

# BANDIMEX AIR TOOL V 440

The BANDIMEX air tool is an air controlled, automatic tensioning tool for applying BANDIMEX performed clamps.

Operated by pedal – **both hands are free to manipulate the object to be clamped.**

An ideal, proven tool to clamp hose, cables and ropes of various constructions with outer diameters of 10 to 150 mm (3/8" to 6").

Each clamp is pulled down with exactly the same preset pressure in seconds.

BANDIMEX performed clamps come in 18 diameters and combinations of 5 band width, a total of 36 various clamps are available. If this is not enough on request we can also manufacture additional combinations of diameters and widths.



## Installation of air tool

Screw down base plate to the work bench in such a manner that the tensioning head has sufficient distance to the edge of the bench to allow easy and unobstructed mounting of clamps on all sizes hose.

The air inlet is a 1/4" male tapered thread, attach a 1/4" f x f Withworth swivel adapter or just a 1/4" female coupling, or quick coupler adapter, attach 3/8" (10 mm) hose. Pressure setting at the incorporated service unit should not be less than 85 psi (6 bar), and not more than 115 psi (8 bar), it is set at 100 psi (7 bar), when tool leaves factory.

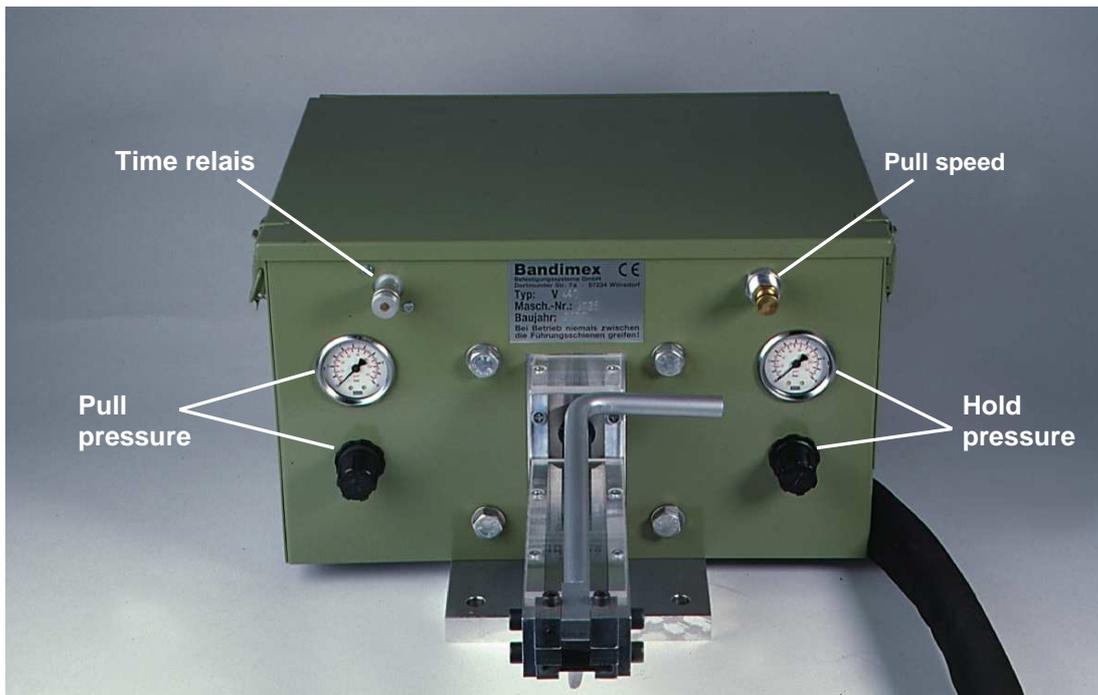
Fill vessel of oiler (service unit) with light oil, adjust set screw of oiler to obtain minimum oil mist in air stream. Keep insides of aluminium guide rails well greased with Molykote or other high grade grease. Check the two cutter blade screws for tightness once in a while.

The footpedal may be screwed to the floor.

## Adjusting functions:

On the tables and pressure gauges settings are shown in ,bar' and ,psi'. For exact adjusting ,psi'-settings should be employed.

- 1. Pull Pressure:** Step on pedal – piston is pulling in (keep the pedal down!) – turn knob and set pressure reading on the gauge to the pressure required according to band width of clamp (refer to schedule) - loosen counter nut on top of knob before turning, and fasten again after setting
- 2. Pull Speed:** Loosen counter nut  
Slower: Turn screw to the right  
Attention: Don't turn the screw past stop  
Faster: Turn screw to the left  
Press down pedal repeatedly while adjusting until requested speed is obtained.
- 3. Timer:** This unit regulates the period of time between beginning of cycle (pressure build-up), and release of the pressure, and rules the time used for applying a clamp. When the clamp is pulled down and piston stops at the set reading, the pressure should remain for 1 or 2 seconds to allow the clamp to settle.  
**Less time:** Turn the knob to the **right**  
**More time:** Turn the knob to the **left**  
Max. time delay: 10 seconds  
The timer is set at approx. 2 seconds by manufacturer. (Depends on length of pull down of clamp tail.)
- 4. Hold Pressure:** In order to keep the clamp from losing tension during the cut-off operation, and to guarantee a secure locking of the buckle, a certain amount of pressure must be maintained in the cylinder. This pressure varies according to width of band (refer to schedule), and is set in the same manner as described under 1., but **after** the timer has released the pull pressure.



**Guideline for Stainless Steel (CrNi):**

Band width of clamp	Pull Pressure		Hold Pressure	
	bar	psi	bar	psi
1/4"	0.9	13	0.3	4
3/8"	2.1	30	0.35	5
1/2"	3.0	42	0.45	6
5/8"	3.8	53	0.50	7
3/4"	4.6	65	0.65	9

*For type 316 steel (CrNiMo) use 10% less, for Hi-C steel 30% less pressure.*

*The above values for pull and hold pressure are approximate.*

*They may vary according to the types of hose and couplings applied.*

**Operating Instructions**

1. Push tailed end of preformed clamp into tensioning head.
2. Step on pedal (**keep depressed until clamp has been cut-off**)
3. After timer has released pull-up pressure, watch pressure gauge on right side of panel, and roll up hose together with clamp just before the reading previously set on this gauge is reached, e.g. if setting is at 8 psi, then roll-over should start at approx. 12 psi. After roll-up, the cutter hook will engage on top edge of buckle.
4. Pull forward cutter lever – cut off clamp.
5. Release pedal – piston returns – remove band tail.

**KEEP PEDAL DEPRESSED UNTIL CLAMP HAS BEEN CUT OFF!**

