

# Innovative permanent magnetic work-holding device

## UNIQUE MECHANISM-MERITS

1. No electricity needed—economical, environmentally friendly
2. Super-powerful permanent magnet conducts stronger holding power than electro-magnet or electro-permanent-magnet
3. Detachable switch lever—easy manual on-off operation
4. Partial area can be turned on or off selectively when necessary

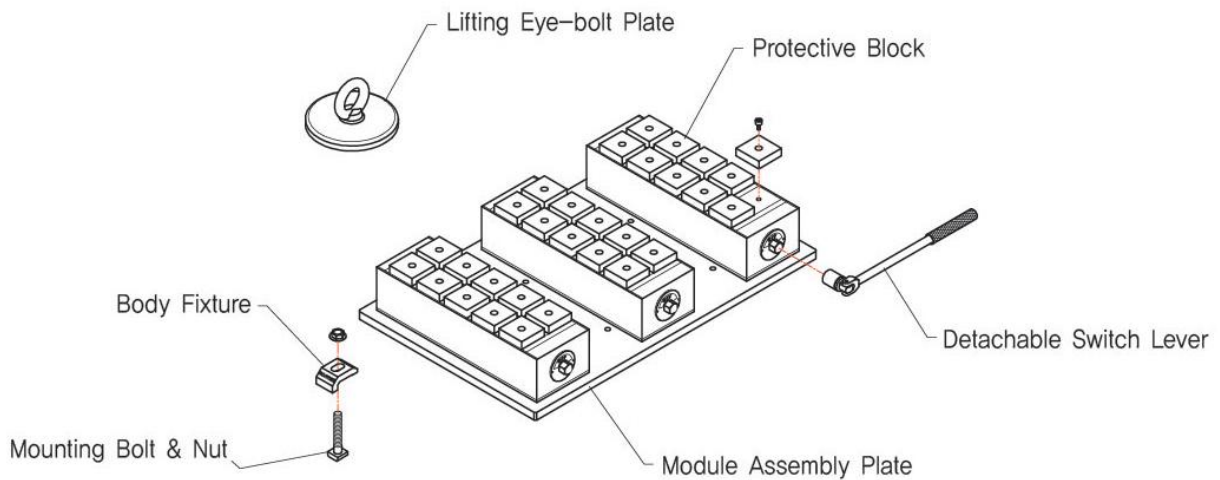
# MAGBED<sup>®</sup>

## INSTALLATION & OPERATION

1. Neither electric power nor electric control needed easy and simple installation
2. Structural alteration possible by reassembling modules
3. No wear and tear of magnetism or work-holding device –  
No expense for maintenance or repair
4. Speedy delivery by assembling ready-made modules



## Outline drawing-Principal parts/Accessories



## Model Notation-Model Selection

### 4 Basic Modules

Model	Dimension (mm)	Block Size 52 X 52	Wgt (kg)
MBM35	125 X 304 X 100	8	23
MBM40	125 X 366 X 100	10	28
MBM45	125 X 429 X 100	12	33
MBM50	125 X 491 X 100	14	38

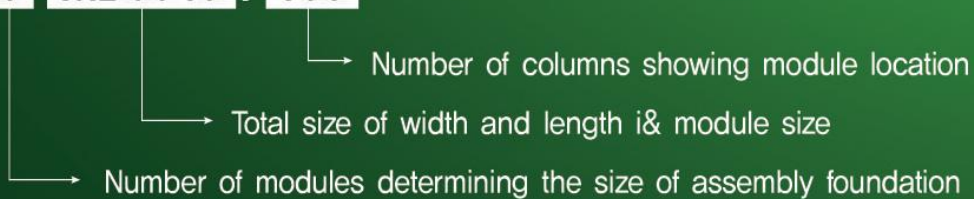
※ When only modules are purchased, no accessorail kits are provided.  
Foundation plate and accessories are priced separately.

### Completely assembled device

Model	Dimension (mm)	Block Size 52 X 52	Wgt (kg)
3MB4035	375 X 304 X 115	24	86
5MB6540	625 X 366 X 115	50	172
7MB9045	875 X 429 X 115	84	280
9MB11050	1125 X 491 X 115	126	411

※ When assembled MAGBED is purchased, accessory set comes at no charge.

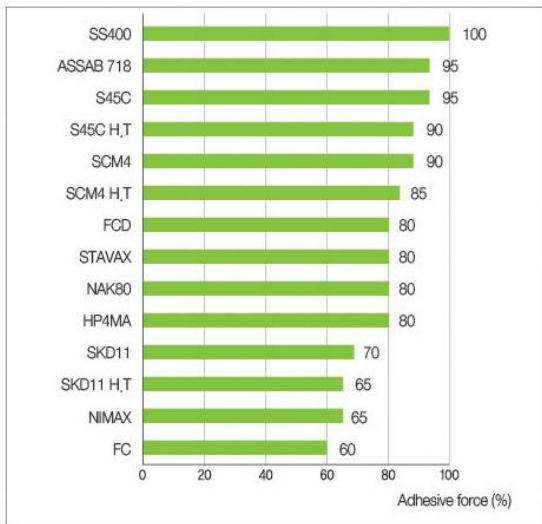
**5 MB6540 / 135**



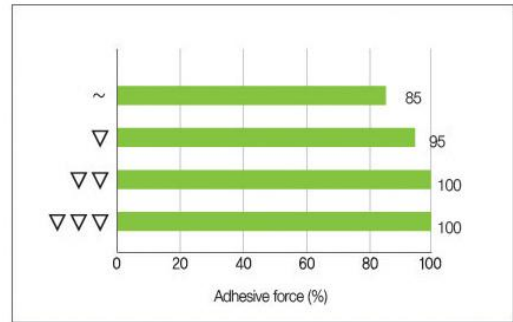
## User's manual and Caution

1. When lifting MAGBED, turn on the modules touched under eye bolt plate in the center of MAGBED.
2. Turn on the modules after work piece is properly positioned after any foreign objects are removed from MAGBED surface.
3. Avoid trying to place work-piece, while MAGBED is on. If so, bodily injury may occur. Magnetic field dispersed from MAGBED may damage electrical devices nearby.
4. Check if the work-piece is tightly adhered to MAGBED beforehand. Look it up to the table(s) below, as adhesive force varies according to the alloy material, thickness and shape of work-piece.
5. As each protective block disperses only one pole, N or S, work-piece must be placed upon two protective blocks. The more work-pieces are placed, the more adhesive force is dispersed.
6. MAGBED has to be turned off after machining job is completely finished. Some steel alloys may retain residual magnetism and cannot be separated immediately until residual magnetism is completely gone.

### Varying adhesive force by differing material

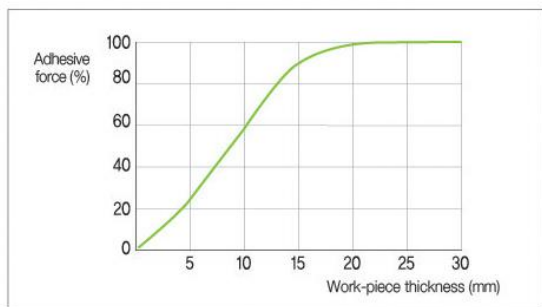


### Adhesive force according to surface roughness

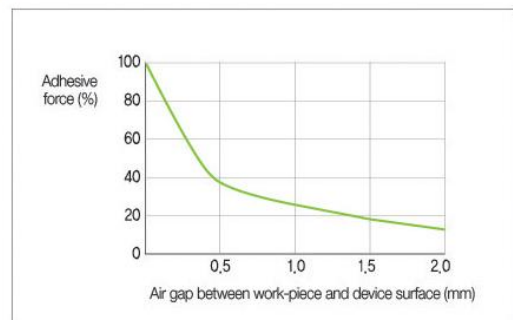


When the degree of roughness of work-piece exceeds 6,3um, maximum adhesive force is generated.

### Adhesive force according to the thickness of work-piece



### Holding power affected by air gap

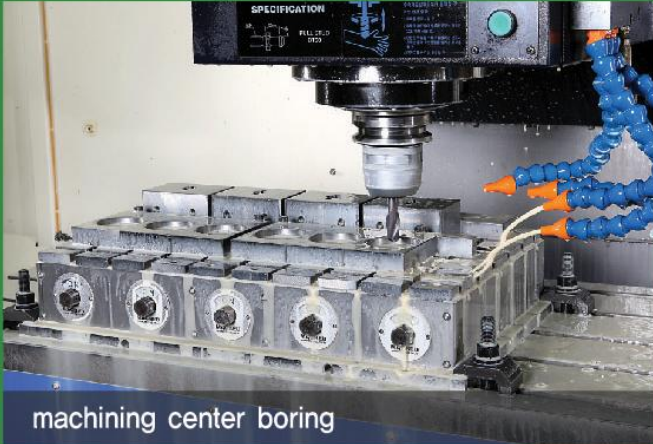


Holding power decreases, once air gap is caused by dusts, metal scraps or other foreign objects.

## Warranty

Warranty period of MAGBED is 5 years. During this period, any malfunction or mechanical problem occurred in the course of normal use is to be repaired free of charge.

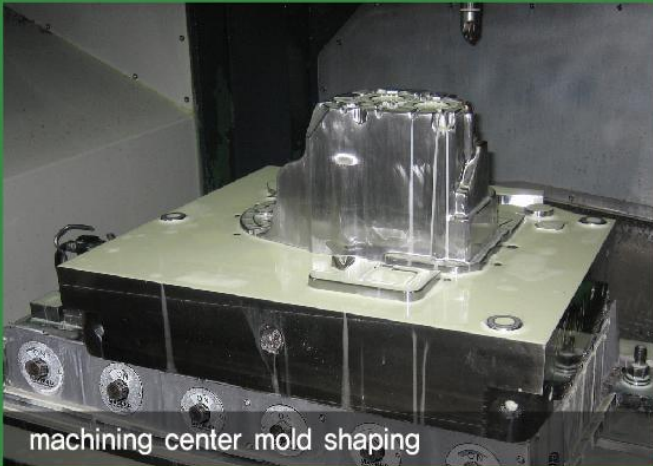
## Where MAGBED is working



machining center boring



radial drill machine



machining center mold shaping



machining center pocket machining



face milling & grinding

### MAGBED DIVISION

47, Noksansaneopbuk-ro, Gangseo-gu, Busan, Korea  
Tel. (82-51)831-4545  
Fax. (82-51)831-9400  
magbed@magbed.kr  
www.magbed.kr



KAESUNG TECHNOLOGIES, INC.  
MAGBED DIVISION

### Sales Representative