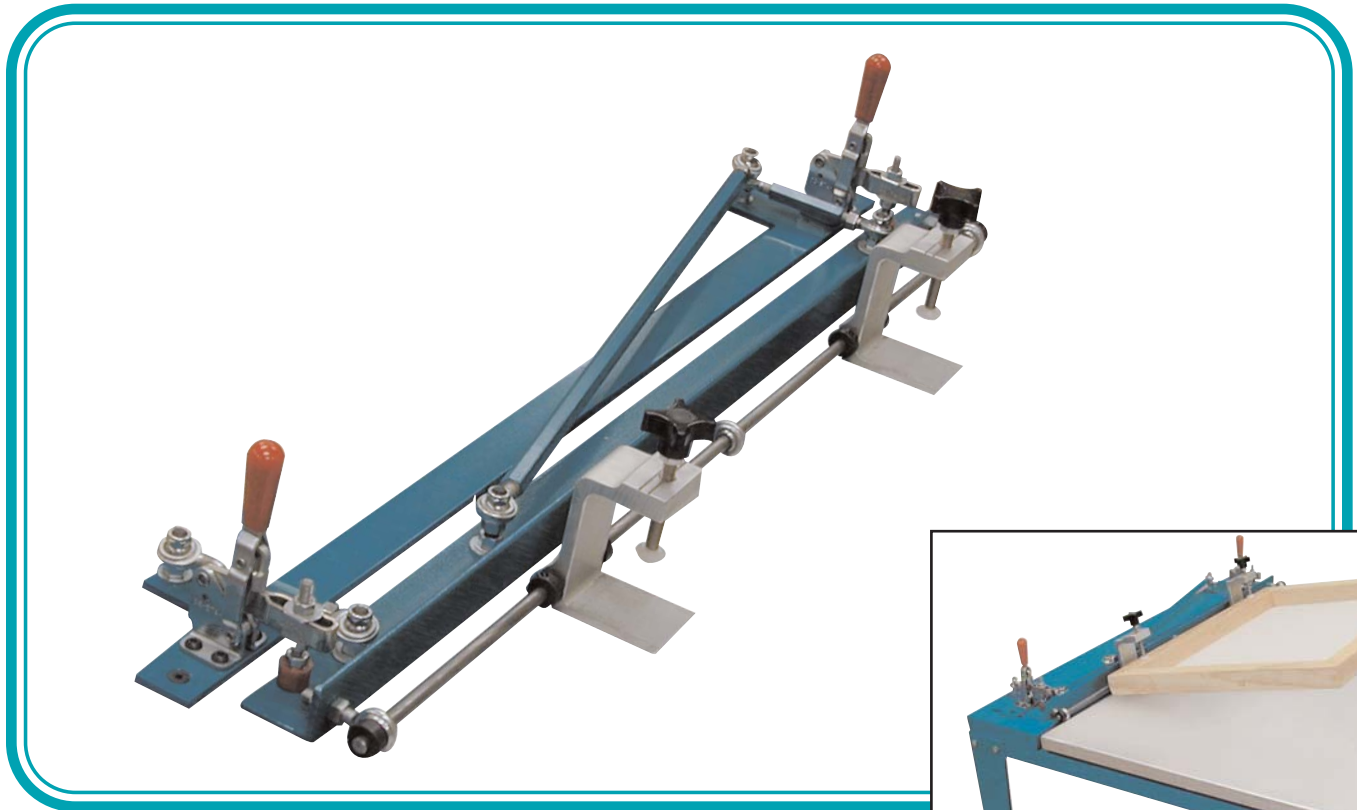


BIG GRIPPER™

Screen Clamp Registration System



*Big Gripper shown mounted on
A.W.T.'s optional Accu-Glide™ unit.*

Operating Manual

Models:

BG-M1218 12" X 18"
BG-M1525 15" X 25"
BG-M2430 24" X 30"
BG-M2538 25" X 38"
BG-M3545 35" X 45"

BG-M3855 38" X 55"
BG-M4464 44" X 64"
BG-M5280 52" X 80"
BG-M5296 52" X 96"

BG-M60120 60" X 120"
BG-M60150 60" X 150"
BG-M72150 72" X 150"
BG-M72190 72" X 190"

Manufactured By



A.W.T. World Trade, Inc.

4321 N. Knox Avenue • Chicago, IL 60641 USA

Moving Ahead with Technology

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INSTALLATION & SET-UP

If your Big Gripper was purchased as part of the Accu-Glide™ system, it will come to you assembled and already mounted on the table. You will simply have to adjust the Big Gripper Assembly, using the operating instructions below, to fit your particular printing needs.

If you have purchased the Big Gripper separately, it will still come assembled, but you will need to drill two holes in your table to hold the Big Gripper.

Positioning of the holes will depend upon the degree of forward and side movement you require for your particular printing applications. Once the holes are drilled, insert a bolt and locknut assembly into each of the drilled holes (11) on the Back Section (10) and tighten (see Diagram 1, page 3). (*Bolt and locknut assembly is not included.*)

OPERATION

Push each of the Lock-in Registration Clamps (9) toward the back of the Big Gripper Assembly, unlocking the Clamps and lifting the Toggle Feet off the Base (8) (see Diagram 1, page 3 for all part designations).

Note: *In the unlikely event that the Toggle Foot doesn't make solid contact with the Base, simply place the Clamp in its locked position (down), loosen the bolt and screw assembly on the Clamp and move the foot down until it is positioned solidly on the Base. Retighten the bolt and screw assembly.*

Using an adjustable wrench, unlock the nuts on the three Turnbuckles (12 and 13) that connect the Back Section (12) to the Base. The Back Section will remain fixed to your table. The Base can be adjusted until the proper registration is reached.

Take a moment to become familiar with how each of the turnbuckles can be turned to control the movement of the Base, and therefore, the Rod (6) and Hinge Clamp Assembly (4) holding your screen.

Turning each Short Turnbuckle (13) either clockwise or counterclockwise (depending upon whether you are standing at the front or back of the table) controls the front and back movement of the rod and, therefore, the position of your screen on the vacuum bed. Turning the diagonal Turnbuckle (12) either clockwise or counterclockwise controls the left and right movement of the rod.

The three Rod End Bearings (7) are located in the center

and on the left and right sides of the rod. These bearings are preset at the factory and should not be adjusted.

To insert the frame into the Big Gripper Assembly, turn each of the Hinge Clamp Knobs (4) in a counter-clockwise direction, raising the Toggle Foot to the desired height. Insert the frame, taking care to position the solid portion of the frame directly under each of the Toggle Feet. Turn the Hinge Clamp Knobs in a clockwise direction, lowering the feet onto the screen frame until solid contact is made.

Note: *The Toggle Feet should not hang over the edge of the screen frame. This incorrect position could compromise the stability of your registration.*

To either reposition your screen on the vacuum table or to adjust each of the Hinge Clamps in or out to accommodate larger or smaller screens, simply insert a 7/64" Allen wrench into each of the Set Screw openings (2) on the Clamping Collar (1) (See Diagram 2.) Turn clockwise, unlocking the Hinge Clamp. Move the clamp to its desired position on the Rod and retighten the Collar. Bring the clamp handle down, locking the Base.

Adding Additional Hinge Clamps

Additional Hinge Clamps may be added to the Big Gripper to provide extra stability when larger or multiple frames are used (See Diagram 1, page 3).

To add more clamps, release the Set Screw in each of the far outside Collars (See "2" in Diagram 2). Remove the Collars, slide the Steel Rod out of the Rod End Bearings and slide the additional hinge clamps onto each end of the Rod. Place an additional Collar on each side of the new clamps. Replace the Rod back into the bearings. Place the clamps in position and tighten all the Collar Set Screws. Replace the outside Collars onto the Rod and tighten the Set Screws.

Adjusting Off Contact

Occasionally you may need to print on a substrate that is thicker than normal applications require. In order to do this, you must adjust "off contact," or the distance between the frame and your printing surface (see Diagram 3).

Take a piece of hard squeegee material (or similar material that will give you the height you need) and place it inside the hinge clamp, underneath the frame. Tape it in place. To create an even thickness, be sure to place the same material inside all the hinge clamps you are using.

The maximum opening of the hinge clamps is 3". If you subtract the height of your frame from this 3", you will know how far you can raise the frame to accommodate the extra substrate. For example, if you have a frame height of 1", you can place a maximum height of 2" of material under the frame to achieve off contact.

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PARTS IDENTIFICATION & LISTING

PART	NUMBER	DESCRIPTION
1	CL0611705CSC	Clamping Collar, locking Hinge Clamps into position
2	--	Set Screw Opening, locking Collar into position
3	10021011	Hinge Clamp Body
4	--	Hinge Clamp Assembly
	K62DK	4-Prong Plastic Knob
	06941102	Stud
	06972003	Toggle Shoe
5	--	Additional, optional Hinge Clamps (see Operations section on page 2)
6	09821007	Steel Rod
7	RE060M	Rod End Bearing 3/8 Male RH, position on the left and right sides and in the middle of the Rod
8	09821001	Base with Back Support
9	CM207TCU	Lock-In Registration Clamps
10	09821004	Back Section (Clamp Holder)
11	--	Mounting Holes, mounting Big Gripper Assembly to the tabl
12	09821005	Left-to-right Registration Turnbuckle with locknuts
13	10021006	Short, Front-to-Back Registration, Turnbuckle with locknuts
14	22FHS382	Flat Head Socket Bolts, 3/8 x 2L
	22FHS112	Flat Head Socket Bolts, 3/8 x 1 1/2L
15	22HN3816	3/8 -16 Hex Head Nut
16	22FW38	3/8 Flat Washer
17	22BH1420	Button Hex Nut
18	RE060ML	Rod End Bearing 3/8 Male LH
19	22HN3824	3/8-24 Hex Head Nut
20	22JSN3816	3/8-16 Jam Stop Nut
21	L12100518	5/16-18 x 3/4 Dia. Urethane Bumper w/Female
22	920518	5/16-18 x 2"L Threaded Rod

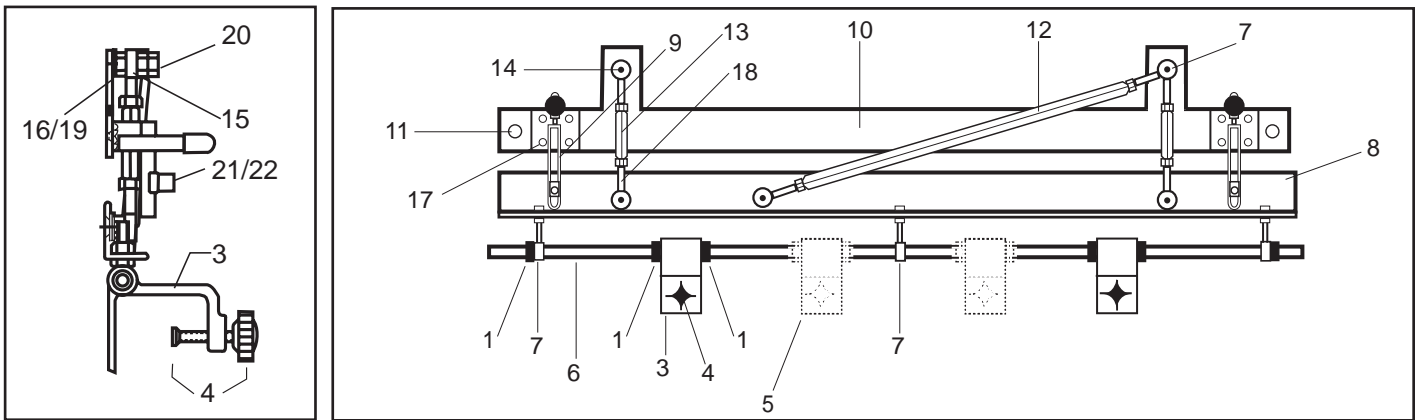


Diagram 1. (Left to right) Side view and top view of the Big Gripper.

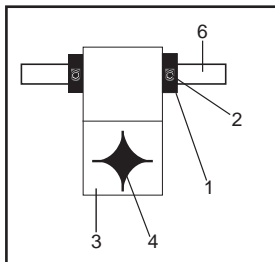


Diagram 2. Enlarged top view of the Hinge Clamp (3), Hinge Clamp Assembly (4), Collar (1) and Hex Screw opening (2).

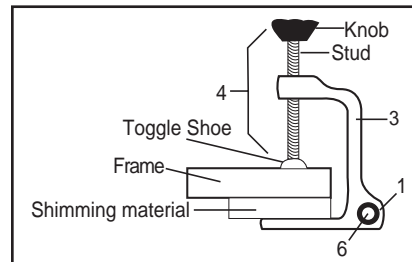


Diagram 3. Side view of the Hinge Clamp Assembly showing the addition of shimming material under frame to prevent direct contact with the table during printing.

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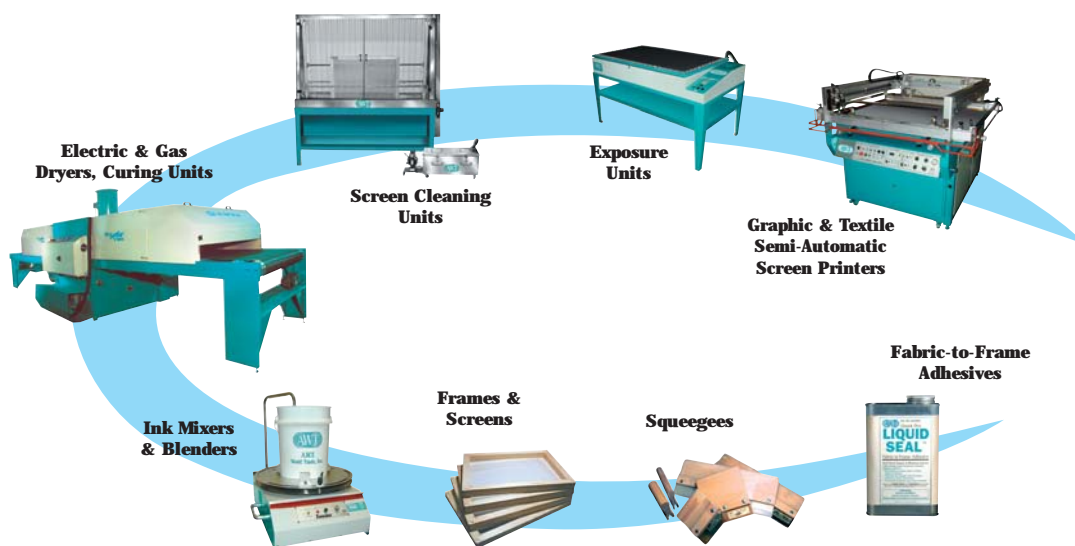
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