



Band Clamping Systems

**Universal Hose and Pipe Clamps
Made in Germany**



Bandimex Befestigungssysteme GmbH was founded in 1982 and has developed into an internationally active company. Our products have opened a wide range of applications and are used worldwide in many different branches of industry.



With our fastening technologies, we provide universal and economical solutions in numerous applications, such as hose clamping, sign fastening etc.

The careful choice of materials, their processing on the most modern machines and critical test procedures guarantee the high quality standards of our products.

A well assorted stock of raw materials and finished products as well as a highly motivated team of qualified staff form the basis for the quick and reliable supplying of our customers.



Tool, Adapter, HD-Adapter and Air Tool

Bandimex Tool

Tensioning capability over 1,0 t

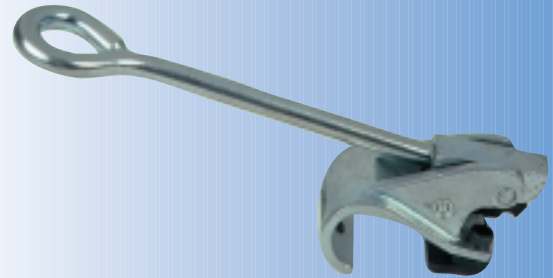
Cat.No.	kg
W 001 Bandimex Tool	2,00



Bandimex Adapter to apply Bandimex Preformed Clamps.

For use with the **Bandimex Tool W 001** fixed in a vise.

Cat.No.	kg
V 001 Bandimex Adapter	0,7



Bandimex HD-Adapter to apply Bandimex Preformed Clamps.

For use with the **Bandimex Tool W 001** fixed in a vise as well as for portable applications.

Cat.No.	kg
V 050 Bandimex HD-Adapter	0,7



Cat.No.	kg
V 015 Cutter Blade Kit for Bandimex Adapter V 001 and V 050	0,1

Bandimex Air Tool for high volume production clamping of Bandimex Preformed Clamps.

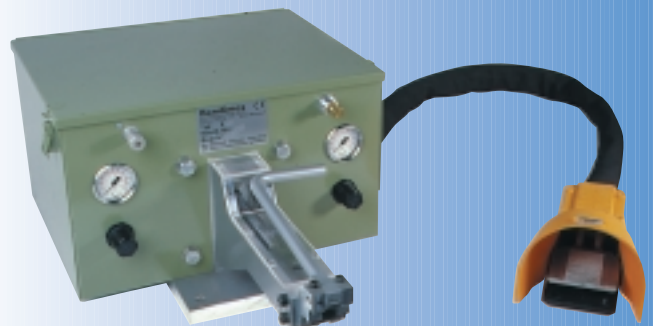
Cat.No.	kg
V 440 Bandimex Air Tool	28,5

The **Bandimex Air Tool V 440** is an air controlled tool for applying **Bandimex Preformed 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. Each clamp is pulled down with exactly the same preset pressure in seconds.

Cat.No.	kg
V 920 Cutter Blade Kit for Bandimex Air Tool V 440	0,1

All replacement parts for the **Bandimex Air Tool V 440** are separately available.



Instructions Preformed Clamps

Apply with the **Bandimex Tool W001** and **Bandimex Adapter V001 (a)** or **V050 (b)**.

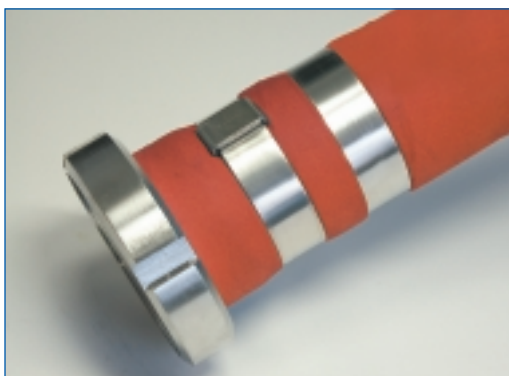
Place Bandimex Tool in vise, put Bandimex Adapter on nose of tool. Slip Preformed Clamp in tool and grip tail end with excenter lever.

Insert hose into clamp and apply tension. To control tensioning, hold thumb on that side of buckle where band enters. When band stops moving through buckle, maximum tension has been applied.

Roll hose over until shear hook engages behind buckle edge, at the same time reversing handle by $\frac{1}{4}$ to $\frac{1}{2}$ turn (depending on type and size of hose).

(a)
Pull on cutter lever to cut band.

(b)
Turn disc by hand until tight. Put ratchet wrench on hex nut and operate until band is sheared off.



◀ The finished Bandimex Preformed Clamp requires no hammering or crimping.



BANDIMEX AIR TOOL V 440

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

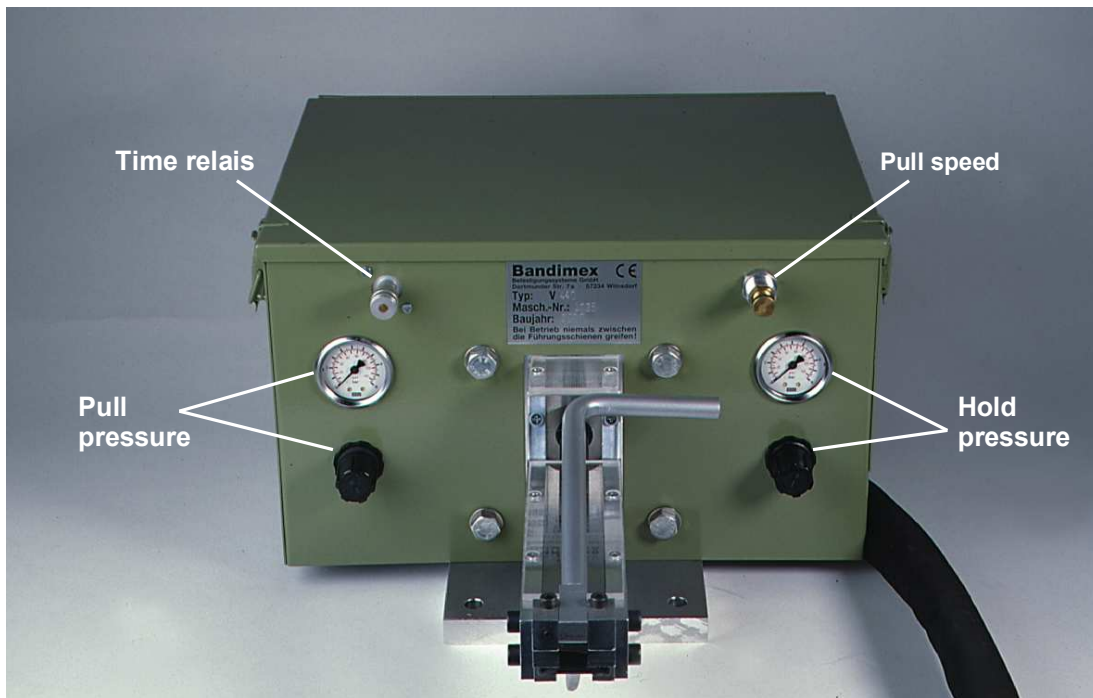
Fill vessel of oiler (service unit) with light oil, adjust set screw of oiler to obtain minimum oil mist in air stream. Keep insides of aluminium guide rails well greased with Molykote or other high grade grease. Check the two cutter blade screws for tightness once in a while.

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 ,stand' for 1 or 2 seconds to allow the clamp to settle.
Less time: Turn the knob to the **left**
More time: Turn the knob to the **right**
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.



Pull Pressure	V 440		Hold Pressure	V 440	
	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	

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.
- Depending on the type of the hose to be clamped set pull pressure a little lower or up to 10% higher. For type 316 steel (V4A) use 10% less, for Hi-C steel 30% less pressure.

KEEP PEDAL DEPRESSED UNTIL CLAMP HAS BEEN CUT OFF!

BANDIMEX AIR TOOL V 800

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

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

The tool's control panel allows optimal adjustment for various kinds and sizes of hoses.

An ideal 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.

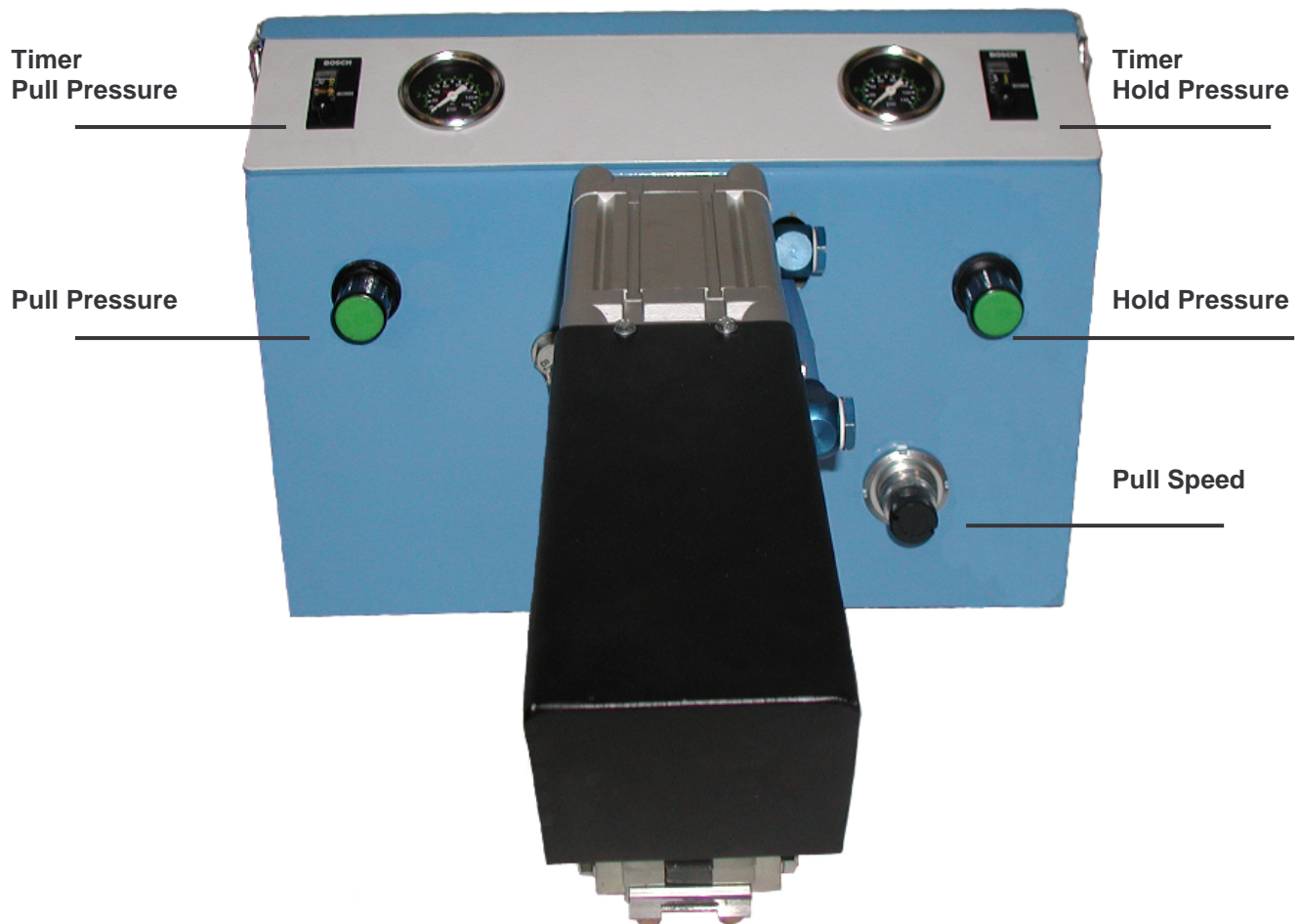
The air inlet is a 1/4" female tapered thread. It's also possible to use the 1/2" male tapered thread. Pressure setting at the incorporated service unit should not be less than 101 psi (7 bar), and not more than 116 psi (8 bar), it is set according to these values, when tool leaves factory.

Fill vessel of oiler (service unit) with special oil for service units (e.g. Festo OFSW-32), adjust set screw of oiler to obtain minimum oil mist in air stream. 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 (refer to schedule!)
- loosen counter nut on top of knob before turning, and fasten again after setting
- 2. Timer Pull Pressure:** This unit regulates the period of time between beginning of cycle (pressure build-up), and switching to hold pressure. The setting is very accurate and individually adjustable for each hose size. We recommend to take more time the larger the hoses are; so it's possible to re-adjust the hose before cutting. 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.
- 3. Pull Speed:** Regulates the speed of piston.
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.
- 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.
- 5. Timer Hold Pressure:** This unit regulates the period of time between switching to hold pressure and automatically cut-off operation. The setting is very accurate and individually adjustable for each hose size. We recommend to take more time the larger the hoses are; so it's possible to re-adjust the hose before cutting.



Guideline for Stainless Steel (CrNi):

Band width of clamp	Pull Pressure		Hold Pressure	
	bar	psi	bar	psi
¼"	0.6	9	0.30	4
⅜"	1.7	25	0.35	5
½"	2.5	37	0.45	6
⅝"	3.3	48	0.50	7
¾"	4.1	60	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 as far as possible.
2. Step on pedal (**keep depressed until clamp has been cut-off**)
3. After timer has released pull-up pressure roll up hose together with clamp and position buckle under the cutter hook. After roll-up, the cutter hook will engage on top edge of buckle.
4. When preselected time has passed at the timer of hold pressure, Tool will cut off the tail of clamp automatically.
5. Release pedal – piston returns – remove band tail.

KEEP PEDAL DEPRESSED UNTIL CLAMP HAS BEEN CUT OFF!

