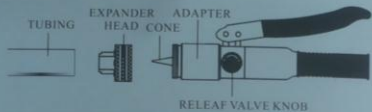
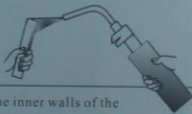


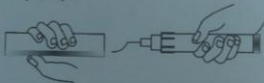
USE MANUAL



1) Use soft copper tube or heat (anneal) the section of hard copper tubing to be expanded.



2) Debur the inner walls of the tubing completely.



3) Apply lubricant (preferably grease) to the cone before using.



4) Screw the adapter onto the shaft of the pump all the way.



5) Place the tubing onto the expander head. Make sure that the expander head travels into the tubing FREELY. If the tubing is twisted or the tubing wall is too thick, you can't place the tubing onto the expander head, you need to use a smaller expander head to expand the tubing first, then use the bigger one which you prefer.



6) Tighten the relief valve knob and pump handle until tubing is expanded and pump handle become firm. But don't pump the handle too hard, this improper operation can reduce the using time.



7) Loosen the relief valve knob release the finished tubing.



8) When you changing the cone. First, shut the relief valve, then pump the handle to the end, turn the cone until the cone slot aimed to the screw then pull the cone out; Second, pull in a new cone. After you aim the cone slot to the screw, turn 180°. Loosen the relief valve.



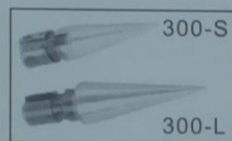
Spare expander heads

Item No	Specification	Item No	Specification
100A-01	For inch: 3/8"	100M-01	For metric: 10mm
100A-02	For inch: 1/2"	100M-02	For metric: 12mm
100A-03	For inch: 5/8"	100M-03	For metric: 16mm
100A-04	For inch: 3/4"	100M-04	For metric: 19mm
100A-05	For inch: 7/8"	100M-05	For metric: 22mm
100A-06	For inch: 1"	100M-06	For metric: 25mm
100A-07	For inch: 1-1/8"	100M-07	For metric: 28mm
100A-08	For inch: 1-1/4"	100M-08	For metric: 32mm
100A-09	For inch: 1-3/8"	100M-09	For metric: 35mm
100A-10	For inch: 1-1/2"	100M-10	For metric: 38mm
100A-11	For inch: 1-5/8"	100M-11	For metric: 42mm



Adapter

Item No	Specification
300-D	Used for 1-1/4", 1-3/8", 1-1/2", 1-5/8" heads.



Swaging punches for hydraulic expander tool

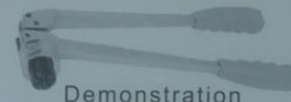
Item No	Specification
300-S	Used for 3/8" to 1-1/8", 8mm to 28mm heads
300-L	Used for 1-1/4" to 1-5/8", 32mm to 42mm heads



Patent: 200420019748.8

Hydraulic tube expanding toolkit

Item No	Specification
CT-300A	3/8", 1/2", 5/8", 3/4", 7/8", 1", 1-1/8" O.D Tubing & CT-107, CT-208
CT-300M	10mm, 12mm, 16mm, 19mm, 22mm, 25mm, 28mm O.D. Tubing & CT-107, CT-208
CT-300AL	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 & CT-107, CT-208, CT-207, 300L
CT-300ML	10mm, 12mm, 16mm, 19mm, 22mm, 25mm, 28mm, 32mm, 35mm, 38mm, 42mm O.D. Tubing & CT-107, CT-208, CT-207, 300L



Demonstration



Lever tube expanding tool kit

Item No	Specification
CT-100A	3/8", 1/2", 5/8", 3/4", 7/8", 1", 1-1/8" O.D Tubing & CT-312, CT-208
CT-100M	10mm, 12mm, 16mm, 19mm, 22mm, 25mm, 28mm O.D. Tubing & CT-312, CT-208