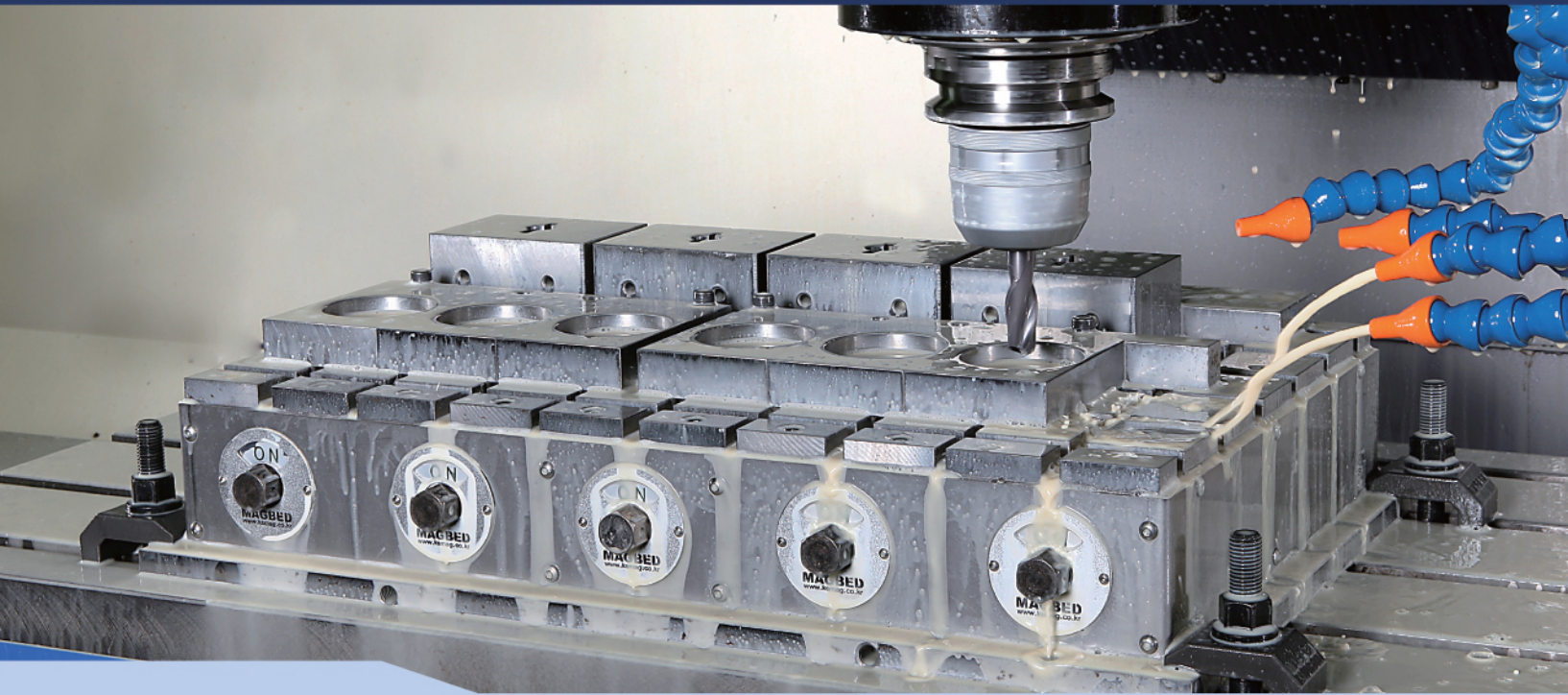


Innovative Permanent Magnetic Work-Holding Device



“Customizable like Lego block modules”
user can assemble magnets according to desired size and specifications

No need for electricity makes it economical and environmentally friendly
Super powerful holding power exceeds the magnetism of other similar products
Detachable switch lever use makes magnetic on/off easy
Partial area can be turned on or off selectively when necessary
Speedy delivery by assembling ready-made modules

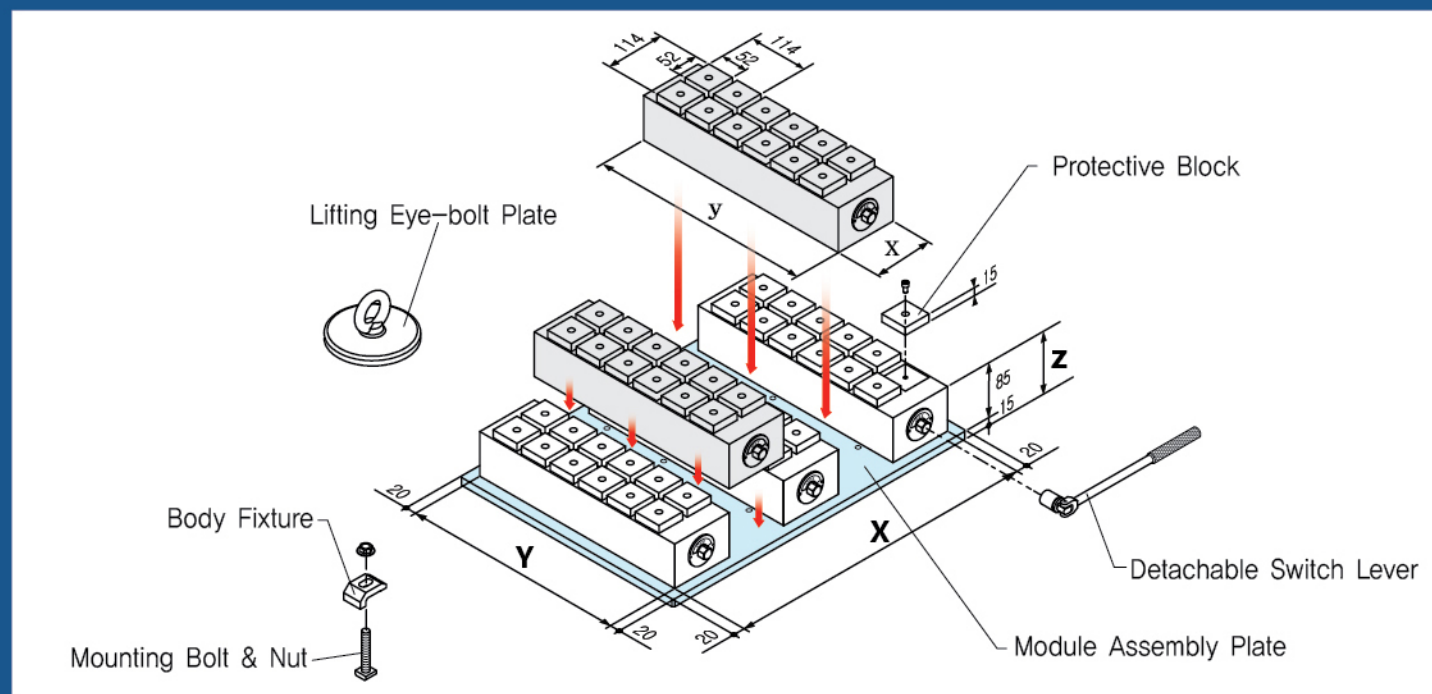
MAGBED®



WWW.MAGBED.KR



Outline drawing-Principal parts/Accessories



Model Notation-Model Selection

5 Basic Modules

Model	Dimension (mm) (x X y X z)	Block (Size 52 X 52mm)	Wgt (kg)
MB35	125 X 305 X 115	8	31
MB40	125 X 367 X 115	10	38
MB45	125 X 430 X 115	12	43
MB50	125 X 492 X 115	14	50
MB55	125 X 555 X 115	16	57

※ When a basic model is purchased, accessory parts (detachable switch lever, mounting bolt and nut) are provided free of charge.

Completely assembled device

Model	Dimension (mm) (X X Y X Z)	Block (Size 52 X 52mm)	Wgt (kg)
3MB4035	375 X 305 X 115	24	89
4MB5540	500 X 367 X 115	40	142
5MB6545	625 X 430 X 115	60	204
6MB8050	750 X 492 X 115	84	285
8MB10055	1,000 X 555 X 115	128	427

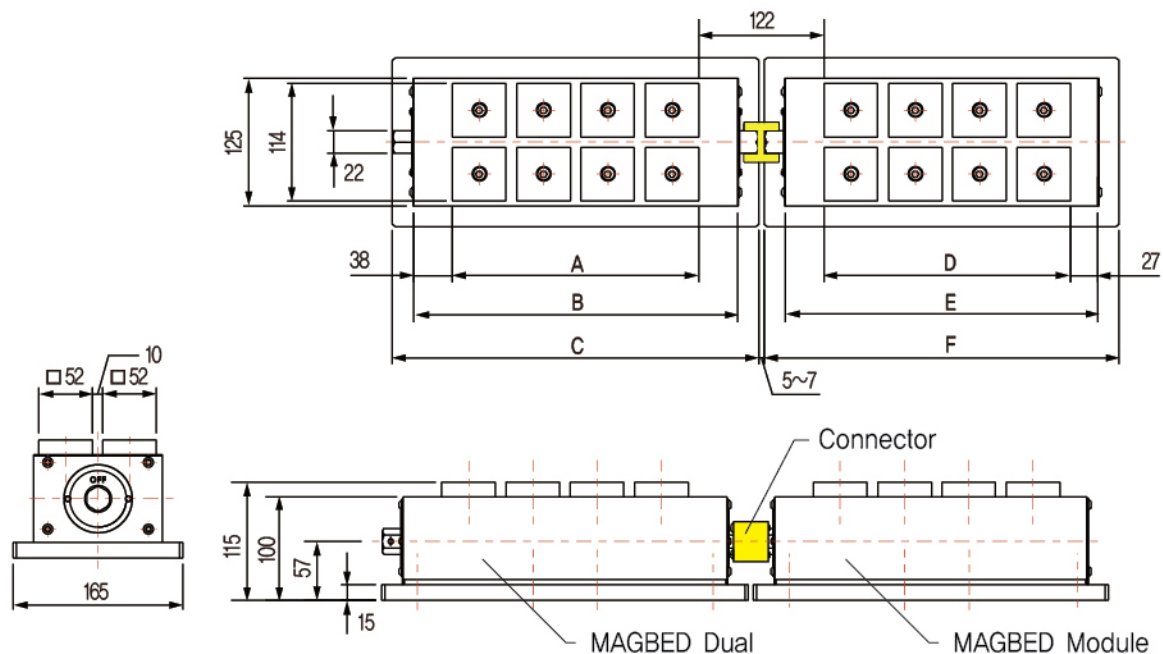
※ When a completely assembled device is purchased, an accessories set is provided free of charge (Accessories set: lifting eye-bolt plate, 2 - protective blocks, detachable switch lever, mounting bolt and nut).

※ With self-assembly structure, manufacturing according to the user's desired size and specifications is possible.

5 MB6545 / 135

- Number of columns showing module location
- Total size of width and length & module size
- Number of modules determining the size of assembly foundation

MAGBED Dual Module

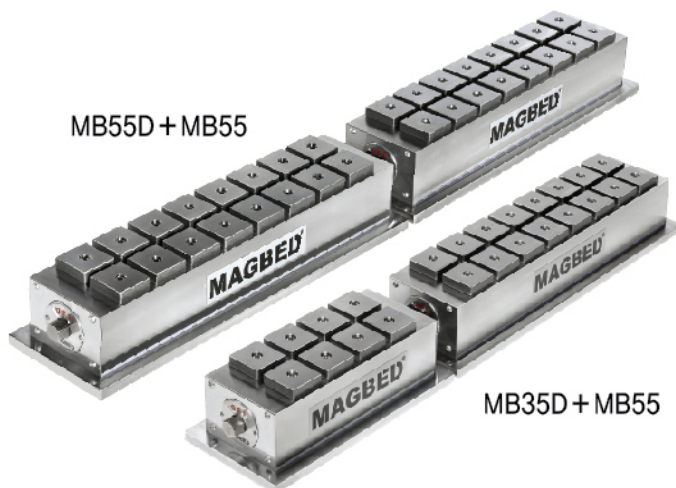


5 Two-Way Dual Modules

MAGBED Dual						MAGBED Module			
Model	Dimension (mm)			Block (Size 52 X 52mm)	Wgt (kg)	Model	Dimension (mm)		
	A	B	C				D	E	F
MB35D	240	316	356	8	32	MB35	240	305	345
MB40D	302	378	418	10	39	MB40	302	367	405
MB45D	365	441	481	12	45	MB45	365	430	470
MB50D	427	503	543	14	51	MB50	427	492	530
MB55D	490	566	606	16	59	MB55	490	555	593

Application Examples

MB55D + MB55



MB35D + MB55



MB35D + MB35 (Dimension 915 X 757mm)

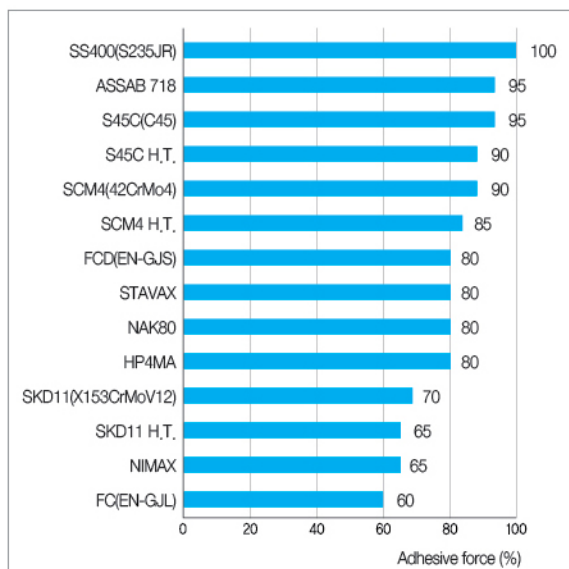
Installation and Operation

1. An electric control is not necessary since electric power is not needed, and installation is simple and easy.
2. Reassembling the work-holding device at anytime is possible due to its self-assembly structure.
3. No wear and tear of magnetism and work-holding device – 5-year quality guaranteed.
4. No need for repair and maintenance expenses.

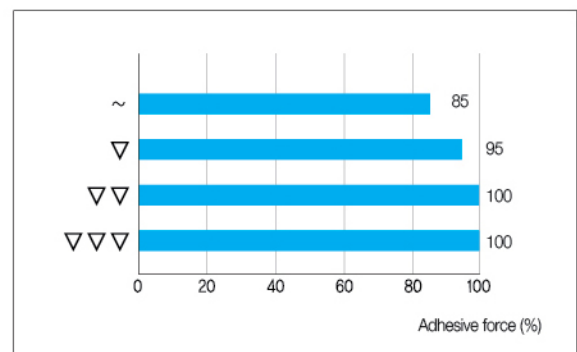
User Manual and Precautions

1. When lifting and transporting the MAGBED, turn it ON after placing the lifting eye bolt plate in the center of the MAGBED.
2. Turn ON the MAGBED after checking that there are no foreign objects on top of the MAGBED surface and that work-pieces are safely placed elsewhere.
Avoid placing the work-piece when the MAGBED is ON. Instantaneous adhesion is possible, and bodily injury may occur.
3. The magnetic field dispersed from the MAGBED may damage nearby electrical devices.
4. Check that the work-piece is tightly adhered to the MAGBED before starting work. Refer to the below tables for how adhesive force varies according to the alloy material, thickness, and shape of work piece.
5. Since each protective block disperses only one pole, N or S, the work-piece must be placed on at least two protective blocks. The more work-pieces that are placed, the more adhesive force is dispersed.
6. Check that the machining job is completely finished before turning the MAGBED detachable switch lever to the OFF position.
7. Since part of the material is special steel, immediate desorption of the work-piece is not possible. The time it takes for residual magnetism to dissipate may take a little while.

Varying adhesive force by differing material

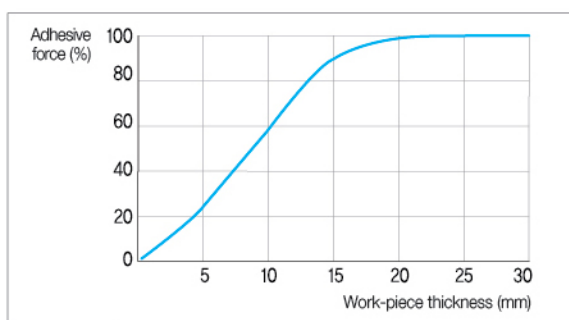


Adhesive force according to surface roughness

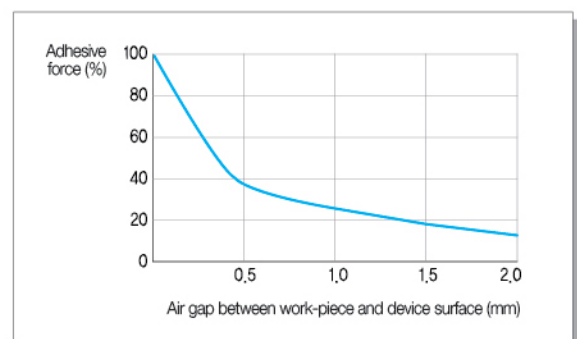


When the degree of roughness of work-piece exceeds 6,3um, maximum adhesive force is generated.

Adhesive force according to the thickness of work-piece

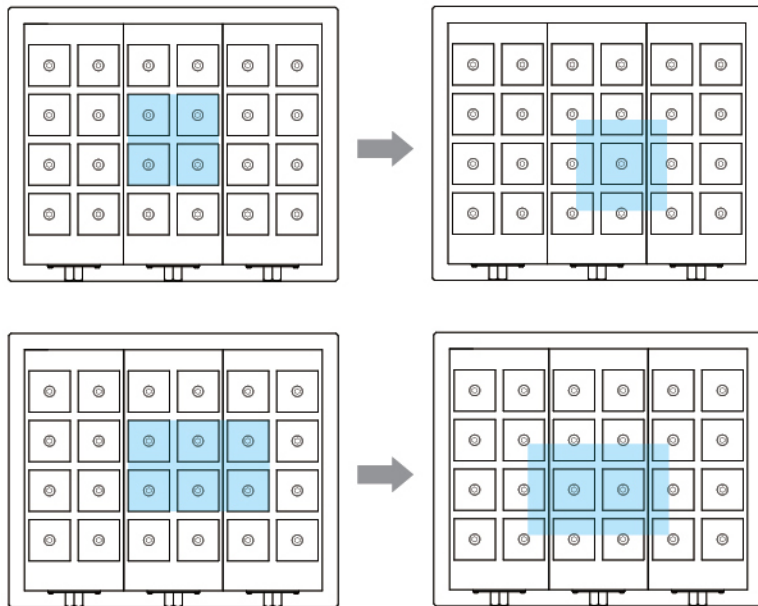


Holding power affected by air gap



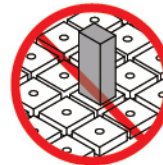
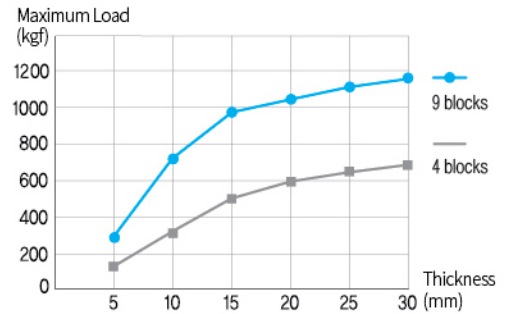
Holding power decreases, once air gap is caused by dusts, metal scraps or other foreign objects.

Adhesive Force According to the Adhesion Method of Work-Piece



Although same in size, using 9 blocks is stronger in magnetism than using 4 blocks. In addition, using 12 blocks is stronger in magnetism than using 6 blocks.

Work-Piece (Size: 115X115mm)
Breakaway Force Test According to Thickness



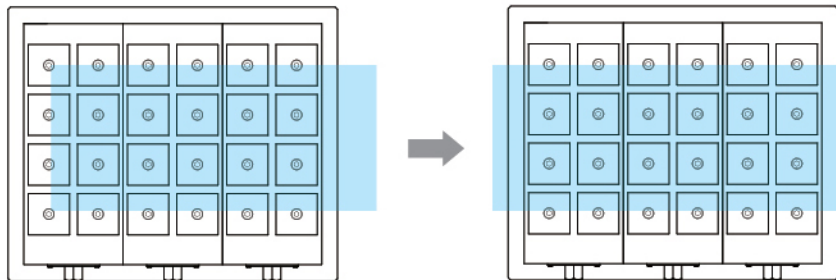
Avoid using tall, narrow work-pieces.

Work-pieces that are taller than the contact surface causes torque and the work-piece may fall over. Only use work-pieces that can adhere to at least 2 protective blocks.

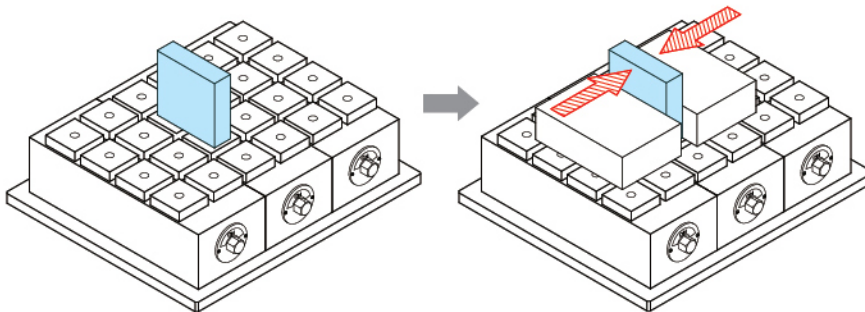


Before starting and after finishing work, check and maintain that the MAGBED is OFF.

Leaving the MAGBED ON may lead to magnetic substances adhering to the MAGBED, so the MAGBED shall remain OFF before and after work.



Work may securely occur once the work-piece is placed in the center of the blocks.

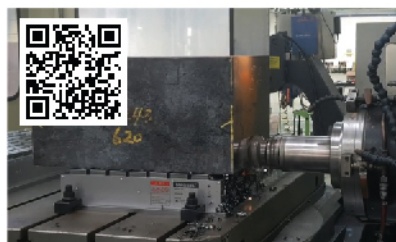
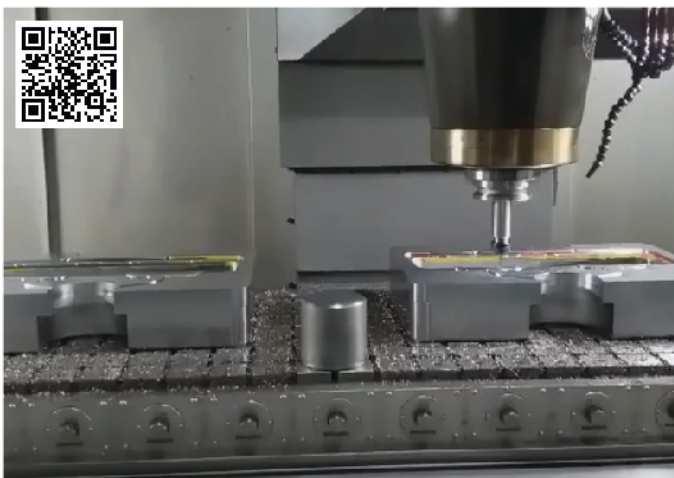
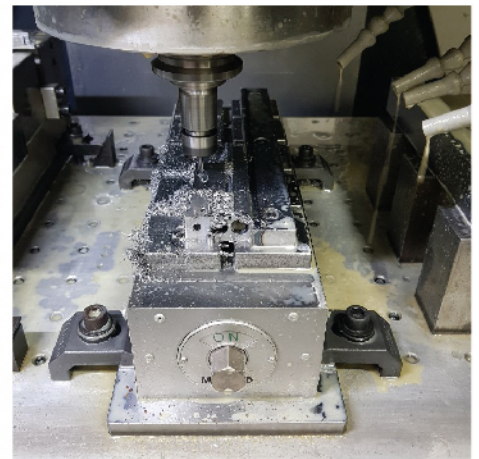
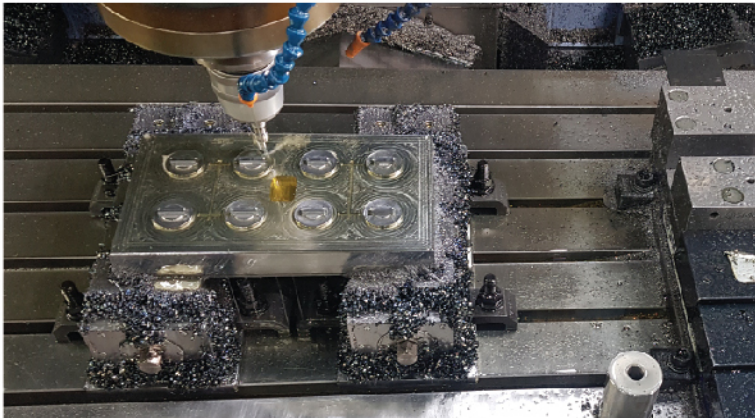
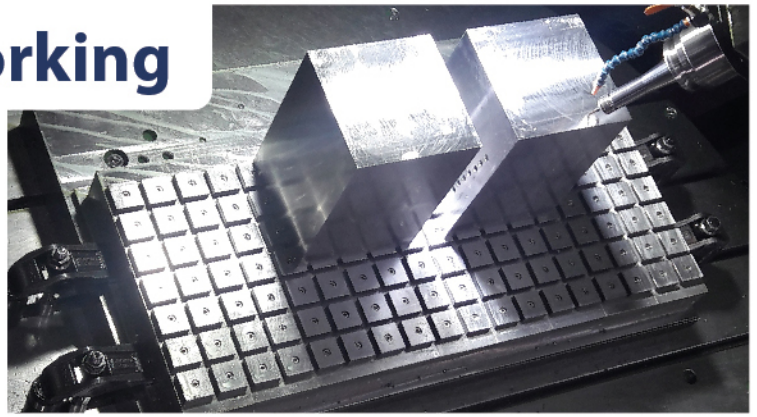
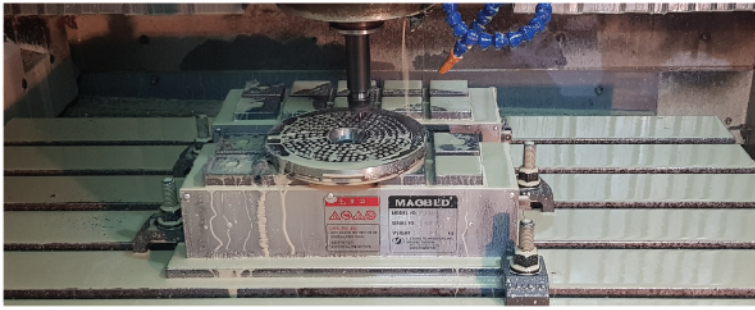


It is possible to secure work-pieces that are narrow and tall if placed between thicker and bigger blocks as shown in the picture.

Product Warranty

The MAGBED product has a warranty period of five(5) years from the date of manufacture. During this period, any malfunction or mechanical problem occurred during the course of normal use and conditions shall be repaired free of charge.

Where **MAGBED®** is working



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The product information contained in this leaflet may change without notice for product improvement. Date of issue : August 2023