDRAULIC, STRONG BENDING DESIGN



Quick installation of bender former and universal cross easy to change different size tube



7-in-1 bend block easy to change different size tube



Li-battery drive, easy to bend

Item No.	Description	
ST-E999	1/4"(6mm), 5/16"(8mm), 3/8"(10mm), 1/2"(12mm), 5/8"(16mm), 3/4"(19mm), 7/8"(22mm)	In blow-mold carrying case
ST-E999L	1/4"(6mm), 5/16"(8mm), 3/8"(10mm), 1/2"(12mm), 5/8"(16mm), 3/4"(19mm), 7/8"(22mm), 1"(25mm), 1-1/4"(32mm)	Aluminum wheel



MADE BY DSZH TOOL

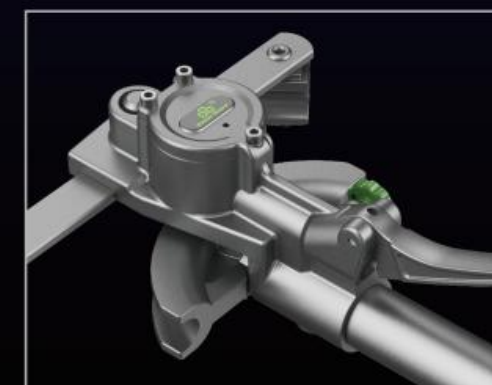
HYDRAULIC TUBE BENDER

ST-Y999

PATENTED



STRENGTHENING BENDING



FORGED ALUMINUM ALLOY, LIGHTWEIGHT

Item No.	Description	
ST-Y999	1/4"(6mm), 5/16"(8mm), 3/8"(10mm), 1/2"(12mm), 5/8"(16mm), 3/4"(19mm), 7/8"(22mm)	In blow-mold carrying case Aluminum wheel

180° 3-IN-1 LADDER TYPE TUBE BENDER

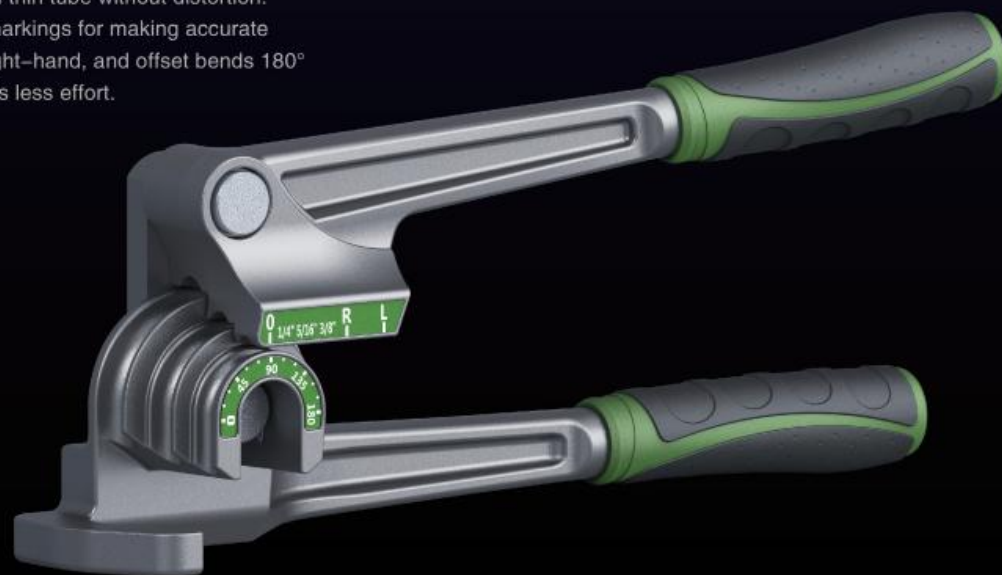
PATENTED



ST-612A For 1/4", 3/8" & 1/2" O.D. Tubing

ST-612M For 6mm, 10mm & 12mm O.D. Tubing

- ★ Aluminum alloy body
- ★ Open size—slips on tubing at any point, can bend 0.4mm thin tube without distortion.
- ★ Calibrated markings for making accurate left-hand, right-hand, and offset bends 180° start requires less effort.

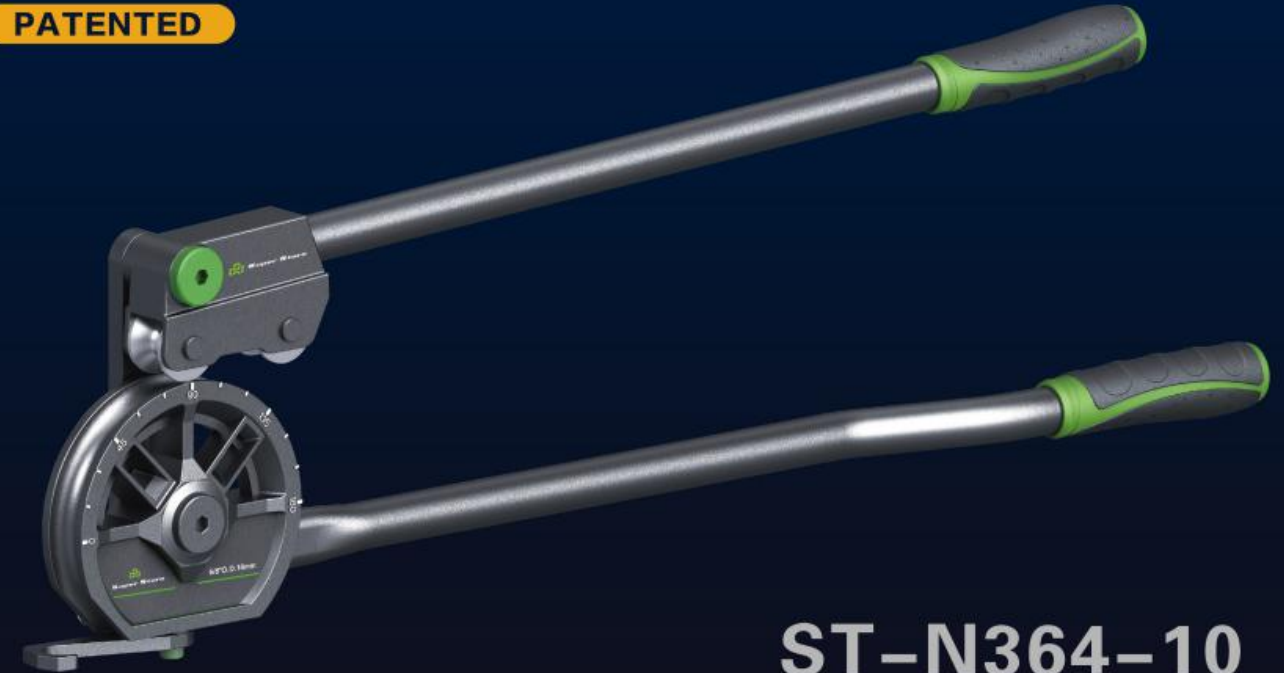


ST-N368-180°

For 1/4", 5/16" & 3/8" O.D. Tubing

ROLLER TYPE TUBE BENDER

PATENTED



ST-N364-10



Bender wheel



Fixing hook locate the tube



ST-N364-06

HIGH-STRENGTH ALUMINUM ALLOY, LIGHTWEIGHT

Item No.	Description
ST-N364A-06	use for 3/8" O.D. Tubing
ST-N364M-06	use for 10mm O.D. Tubing
ST-N364A-08	use for 1/2" O.D. Tubing
ST-N364M-08	use for 12mm O.D. Tubing
ST-N364-10	use for 5/8" & 16mm O.D. Tubing
ST-N364-12	use for 3/4" & 19mm O.D. Tubing
ST-N364-14	use for 7/8" & 22mm O.D. Tubing

SMART SPRING TUBE CUTTER

ST-532S



Bender Spring Design

- ★ SMART SPRING DESIGN,FAST BLADE FEED IN
- ★ SHARP BLADE DESIGN,SMOOTH EDGE
- ★ BEARING ROLLER DESIGN,SMOOTH CUTTING

Item No.	Description	
ST-532S	Smart Spring Tube Cutter	For ϕ 3/16" to 1-1/4"(5-32mm)
ST-650S		For ϕ 1-4" to 2"(6-50mm)
ST-670S		For ϕ 1-4" to 2-3/4"(6-70mm)

ROLLER TYPE TUBE CUTTER

ST-532



Item No.	Description	
ST-319	Roller Type Tube Cutter	For ϕ 1/8" to 3/4"(3-19mm)
ST-428		For ϕ 3/16" to 1-1/8"(4-28mm)
ST-532		For ϕ 3/16" to 1-1/4"(5-32mm)
ST-650		For ϕ 1/4" to 2"(6-50mm)
ST-670		For ϕ 1/4" to 2-3/4"(6-70mm)



ST-428

- ★ ALLOY STEEL BLADE: SHARP AND DURABLE
- ★ BALL BEARING: FLEXIBLE AND ACCURATE
- ★ ALUMINUM ALLOY CUTTER BODY: LIGHT AND LABOR- SAVING

REPAIR PLIER

ST-301

PATENTED



Use for 1/4", 3/8", 1/2", 5/8",
EASILY REPAIR
FLATTENED PIPES.

REPAIR PLIER

ST-301B



Use for 1/4", 3/8", 1/2", 5/8", 3/4"
EASILY REPAIR
FLATTENED PIPES.

PINCH OFF PLIER (STRONG TYPE)

ST-201B

10-INCH STRONG SEAL



Strong pipe sealing

Item No.	Description	Scope Of Application	Length	Weight
ST-201B	10"	3-10mm(1/8"-3/8")	228mm	0.5kg

TUBE STRAIGHTENING TOOL

ST-302



Item No.	Description	Item No.	Description
ST-302-3/16"	Use for 3/16" O.D.Tubing	ST-302-6	Use for 6mm O.D.Tubing
ST-302-1/4"	Use for 1/4" O.D.Tubing	ST-302-9	Use for 9mm O.D.Tubing
ST-302-3/8"	Use for 3/8" O.D.Tubing	ST-302-10	Use for 10mm O.D.Tubing
ST-302-1/2"	Use for 1/2" O.D.Tubing	ST-302-12	Use for 12mm O.D.Tubing
ST-302-5/8"	Use for 5/8" O.D.Tubing	ST-302-16	Use for 16mm O.D.Tubing



MADE BY DSZH TOOL

RATCHET TORQUE WRENCH

ST-02-L

PATENTED



- ★ Narrow space effortless operation
- ★ Fixed value torque design, Sound warning when torque is in place
- ★ Suitalbe new refrigerant R410A/R32
- ★ Suitalbe refrigerant copper horn head



Serial NO	Diameter	Applicable copper pipe	Torsion	Length	Weight
1	17mm	1/4"	18N.M(± 2N.M)	217mm	335g
2	22mm	3/8"	38N.M(± 4N.M)	252mm	395g
3	24mm	1/2"	55N.M(± 6N.M)	263mm	440g
4	26mm	1/2"	55N.M(± 6N.M)	263mm	440g
5	27mm	5/8"	75N.M(± 7N.M)	294mm	475g
6	29mm	5/8"	75N.M(± 7N.M)	294mm	475g

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TUBE EXPANDER

ST-622

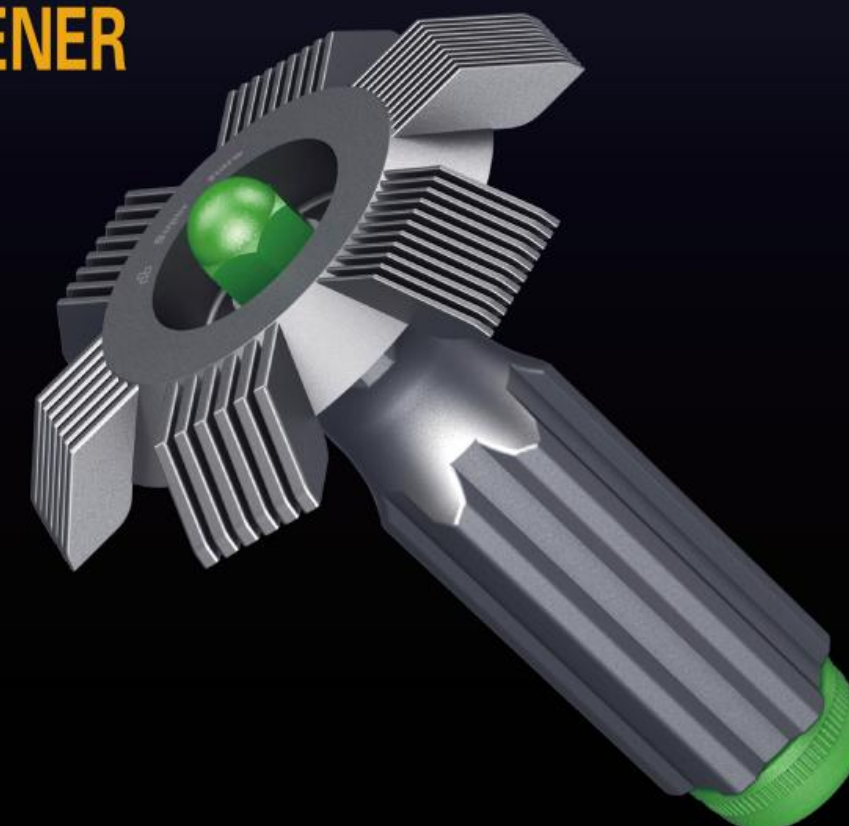
PATENTED



Use for: 6mm,8mm,9mm,
10mm,12mm,16mm,19mm,
22mm,1/4",5/16",3/8",1/2",
5/8",3/4",7/8" O.D. Tubing

FIN STRAIGHTENER

ST-351



For 8,9,10,12,14,15
Spacings per inch.

INNER-OUTER REAMER

ST-210

PATENTED

Aluminum body

1/4" ~ 2-1/8" O.D.Tubing.

Easy to deburr.

Four-sided blade



INNER-OUTER REAMER

ST-209

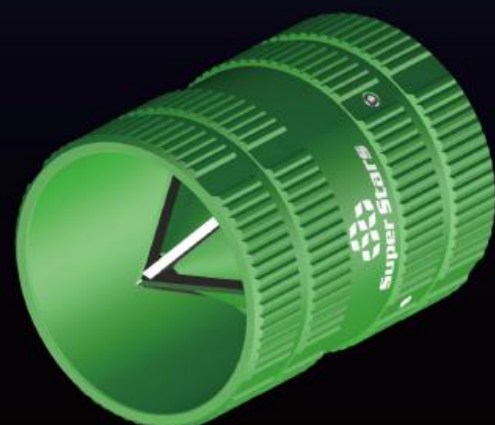
PATENTED

Aluminum body

1/4" ~ 1-5/8" O.D.Tubing.

Easy to deburr.

Four-sided blade



DEBURRER

ST-207

Handy deburrer, Blade
can be swivelled.



REFRIGERANT LEAK DETECTOR

ST-382P

PATENTED

Semiconductor
gas sensor

15.5"(40CM) Flexible
stainless probe

TypeC interface

Built-in suction pump

Large color
LCD screen

Leak peak memory

Lithium battery
power supply

- Application scenario: automobile air conditioner, central air conditioner, cold storage, etc.
- Detectable: CFC, HCFC, HFC type refrigerant gas.
- Minimum measurable leakage: $\leq 3\text{g/year}$ (R134a)
- High-median-Low leak sensitivity selector.
- Automatic/manual reset can be switched.
- Ambient concentration reset.

Item No.	ST-382P		
Alarm Method	Sound and visual: Buzzer, Color LCD display	Charging Time	3 hours
Flexible stainless probe length	40cm (15.5 inches)	Warm-Up Time	10 seconds
Power Supply	18650 lithium battery x 1pcs	Operating Temperature & Humidity	0 ~ 40 °C, < 80% RH
Charge Current	0.6A	Storage Temperature & Humidity	-10 ~ 60 °C, < 70% RH
Battery Capacity	3000MAH	Altitude	< 2000M (6500°)
Full Charged Battery Usage Time	Approximately seven hours of continuous use	Physical Dimension/ Weight	1173 x 66 x 56mm (approximately 400g)
Automatic Power Off Function	10 minutes	Accessories	18650 lithium batteryx1pcs、 Type USB cable x1pcs、 User manual,carry case



VACUUM METER ST-VG90

- ★ THE VACUUM WAS MEASURED AT 99999Pa~ 0.1Pa.
- ★ TARGET VACUUM ALARM FUNCTION.
- ★ ONE KEY FULL DEGREE CALIBRATION.
- ★ SYSTEM VACUUM LEAK DETECTION, IDENTIFY THE ADVANTAGES AND DISADVANTAGES OF VACUUM DEGREE.
- ★ PORTABLE DESIGN, BATTERY POWER SUPPLY, POWER DISPLAY, AUTOMATIC SHUTDOWN (NO OPERATION FOR 10 MINUTES), ETC.

TECHNICAL PARAMETER

Range	99999Pa ~ 0.1Pa,740000 ~ 0.75Micron
Accuracy	0.1Pa ~ 1000Pa;Reading ± 5%(at20℃)
Resolution	0.1Pa(<10Pa);1Pa(<100Pa);10Pa(<1000Pa)
Unit	Pa,mBar,mmHg,Microns
Battery Life	40 hours(3 × AA battery)
Maximum Overload Pressure	0.5MPa/72PSI
Operating Temperature	-5 ~ 50℃(-23 ~ 122°F)
Buzzer Alarm	90db,shut down after 10 seconds

WIRELESS CHARGING SCALE

ST-RF100

PATENTED



ACCURACY CHARGING

High Strength Aluminum Alloy Weighing Plate	Wireless Control Technology	High-reliability Weighing Sensor	Large Screen Controller
Range of weight 125kg Easy to carry	Not affected by control line More accurate load-bearing	Accuracy 0.05% of reading Resolution ± 5g	Easy to read data Backlight use for night

TECHNICAL PARAMETER

Weight Range	100KG
Resolution	5G、0.01LB、0.16OZ
Presicion	± 0.05%
Power Supply	Scale Power: 1.5V × 6 (AA) Controller Power: 1.5V × 5 (AAA)
Battery Life	50 Hours Continuous Use
Operate Temperature	-10 ~ 45℃
Net Weight	4.13kgs
Platform Size	314*239*61mm

DIGITAL MANIFOLDS

ST-DM2

PATENTED

Support
Bluetooth



Left right temperature sensor clamp



High reliability piston dual way valve



Multi-angle alloy hook

Item No.	ST-DM2	Working pressure	-30 inHg to 725 psi
Refrigerants list	R11, R12, R13, R14, R113, R114, R115, R116, R123, R124, R125, R1270, R134A, R141B, R142B, R143A, R152A, R170, R21, R218, R22, R227EA, R23, R236EA, R245CA, R245FA, R290, R32, R365MFC, RC318, R41, R401A, R401B, R401C, R402A, R402B, R403A, R403B, R404A, R405A, R406A, R407A, R407B, R407C, R407D, R407E, R408A, R409A, R409B, R410A, R410B, R411A, R411B, R412A, R413A, R414A, R414B, R415A, R415B, R416A, R417A, R418A, R419A, R420A, R421A, R421B, R422A, R422B, R422C, R422D, R423A, R424A, R425A, R426A, R427A, R428A, R500, R501, R502, R503, R504, R507A, R508A, R508B, R509A, R50, R600, R600A, R717, R744, R1234YF		
Accessory	Portable plastic box, 3 × 150cm rubber hose + 2 × temperature sensor clamp + battery		

DIGITAL MANIFOLDS

ST-DM4

PATENTED

Support
Bluetooth



Left right temperature sensor clamp



High reliability piston four way valve



Multi-angle alloy hook

Item No.	ST-DM4	Working pressure	-30 inHg to 725 psi
Refrigerants list	R11, R12, R13, R14, R113, R114, R115, R116, R123, R124, R125, R1270, R134A, R141B, R142B, R143A, R152A, R170, R21, R218, R22, R227EA, R23, R236EA, R245CA, R245FA, R290, R32, R365MFC, RC318, R41, R401A, R401B, R401C, R402A, R402B, R403A, R403B, R404A, R405A, R406A, R407A, R407B, R407C, R407D, R407E, R408A, R409A, R409B, R410A, R410B, R411A, R411B, R412A, R413A, R414A, R414B, R415A, R415B, R416A, R417A, R418A, R419A, R420A, R421A, R421B, R422A, R422B, R422C, R422D, R423A, R424A, R425A, R426A, R427A, R428A, R500, R501, R502, R503, R504, R507A, R508A, R508B, R509A, R50, R600, R600A, R717, R744, R1234YF		
Accessory	Portable plastic box, 4 × 150cm rubber hose + 2 × temperature sensor clamp + battery		

DIGITAL MANIFOLDS

ST-6889

PATENTED


Left right temperature sensor clamp



High reliability piston dual way valve



Multi-angle alloy hook

Item No.	ST-6889	Working pressure	-30 inHg to 725 psi
Refrigerants list	R11, R12, R13, R14, R113, R114, R115, R116, R123, R124, R125, R1270, R134A, R141B, R142B, R143A, R152A, R170, R21, R218, R22, R227EA, R23, R236EA, R245CA, R245FA, R290, R32, R365MFC, RC318, R41, R401A, R401B, R401C, R402A, R402B, R403A, R403B, R404A, R405A, R406A, R407A, R407B, R407C, R407D, R407E, R408A, R409A, R409B, R410A, R410B, R411A, R411B, R412A, R413A, R414A, R414B, R415A, R415B, R416A, R417A, R418A, R419A, R420A, R421A, R421B, R422A, R422B, R422C, R422D, R423A, R424A, R425A, R426A, R427A, R428A, R500, R501, R502, R503, R504, R507A, R508A, R508B, R509A, R50, R600, R600A, R717, R744, R1234YF		
Accessory	Portable plastic box, 3 × 150cm rubber hose + 2 × temperature sensor clamp + battery		

DIGITAL SINGLE METER

PATENTED


- ★ COLLAPSIBLE HOOK
- ★ MANUAL BALL VALVE DESIGN
- ★ TEXTURE PROTECTOR&SUPER SHOCK PROOF
- ★ BUILT-IN MORE THAN 90 KINDS OF REFRIGERANT GAS

Item No.	Description
ST-B168DH	More than 80 refrigerants data including R22, R32, R600, R1234yf, R410A, R134A, R454B etc in manifold.
ST-B168DL	

2-VALVE DIGITAL MANIFOLD GAUGES

PATENTED

- ★ COLLAPSIBLE HOOK
- ★ MANUAL BALL VALVE DESIGN
- ★ TEXTURE PROTECTOR&SUPER SHOCK PROOF
- ★ BUILT-IN MORE THAN 90 KINDS OF REFRIGERANT GAS



Item No.	Size Of Hose	Description
ST-B268D	60"(150cm)	3pcs red(1/4"SAE),yellow(1/4"SAE),& blue(1/4"SAE), charging hoses.Working pressure 800PSI,Burst 4000PSI. A sight glass Aluminum testing manifold body. Designed to meet1/4" SAE requirement for refrigerant permutation.
More than 80 refrigerants data including R22, R32, R600, R1234yf, R410A, R134A, R454B etc in manifold.		



SINGLE METER

PATENTED

- ★ COLLAPSIBLE HOOK
- ★ OPTIONAL GAUGES
- ★ ALUMINUM HAND WHEEL
- ★ MANUAL BALL VALVE DESIGN
- ★ TEXTURE PROTECTOR&SUPER SHOCK PROFF

	Diameter Of Gauge 68mm	high pressure	ST-B168H	ST-B168H1	ST-B168H2	ST-B168H3
		low pressure	ST-B168L	ST-B168L1	ST-B168L2	ST-B168L3
	Gauge Scale		R22, R404A R410A, R407C	R410A, R32 R407C, R134A	R404A, R410A R22, R134A	R454B, R32 R410A, R22 

2-VALVE MANIFOLD GAUGE

PATENTED

- ★ COLLAPSIBLE HOOK
- ★ OPTIONAL GAUGES
- ★ ALUMINUM HAND WHEEL
- ★ MANUAL BALL VALVE DESIGN
- ★ TEXTURE PROTECTOR & SUPER SHOCK PROFF

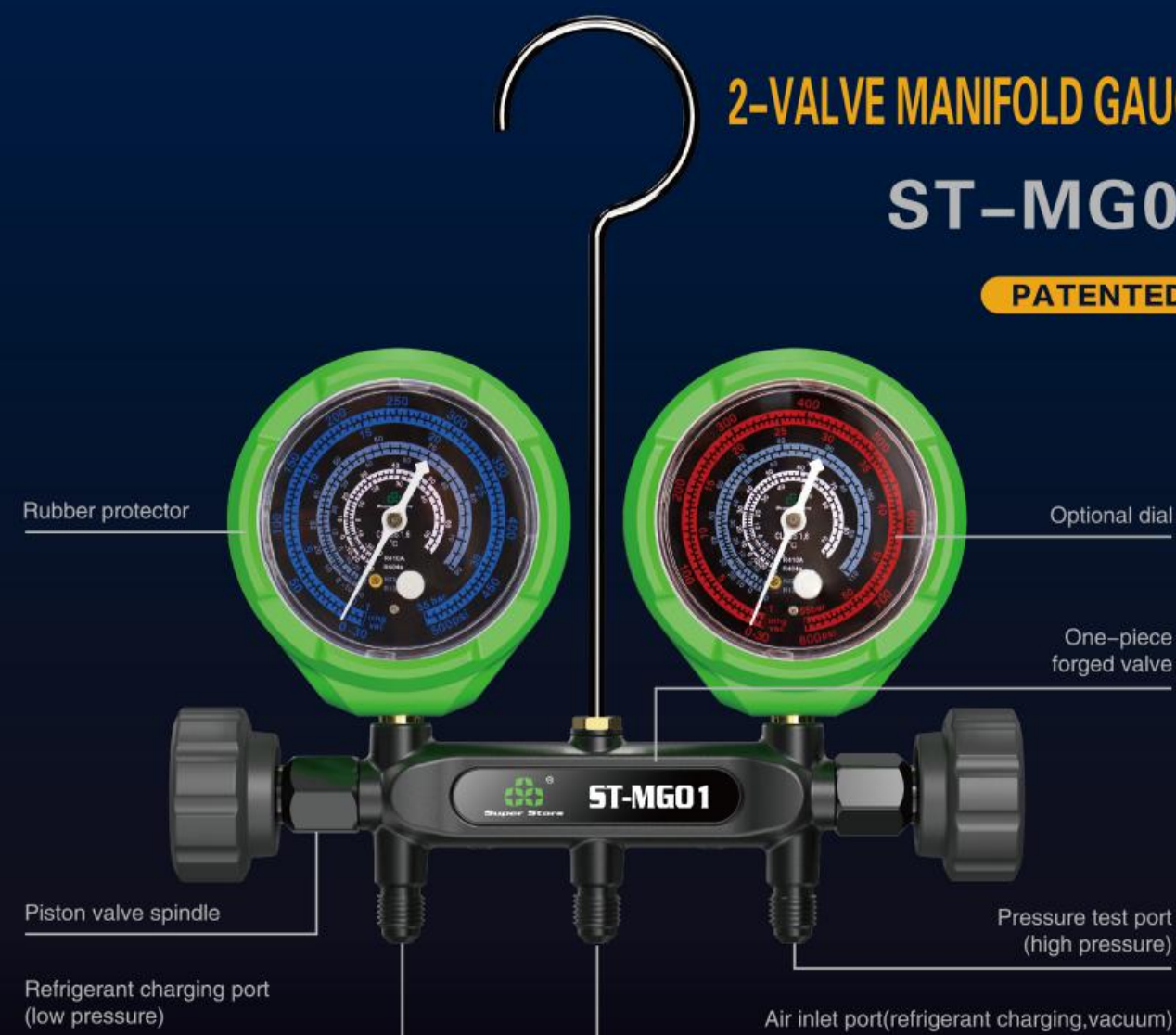


	Diameter Of Gauge 68mm	ST-B268	ST-B2681	ST-B2682	ST-B2683
	Diameter Of Gauge 80mm	ST-B280	ST-B2801	ST-B2802	ST-B2803
	Gauge Scale	R22, R404A R410A, R407C	R410A, R32 R407C, R134A	R404A, R410A R22, R134A	R454B, R32 R410A, R22 
	Size Of Hose	60" (150cm)			
	Description	3pcs red(1/4"SAE),yellow(1/4"SAE),& blue(1/4"SAE), charging hoses.Working pressure 800Psi Burst 4000Psi. A sight glass brass/aluminum body. Designed to meet 1/4" SAE.			

2-VALVE MANIFOLD GAUGE

ST-MG01

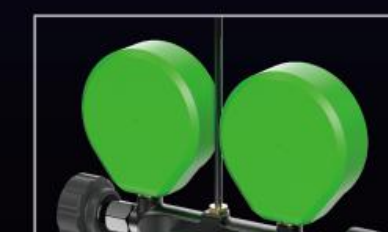
PATENTED



Hose hooker



Textured handwheel



Rubber protector

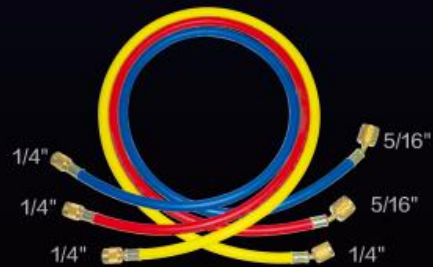
Item No.	ST-MG01	ST-MG02	ST-MG03	ST-MG04
Gauge scale	R404A R410A R22 R134A	R410A R32 R407C R134A	R410A R407C R22 R404A	R454B R32 R410A R22 
Working pressure	-30 inHg to 800-4000 psi			
Accessory	Portable plastic box, 3 × 150cm rubber hose			

GAUGE ST-GH01



Item No.	ST-GH01	ST-GH02	ST-GH03	ST-GH04
High gauge dial	R404A R410A R22 R134A	R410A R32 R407C R134A	R410A R407C R22 R404A	R454B R32 R410A R22

Item No.	ST-GL01	ST-GL02	ST-GL03	ST-GL04
Low gauge dial	R404A R410A R22 R134A	R410A R32 R407C R134A	R410A R407C R22 R404A	R454B R32 R410A R22



R410 High Pressure Charging Hose

ST-360-RYB-H 3 pcs 60"(150cm) red, yellow & blue hoses sets

Special material high pressure Charging hose.
Working pressure 800PSI Burst 4000PSI.
Hose connection nut 1/4"-1/4"



R410 High Pressure Charging Hose With Ball Valve

ST-360-RYB-HV 3 pcs 60"(150cm) red, yellow & blue hoses sets with shut-off ball valve

Special material high pressure Charging hose.
Working pressure 800PSI Burst 4000PSI.
Hose connection nut 1/4"-1/4"

VACUUM/RECOVERY HOSE ST-VR01



Item No.	ST-VR01	ST-VR02	ST-VR03	ST-VR04
Length	1.8m	1.8m	1.8m	1.8m
Diameter	3/8"	3/8"	1/2"	1/2"
Connection	1/4"-3/8"	3/8"-3/8"	1/4"-3/8"	1/4"-1/2"

SWITCH BALL VALVE Large diameter flow rate



Item No.	Description			
ST-BV01	Female	3/8"	Male	3/8"
ST-BV02	Male	3/8"	Male	3/8"



MADE BY DSZH TOOL

HOSE HOOK

ST-4H

Hook size:

1/4", 1/4", 1/2", 3/8"

Store different hose sizes.



Y TYPE CONNECTION



ST-Y01



ST-Y02

Item No.	Description
ST-Y01	2 x 3/8 male connection to 1 x 1/4" female connection
ST-Y02	2 x 3/8 male connection to 1 x 3/8" female connection

MADE BY DSZH TOOL



VALVE CORE REMOVE

ST-VA1



A/C FILLING SAFETY VALVE



ST-VB1



ST-VC1

Item No.	Female	Male	Item No.	Female	Male
ST-VB1	1/4"(R22)	1/4"(R22)	ST-VC1	1/4"(R22)	1/4"(R22)
ST-VB2	5/16"(R410a)	1/4"(R22)	ST-VC2	5/16"(R410a)	1/4"(R22)
ST-VB3	5/16"(R410a)	5/16"(R410a)	ST-VC3	5/16"(R410a)	5/16"(R410a)
ST-VB4	1/4"(R22)	5/16"(R410a)	ST-VC4	1/4"(R22)	5/16"(R410a)