

**NEW PARADIGM OF WORLDHOLDING**



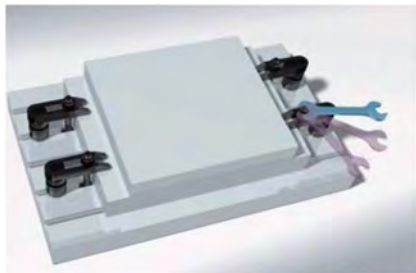
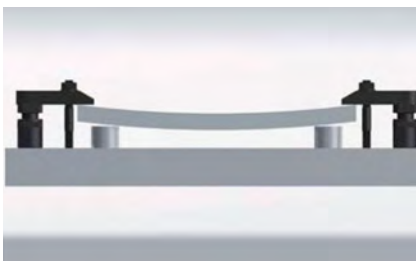
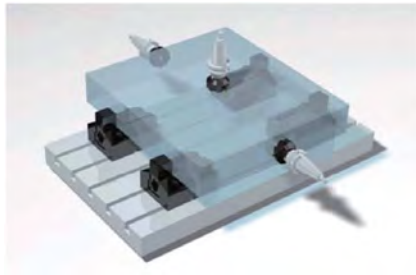
# **SPIDER**

## **USA**

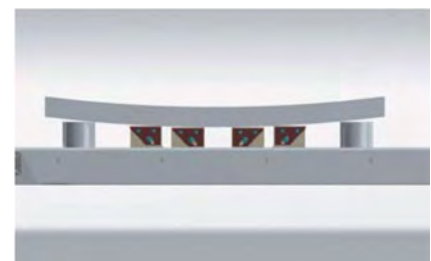
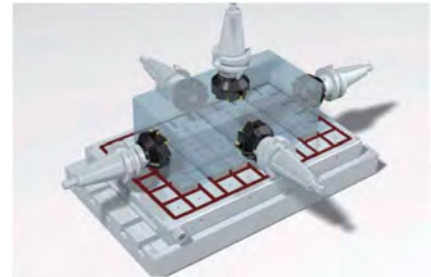


# New Paradigm of Workholding

## Conventional Method



## The Spider Advantage

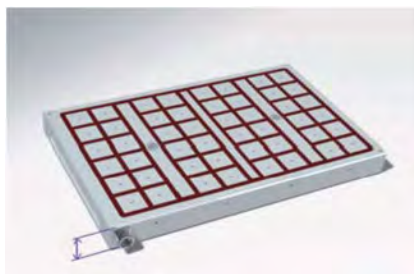


The SPIDER MAGNET overcomes certain machining problems where conventional methods fail, as it can process five surfaces for each load of workholding.

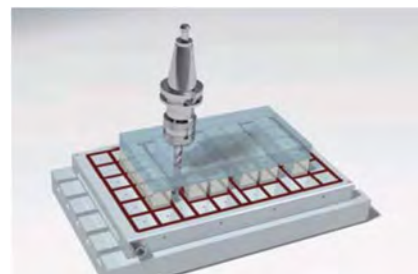
The SPIDER MAGNET maintains a stable condition without any structural change or expansion in the work piece often associated with conventional methods. It also increases tool life expectancy and precision with this breakthrough workholding method.

The SPIDER MAGNET can hold uneven surfaces of any shape with the use of turn pole extension blocks, which is not possible using conventional methods.

The SPIDER MAGNET can maintain a stable condition without structural change or expansion in the work piece, often caused by conventional methods, and also ensures tool life and precision machining with this breakthrough workholding method.



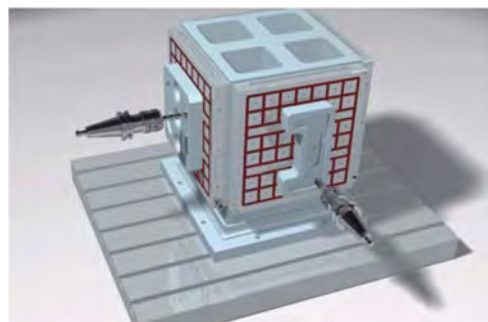
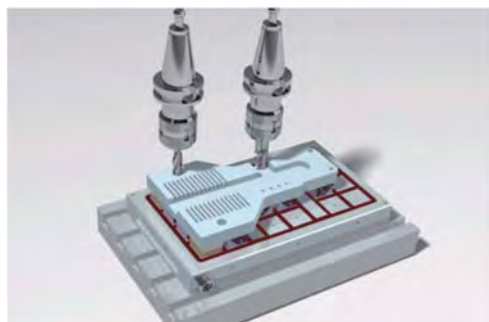
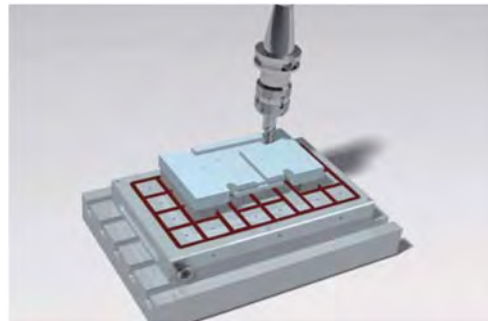
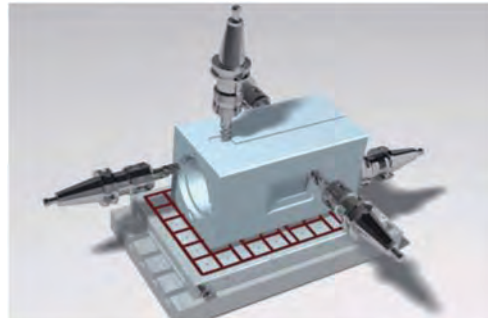
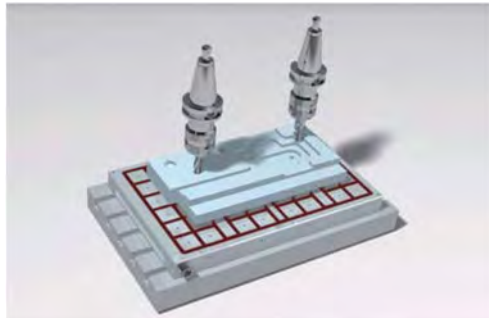
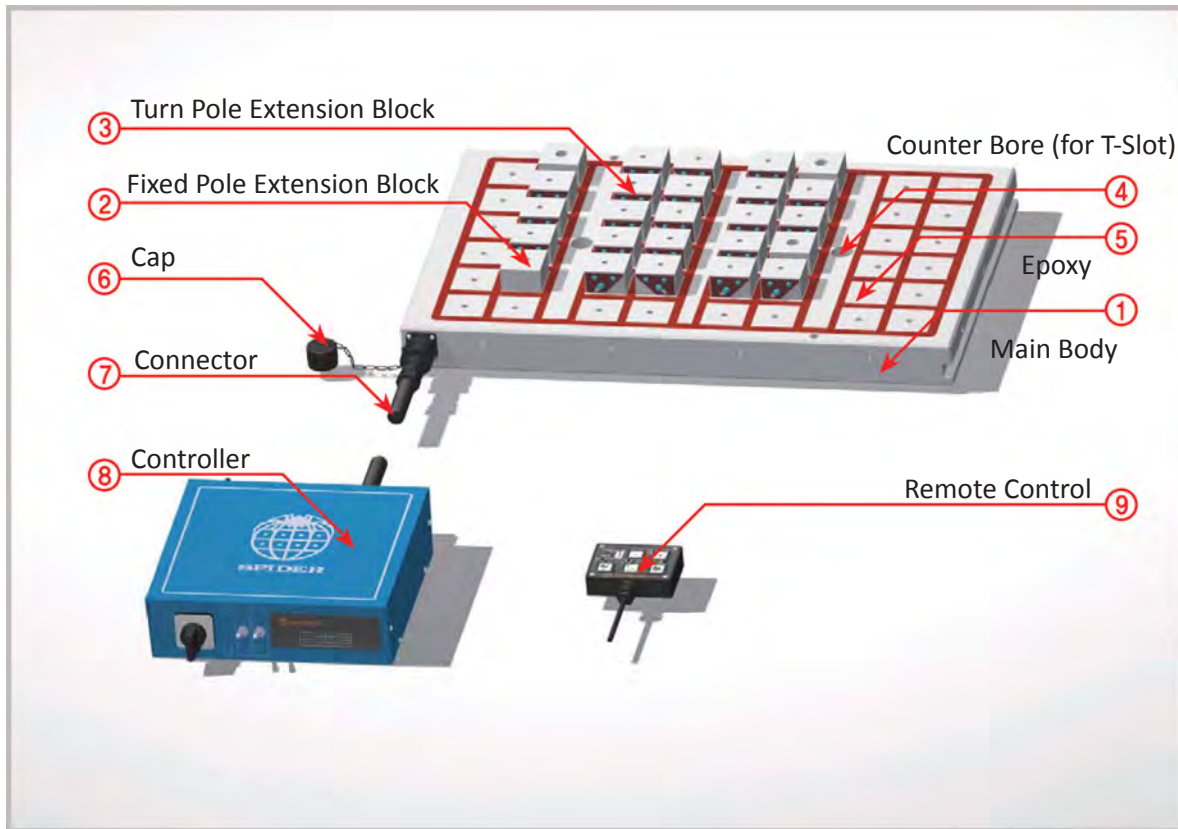
The SPIDER MAGNET is magnetically powerful enough to maximize machining range, while thin enough to achieve maximum machining height.



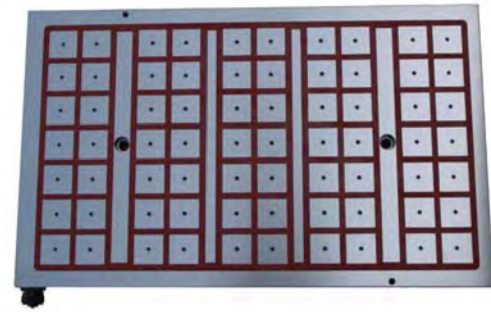
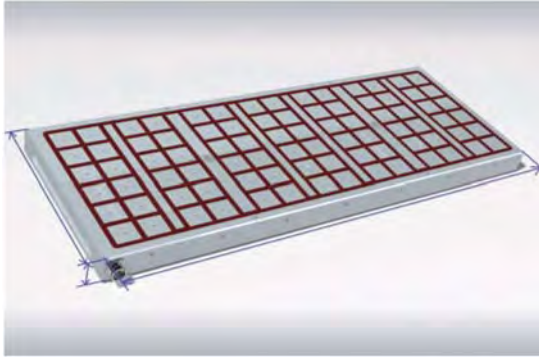
The SPIDER MAGNET allows drilling or endmilling through the work piece when its pole and turn extension blocks are properly arranged.



# Electro Permanent Magnetic Chuck



# SM5 Series - Specifications



SM5 Series H = 2.17"  
Clamp Force = 772lbf per Pole 1.96"x1.96"

### Standard Supply

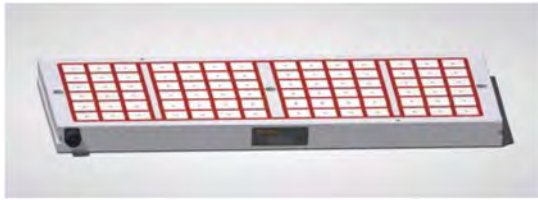
- Remote control  
(wire length: 16.4')
- Wire for electro permanent magnetic  
chuck (16.4')
- Manual
- Clamp block 4EA

### Options

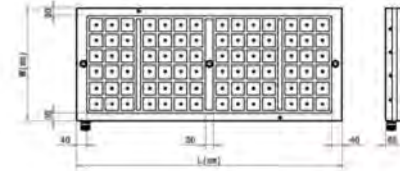
- Extension of wire
- Controller for PLC
- Fixed pole extension
- Easy turn pole extension
- Fixed pole extension for side

EDP	W (inches)	L (inches)	No. of Poles	Weight (lbs)
SM5203	9.06	13.46	12	77.16
SM5205		19.84	18	108.03
SM5206		25.75	24	136.69
SM5208		31.65	30	165.35
SM5209		37.56	36	196.21
SM5210		43.07	42	222.67
SM5303	11.81	13.46	16	94.80
SM5305		19.84	24	138.89
SM5306		25.75	32	176.37
SM5308		31.65	40	213.85
SM5309		37.56	57	251.33
SM5310		43.07	56	286.60
SM5403	16.14	13.46	24	127.87
SM5405		19.84	36	182.98
SM5406		25.75	48	235.89
SM5408		31.65	60	286.60
SM5409		37.56	72	339.51
SM5410		43.07	84	385.81
SM5503	19.29	13.46	28	149.91
SM5505		19.84	42	218.26
SM5506		25.75	56	279.99
SM5508		31.65	70	341.72
SM5509		37.56	84	405.65
SM5510		43.07	98	460.77
SMG603	23.62	13.46	36	180.78
SM5605		19.84	54	264.55
SM5606		25.75	72	339.51
SM5608		31.65	90	414.47
SM5609		37.56	108	491.63
SM5610		43.07	126	559.97

SMC-5 Series Magnet, the new addition to the compact Spider Magnet SM5 Series.



Reference position of the pole



Possible count bore position reference diagram

SM5 Series C = 2.56"

Clamp Force = 772lbf per Pole 1.96"x1.96"

EDP	W (in)	L (in)	No. of Poles	Weight (lbs)
SM5203C	9.92	13.19	12	90.39
SM5205C		19.49	18	134.48
SM5206C		24.21	24	167.55
SM5208C		28.94	30	202.83
SM5209C		35.63	63	249.12
SM5210C		40.35	42	286.60

EDP	W (in)	L (in)	No. of Poles	Weight (lb)
SM5303C	12.28	13.19	16	105.82
SM5305C		19.49	24	158.73
SM5306C		24.21	32	198.42
SM5308C		28.94	40	231.49
SM5309C		35.63	48	284.40
SM5310C		40.35	56	321.87

SM5403C	17.01	13.19	24	141.10
SM5405C		19.49	36	213.85
SM5406C		24.21	48	264.55
SM5408C		28.94	60	321.87
SM5409C		35.63	72	392.42
SM5410C		40.35	84	445.33

SM5503C	19.37	13.19	28	167.55
SM5505C		19.49	42	244.71
SM5506C		24.21	56	304.24
SM5508C		28.94	70	365.97
SM5509C		35.63	84	447.54
SM5510C		40.35	98	504.86

SM5603C	24.09	13.19	36	205.03
SM5605C		19.49	54	302.03
SM5606C		24.21	72	376.99
SM5608C		28.94	90	451.95
SM5609C		35.63	108	555.56
SM5610C		40.35	126	628.32

**Standard Supply**

- Remote control (cable length: 16.4')
- Cable for Electro Permanent Magnet Chuck (16.4')
- Manual

**Options**

- Extension of cable length
- Control function for PLC
- Fixed pole extension block
- Easy turn pole extension block

Shapes of SM5-C Series by lengths



L (in) = 13.2



L (in) = 19.5



L (in) = 24.2



L (in) = 28.9



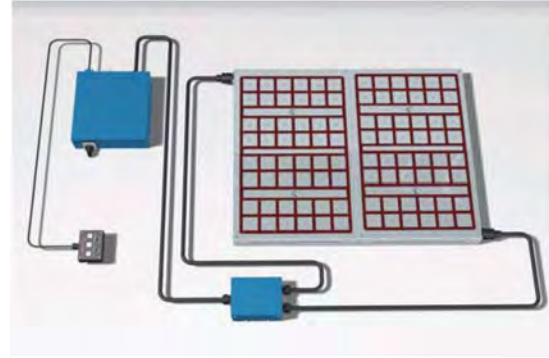
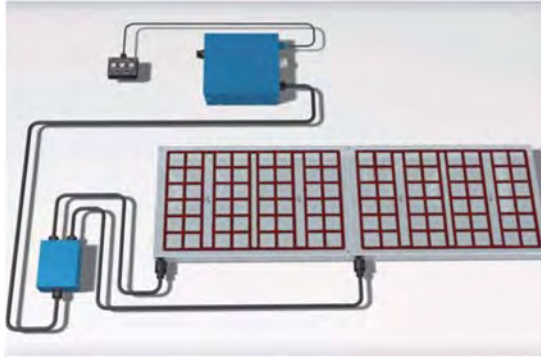
L (in) = 35.6



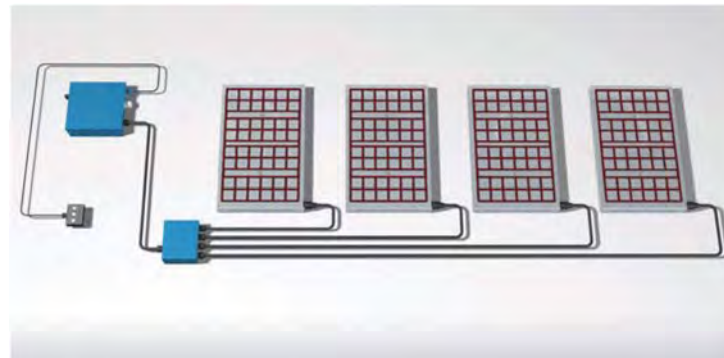
L (in) = 40.4

Customers can use Spider Magnet SM5-C Series even more usefully since it is secured with sides in 4 ways to enable the counter bore processing for M16 Bolt and processing is also possible even in the center part (except L=335).

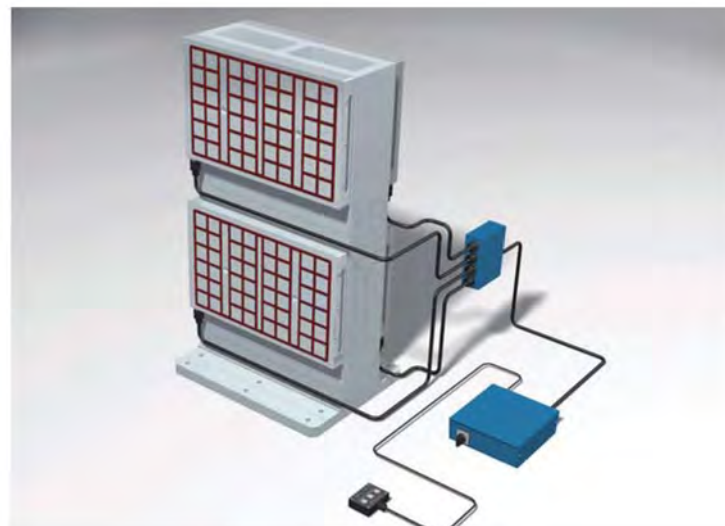
# Arrangement of a Spider Magnet



Example arrangement of two magnets

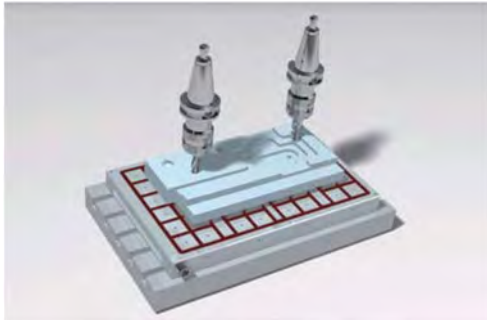


Example arrangement of 4 magnets

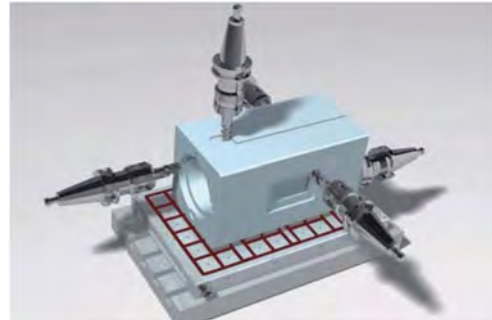


Example arrangement of 4 magnets  
Angle plate for horizontal machining center





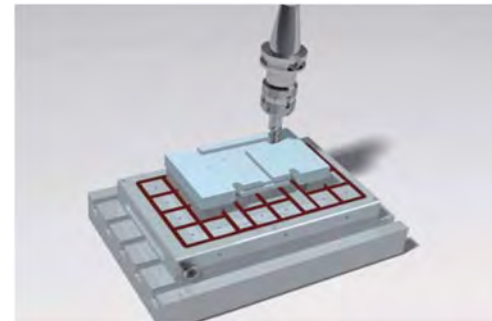
Example of machining with fixed pole extension blocks



Example of machining the five surfaces



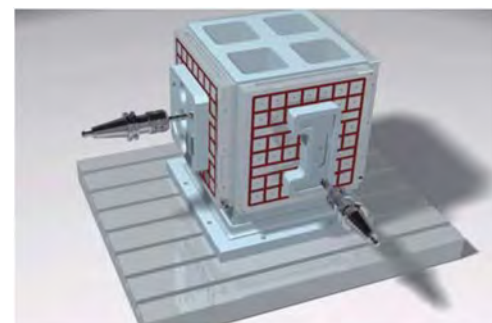
Example of machining the keyhole and surface of the round work piece



Example of drilling with fixed pole extension blocks



Example of machining with fixed pole extension blocks and turn pole extension blocks



Example of machining with horizontal machining center



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