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CATALOG 2017

# UPTECH ENGINEERING

ULTRA Brand Precision Inspection Instruments & Magnetic Products & Machine Shop Aids

[www.uptechengineering.com](http://www.uptechengineering.com)

**“ULTRA” ELECTROPERM MAGNETIC LIFTER**  
For Plate Handling.



**MODULAR FLEXIBLE**  
**EPM LIFTER**

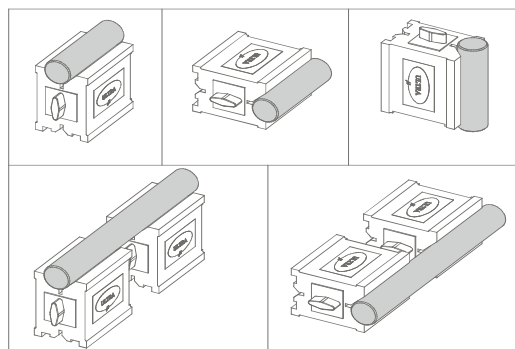
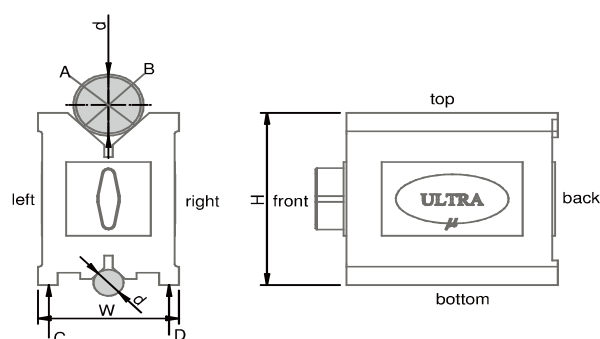


**“ULTRA” ELECTRO PERMANENT**  
**MAGNETIC TILTING LIFTER**  
for Sheets.

# 1 SERIES **UL - 320** "ULTRA" BRAND HARDENED MAGNETIC "V" BLOCKS

## ALL SIDES ARE HARDENED & GROUND.

- Used for grinding, light Milling, Drilling & inspection of round & square Jobs.
- Surface A, B, C, D are hardened to Hardness  $60 \pm 2Rc$ .  
Two V block per set.
- Uniform and Strong magnetic pull to all three magnetic surfaces,
- Top, Bottom & V Faces.
- Easy ON - OFF facility.



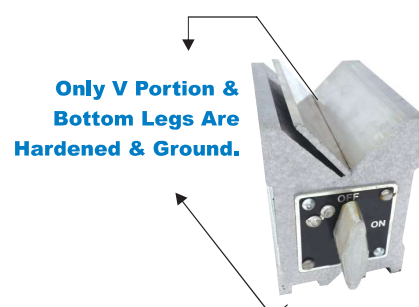
| Series Code   | Size (LxWxH) (mm/inch)         | Range of Shaft                 | Pull Force (kgf) | Accuracy* (mm/inches) |
|---------------|--------------------------------|--------------------------------|------------------|-----------------------|
| UL-32001 Hard | 45 L x 40 W x 55 H [ 2" ]      | DIA 3- 25mm (DIA 0.12-1")      | 30 kg            | 0.005mm (0.0002")     |
| UL-32002 Hard | 75 L x 56 W x 75 H [ 3" ]      | DIA 5- 40mm (DIA 0.2-1.57")    | 85 kg            | 0.005mm (0.0002")     |
| UL-32003 Hard | 100 L x 70 W x 95 H [ 4" ]     | DIA 5- 65mm (DIA 0.2-2.56")    | 150 kg           | 0.005mm (0.0002")     |
| UL-32004 Hard | 150 L x 75 W x 100 H [ 6" ]    | DIA 5- 70mm (DIA 0.2-2.75")    | 190 kg           | 0.006mm (0.00024")    |
| UL-32005 Hard | 200 L x 125 W x 150 H [ 8" ]   | DIA 10 - 140mm (DIA 0.4-5.51") | 400 kg           | 0.012mm (0.00047")    |
| UL-32006 Hard | 160 L x 125 W x 125 H [spl 6"] | DIA 5 - 140mm (DIA 0.2-5.51")  | 220 kg           | 0.012mm (0.00047")    |

\*Accuracy of Parallelism, Squareness in Matched Pair

## Comparison between Ultra brand products and other brand products



Ultra brand Harden V block



Other brand Harden V block

**Due to All sides harden 40% better life compared with ordinary blade and bit pasted harden V blocks**



## 2 SERIES **UL - 101**

### "ULTRA" BRAND MAGNETIC "V" BLOCKS (Soft)



- Used for Grinding, Light Milling, Drilling & Inspection of Round & Square Jobs
- Accuracy for Flatness, Squareness and Parallelism within 0.005mm upto 150 mmL & 0.010 mm for 200 mmL of "V" block
- Uniform and strong magnetic pull to all three magnetic surfaces Top, Bottom & V face
- Easy ON - OFF facility.
- 120 "V" angle also available.

## 3 SERIES **UL - 101**

### "ULTRA" BRAND LEAKPROOF MAGNETIC "V" BLOCKS

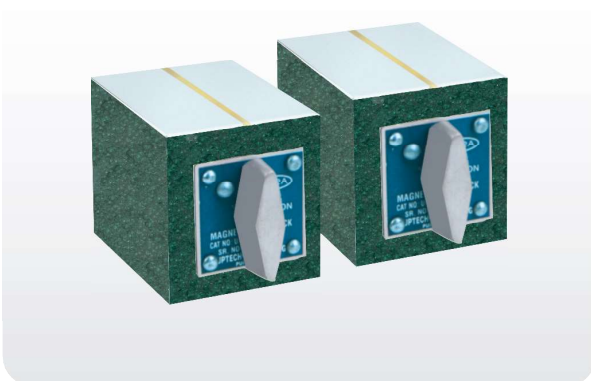


- Used for clamping of round and flat jobs during EDM operations, Light machining, Grinding or Drilling & Inspection
- Accuracy for Flatness, Squareness & Parallelism within 0.005mm. upto 120L & 0.010mm. upto 170L of 'V' Block
- Uniform magnetic pull.
- Three magnetic surfaces Top, Bottom & V faces.
- Hardness of V face is 60±2 Rc.

| Cat No.                | Size (mm)            | Range (mm) | Pull   |
|------------------------|----------------------|------------|--------|
| All sides are Hardened |                      |            |        |
| UL-10108               | 120 L x 70 W x 95 H  | Ø 5 - Ø 65 | 100 kg |
| UL-10109               | 170 L x 75 W x 100 H | Ø 5 - Ø 70 | 125 kg |

## 4 SERIES **UL - 201**

### "ULTRA" BRAND MAGNETIC RECTANGULAR BLOCKS



- Used for Grinding, Light Milling, Drilling & Inspection of Round & Square Jobs.
- Accuracy for Parallelism is within 0.010mm.
- Provided with ON-OFF switch except for 25 x 25mm block.
- Supplied in perfect matched pair. Harden Strips provided in hard pair.

| Sr. No. | Cat No.       | Size (mm)           |
|---------|---------------|---------------------|
| 1.      | UL-20101 Soft | 25 L x 25 W x 25 H  |
| 2.      | UL-20102 Soft | 75 L x 56 W x 60 H  |
| 3.      | UL-20103 Soft | 100 L x 70 W x 70 H |
| 4.      | UL-20104 Soft | 150 L x 70 W x 85 H |
| 1.      | UL-20102 Hard | 75 L x 56 W x 60 H  |
| 2.      | UL-20103 Hard | 100 L x 70 W x 70 H |
| 3.      | UL-20104 Hard | 150 L x 70 W x 85 H |

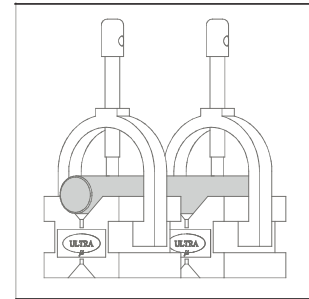
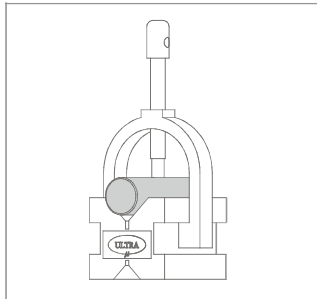
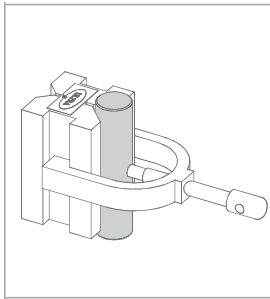
## 5 SERIES **UL - 102** "ULTRA" BRAND HARDENED & GROUND "V" BLOCKS



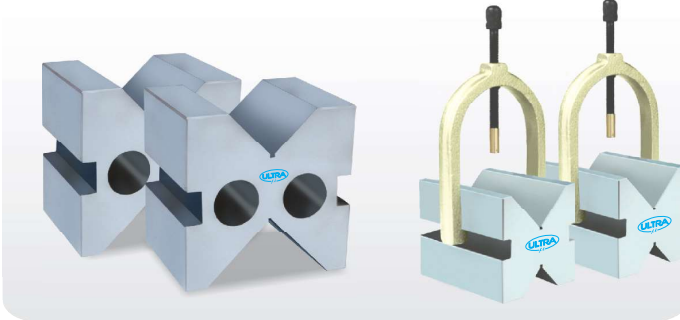
- Used for supporting of round and square jobs during Light Machining, Grinding, Drilling & Inspection.
- Hardness 60±2 Rc.
- Two V Block Per Set.
- Supplied with clamp.
- Can also be used for end face, side face and right angle Grinding

| Cat No.  | Size (mm)                | Range of Shaft                 | Accuracy* (mm/inches) |
|----------|--------------------------|--------------------------------|-----------------------|
| UL-10202 | 50 L x 40 W x 40 H [2"]  | DIA 05 - 30 (DIA 0.2 - 1.18")  | 0.005 (0.0002")       |
| UL-10203 | 80 L x 63 W x 63 H [3"]  | DIA 07 - 63 (DIA 0.27 - 2.48") | 0.005 (0.0002")       |
| UL-10204 | 100 L x 80 W x 80 H [4"] | DIA 07 - 80 (DIA 0.27 - 3.15") | 0.006 (0.00024")      |

\*Accuracy of Parallelism, Squareness in Matched Pair



## 6 SERIES **UL - 105** "ULTRA" BRAND HARDENED & GROUND "V" BLOCK WITH CLAMP



- Used for Grinding, Light Milling, Drilling & Inspection of Round & Square Jobs.
- Accuracy as per IS - 2949 - 1974.
- Hardness 60±2 Rc.
- Supplied in perfect matched pair.
- End face grinding, square with sides is possible.
- Two 90° "V" angle for different capacities.
- Special sizes can also be manufactured.
- Supplied with Clamp.

| Sr. No. | Cat No.  | Size (mm)             | Range (mm)   |
|---------|----------|-----------------------|--------------|
| 1.      | UL-10501 | 50 L x 40 W x 40 H    | Ø 5 - Ø 40   |
| 2.      | UL-10502 | 50 L x 50 W x 50 H    | Ø 5 - Ø 50   |
| 3.      | UL-10503 | 63 L x 50 W x 50 H    | Ø 5 - Ø 50   |
| 4.      | UL-10504 | 63 L x 80 W x 80 H    | Ø 7 - Ø 80   |
| 5.      | UL-10505 | 63 L x 100 W x 100 H  | Ø 8 - Ø 100  |
| 6.      | UL-10506 | 70 L x 140 W x 140 H  | Ø 9 - Ø 140  |
| 7.      | UL-10507 | 80 L x 63 W x 63 H    | Ø 7 - Ø 63   |
| 8.      | UL-10508 | 100 L x 80 W x 80 H   | Ø 7 - Ø 80   |
| 9.      | UL-10509 | 150 L x 200 W x 200 H | Ø 10 - Ø 200 |
| 10.     | UL-10510 | 200 L x 200 W x 200 H | Ø 10 - Ø 200 |



## 7 SERIES UL - 103

### "ULTRA" BRAND HARDENED & GROUND "V" BLOCKS

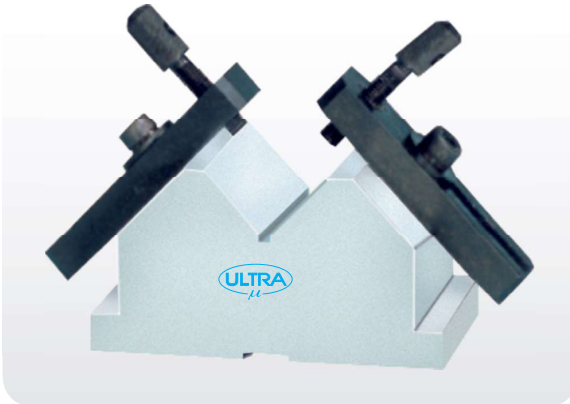


- Used for Grinding, Light Milling, Drilling & Inspection of Round & Square Jobs.
- Accuracy for Flatness, Squareness and Parallelism within 0.010mm up to 150W above that 0.020mm up to 200W.
- Hardness 60±3 Rc.
- Supplied in perfect matched pair.
- Supplied with clamp which can be used from both sides to suit job dimensions.
- Holds & Clamps the heavy jobs rigidly.
- Can also be used for end face, side face and right angle Grinding

| Cat No.  | Size (mm)            | Range (mm)  |
|----------|----------------------|-------------|
| UL-10301 | 65 L x 150W x 75 H   | Ø 5 - Ø 100 |
| UL-10302 | 65 L x 175 W x 100 H | Ø 5 - Ø 125 |
| UL-10303 | 75 L x 200 W x 125 H | Ø 5 - Ø 150 |

## 8 SERIES UL - 104

### "ULTRA" BRAND HARDENED & GROUND "V" BLOCKS



- Used for Grinding, Light Milling, Drilling & Inspection of Round & Square Jobs.
- Accuracy for Flatness, Squareness and Parallelism within 0.010mm up to 150W above that 0.020mm up to 200W.
- Tenon slot (16x3) at bottom can be used for clamping on machine bed.
- Hardness 60±3 Rc.
- Entire top of V is accessible due to unique design.
- Supplied in perfect matched pair.

| Cat No.  | Size (mm)           | Range (mm)  |
|----------|---------------------|-------------|
| UL-10401 | 75 L x 120W x 60H   | Ø 5 - Ø 50  |
| UL-10402 | 100 L x 150W x 75H  | Ø 5 - Ø 75  |
| UL-10403 | 125 L x 200W x 100H | Ø 5 - Ø 100 |

## 9 SERIES UL - 106

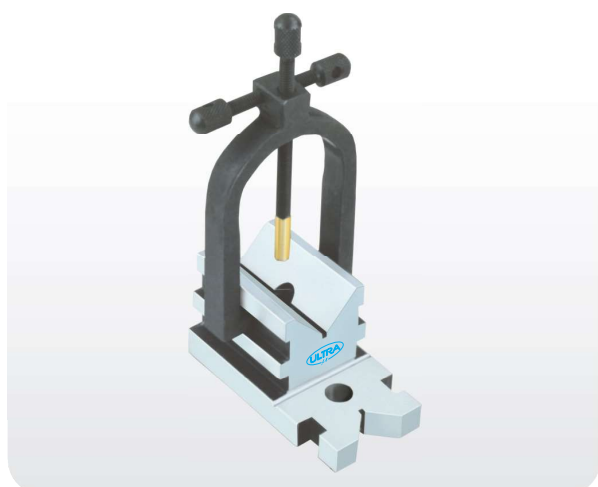
### "ULTRA" BRAND UNIVERSAL "V" BLOCK



- Used for Grinding, Light Milling, Drilling & Inspection of Round & Square Jobs.
- Accuracy as per IS - 4960 - 1968.
- Grade A - made from alloy steel material & Hardness is 60±2 Rc.
- Grade B - made from hard cast iron & scrapped..
- Four different 90° V opening to suit various sizes.
- Supplied in perfect matched pair.
- Also available to suit your specifications.

| Sr. No. | Cat No.  | Size (mm)             | Grade A |
|---------|----------|-----------------------|---------|
| 1.      | UL-10601 | 63 L x 100 W x 100 H  | ✓       |
| 2.      | UL-10602 | 80 L x 160 W x 160 H  | ✓       |
| 3.      | UL-10603 | 100 L x 200 W x 200 H | ✓       |
| 4.      | UL-10604 | 125 L x 300 W x 300 H | —       |
| 5.      | UL-10605 | 120 L x 120 W x 60 H  | ✓       |
| 6.      | UL-10606 | 150 L x 150 W x 75 H  | ✓       |
| 7.      | UL-10607 | 190 L x 190 W x 90 H  | ✓       |

## 10 SERIES **UL - 108** "ULTRA" BRAND HARDENED & GROUND TOOL-ROOM "V" BLOCK



- Used for Grinding, Light Milling, Drilling & Inspection of Round & Square Jobs.
- Accuracy for Flatness, Squareness and Parallelism within 0.010mm.
- Can be used on its base, the ends & on either side.
- Hardness 60±2 Rc.
- M10 tapping at base M8 tapping on side for clamping on angle plate or face plate or on magnetic chuck.
- A clamp with cap & adjustable screws prevents tilting of block.
- A clearance hole at centre for drilling or removing of dowel pins.
- The "V" at stepped end at right angle to the base provides a handy means for holding shouldered studs, round pins etc.

| Cat No.  | Size (mm)         | Range (mm) |
|----------|-------------------|------------|
| UL-10801 | 48 square x 90 L. | Ø 5 - Ø 33 |

## 11 SERIES **UL - 109** "ULTRA" BRAND HARDENED & GROUND "V" BLOCKS



- Used for Grinding, Light Milling, Drilling & Inspection of Round & Square Jobs.
- Accuracy for Flatness, Squareness and Parallelism within 0.008mm.
- It can be used on the base, ends & sides.
- Hardness 60±2 Rc & supply in perfect matched pair.
- Clamps has tapping holes at 45° & 90° for clamping the square & round jobs.
- Stepped groove design permits clamping of small or large jobs.

| Cat No.  | Size (mm)        | Range (mm)                        |
|----------|------------------|-----------------------------------|
| UL-10901 | 65 L x 70W x 50H | Ø 5 - Ø 50 round<br>35 mm square. |

## 12 SERIES **UL - 113** "ULTRA" BRAND HARDENED & GROUND "V" BLOCKS



- Used for Grinding, Light Milling, Drilling & Inspection of Round & Square Jobs.
- Accuracy for Flatness, Squareness and Parallelism within 0.010mm.
- It can be used on the base, ends & sides.
- Hardness 60±3 Rc & supplied in perfect matched pair.
- Sturdy clamps for better clamping of jobs.
- End face grinding, right angle with sides is possible.

| Cat No.  | Size (mm)           | Range (mm) |
|----------|---------------------|------------|
| UL-11301 | 40 L x 35 H x 45W   | Ø 3 - Ø 25 |
| UL-11302 | 55 L x 40 H x 55 W  | Ø 3 - Ø 40 |
| UL-11303 | 65 L x 45 H x 70 W  | Ø 5 - Ø 50 |
| UL-11304 | 90 L x 70 H x 125 W | Ø 5 - Ø 60 |



### 13 SERIES **UL - 114**

### "ULTRA" BRAND HARDENED & GROUND "V" BLOCKS WITH CLAMP



- Used for Grinding, Light Milling, Drilling & Inspection of Round & Square Jobs.
- Accuracy 0.010mm.
- Hardness 60±2 Rc.
- Supplied in perfect matched pair
- Top angle 120°
- Bottom angle 90°
- Suitable for checking of lobbing.
- Sturdy clamps for better clamping of the job

| Cat No.  | Size (mm)           | Range (mm)  |
|----------|---------------------|-------------|
| UL-11401 | 45 L x 120 W x 75 H | Ø 9 - Ø 125 |

### 14 SERIES **UL - 110**

### "ULTRA" BRAND ROLLER BEARING "V" BLOCK



UL-11001



UL-11002

- Used for checking heavy and odd shaped round jobs.
- Perfectly matched pair. Accuracy :- Parallelity 10 micron for all series.
- Included angle of rollers is 90°.
- Standard bearings are used which are replaceable.
- Jobs don't get damaged due to bearing on top.
- **Special sizes suitable for different diameter manufactured on request.**

| Cat No.  | Size Top    | Size Botom   | Height | Range      | Load Capacity |
|----------|-------------|--------------|--------|------------|---------------|
| UL-11001 | 150 L x 40W | 150 L x 80W  | 100 H  | Ø3 - Ø55   | 1000 Kgs      |
| UL-11002 | 150 L x 22W | 150 L x 60W  | 100 H  | Ø25 - Ø70  | 500 Kgs       |
| UL-11003 | 230 L x 60W | 230 L x 100W | 150 H  | Ø70 - Ø200 | 1000 Kgs      |

### 15 SERIES **UL - 111**

### "ULTRA" BRAND B (BALL) BLOCKS



- Used for checking of heavy round & cylindrical jobs.
- Supplied in perfectly matched pair having accuracy 0.010mm.
- Four hard steel balls on top face provides self-aligning, hard wearing, accurate support.
- Ball wearing is even, so accuracy doesn't get affected.
- Ball can be replaced and readjusted with minimum effort & cost

| Cat No.  | Size (mm)            | Max. Load Capacity |
|----------|----------------------|--------------------|
| UL-11101 | 55 L x 55 W x 35 H   | 100 Kg             |
| UL-11102 | 85 L x 85 W x 45 H   | 300 Kg             |
| UL-11103 | 120 L x 120 W x 70 H | 500 Kg             |

## 16 SERIES **UL - 303** "ULTRA" BRAND 1-2-3 BLOCKS WITH 1 HOLE



- Used for accurate mounting & quick setting during Inspection, tool setting & machining.
- Made from alloy steel material.
- Hardness  $60 \pm 2$  Rc.
- Accuracy for Parallelism & Squareness within 0.005mm. M8 tapped hole provided at centre.

| Cat No.  | Size (mm)          |
|----------|--------------------|
| UL-30301 | 75 L x 50 W x 25 T |

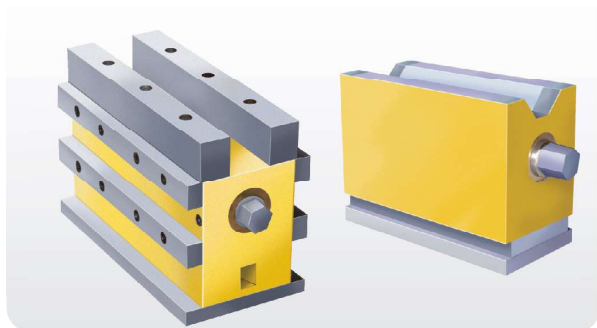
## 17 SERIES **UL - 612** "ULTRA" BRAND MAGNETIC CLAMPING BLOCK



- Suitable for drilling & light Machining.
- Easy to operate.
- Saves time as mechanical clamps are avoided.
- Economical for operation & maintenance.
- Powerful holding with the magnet.
- Vertical lifting force is 35 to 40 kg per cm sq.

| Cat No.  | Size (mm)            |
|----------|----------------------|
| UL-61201 | 120 L x 85 W x 130 H |

## 18 SERIES **UL - 807** "ULTRA" BRAND HEAVY DUTY MAGNETIC HOLDER



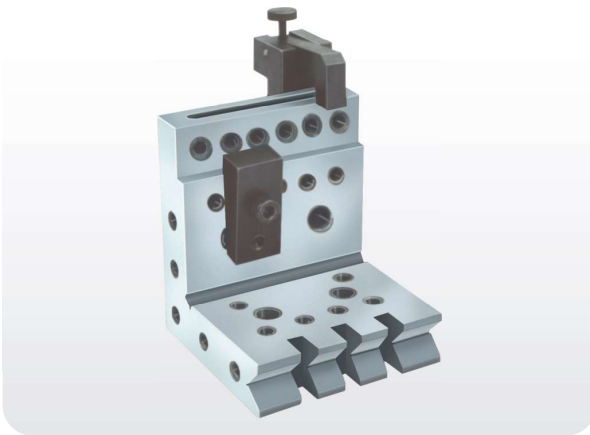
- All surfaces are hardened & ground for cat no. 80701
- Suitable for conventional & CNC Milling.
- Suitable for milling 1 to 3mm
- Economical for operation & maintenance.
- No accidents due to power failure.
- Slipping force 2.5 kg / cm<sup>2</sup>
- Vertical lifting force is 35 - 40 kg / cm<sup>2</sup>

| Cat No.    | Size (mm)             |
|------------|-----------------------|
| UL - 80701 | 230 L x 115 W x 160 H |
| UL - 80702 | 175 L x 085 W x 130 H |



## 19 SERIES UL - 308

### "ULTRA" BRAND HARDENED & GROUND PRECISION ANGLE PLATE

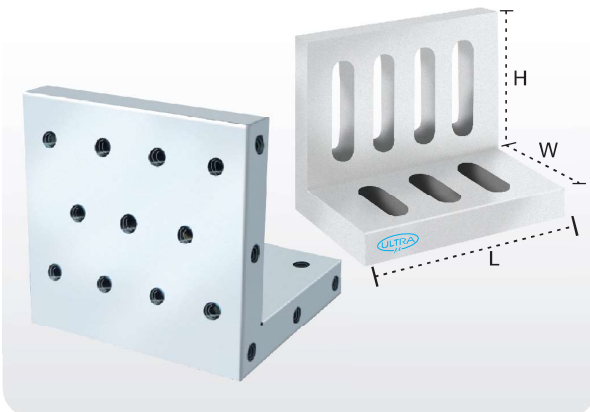


- These angle plates are invaluable for accurate work in Tool room, right angle machining & grinding.
- Made from single piece high quality alloy steel.
- Accuracy for Square ness, Flatness & Parallelism Within 0.007 mm.
- Hardness -  $60 \pm 2$  Rc.
- Unique design to hold small cylindrical parts also.
- M6 & M8 tapped holes for clamping.
- Three clamps provided for different clamping.

| Cat No.  | Size (mm)       |
|----------|-----------------|
| UL-30801 | 100 x 100 x 115 |

## 20 SERIES UL - 309

### "ULTRA" BRAND HARDENED & GROUND PRECISION ANGLE PLATE



- These angle plates are invaluable for accurate work in Tool room, right angle machining & grinding.
- Made from single piece high quality alloy steel.
- Accuracy for Square ness, Flatness & Parallelism is within 0.010mm upto 150L & within 0.015mm upto 300L.
- M6 & M8 tapped holes or slots are provided for clamping.
- Hardness -  $60 \pm 2$  Rc.

| Cat No.  | Size (mm)             |
|----------|-----------------------|
| UL-30901 | 115 H x 150 W x 150 L |
| UL-30902 | 150 H x 150 W x 150 L |
| UL-30903 | 150 H x 150 W x 225 L |
| UL-30904 | 150 H x 225 W x 300 L |

- Slotted Angle Plate On Request.

## 21 SERIES UL - 608

### "ULTRA" BRAND ELECTRO MAGNETIC ANGLE PLATE

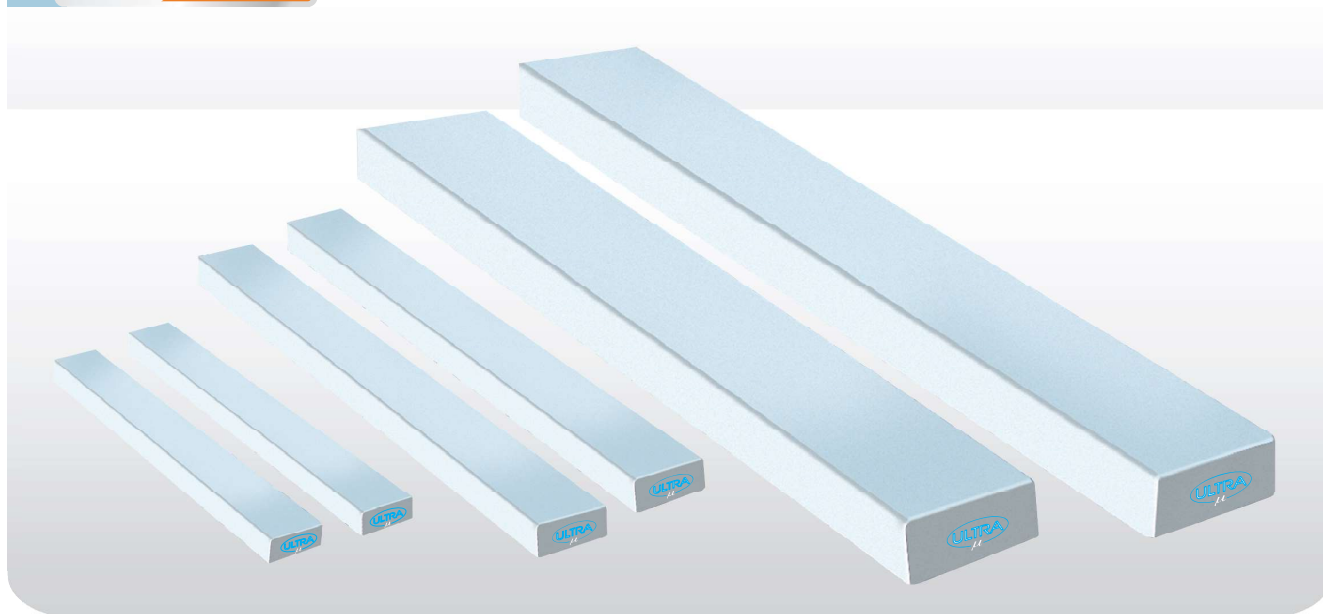


- Used as a workpiece holding device for Squareness grinding, inspection & light machining.
- Accuracy for Squareness & parallelism is within 0.005mm.
- Operates on 24 VDC, controlled by Mag-D-Mag with variable control unit with Two Individual ON - OFF.
- Easy to operate.
- Saves time as mechanical clamps are avoided.
- DEMAG switch for easy removal of jobs.
- Battery back-up unit is also available on request.

| Sr. No. | Cat No.                                      | Size (mm)       | Magnetic Pull |
|---------|----------------------------------------------|-----------------|---------------|
| 1.      | UL 60801                                     | 150 x 150 x 160 | 125 Kg        |
| 2.      | "ULTRA" MAG D-MAG WITH VARIABLE CONTROL UNIT |                 |               |

## 22 SERIES UL - 301

## "ULTRA" BRAND PARALLEL BLOCKS (Sizes are nominal)



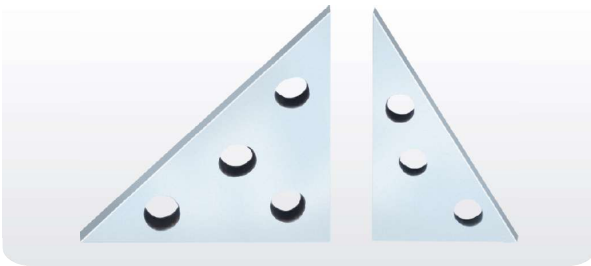
- Used for accurate supporting of jobs  
Made from special quality alloy steel material.
- Hardness 60  $\pm$  2 Rc.
- Accuracy for Parallelism, flatness  
is 0.010mm upto 200mm L & 0.025mm upto 450mm L
- Special sizes are available as per Requirement.

| Sr. No. | Cat No.    | Size (mm)           |
|---------|------------|---------------------|
| 1       | UL - 30101 | 100 L x 10 W x 5 H  |
| 2       | UL - 30102 | 100 L x 12 W x 5 H  |
| 3       | UL - 30103 | 100 L x 15 W x 5 H  |
| 4       | UL - 30104 | 100 L x 20 W x 5 H  |
| 5       | UL - 30105 | 150 L x 10 W x 6 H  |
| 6       | UL - 30106 | 150 L x 12 W x 6 H  |
| 7       | UL - 30107 | 150 L x 15 W x 6 H  |
| 8       | UL - 30108 | 150 L x 20 W x 6 H  |
| 9       | UL - 30109 | 150 L x 10 W x 10 H |
| 10      | UL - 30110 | 150 L x 12 W x 10 H |
| 11      | UL - 30111 | 150 L x 15 W x 10 H |
| 12      | UL - 30112 | 150 L x 20 W x 10 H |
| 13      | UL - 30113 | 150 L x 15 W x 15 H |
| 14      | UL - 30114 | 150 L x 20 W x 15 H |
| 15      | UL - 30115 | 150 L x 25 W x 15 H |
| 16      | UL - 30116 | 150 L x 30 W x 15 H |
| 17      | UL - 30117 | 200 L x 20 W x 15 H |
| 18      | UL - 30118 | 200 L x 25 W x 15 H |
| 19      | UL - 30119 | 200 L x 30 W x 20 H |
| 20      | UL - 30120 | 200 L x 40 W x 20 H |
| 21      | UL - 30121 | 200 L x 20 W x 25 H |
| 22      | UL - 30122 | 200 L x 30 W x 25 H |
| 23      | UL - 30123 | 200 L x 40 W x 25 H |
| 24      | UL - 30124 | 200 L x 50 W x 25 H |
| 25      | UL - 30125 | 250 L x 15 W x 20 H |
| 26      | UL - 30126 | 250 L x 20 W x 20 H |

| Sr. No. | Cat No.    | Size (mm)            |
|---------|------------|----------------------|
| 27      | UL - 30127 | 250 L x 25 W x 20 H  |
| 28      | UL - 30128 | 250 L x 30 W x 20 H  |
| 29      | UL - 30129 | 250 L x 40 W x 25 H  |
| 30      | UL - 30130 | 250 L x 50 W x 25 H  |
| 31      | UL - 30131 | 250 L x 50 W x 30 H  |
| 32      | UL - 30132 | 250 L x 60 W x 30 H  |
| 33      | UL - 30133 | 300 L x 25 W x 25 H  |
| 34      | UL - 30134 | 300 L x 30 W x 25 H  |
| 35      | UL - 30135 | 300 L x 40 W x 25 H  |
| 36      | UL - 30136 | 300 L x 50 W x 25 H  |
| 37      | UL - 30137 | 300 L x 40 W x 35 H  |
| 38      | UL - 30138 | 300 L x 50 W x 35 H  |
| 39      | UL - 30139 | 300 L x 60 W x 35 H  |
| 40      | UL - 30140 | 300 L x 70 W x 35 H  |
| 41      | UL - 30141 | 350 L x 30 W x 40 H  |
| 42      | UL - 30142 | 350 L x 40 W x 40 H  |
| 43      | UL - 30143 | 350 L x 50 W x 40 H  |
| 44      | UL - 30144 | 350 L x 70 W x 40 H  |
| 45      | UL - 30145 | 400 L x 50 W x 50 H  |
| 46      | UL - 30146 | 400 L x 60 W x 50 H  |
| 47      | UL - 30147 | 400 L x 75 W x 50 H  |
| 48      | UL - 30148 | 400 L x 100 W x 50 H |
| 49      | UL - 30149 | 450 L x 50 W x 50 H  |
| 50      | UL - 30150 | 450 L x 60 W x 50 H  |
| 51      | UL - 30151 | 450 L x 75 W x 50 H  |
| 52      | UL - 30152 | 450 L x 100 W x 50 H |



## 23 SERIES UL - 302 "ULTRA" BRAND ANGLE BLOCKS



- Used for accurate & quick angle setting during Inspection, tool setting & machining.
- Made from special quality alloy steel material.
- Hardness  $60 \pm 2$  Rc

| Cat No.  | Size (mm)         | Angle     |
|----------|-------------------|-----------|
| UL-30201 | 75 W x 75 H x 8 T | 45° & 90° |
| UL-30202 | 50 W x 85 H x 8 T | 30° & 60° |

## 24 SERIES UL - 304 "ULTRA" BRAND SUPPORT SCREW JACK



- Used for supporting the job.
- Made from good quality alloy steel material.
- Safe & reliable adjustment of height.
- Locknut for adjustment.
- Can be used with different pads.

| Sr. No. | Cat No.        | Size (mm)                                              | Range (mm) |
|---------|----------------|--------------------------------------------------------|------------|
| 1.      | UL - 30401     | Ø 40                                                   | 50 - 70    |
| 2.      | UL - 30402     | Ø 50                                                   | 100 - 150  |
| 3.      | UL - 30403     | Ø 60                                                   | 150 - 250  |
| 4.      | UL - 30404 A   | Pad Ø 25                                               | -----      |
| 5.      | UL - 30404 B   | Pad Ø 25                                               | -----      |
| 6.      | UL - 30404 C   | Pad Ø 25                                               | -----      |
| 7.      | UL - 30404 D   | Pad Ø 25                                               | -----      |
| 8.      | UL - 30404 E   | Pad Ø 25                                               | -----      |
| 9.      | UL - 30404 F   | Pad Ø 25                                               | -----      |
| 10.     | UL - 30404 G   | Pad Ø 60                                               | -----      |
| 11.     | UL - 30405 Set | (1+1) Pair Jack- Ø 40 & Ø 50 + Pad A to F - 1 no. each |            |
| 12.     | UL - 30406 Set | (1+1) Pair Jack- Ø 50 & Ø 60 + Pad A to F - 1 no. each |            |

## 25 SERIES UL - 318 "ULTRA" BRAND UNIT VICE



- Hardened and precision ground.
- Multiple Parallel vise for small parts grinding, milling & on VMC M/C.
- Since stoppers are provided, multiple works can be accurately positioned.
- The Jaw can be easily removed from the main body so that sludge cleaning can be easily done.
- Made from high quality alloy steel.
- Hardness  $55 \pm 2$  Rc.

| Cat No.    | Pallet Size | Vice Size           | Opening |
|------------|-------------|---------------------|---------|
| UL - 31806 | 300 X 400   | 235 L x 96 W x 96 H | 130     |

## 26 SERIES **UL - 316** "ULTRA" BRAND STAINLESS STEEL EDM VICE



- Made from stainless steel.
- Useful for holding purpose on wire cut machine.
- Suitable for mounting on machine bed.
- Suitable for round job.
- Hardness  $55 \pm 3$  Rc.
- Accuracy within 15 micron.

| Cat No.    | Size (mm)            | Jaw Opening |
|------------|----------------------|-------------|
| UL - 31601 | 270 L x 25 W x 145 H | 0 - 150 mm. |
| UL - 31602 | 130 L x 27 W x 90 H  | 0 - 70 mm.  |

## 27 SERIES **UL - 828** "ULTRA" BRAND TOOL MAKER VICE ( ECONOMY MODEL )



- Produced of high quality steel, carburized to W surface hardness : HRC 58 - 62.
- Parallelism 0.007mm / 100 mm, squareness 0.015 mm.
- Quickly to clamp and easy to operate.
- Used for precision measurement and inspection precision grinding, EDM and wire - cutting machine.

| Cat No.  | Size (mm)           | Jaw Opening (mm) |
|----------|---------------------|------------------|
| UL-82801 | 175 L x 63 W x 63 H | 0 - 85           |
| UL-82802 | 190 L x 73 W x 73 H | 0 - 100          |
| UL-82803 | 235 L x 88 W x 88 H | 0 - 125          |

## 28 SERIES **UL - 310** "ULTRA" BRAND HARDENED AND GROUND PRECISION GRINDING VICE



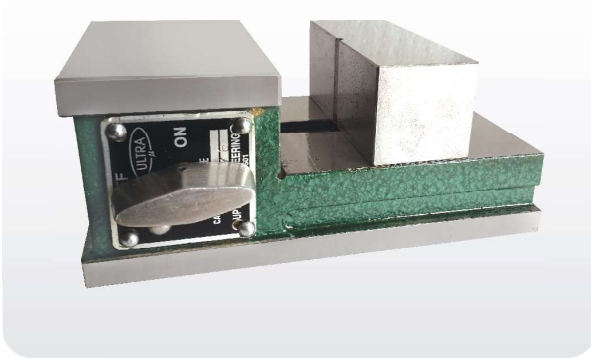
- Used for holding the jobs, spark erosion operation, right angle grinding & Light machining.
- Made from high quality alloy steel.
- Accuracy for Flatness & Parallelism 0.010 mm / 200 L, squareness 0.012 mm.
- Jaw pressure on work piece is forward & downward for repeatable positioning & maximum holding power.
- All sides can be used as reference.
- Hardness  $60 \pm 2$  Rc & Tempered.
- "V" on moveable jaw for better gripping of round jobs.
- **Special size can be manufactured on request.**
- **We also manufacture stainless steel grinding vice.**

| Cat No.  | Size (mm)           | Jaw Opening (mm) |
|----------|---------------------|------------------|
| UL-31001 | 150 L x 48 W x 60 H | 0 - 75           |
| UL-31002 | 180 L x 63 W x 70 H | 0 - 90           |
| UL-31003 | 200 L x 73 W x 80 H | 0 - 100          |
| UL-31004 | 235 L x 96 W x 96 H | 0 - 130          |



## 29 SERIES UL - 204

### "ULTRA" BRAND MAGNETIC VICE

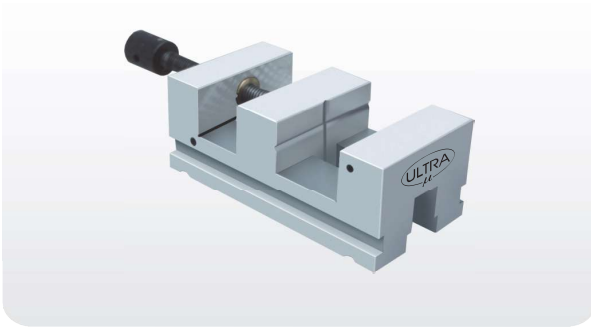


- Used for holding flat squared & round jobs.
- Accuracy for Flatness, Squareness & parallelism within 0.012mm.
- "V" on moveable jaw facilitates end face grinding.
- Job is clamped only by resting between fixed & moveable jaw and operating On-Off switch.
- ON-OFF facility by allen key.

| Cat No.  | Size (mm)      | Jaw-Holding Area (mm <sup>2</sup> ) |
|----------|----------------|-------------------------------------|
| UL-20401 | 110 x 180 x 75 | 100 x 65                            |
| UL-20402 | 160 x 225 x 90 | 150 x 75                            |

## 30 SERIES UL - 311

### "ULTRA" BRAND HARDENED AND GROUND PRECISION GRINDING VICE Screw Type



- Used for holding the jobs, right angle grinding & Light machining.
- Made from high quality alloy steel.
- Accuracy for Flatness & Parallelism within 0.010mm. / 200L and Squareness 0.012 mm.
- Hardness 60 ± 2 Rc & Tempered.
- Wear Plate at bottom to prevent lifting of Jaw
- Clamping screw with square thread & gun metal nut
- Tenon at bottom to allow easy alignment with machine bed
- Special size can be Manufactured on request.**
- We also manufacture stainless steel grinding vice.**

| Sr. No. | Cat No.  | Size (mm)           | Jaw Height (mm) | Opening (mm) |
|---------|----------|---------------------|-----------------|--------------|
| 1.      | UL-31101 | 150 L x 50 W x 50 H | 22              | 0 - 70       |
| 2.      | UL-31102 | 175 L x 60 W x 55 H | 28              | 0 - 80       |
| 3.      | UL-31103 | 190 L x 75 W x 65 H | 32              | 0 - 85       |
| 4.      | UL-31104 | 210 L x 95 W x 75 H | 38              | 0 -- 100     |

## 31 SERIES UL - 829

### "ULTRA" BRAND GRINDING VICE SCREW TYPE ( ECONOMY MODEL )



- Produced of high quality steel, carburized to W surface hardness : HRC 58 - 62.
- Parallelism 0.007mm / 100 mm, squareness 0.015 mm.
- Quickly to clamp and easy to operate.
- Used for precision measurement and inspection precision grinding, EDM and wire - cutting machine.
- Special size can be Manufactured on request.**

| Sr. No. | Cat No.  | Size (mm)           | Opening (mm) | Jaw Height (mm) |
|---------|----------|---------------------|--------------|-----------------|
| 1.      | UL-82901 | 155 L x 50 W x 50 H | 0 - 65       | 25              |
| 2.      | UL-82902 | 190 L x 63 W x 63 H | 0 - 85       | 32              |
| 3.      | UL-82903 | 210 L x 73 W x 73 H | 0 - 100      | 35              |
| 4.      | UL-82904 | 250 L x 88 W x 88 H | 0 -- 125     | 40              |

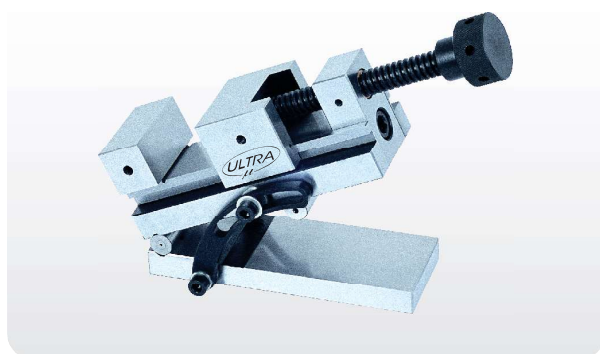
### 32 SERIES **UL - 312** "ULTRA" BRAND SINE VICE



- Used for Precision measurement, setting of angles, Right angle grinding & light machining.
- Made from high quality alloy steel.
- Accuracy for Squareness, Flatness & Parallelism is 0.010mm / 235 L
- Angular accuracy within  $\pm 5$  seconds.
- Centre distance between rollers is within  $\pm 0.005$ mm
- Hardness  $60 \pm 3$  Rc

| Cat No.  | Size (mm)             | C.D (mm) | Opening(mm) |
|----------|-----------------------|----------|-------------|
| UL-31201 | 190 L x 65 W x 85 H   | 100      | 80          |
| UL-31202 | 235 L x 76 W x 100 H  | 150      | 100         |
| UL-31203 | 265 L x 95 W x 105 H  | 150      | 125         |
| UL-31204 | 290 L x 120 W x 120 H | 200      | 145         |
| UL-31205 | 310 L x 140 W x 145 H | 200      | 160         |

### 33 SERIES **UL - 830** "ULTRA" BRAND SINE VICE SCREW TYPE ( ECONOMY MODEL )



- Produced of high quality steel, carburized to surface hardness hrc 58 - 62
- Parallelism 0.008mm / 100mm squareness 0.015mm
- Available inspecting angle and processing working with angle.

| Cat No.  | Size (mm)             | C.D (mm) | Opening(mm) |
|----------|-----------------------|----------|-------------|
| UL-83001 | 175 L x 63 W x 95 H   | 100      | 0 - 85      |
| UL-83002 | 235 L x 88 W x 125 H  | 100      | 0 - 120     |
| UL-83003 | 285 L x 125 W x 154 H | 200      | 0 - 160     |

### 34 SERIES **UL - 831** "ULTRA" BRAND TOOL MAKER SINE VICE ( ECONOMY MODEL )



- Produced of high quality steel, carburized to surface hardness hrc 58 - 62
- Parallelism 0.008mm / 100mm squareness 0.015mm
- Available inspecting angle and processing working with angle.

| Cat No.  | Size (mm)            | C.D (mm) | Opening(mm) |
|----------|----------------------|----------|-------------|
| UL-83101 | 175 L x 63 W x 93 H  | 100      | 0 - 85      |
| UL-83102 | 190 L x 73 W x 104 H | 100      | 0 - 100     |
| UL-83103 | 235 L x 88 W x 122 H | 100      | 0 - 125     |



### 35 SERIES **UL - 313** "ULTRA" BRAND SINE BAR



- Used for Precision measurement, setting of angles.
- Made from high quality alloy steel.
- Accuracy for Parallelism is within 0.005mm upto 200mm & 0.010mm upto 345mm
- Centre distance between rollers is within  $\pm 0.003$ mm
- Hardness -  $60 \pm 2$  Rc & Tempered
- Accuracy as per IS Standards IS - 5359 - 1987

| Cat No.  | Size (mm)           | C.D (in mm) |
|----------|---------------------|-------------|
| UL-31301 | 145 L x 20 W x 40 H | 100         |
| UL-31302 | 245 L x 30 W x 40 H | 200         |
| UL-31303 | 345 L x 40 W x 50 H | 300         |

### 36 SERIES **UL - 313** "ULTRA" BRAND MAGNETIC SINE BAR



- Used for Precision measurement, setting of angles.
- Made from high quality alloy steel.
- Accuracy for Flatness & Parallelism is within 0.005mm upto 200mm & 0.010mm upto 350mm
- Centre distance between rollers is within  $\pm 0.003$ mm
- Hardness -  $60 \pm 2$  Rc & Tempered.
- Top surface is provided with magnet.

| Cat No.  | Size (mm)           | C.D (in mm) |
|----------|---------------------|-------------|
| UL-31304 | 145 L x 20 W x 40 H | 100         |
| UL-31305 | 245 L x 30 W x 40 H | 200         |
| UL-31306 | 345 L x 40 W x 50 H | 300         |

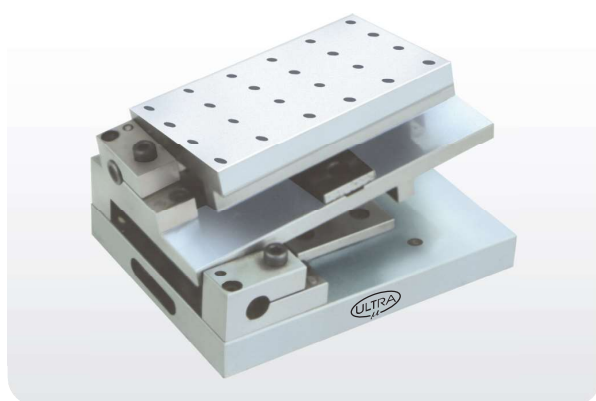
### 37 SERIES **UL - 401** "ULTRA" BRAND SINE-TABLE ( IS : 5939-1970 )



- Used for Precision measurement, setting of angles utilizing slip gauge & light machining.
- Ideal for high accuracy grinding operations.
- Accuracy for squareness, Parallelism & flatness is 0.010mm upto 200L & 0.015mm upto 450L.
- Positive locking at all angles without any distortion.
- Angle can be set within  $\pm 5$  seconds.
- Centre Distance between rollers is within 0.005mm.
- Made from high quality alloy steel
- Hardness  $58 \pm 2$  Rc & Tempered.
- Firm clamp to reduce possibility of distortion.
- M6 & M8 tapped holes for job clamping.
- Low height for more wheel clearance.
- **Slotted sine table on Request.**
- **Also Manufacture as per customers requirement.**

| Sr. No. | Cat No.  | Size (mm)            | Centre Distance (mm) | Inclination |
|---------|----------|----------------------|----------------------|-------------|
| 1.      | UL 40101 | 150 L x 120 W x 65 H | 70                   | 0 - 45°     |
| 2.      | UL 40102 | 250 L x 150 W x 65 H | 100                  | 0 - 45°     |
| 3.      | UL 40103 | 300 L x 150 W x 65 H | 100                  | 0 - 45°     |
| 4.      | UL 40104 | 450 L x 150 W x 65 H | 100                  | 0 - 45°     |

### 38 SERIES **UL - 402** "ULTRA" BRAND COMPOUND SINE-TABLE ( IS : 5939 - 1970 )



- **Compound Angle facility.**
- Used for Precision measurement, setting of angles & Light machining.
- Accuracy for Square ness, Flatness & Parallelism within 0.010mm upto 200L & 0.015mm upto 450L.
- Angle can be set within  $\pm 5$  seconds.
- Centre Distance between rollers is within 0.005mm.
- Made from high quality alloy steel.
- Hardness  $60 \pm 2$  Rc & Tempered.
- Firm hinged clamp to reduce possibility of distortion.
- M6 & M8 tapped holes for job clamping.

| Cat No.  | Size (mm)             | Bottom C.D. | Top C.D. | Inclination |
|----------|-----------------------|-------------|----------|-------------|
| UL 40201 | 150 L x 120 W x 95 H  | 100 mm      | 50 mm    | 0 - 45°     |
| UL 40202 | 250 L x 150 W x 95 H  | 150 mm      | 100 mm   | 0 - 45°     |
| UL 40203 | 300 L x 150 W x 95 H  | 200 mm      | 100 mm   | 0 - 45°     |
| UL 40204 | 450 L x 150 W x 105 H | 300 mm      | 100 mm   | 0 - 45°     |

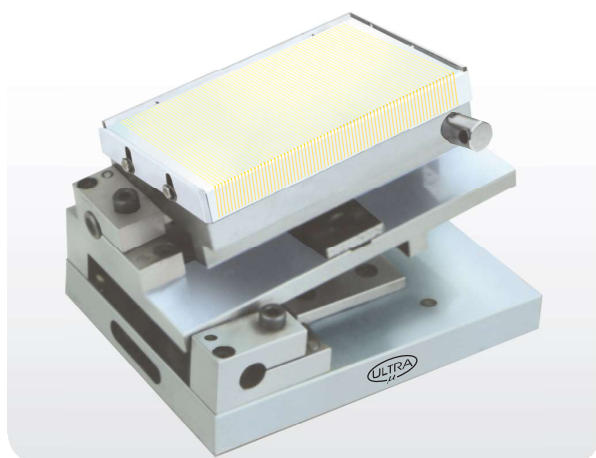
### 39 SERIES **UL - 403** "ULTRA" BRAND MAGNETIC SINE-TABLE ( IS : 5939- 1970 )



- Used for Precision measurement, setting of angles & Light machining.
- Accuracy for Square ness, Flatness & Parallelism within 0.010mm upto 200L & 0.015mm upto 450L.
- Angle can be set within  $\pm 5$  seconds.
- Centre Distance between roller is within 0.005mm.
- Made from high quality alloy steel
- Hardness  $60 \pm 2$  Rc & Tempered.
- **Magnetic Table for job holding.**
- Firm hinged clamp to reduce possibility of distortion.
- Magnetic Chuck with fine Pitch. (1.5mm)

| Cat No.  | Size (mm)             | Centre Distance | Inclination |
|----------|-----------------------|-----------------|-------------|
| UL 40301 | 150 L x 120 W x 105 H | 70 mm           | 0 - 45°     |
| UL 40302 | 250 L x 150 W x 105 H | 100 mm          | 0 - 45°     |
| UL 40303 | 300 L x 150 W x 105 H | 100 mm          | 0 - 45°     |
| UL 40304 | 450 L x 150 W x 105 H | 100 mm          | 0 - 45°     |
| UL 40305 | 450 L x 200 W x 105 H | 150 mm          | 0 - 45°     |

### 40 SERIES **UL - 404** "ULTRA" BRAND MAGNETIC COMPOUND SINE-TABLE ( IS : 5939- 1970 )



- **Compound Angle facility.**
- Used for Precision measurement, setting of angles & Light machining.
- Accuracy for Square ness, Flatness & Parallelism within 0.010mm upto 200L & 0.015mm upto 450L.
- Angle can be set within  $\pm 5$  seconds.
- Centre Distance between rollers is within 0.005mm.
- Made from high quality alloy steel
- Hardness  $60 \pm 2$  Rc & Tempered.
- **Magnetic Table for job holding.**
- Firm hinged clamp to reduce possibility of distortion.
- Magnetic Chuck with fine Pitch. (1.5mm)

| Cat No.  | Size (mm)             | Bottom C.D. (mm) | Top C.D. (mm) | Inclination |
|----------|-----------------------|------------------|---------------|-------------|
| UL 40401 | 150 L x 120 W x 155 H | 100              | 50            | 0 - 45°     |
| UL 40402 | 250 L x 150 W x 155 H | 150              | 100           | 0 - 45°     |
| UL 40403 | 300 L x 150 W x 155 H | 200              | 100           | 0 - 45°     |
| UL 40404 | 450 L x 150 W x 155 H | 300              | 100           | 0 - 45°     |
| UL 40405 | 450 L x 200 W x 155 H | 250              | 150           | 0 - 45°     |



#### 41 SERIES **UL - 501**

#### "ULTRA" BRAND UNIVERSAL SURFACE GAUGE



- Used for marking & transferring measurement.
- Ground base for accurate reference surfaces.
- V groove on the front end which allows the spindle to adjust to any angle above or below the base.
- V groove in the base for cylindrical work.
- A very positive fine adjustment through a rocker arm that makes smooth & accurate setting.
- Grooves on the side of the base for a sure & easy grip.
- Dial indicator can also be used.
- Two gauge pins facilitate easy linear marking.

| Cat No.  | Size (mm)                    | Height (mm) |
|----------|------------------------------|-------------|
| UL-50101 | 80 L x 65 W x 300 H [ 12" ]  | 300         |
| UL-50102 | 100 L x 85 W x 450 H [ 18" ] | 450         |
| UL-50103 | 110 L x 90 W x 600 H [ 24" ] | 600         |

#### 42 SERIES **UL - 502**

#### "ULTRA" BRAND HEAVY DUTY SURFACE GAUGE



- Used for marking & transferring measurement.
- Base & scribe are made from hardened steel.
- Robust construction.
- Fine adjustment for smooth & accurate setting.
- Dial indicator can also be used.

| Cat No.  | Base Size (mm)       | Height of Column | Price (Rs.) |
|----------|----------------------|------------------|-------------|
| UL 50201 | 130 L x 105 W x 35 H | 600 mm           | 3000 Each   |
| UL 50202 | 160 L x 130 W x 40 H | 1000 mm          | 4710 Each   |

#### 43 SERIES **UL - 503**

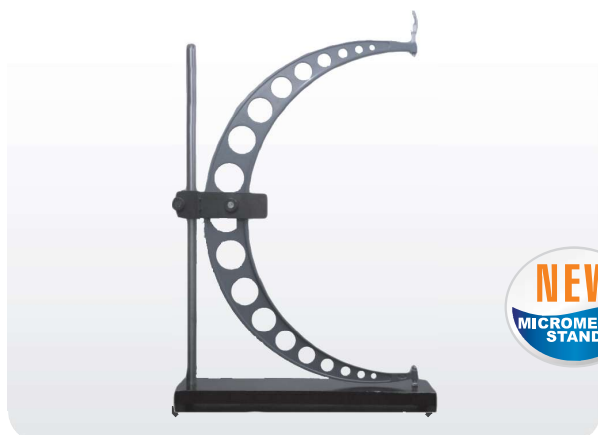
#### "ULTRA" BRAND HEAVY DUTY DIAL INDICATOR STAND



- Used as holding device for dial indicator.
- Heavy & rigid construction.
- Column can move to & fro to full base length.
- Fine adjustment for accurate setting.
- Both faces of base can be used.

| Cat No.  | Base Size (mm) | Height of Column (mm) | Max. Horizontal Ext. (mm) |
|----------|----------------|-----------------------|---------------------------|
| UL 50301 | 250 L x 45 W   | 300                   | 350                       |
| UL 50302 | 300 L x 100 W  | 300                   | 350                       |
| UL 50303 | 300 L x 100 W  | 500                   | 350                       |
| UL 50304 | 350 L x 100 W  | 800                   | 350                       |

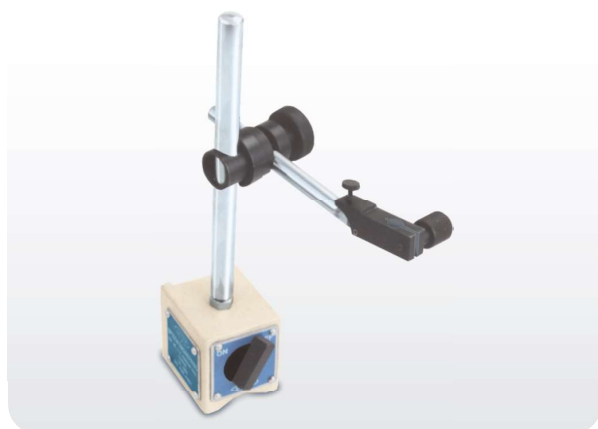
#### 44 SERIES **UL - 838** "ULTRA " BRAND MICROMETER STAND



- Micrometer Range : 300-1000 mm
- Type : Vertical
- Over all Length : 750 mm
- Over all Height : 1015 mm



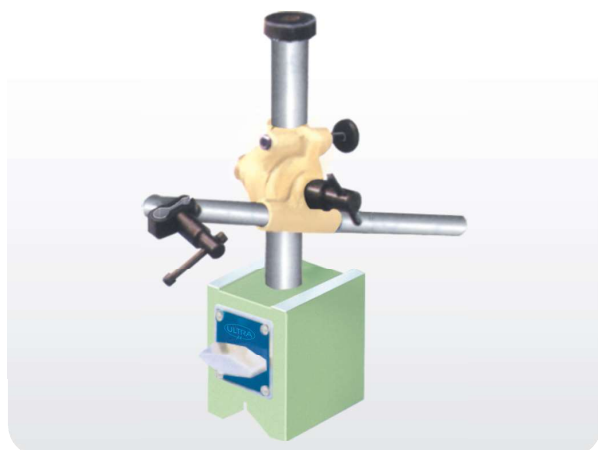
#### 45 SERIES **UL - 504** "ULTRA" BRAND MAGNETIC BASE



- Used as holding device for dial indicator
- Base "V" can be clamped to shaft of  $\varnothing 20$  to  $\varnothing 120$ .
- Fine adjustment for accurate settings.
- Powerful magnetic base holds firmly to ferrous surfaces vertically, horizontally, upside - down.
- ON - OFF facility.

| Cat No.  | Base Size (mm)     | Overall Height (mm) | Pull  |
|----------|--------------------|---------------------|-------|
| UL 50401 | 60 L x 50 W x 60 H | 250                 | 50 kg |

#### 46 SERIES **UL - 504** "ULTRA" BRAND MAGNETIC BASES



- Used as holding device for dial indicator.
- Heavy & rigid construction.
- Base V can be clamped to shaft of  $\varnothing 20$  to  $\varnothing 120$
- Fine adjustment for accurate setting.
- Can Hold 8mm & 6mm stem diameter of dial.
- Powerful magnetic base holds firmly to ferrous surfaces
  - Vertically, horizontally, upside-down.
- ON - OFF facility.

| Cat No.  | Base Size (mm)     | Overall Height | Pull  |
|----------|--------------------|----------------|-------|
| UL 50403 | 56 L x 70 W x 70 H | 220 mm         | 70 kg |



## 47 SERIES **UL - 504** "ULTRA" BRAND MAGNETIC BASES



- Used as holding device for dial indicator.
- Heavy & rigid construction.
- Base V can be clamped to shaft of Ø 20 to Ø 120
- Fine adjustment for accurate setting.
- Can hold 8mm & 6mm stem diameter of dial.
- Two extension arms gives more flexibility in inspection.

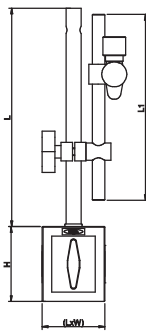
| Cat No.  | Base Size (mm)     | Overall Height | Main Shaft   | Pull  |
|----------|--------------------|----------------|--------------|-------|
| UL 50405 | 70 L x 48 W x 64 H | 275 mm         | Ø18 x 210 mm | 70 kg |

## 48 SERIES **UL - 504**

### "ULTRA" BRAND MAGNETIC BASES



UL 50411



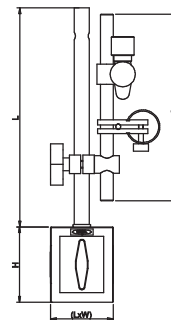
- Used as holding device for dial indicator.
- Base V can be clamped to shaft of Ø20 to Ø120 .
- Strong magnetic field, so it can be clamped to any part vertically & horizontally.
- ON-OFF facility.

## 49 SERIES **UL - 504**

### "ULTRA" BRAND MAGNETIC BASES WITH FINE ADJUSTMENT



UL 50412

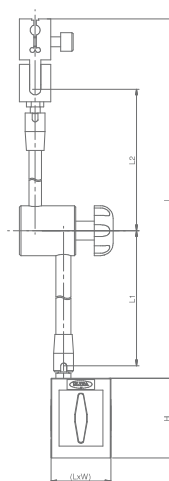
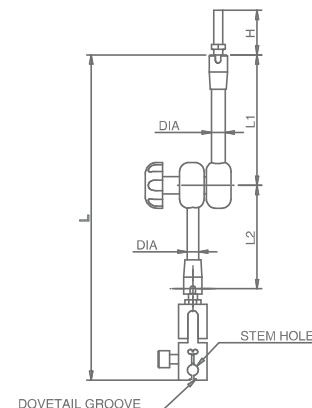


- Used as a holding device for dial indicator.
- Heavy & rigid construction of base & column.
- Base V can be clamped to shaft.
- Fine adjustment for accurate setting.
- ON - OFF facility.

| Series Code | Size (LxWxH) (mm/inch)       | Overall Height (mm) | Pull Force (kgf) | Holding Stem   | Remark                  |
|-------------|------------------------------|---------------------|------------------|----------------|-------------------------|
| UL-50411    | 60X50X60mm (1,38X1,18X1,38") | 230mm (9,05")       | 55               | DIA0,31", Ø8mm | Without Fine Adjustment |
| UL-50412    | 60X50X60mm (1,38X1,18X1,38") | 230mm (9,05")       | 55               | DIA0,31", Ø8mm | With Fine Adjustment    |

**50 SERIES UL - 504**
**"ULTRA" BRAND UNIVERSAL CLAMPING MAGNETIC BASE with fine adjustment**


- Can be locked to any position in 360° by a Central lock.
- Used as a holding device for dial indicator.
- Heavy & rigid construction of base & column.
- Center Knob is of metal for extra life.
- Dovetail slot for lever type dial.
- Fine adjustment for accurate setting.
- Base V can be clamped to shaft of Ø20 to Ø120.
- Can Hold 8mm (6mm with sleeve) stem diameter of dial.


**51 SERIES UL - 504**
**"ULTRA" BRAND CENTRICATOR**


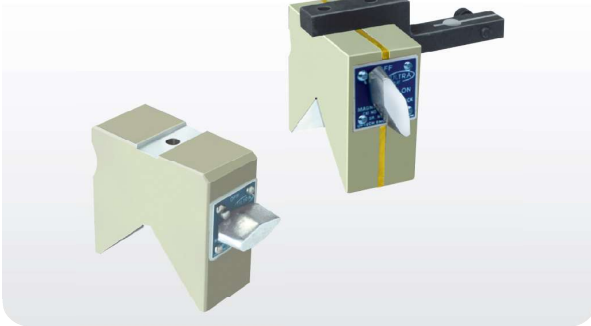
| Series Code | Magnetic Base Size (LxWxH)      | ARM Length L     | L1              | L2              | Overall Height (H+L) | Pulling Force (kgf) | Holding Stem        | Remark                                 |
|-------------|---------------------------------|------------------|-----------------|-----------------|----------------------|---------------------|---------------------|----------------------------------------|
| UL 50413    | 70X48X64mm<br>(2.75X1.89X2.52") | 291 mm<br>11.45" | 110 mm<br>4.33" | 101 mm<br>3.97" | 355 mm<br>13.97"     | 70 mm               | DIA 8 mm<br>(0.31") | With Fine Adjustment & Dovetail Groove |
| UL 50415    | 60X50X60mm<br>(2.36X1.97X2.36") | 290 mm<br>11.42" | 110 mm<br>4.33" | 101 mm<br>3.97" | 350 mm<br>13.77"     | 50 mm               | DIA 8 mm<br>(0.31") | With Fine Adjustment & Dovetail Groove |
| UL 50416    | 70X48X64mm<br>(2.75X1.89X2.52") | 345 mm<br>13.58" | 132 mm<br>5.19" | 120 mm<br>4.72" | 409 mm<br>16.10"     | 70 mm               | DIA 8 mm<br>(0.31") | With Fine Adjustment & Dovetail Groove |
| UL 50417    | 35X30X35mm<br>(1.38X1.18X1.38") | 175 mm<br>6.89"  | 56 mm<br>2.20"  | 51 mm<br>2.00"  | 210 mm<br>8.26"      | 28 mm               | DIA 8 mm<br>(0.31") | With Fine Adjustment & Dovetail Groove |

| Series Code | ARM Length L     | L1              | L2              | Overall Height (H+L) | Holding Stem        | Remark                                 |
|-------------|------------------|-----------------|-----------------|----------------------|---------------------|----------------------------------------|
| UL 50418    | 290 mm<br>11.42" | 110 mm<br>4.33" | 101 mm<br>3.97" | 350 mm<br>13.77"     | DIA 8 mm<br>(0.31") | With Fine Adjustment & Dovetail Groove |
| UL 50419    | 175 mm<br>6.89"  | 56 mm<br>2.20"  | 51 mm<br>2.00"  | 235 mm<br>9.25"      | DIA 8 mm<br>(0.31") | With Fine Adjustment & Dovetail Groove |



## 52 SERIES UL - 505

### "ULTRA" BRAND MAGNETIC TOOL SETTING GAUGE



- Used with boring bar for presetting of the cutting tool.
- Change in the setting of the tool measures variation in bore dimension.
- Suitable clamp is provided for holding dial indicator (for UL - 50504 & UL - 50505)
- Powerful magnet with ON-OFF facility.
- "V" is hardened & ground within 5 microns.
- The included angle of V is 90°.
- Hardness 52 - 56 Rc.
- Also manufactured as per customer's requirement.

| Sr. No. | Cat No.  | Size (mm)           | Slot (mm) | Range (mm)    |
|---------|----------|---------------------|-----------|---------------|
| 1.      | UL-50501 | 72 L x 68 H x 35 T  | 14 x 2    | Ø 25 - Ø 70   |
| 2.      | UL-50502 | 76 L x 75 H x 35 T  | 14 x 2    | Ø 35 - Ø 90   |
| 3.      | UL-50503 | 80 L x 75 H x 40 T  | 14 x 2    | Ø 40 - Ø 105  |
| 4.      | UL-50504 | 100 L x 85 H x 40 T | 14 x 2    | Ø 40 - Ø 125  |
| 5.      | UL-50505 | 120 L x 90 H x 40 T | 14 x 2    | Ø 110 - Ø 180 |

## 53 SERIES UL - 505

### "ULTRA" BRAND MAGNETIC TOOL SETTING GAUGE

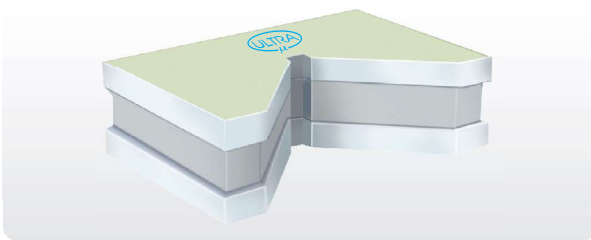


- Used with boring bar for presetting of cutting tool.
- Change in the setting of the tool measures variation in bore dimension.
- Suitable clamp is provided for holding dial indicator.
- Powerful magnet with ON-OFF facility.
- "V" is hardened & ground within 5 microns.
- The included angle of V is 120°.
- Hardness 52 - 56 Rc.
- Also manufactured as per customer's requirement.

| Sr. No. | Cat No.  | Base Size (mm)       | Range (mm)   |
|---------|----------|----------------------|--------------|
| 1.      | UL 50506 | 60 L x 60 H x 30 T   | Ø 10 - Ø 50  |
| 2.      | UL 50507 | 80 L x 80 H x 30 T   | Ø 10 - Ø 90  |
| 3.      | UL 50508 | 100 L x 100 H x 35 T | Ø 10 - Ø 110 |

## 54 SERIES UL - 506

### "ULTRA" BRAND MAGNETIC TOOL SETTING GAUGE



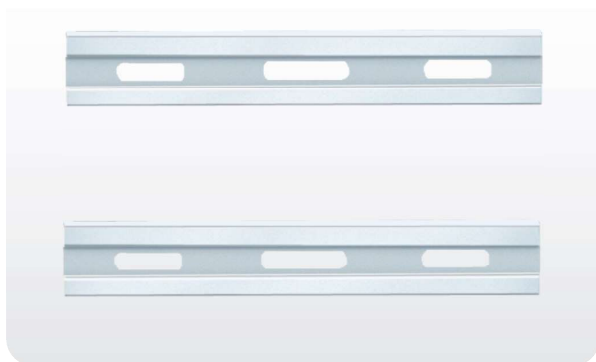
- Used with boring bar for presetting of cutting tool
- Change in setting of the tool measures variation in bore dimension.
- Powerful magnet without ON-OFF facility.
- "V" is hardened & ground within 5 micron.
- The included angle of V is 120°.
- Hardness 52 - 56 Rc.
- Also manufactured as per customer's requirement.

| Sr. No. | Cat No.  | Size (mm)           | Range (mm)   |
|---------|----------|---------------------|--------------|
| 1.      | UL 50601 | 100 L x 50 H x 25 T | Ø 20 - Ø 90  |
| 2.      | UL 50602 | 110 L x 45 H x 22 T | Ø 20 - Ø 75  |
| 3.      | UL 50603 | 90 L x 40 H x 22 T  | Ø 45 - Ø 100 |

**55 SERIES UL - 601**
**"ULTRA" BRAND HARDENED & GROUND KNIFE-EDGE STRAIGHT EDGE**


- Used for checking flatness & straightness of surfaces.
- All accuracies as per IS : 3512 - 1966.
- Made from high quality tool steel.
- Knife edge provides an excellent visual line contact with the work piece.
- Hardness  $60 \pm 2$  Rc.
- Packed in individual wooden box.

| Sr. No. | Cat No.  | Size (mm)              |
|---------|----------|------------------------|
| 1.      | UL-60101 | 50L x 30W x 8T [2"]    |
| 2.      | UL-60102 | 75L x 35W x 8T [3"]    |
| 3.      | UL-60103 | 100L x 40W x 10T [4"]  |
| 4.      | UL-60104 | 150L x 40W x 10T [6"]  |
| 5.      | UL-60105 | 200L x 50W x 12T [8"]  |
| 6.      | UL-60106 | 250L x 50W x 12T [10"] |
| 7.      | UL-60107 | 300L x 60W x 12T [12"] |
| 8.      | UL-60108 | 500L x 50W x 15T [20"] |
| 9.      | UL-60109 | 600L x 60W x 20T [24"] |

**56 SERIES UL - 602**
**"ULTRA" BRAND HARDENED & GROUND STEEL STRAIGHT EDGE ( IS : 2220 - 1990 )**


- Used for checking flatness & straightness of surfaces.
- Made from high quality tool steel.
- Hardness  $60 \pm 2$  Rc.
- Plastic head insulator.
- Packed in individual wooden box.

| Sr. No. | Cat No.  | Size (mm)                   | Accuracy Micron |
|---------|----------|-----------------------------|-----------------|
| 1.      | UL-60201 | 100 L x 15 H x 5 T [4"]     | 6               |
| 2.      | UL-60202 | 160 L x 20 H x 8 T [6"]     | 6               |
| 3.      | UL-60203 | 300 L x 35 H x 12 T [12"]   | 7               |
| 4.      | UL-60204 | 500 L x 50 H x 15 T [20"]   | 7               |
| 5.      | UL-60205 | 800 L x 80 H x 20 T [32"]   | 10              |
| 6.      | UL-60206 | 1000 L x 100 H x 20 T [40"] | 12              |
| 7.      | UL-60207 | 1500 L x 100 H x 20 T [60"] | 18              |

**57 SERIES UL - 701**
**"ULTRA" BRAND MAGNETIC SEPARATOR**


- Used for **removing** or collecting fine ferrous or ferromagnetic contaminants from **oil tank or coolant tank**.
- Powerful magnet allows large collection of particles.
- Stainless steel body for rust prevention.
- Handle or eye bolt on top for easy handling.
- Available in different diameters & lengths.

| Cat No.    | Dia (inch.) | Length (inch.)    |
|------------|-------------|-------------------|
| UL - 70101 | 1"          | 4, 5, 6, 7, 8     |
| UL - 70102 | 2"          | 6, 8, 10, 12, 14  |
| UL - 70103 | 4"          | 6, 8, 10, 12, 16  |
| UL - 70104 | 6"          | 8, 16, 24, 30, 36 |

**58 SERIES UL - 603****"ULTRA" BRAND HARDENED & GROUND TRY - SQUARE. Flat Edge Without Stock.**

- Used for checking Squareness & Straightness.
- All accuracies as per IS : 2103 - 1980.
- Made from single piece high quality tool steel.
- Hardness  $60 \pm 2$  Rc.
- A groove on the inner corner of the stock, aids in the clearance of burr or dirt.
- Packed in individual wooden box.

| Sr. No. | Cat No.    | Size (mm)                  |
|---------|------------|----------------------------|
| 1.      | UL - 60301 | 50 L x 35 H x 4 T [2"]     |
| 2.      | UL - 60302 | 75 L x 50 H x 4.5 T [3"]   |
| 3.      | UL - 60303 | 100 L x 70 H x 5 T [4"]    |
| 4.      | UL - 60304 | 150 L x 100 H x 6 T [6"]   |
| 5.      | UL - 60305 | 200 L x 140 H x 7 T [8"]   |
| 6.      | UL - 60306 | 250 L x 165 H x 8 T [10"]  |
| 7.      | UL - 60307 | 300 L x 200 H x 8 T [12"]  |
| 8.      | UL - 60308 | 400 L x 250 H x 10 T [16"] |

**59 SERIES UL - 604****"ULTRA" BRAND HARDENED & GROUND BEVELLED EDGE TRY - SQUARE**

- Used for checking Squareness & Straightness.
- All accuracies as per IS : 2103 - 1980.
- Made from single piece high quality tool steel.
- Inner & outer edges of blade are bevelled at  $60^\circ$  angle.
- Beveled edge provides an excellent visual line contact with the workpiece.
- Hardness  $60 \pm 2$  Rc.
- A groove on the inner corner of the stock, aids in the clearance of burr or dirt.
- Packed in individual wooden box.

| Sr. No. | Cat No.    | Size (mm)                  |
|---------|------------|----------------------------|
| 1.      | UL - 60401 | 50 L x 35 W x 4 T [2"]     |
| 2.      | UL - 60402 | 75 L x 50 W x 4.5 T [3"]   |
| 3.      | UL - 60403 | 100 L x 70 W x 5 T [4"]    |
| 4.      | UL - 60404 | 150 L x 100 W x 6 T [6"]   |
| 5.      | UL - 60405 | 200 L x 140 W x 7 T [8"]   |
| 6.      | UL - 60406 | 250 L x 165 W x 8 T [10"]  |
| 7.      | UL - 60407 | 300 L x 200 W x 8 T [12"]  |
| 8.      | UL - 60408 | 400 L x 250 W x 10 T [16"] |

**60 SERIES UL - 605****"ULTRA" BRAND HARDENED & GROUND WITH STOCK TRY - SQUARE**

- Used for checking Squareness & Straightness.
- All accuracies as per IS : 2103 - 1980.
- Made from single piece high quality tool steel Single Piece Construction upto 400L above that two piece Construction.
- Hardness  $60 \pm 2$  Rc.
- A groove on the inner corner of the stock.
- Packed in individual wooden box.

| Sr. No. | Cat No.    | Size (mm)                   |
|---------|------------|-----------------------------|
| 1.      | UL - 60501 | 100 L x 70 W x 10 T [4"]    |
| 2.      | UL - 60502 | 150 L x 100 W x 12 T [6"]   |
| 3.      | UL - 60503 | 200 L x 140 W x 15 T [8"]   |
| 4.      | UL - 60504 | 250 L x 165 W x 20 T [10"]  |
| 5.      | UL - 60505 | 300 L x 200 W x 20 T [12"]  |
| 6.      | UL - 60506 | 400 L x 250 W x 25 T [16"]  |
| 7.      | UL - 60507 | 500 L x 300 W x 25 T [20"]  |
| 8.      | UL - 60508 | 750 L x 500 W x 30 T [30"]  |
| 9.      | UL - 60509 | 1000 L x 750 W x 40 T [40"] |

**61 SERIES UL - 606**
**"ULTRA" BRAND HARDENED & GROUND FLANGED BEAM TRY - SQUARE**


- Used to check Squareness & Straightness.
- Accuracy for Squareness & Flatness is within 0.010 mm / 150 H.
- Made from single piece high quality tool steel.
- Inside & outside are accurate right angles.
- A groove on the inner corner of the stock, aids in the clearance of burr or dirt.
- Hardness  $60 \pm 2$  Rc.
- Packed in individual wooden box.

| Cat No.    | Beam Size (mm) | Cross Section (mm2) |
|------------|----------------|---------------------|
| UL - 60601 | 100 x 70       | 20 x 5              |
| UL - 60602 | 150 x 100      | 26 x 6              |
| UL - 60603 | 200 x 130      | 32 x 7              |
| UL - 60604 | 300 x 200      | 40 x 8              |

**62 SERIES UL - 607**
**"ULTRA" BRAND MAGNETIC TRY SQUARE**


- Used to check Squareness & Straightness.
- Made from high quality tool steel
- Beam & blade are perfectly at right angle within 10 microns.
- Powerful magnet with ON-OFF facility.
- Packed in individual box.

| Cat No.  | Size (mm)           |
|----------|---------------------|
| UL-60701 | 200 L x 50 W x 60 H |

**63 SERIES UL - 811**
**"ULTRA" BRAND TRY SQUARE PERMANENT MAGNETIC**


- Aluminium body with Fixed right angle.
- Keeps hands free during welding of two sheets.
- Suitable for right angle.
- To used in fabrication & welding.
- Used in Machine shop for marking inspection or welding

| Cat No.  | Size (mm)            |
|----------|----------------------|
| UL-81101 | 130 L x 37 W x 130 H |
| UL-81102 | 150 L x 50 W x 150 H |
| UL-81103 | 160 L x 50 W x 160 H |
| UL-81104 | 200 L x 50 W x 200 H |



## 64 SERIES **UL - 208**

### "ULTRA" BRAND PLATE TYPE MAGNETIC SEPARATOR



- Used for lifting & handling of ferromagnetic particles.
- Strong magnetic field to lift large quantity of particles.
- Particles are detached by separating lower plate from upper magnetic body.

| Cat No.   | Size (mm)         |
|-----------|-------------------|
| UL- 20801 | 125L x 175W x 30H |

## 65 SERIES **UL - 209**

### "ULTRA" BRAND PERMANENT MAGNETIC SWEEPER



- Used for collecting ferrous particles & scrap from floor space.
- Good quality strong magnets are used.
- Wheels for easy movement on floor.
- Particles are released just by creating gap between bottom plate & magnetic assembly by using foot.
- Long handle for easy working.
- Also Available in Steel Wheel.

| Cat No.    | Size (mm) |
|------------|-----------|
| UL - 20901 | 300 x 150 |
| UL - 20902 | 450 x 150 |
| UL - 20903 | 600 x 150 |

## 66 SERIES **UL - 812**

### "ULTRA" BRAND MAGNETIC SWEEPER FORKLIIFT OPERATED



- Used for lifting & handling of ferromagnetic particles.
- Strong magnetic field to lift large quantity of particles.
- Particles are detached by separating lower plate from upper magnetic body.
- Magnetic Sweeper can fit to any forklift.

| Cat No.    | Size (mm)  |
|------------|------------|
| UL - 81201 | 800 x 260  |
| UL - 81202 | 1000 x 260 |
| UL - 81203 | 1200 x 260 |

## 67 SERIES **UL - 832**

### "ULTRA" BRAND MAGNETIC TELESCOPIC TORCH



- Used for removing ferrous chips or particles from blind or tapping holes, corners or slots of machine table.
- Compact design, uses strong magnets.
- LED Light provided at one end.

| Sr. No. | Cat No.  | Size (mm)             |
|---------|----------|-----------------------|
| 1.      | UL-83201 | Ø 20 x 175 L - 540mmL |

## 68 SERIES **UL - 813**

### "ULTRA" BRAND MAGNETIC SEPARATOR ON OFF TYPE



STEP - I



STEP - II



STEP - III

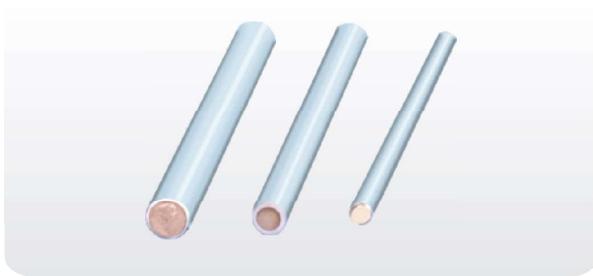


- Easily Clean up sharp edged drill chips screw and other metal parts.
- Items are safely ejected by Pulling the back side knob.
- Ideal for hard to reach space.
- Used in all fabrication shop and machine shop.
- No requirement of hand contact with scrap to handle, so safe in use.

| Sr. No. | Cat No.  | Size         |
|---------|----------|--------------|
| 1.      | UL-81301 | Ø 1 x 6 Inch |

## 69 SERIES **UL - 203**

### "ULTRA" BRAND MAGNETIC STICKS



- Used for removing ferrous chips or particles from blind or tapping holes, corners or slots of machine table.
- Compact design, uses strong magnets. Magnet depth is 20mm from one end.
- Stainless steel body to avoid corrosion. Special sizes can also be manufactured.
- Magnetic stick with handle is also available.

| Sr. No. | Cat No.  | Size (mm)    |
|---------|----------|--------------|
| 1.      | UL-20301 | Ø 3 x 150 L  |
| 2.      | UL-20302 | Ø 5 x 150 L  |
| 3.      | UL-20303 | Ø 6 x 150 L  |
| 4.      | UL-20304 | Ø 8 x 150 L  |
| 5.      | UL-20305 | Ø 10 x 150 L |

| Sr. No. | Cat No.  | Size (mm)    |
|---------|----------|--------------|
| 6.      | UL-20306 | Ø 12 x 150 L |
| 7.      | UL-20307 | Ø 14 x 150 L |
| 8.      | UL-20308 | Ø 15 x 150 L |
| 9.      | UL-20309 | Ø 16 x 150 L |
| 10.     | UL-20310 | Ø 18 x 150 L |

## 70 SERIES **UL - 833**

### "ULTRA" BRAND MAGNETIC TELESCOPIC PEN



- Used for removing ferrous chips or particles from blind or tapping holes, corners or slots of machine table.
- Compact design, uses strong magnets.

| Sr. No. | Cat No.  | Size (mm)          |
|---------|----------|--------------------|
| 1.      | UL-83301 | Ø 6 X 130L - 640mm |



## 71 SERIES **UL - 613**

### "ULTRA" BRAND MAGNETIC DIAMOND DRESSER HOLDER ( WITHOUT DRESSER )



- Small & compact size
- Powerful holding of the magnet on the machine table.
- Easy holding of the diamond dresser.

| Cat No.   | Size (mm)          | Magnetic Pull |
|-----------|--------------------|---------------|
| UL- 61301 | 70 L x 48 W x 64 H | 70 Kg.        |

## 72 SERIES **UL - 614**

### "ULTRA" BRAND DIAMOND DRESSER HOLDER



- Small & compact size
- Easy holding of the diamond dresser.
- To be used on grinding machine with magnetic chuck.
- Hardened & ground.

| Cat No.   | Size (mm)          |
|-----------|--------------------|
| UL- 61401 | 70 L x 70 W x 50 H |

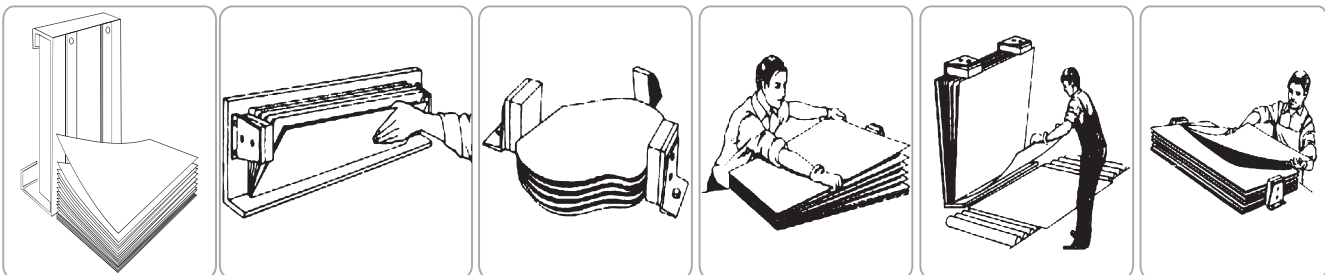
## 73 SERIES **UL - 707**

### "ULTRA" BRAND MAGNETIC SHEET SEPARATOR (FLOATER)

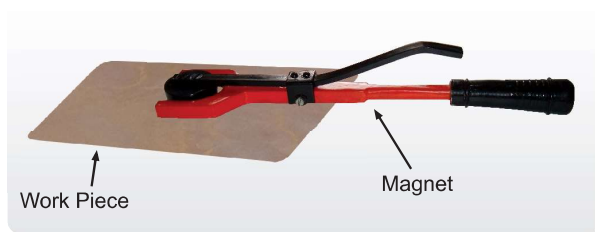


- Used for creating gap between thin sheets & thus, removing sheets one by one easily from stacks.
- They induce similar pole force to each plate in a stack, there by creating repelling forces in consecutive plates, causing for separation.
- Can separate oil stuck sheets or heavily piled-up sheets with less efforts & less time.
- Any size & shape of sheets can be separated by using number of floaters at certain interval.
- Compact design with strong magnetic field.
- Can be attached to machine or tighten to table.
- For better results - used in pair.

| Cat No.    | Size (mm)            |
|------------|----------------------|
| UL - 70701 | 75 L x 90 H x 50 T   |
| UL - 70702 | 115 L x 135 H x 55 T |
| UL - 70703 | 150 L x 270 H x 65 T |



## 74 SERIES **UL - 806** "ULTRA" BRAND SHEET METAL LIFTER



- Used for lifting & handling of steel sheets & blanks from stacks & press machine.
- Convenient, easy for loading & unloading of sheets.
- Light weight & easy to use.

| Cat No.  | Size (mm)        | Lift Capacity | Weight    |
|----------|------------------|---------------|-----------|
| UL-80604 | 70W X 20H X 400L | 2 (Kgs)       | 0.8 (Kgs) |
| UL-80605 | 40W X 10H X 400L | 0.5 (Kgs)     | 0.5 (Kgs) |

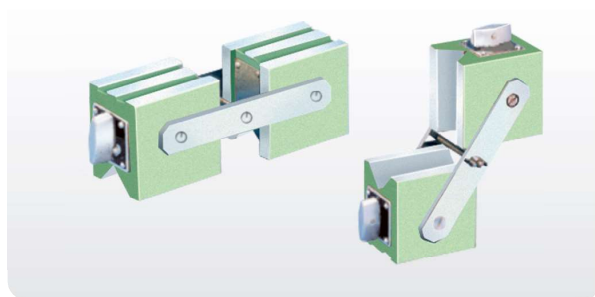
## 75 SERIES **UL - 702** "ULTRA" BRAND MAGNETIC ADJUSTABLE LINK



- A twin magnetic unit possessing a **multi angle setting for Welding**.
- It can be quickly locked at any angle by turning of wing nut, thus providing the simplest & most rapid means of clamping together.
- When Connected in series, complex arrangement is possible for holding sheets & strips.

| Cat No.    | Size (mm)    | Length (mm) | Magnetic Pull on each block |
|------------|--------------|-------------|-----------------------------|
| UL - 70201 | 50 x 25 x 25 | 125         | 15 kg                       |

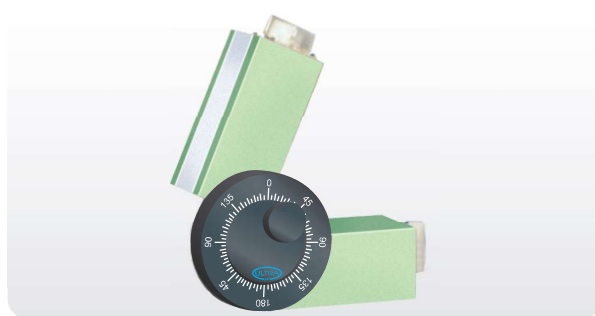
## 76 SERIES **UL - 703** "ULTRA" BRAND MAGNETIC POSITIONER



- Used to **clamp or set steel parts or sheets at different positions**.
- Two magnetic housing connected laterally by a pair of side strips.
- Magnetic housings can be positioned by tightening a wing nut.
- Hold flat as well as round jobs.
- Strong magnetic power with ON - OFF facility.

| Cat No.    | Size (mm)    | Overall Length | Magnetic Pull |
|------------|--------------|----------------|---------------|
| UL - 70301 | 70 x 48 x 64 | 220 mm         | 75 kg         |

## 77 SERIES **UL - 704** "ULTRA" BRAND MAGNETIC ANGLE SETTER



- Used to **clamp or set steel parts or sheets at different positions**.
- Magnetic blocks can be positioned by tightening a locking nut.
- Round Dial indicates Angular positioning.
- Hold flat as well as round jobs.
- Strong magnetic power with ON - OFF facility.

| Cat No.    | Size (mm)           |
|------------|---------------------|
| UL - 70401 | 190 L x 50 W x 55 H |
| UL - 70402 | 275 L x 50 W x 55 H |
| UL - 70403 | 166 L x 50 W x 55 H |



## 78 SERIES UL - 826

### "ULTRA" BRAND ELECTRO MAGNETIC HOLDER



Used in Automated manufacturing lines as the magnetic force can be turned on & off or increased or decreased by remote operation via a rectifier or PLC.

#### Features -

- Electrical Control can be used for turning on & off the magnetic force.
- Usable for continuous operation.
- Quick Attach & Detach enables speedy automation.

#### Applications -

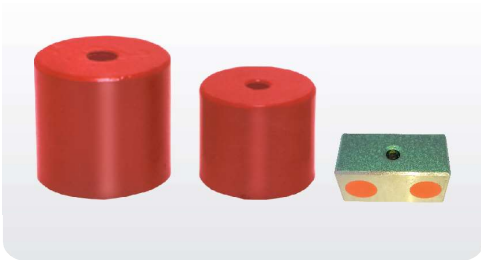
- Automated press.
- Prevention of deflection for shearing material.
- Various automatic processes.
- Holding Hands of Industrial robots.
- In Machine shop, Press Shop, Assembly Line Material Feed.

**Special Sizes Available on Request as per Application.**

| Sr. No. | Cat No.    | Size (mm)   | Max Holding Power | Working Voltage |
|---------|------------|-------------|-------------------|-----------------|
| 1.      | UL - 82601 | Ø 30 x 40 H | 3kg               | 24 DC           |
| 2.      | UL - 82602 | Ø 30 x 25 H | 2kg               | 24 DC           |
| 3.      | UL - 82603 | Ø 35 x 30 H | 8kg               | 24 DC           |
| 4.      | UL - 82604 | Ø 30 x 45 H | 15kg              | 24 DC           |
| 5.      | UL - 82605 | Ø 40 x 45 H | 35kg              | 24 DC           |
| 6.      | UL - 82606 | Ø 50 x 30 H | 40kg              | 24 DC           |

## 79 SERIES UL - 205

### "ULTRA" BRAND POT MAGNET



- Used for lifting holding & locating of ferrous parts.
- Compact design with very strong magnetic pull.
- Tapped hole on rear of magnetic face for lifting arrangement.

| Cat No.  | Size (mm)      | Tapping | Pull  |
|----------|----------------|---------|-------|
| UL-20501 | Ø 18 x 16 H    | M6      | 3 kg  |
| UL-20502 | Ø 22 x 20 H    | M6      | 5 kg  |
| UL-20503 | Ø 27 x 25 H    | M8      | 6 kg  |
| UL-20504 | Ø 35 x 30 H    | M8      | 10 kg |
| UL-20505 | 50 x 25 x 25 H | M8      | 3 kg  |
| UL-20506 | 70 x 25 x 25 H | M8      | 5 kg  |

## 80 SERIES UL - 206

### "ULTRA" BRAND BUTTON MAGNET



- Used for lifting holding & locating of ferrous parts.
- Compact design with strong magnetic pull.

| Cat No.  | Size (mm)   | Pull |
|----------|-------------|------|
| UL-20601 | Ø 12 x 10 H | 1 kg |
| UL-20602 | Ø 20 x 12 H | 4 kg |
| UL-20603 | Ø 25 x 15 H | 5 kg |

## 81 SERIES UL - 207

### "ULTRA" BRAND MAGNETIC HOLDFAST



- Used for lifting holding & locating of ferrous parts.
- The Jack-off screw also serves as a handle.
- Eye bolt for lifting.

| Cat No.  | Size (mm)    | Pull  |
|----------|--------------|-------|
| UL-20701 | Ø 45 x 45 H  | 30 kg |
| UL-20702 | Ø 55 x 50 H  | 40 kg |
| UL-20703 | Ø 70 x 65 H  | 50 kg |
| UL-20704 | Ø 100 x 75 H | 65 kg |

**82 SERIES UL - 823**
**"ULTRA" BRAND RECTANGULAR HOLDING MAGNETS  
With Electrical Switch Off**
**FEATURES -**


1. The Permanent magnet system of these holding magnets creates a magnetic field between the centre pole and the outer border of the holding surface.
2. In addition to the permanent magnet, which creates the holding force, a coil is installed. When 24V= is applied to this switch - off coil a counter pole magnetic field is set up to neutralize the permanent magnetic field. As a result work - pieces can easily be removed.
3. These holding magnets will preferably be used when long - term holding times are required and tools should be loosened by switching on the coil for a short period.

**Special Sizes Available on Request as per Application.**

| Sr. No. | Cat No.                        | Holding Surface | Holding Force | Weight | Minimum Thickness |
|---------|--------------------------------|-----------------|---------------|--------|-------------------|
| 1       | UL - 82301                     | 200 mm x 60 mm  | 150 kg        | 3.0 kg | 6 mm              |
| 2       | "ULTRA" CONTROL UNIT FOR ABOVE |                 |               |        |                   |

**83 SERIES UL - 822**
**"ULTRA" BRAND ROUND PERMANENT ELECTRIC HOLDING MAGNETS  
With Electrical Switch Off**

**Suitable for pick and place application**

**FEATURES -**


1. The Permanent magnet system of these holding magnets creates a magnetic field between the centre pole and the outer border of the holding surface.
2. In addition to the permanent magnet, which creates the holding force, a coil is installed. When 24V= is applied to this switch - off coil a counter pole magnetic field is set up to neutralize the permanent magnetic field. As a result work - pieces can easily be removed.
3. These holding magnets will preferably be used when long - term holding times are required and tools should be loosened by switching on the coil for a short period.

**Special Sizes Available on Request as per Application.**

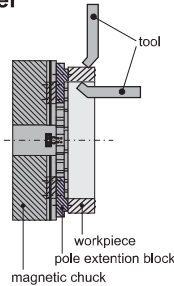
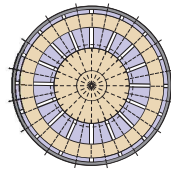
| Sr. No.                        | Cat No.    | Holding Surface | Holding Force | Minimum Thickness |
|--------------------------------|------------|-----------------|---------------|-------------------|
| 1.                             | UL - 82203 | Ø 64mm          | 50 kg         | 4.5 mm            |
| 2.                             | UL - 82204 | Ø 70mm          | 55 kg         | 6.0 mm            |
| 3.                             | UL - 82205 | Ø 90mm          | 100 kg        | 7.5 mm            |
| 4.                             | UL - 82206 | Ø 120mm         | 150 kg        | 7.5 mm            |
| "ULTRA" CONTROL UNIT FOR ABOVE |            |                 |               |                   |



## 84 SERIES UL - 821

### "ULTRA" BRAND ELECTROPERM MAGNETIC ROUND CHUCK FOR TURNING

Continues Power  
Not Required.



ID, OD and face machining in one setup

#### FEATURE -

1. ID, OD & Face Machining In One Setup which no other workholder will provide.
2. Detachable Bayonet Plug for power supply.
3. Poles Individually Magnetized for full loading power. Also Simple Pole Extensions allows tool clearance for rings.
4. Assembled with power full magnets. So heavy cuts can be taken. Setup is easy & downtime for different work pieces will be minimal.
5. Clamp force is consistent & predictable. Work holder does not distort the work piece.
7. Undamping is on the tip of a button, which increases productivity.
8. No Heat is generated by integrating coil when magnet is activated, as power supply is disconnected during machining being Electro Perm Magnetism.
9. Full Machining Capacity can be Exploited with better tolerances & repeatability.

#### APPLICATION -

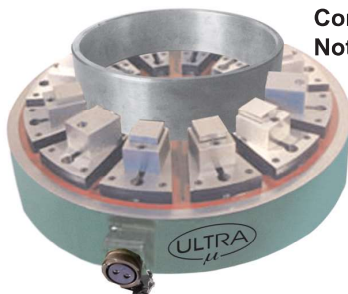
1. Use in vertical and horizontal turning of Plates.
2. Radially movable location blocks will help to position and secure work pieces. For Heavy Turning
3. Double magnet is available for heavy duty operations on seamless rolled rings, turning flanges and machining plates.
4. Continues electrical power supply is not required.

| Sr. No. | Cat No.                                        | Size (mm)      |
|---------|------------------------------------------------|----------------|
| 1.      | UL - 82101                                     | Ø 300 x 100 H  |
| 2.      | UL - 82102                                     | Ø 450 x 100 H  |
| 3.      | UL - 82103                                     | Ø 500 x 100 H  |
| 4.      | UL - 82104                                     | Ø 600 x 100 H  |
| 5.      | UL - 82105                                     | Ø 800 x 100 H  |
| 6.      | UL - 82106                                     | Ø 1000 x 100 H |
| 7.      | UL - 82107                                     | Ø 1250 x 100 H |
| 8.      | "ULTRA" VARIABLE CONTROL UNIT FOR ABOVE CHUCKS |                |
| 9.      | "ULTRA" EXTENSION BLOCK                        |                |
| 10.     | "ULTRA" EXTENSION JAWS (Movebal)               |                |

## 85 SERIES UL - 815

### "ULTRA" BRAND ELECTROPERM MAGNETIC ROUND CHUCK FOR GRINDING

Continues Power  
Not Required.



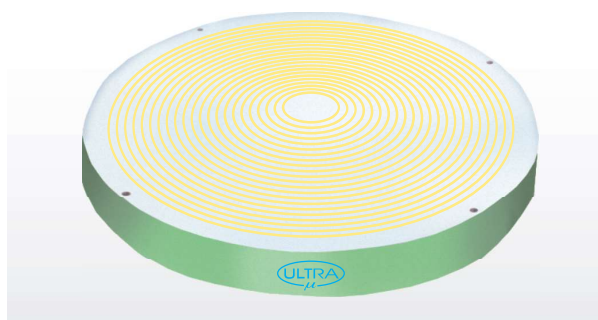
#### FEATURE -

1. Continuous Electricity is not required. 100% safe in used.
2. Power for all poles transferred to ring / plates to hold the job firmly.
3. Assembled with power full magnets. So heavy cut can taken
4. Poles individually magnetized for full loading power

#### APPLICATION -

1. Use in vertical and horizontal grinding Machine.
2. Radially movable location blocks will help to position and secure work pieces. This is also necessary for wheel clearance .

| Sr. No. | Cat No.                                        | Size (mm)      |
|---------|------------------------------------------------|----------------|
| 1.      | UL - 81501                                     | Ø 300 x 100 H  |
| 2.      | UL - 81502                                     | Ø 450 x 100 H  |
| 3.      | UL - 81503                                     | Ø 500 x 100 H  |
| 4.      | UL - 81504                                     | Ø 600 x 100 H  |
| 5.      | UL - 81505                                     | Ø 800 x 100 H  |
| 6.      | UL - 81506                                     | Ø 1000 x 100 H |
| 7.      | UL - 81507                                     | Ø 1250 x 115 H |
|         | "ULTRA" VARIABLE CONTROL UNIT FOR ABOVE CHUCKS |                |
|         | "ULTRA" EXTENSION BLOCK                        |                |
|         | "ULTRA" EXTENSION JAWS (Movebal)               |                |
|         |                                                | ON REQUEST     |

**86 SERIES UL - 716**
**"ULTRA" BRAND ELECTRO MAGNETIC ROUND CHUCK  
IS : 8710 - 1978**


- Work holding device for Rotary surface grinding machine & lathe machines.
- Each pole is having separate coil, as such very strong & even magnetic flux is generated.
- **Magnetic pull is 30-50% more then IS specification.**
- Mag - D - Mag with variable control unit allows to neutralize the residual magnetism precisely , using a microprocessor based control circuitry.
- Variable supply for varying power which helps in alignment & removing of warpings of thin jobs.
- The chuck is also useful for second operation
- Chuck is tested for Slipping force, Waterproof test,
- Temperature rise test, Electrical & Demagnetizing tests.

| Sr. No. | Cat No.                                      | Size (mm)      | Circular Pole Gap (mm) |
|---------|----------------------------------------------|----------------|------------------------|
| 1.      | UL - 71601                                   | Ø 300 x 100 H  | 10 + 5                 |
| 2.      | UL - 71602                                   | Ø 450 x 100 H  | 10 + 5                 |
| 3.      | UL - 71603                                   | Ø 600 x 100 H  | 10 + 5                 |
| 4.      | UL - 71604                                   | Ø 750 x 100 H  | 10 + 5                 |
| 5.      | UL - 71605                                   | Ø 1000 x 100 H | 10 + 5                 |
| 5A      | "ULTRA" MAG D-MAG WITH VARIABLE CONTROL UNIT |                | 2Amp.                  |
| 5B      | "ULTRA" MAG D-MAG WITH VARIABLE CONTROL UNIT |                | 2Amp. & above          |

**87 SERIES UL - 837**
**"ULTRA" BRAND PERMANENT MAGNETIC CHUCK (THROUGH POLE)**

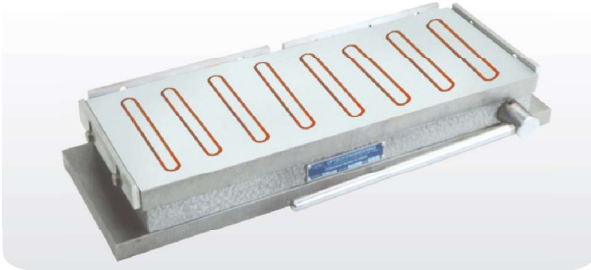

- Permanent Magnetic chuck (through pole)
- Holding Device for surface grinding machine, Tool & Cutter Grinder, Spark Erosion
- Machines & also for light milling.
- The working face & bottom face are perfectly parallel.
- Assembled with powerful magnets.
- Poles individually magnetized for full loading power.
- Magnetic Pull is 40 – 50% more than IS Specification.
- Better magnetic grip due to close poles.
- Suitable to hold thin & small jobs.
- Easy operated ON – OFF Lever.

| Code No.   | Size        | Pole pitch |
|------------|-------------|------------|
| UL – 83701 | 300L x 150W | 9 mm       |
| UL – 83702 | 450L x 150W | 9 mm       |
| UL – 83703 | 300L x 200W | 9 mm       |
| UL – 83704 | 450L x 200W | 9 mm       |
| UL – 83705 | 500L x 200W | 9 mm       |
| UL – 83706 | 600L x 200W | 9 mm       |
| UL – 83707 | 450L x 250W | 11 mm      |
| UL – 83708 | 500L x 250W | 11 mm      |
| UL – 83709 | 600L x 250W | 11 mm      |
| UL – 83710 | 450L x 300W | 11 mm      |
| UL – 83711 | 600L x 300W | 11 mm      |
| UL – 83712 | 750L x 250W | 11 mm      |
| UL – 83713 | 750L x 300W | 11 mm      |



## 88 SERIES UL - 708

### "ULTRA" BRAND PERMANENT MAGNETIC CHUCK (HEAVY DUTY)



- Holding device for surface grinding machine, Tool & cutter grinder, Spark erosion machines.
- Accuracy as per IS : 4816 - 1987.
- Assembled with powerful Magnets.
- Poles individually magnetized for full loading power.
- Magnetic pull is 40-70% more than IS specification.
- Bottom plate has suitable extension to clamp on table.
- Easy operated ON-OFF lever.

| Sr. No. | Cat No.  | Size (mm)            | Pole Gap (mm) |
|---------|----------|----------------------|---------------|
| 1.      | UL 70802 | 250 L x 150 W x 60 H | 19            |
| 2.      | UL 70803 | 300 L x 150 W x 60 H | 19            |
| 3.      | UL 70804 | 300 L x 200 W x 65 H | 19            |
| 4.      | UL 70805 | 350 L x 150 W x 65 H | 19            |
| 5.      | UL 70806 | 400 L x 150 W x 65 H | 19            |
| 6.      | UL 70807 | 450 L x 150 W x 65 H | 19            |
| 7.      | UL 70808 | 450 L x 200 W x 70 H | 19            |
| 8.      | UL 70809 | 500 L x 200 W x 70 H | 19            |
| 9.      | UL 70810 | 600 L x 200 W x 70 H | 19            |
| 10.     | UL 70811 | 450 L x 250 W x 70 H | 19            |
| 11.     | UL 70812 | 450 L x 300 W x 70 H | 19            |
| 12.     | UL 70813 | 600 L x 250 W x 70 H | 19            |
| 13.     | UL 70814 | 600 L x 300 W x 70 H | 19            |

## 89 SERIES UL - 709

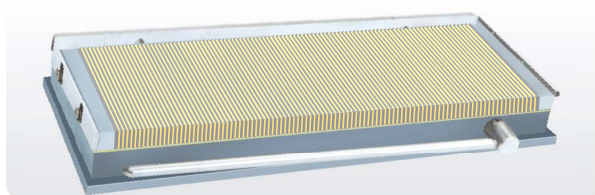
### "ULTRA" BRAND PERMANENT MAGNETIC CHUCK CLOSE POLE TYPE (HEAVY DUTY)



- Holding device for surface grinding machine, Tool & cutter grinder, Spark erosion machines & also for light milling.
- The working face & bottom face are perfectly parallel.
- Assembled with powerful Magnets.
- Poles individually magnetized for full loading power.
- Magnetic pull is 40-70% more than IS specification.
- Bottom plate has suitable extension to clamp on table.
- Better magnetic grip due to close poles.
- Suitable to hold thin & small jobs.
- Easy operated ON-OFF lever.

| Sr. No. | Cat No.  | Size (mm)           | Pole Gap (mm) |
|---------|----------|---------------------|---------------|
| 1.      | UL 70901 | 250 L x 150 W x 65H | 14            |
| 2.      | UL 70902 | 300 L x 150 W x 65H | 14            |
| 3.      | UL 70903 | 300 L x 200 W x 65H | 14            |
| 4.      | UL 70904 | 350 L x 150 W x 65H | 14            |
| 5.      | UL 70905 | 400 L x 150 W x 65H | 14            |
| 6.      | UL 70906 | 450 L x 150 W x 70H | 14            |
| 7.      | UL 70907 | 450 L x 200 W x 70H | 14            |
| 8.      | UL 70908 | 500 L x 200 W x 70H | 14            |
| 9.      | UL 70909 | 600 L x 200 W x 70H | 14            |
| 10.     | UL 70910 | 450 L x 250 W x 70H | 14            |
| 11.     | UL 70911 | 450 L x 300 W x 70H | 14            |
| 12.     | UL 70912 | 600 L x 250 W x 70H | 14            |
| 13.     | UL 70913 | 600 L x 300 W x 70H | 14            |

## 90 SERIES **UL - 721** "ULTRA" BRAND MICRO FINE PITCH PERMANENT MAGNETIC CHUCK



- Holding device for surface grinding machine, Tool & cutter grinder, Spark erosion machines.
- **Fine Pitch (1 + 0.5)** makes it suitable to hold very thin & small jobs.
- The working face & bottom face is perfectly parallel.
- Poles individually magnetized for full loading power.
- Suitable to hold thin & small jobs.
- Bottom plate has suitable extension to clamp on table.
- Better magnetic grip due to close pole.
- Easy operated ON-OFF lever

| Sr. No. | Cat No.  | Size (mm)            | Pole Pitch (mm) |
|---------|----------|----------------------|-----------------|
| 1.      | UL 72100 | 150 L x 120 W x 60 H | 1.5             |
| 2.      | UL 72101 | 250 L x 150 W x 60 H | 1.5             |
| 3.      | UL 72102 | 300 L x 150 W x 60 H | 1.5             |
| 4.      | UL 72103 | 350 L x 150 W x 60 H | 1.5             |
| 5.      | UL 72104 | 400 L x 150 W x 60 H | 1.5             |
| 6.      | UL 72105 | 450 L x 150 W x 60 H | 1.5             |
| 7.      | UL 72106 | 450L x 200 W x 60 H  | 1.5             |

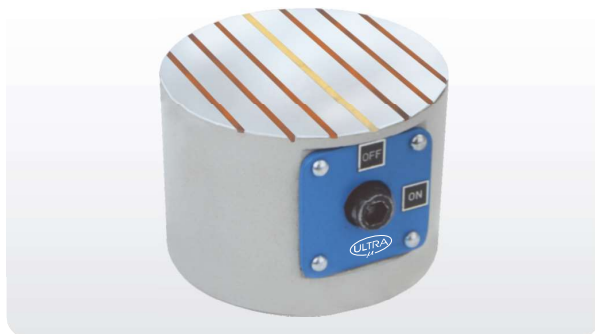
## 91 SERIES **UL - 710** "ULTRA" BRAND ROUND MAGNETIC CHUCK



- Holding device for Rotary surface grinding and also for Lathe & cylindrical grinding machines.
- Accuracy as per IS : 4816 - 1987
- Magnetic pull is 20-40% more than IS specification.
- Assembled with powerful Magnets.
- ON-OFF by key.

| Sr. No. | Cat No.  | Size (mm)    | Pole Gap (mm) |
|---------|----------|--------------|---------------|
| 1.      | UL 71002 | Ø 150 x 70 H | 14            |
| 2.      | UL 71003 | Ø 160 x 70 H | 16            |
| 3.      | UL 71004 | Ø 175 x 70 H | 16            |
| 4.      | UL 71005 | Ø 200 x 70 H | 16            |
| 5.      | UL 71006 | Ø 225 x 70 H | 16            |
| 6.      | UL 71007 | Ø 250 x 70 H | 19            |
| 7.      | UL 71008 | Ø 300 x 70 H | 19            |
| 8.      | UL 71009 | Ø 375 x 70 H | 19            |
| 9.      | UL 71010 | Ø 400 x 70 H | 19            |
| 10.     | UL 71011 | Ø 450 x 70 H | 19            |

## 92 SERIES **UL - 710** "ULTRA" BRAND SPECIAL TYPE CIRCULAR MAGNETIC CHUCK



- Holding device for Rotary surface grinding, light machining, also for Lathe & cylindrical grinding machines.
- The working face & bottom face is perfectly parallel.
- Assembled in powerful Rare Earth Magnets.
- Suitable for thin & small jobs.
- "V" construction design gives better magnetic force.
- Easy operated ON-OFF knob.

| Sr. No. | Cat No.  | Size (mm)           |
|---------|----------|---------------------|
| 1.      | UL 71012 | Ø 75 x 60 H [ 3" ]  |
| 2.      | UL 71013 | Ø 100 x 70 H [ 4" ] |
| 3.      | UL 71014 | Ø 150 x 70 H [ 6" ] |
| 4.      | UL 71015 | Ø 200 x 70 H [ 8" ] |

## 93 SERIES **UL - 611** "ULTRA" BRAND MAGNETIC BLOCK



Both side can hold work pieces & can be turn ON-OFF individually

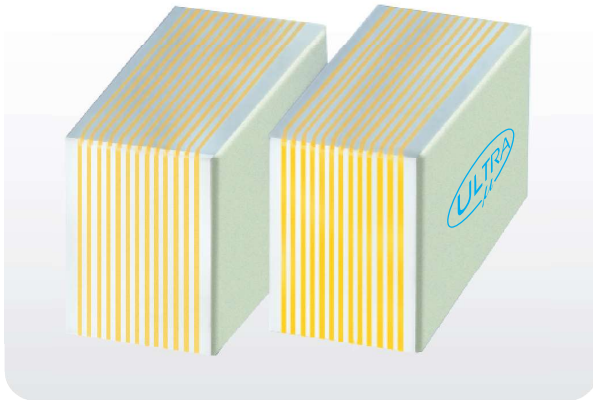
- Both side can hold work pieces & can be turn ON-OFF individually
- They are shear to the work table by turning ON-OFF magnet
- The side face can also hold work piece.
- Light Weight for easy positional adjustment.
- Removable On-OFF Handle.
- Suitable for grinding machine & EDM Machine.

| Cat No.  | Size (mm)           |
|----------|---------------------|
| UL-61101 | 150 L x 50 W x 50 H |



## 94 SERIES UL - 711

### "ULTRA" BRAND TRANSFER BLOCKS

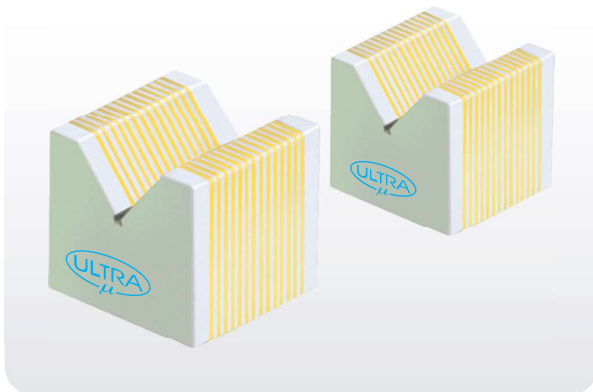


- Used as an accessory for magnetic chuck to clamp thin & odd shaped jobs.
- Simplest method of extending the magnetic flux of magnetic chuck with parallel poles to support the job.
- Maximum flux transformation when placed parallel to pole lines.
- Perfectly ground within 5 Micron & supplied in matched pair.

| Sr. No. | Cat No.  | Size (mm)           |
|---------|----------|---------------------|
| 1.      | UL 71101 | 50 W x 35 H x 100 L |
| 2.      | UL 71102 | 60 W x 30 H x 75 L  |
| 3.      | UL 71103 | 50 W x 75 H x 75 L  |
| 4.      | UL 71104 | 50 W x 50 H x 100 L |
| 5.      | UL 71105 | 80 W x 25 H x 120 L |
| 6.      | UL 71106 | 60 W x 25 H x 100 L |
| 7.      | UL 71107 | 50 W x 20 H x 100 L |

## 95 SERIES UL - 712

### "ULTRA" BRAND V TYPE TRANSFER BLOCKS

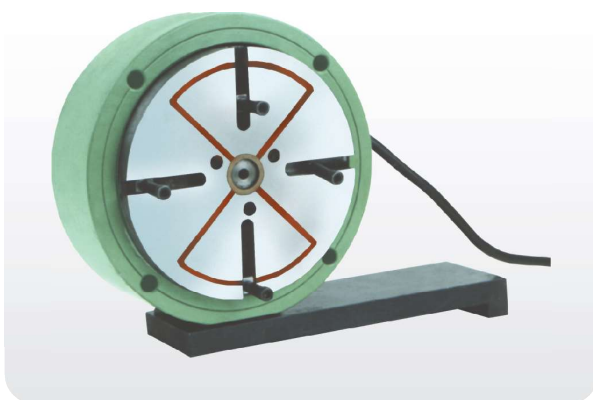


- Used as an accessory for magnetic chuck to clamp thin & odd shape jobs.
- Simplest method of extending the magnetic flux of magnetic chuck with parallel poles to support the job.
- Maximum flux transformation when placed parallel to pole lines.
- 90° V provided for round job.
- Perfectly ground within 5 micron & supplied in matched pair.

| Sr. No. | Cat No.  | Size (mm)           |
|---------|----------|---------------------|
| 1.      | UL 71201 | 50 W x 60 H x 45 L  |
| 2.      | UL 71202 | 110 W x 60 H x 45 L |
| 3.      | UL 71203 | 75 W x 65 H x 35 L  |
| 4.      | UL 71204 | 100 W x 65 H x 35 L |
| 5.      | UL 71205 | 60 W x 60 H x 45 L  |

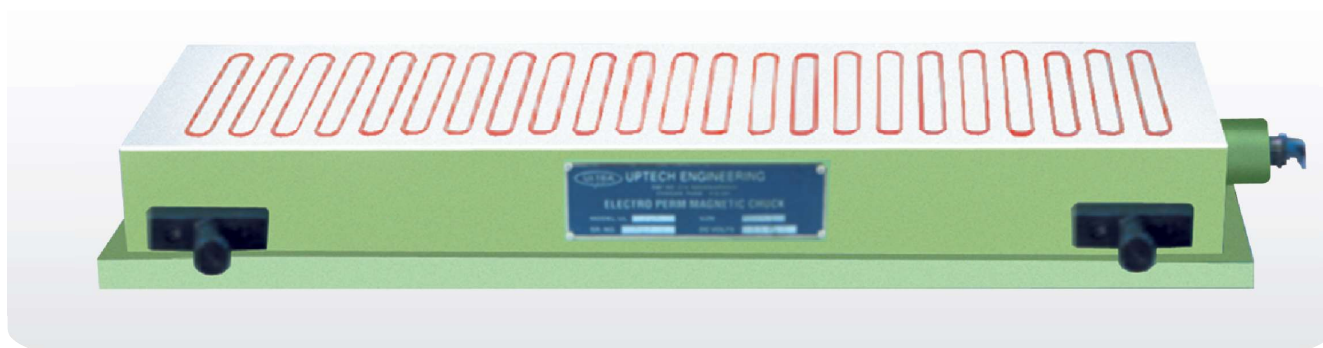
## 96 SERIES UL - 720

### "ULTRA" BRAND ELECTRO MAGNETIC CHUCK For Cylindrical Grinding



- Work holding device on Cylindrical Grinding m/c to grind outer diameter & face component as bearing recess, flanges, collet bushes, discs etc.
- Can also be used on Lathe machine.
- Mag - D - Mag with variable control unit allows to neutralize the residual magnetism precisely.
- Magnetic Coil (outer body) remains stationary & middle part (Round body) will rotate with spindle through adaptor sleeve.
- Variable supply is useful to true the job.
- 4 T-slots for easy location of job.
- Chuck is tested for Slipping force, Temperature rise, Waterproof,
- Electrical & Demagnetizing tests.
- Battery Back-up unit is also available on request

| Sr. No. | Cat No.                                         | Size (mm)   |
|---------|-------------------------------------------------|-------------|
| 1.      | UL- 72001                                       | Ø 100 [ 4"] |
| 2.      | UL- 72002                                       | Ø 150 [ 6"] |
| 3.      | UL- 72003                                       | Ø 200 [ 8"] |
| 4.      | ULTRA" Mag - D - Mag with variable control unit |             |

**97 SERIES UL - 714**
**"ULTRA" BRAND HEAVY DUTY ELECTROMAGNETIC RECTANGULAR CHUCK ACCURACY AS PER IS : 8710 - 1978**


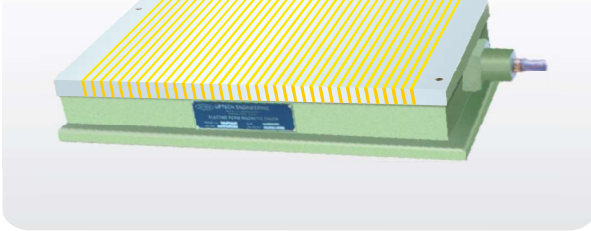
- Work holding device for surface grinding machines.
- Each pole is having separate coil, so/hence very strong & even magnetic flux is generated.
- Accuracy as per IS : 8710 - 1978.
- Magnetic pull is 30-50% more than IS specification.
- Mag - D - Mag with variable control unit allows to neutralize the residual magnetism precisely, using a microprocessor based control circuitry.
- Variable supply to vary power which helps in alignment & removing of warpages of thin jobs.
- Chuck is tested for Slipping force, Waterproof test, temperature rise test, Electrical & Demagnetizing tests.
- Also available in Longitudinal Poles.
- We also manufacture Special chucks to suit individual requirements.
- Good quality & standard electrical accessories.

| Sr. No. | Cat No.                                                                      | Size (mm)              | Pole Gap (mm) | Pole Pitch                             |
|---------|------------------------------------------------------------------------------|------------------------|---------------|----------------------------------------|
| 1.      | UL 71401                                                                     | 450 L x 150 W x 95 H   | 15            | 40                                     |
| 2.      | UL 71402                                                                     | 500 L x 200 W x 95 H   | 15            | 40                                     |
| 3.      | UL 71403                                                                     | 600 L x 200 W x 95 H   | 15            | 40                                     |
| 4.      | UL 71404                                                                     | 600 L x 250 W x 95 H   | 15            | 40                                     |
| 5.      | UL 71405                                                                     | 750 L x 250 W x 95 H   | 15            | 40                                     |
| 6.      | UL 71406                                                                     | 900 L x 250 W x 95 H   | 15            | 40                                     |
| 7.      | UL 71407                                                                     | 600 L x 300 W x 95 H   | 15            | 40                                     |
| 8.      | UL 71408                                                                     | 750 L x 300 W x 95 H   | 15            | 40                                     |
| 9.      | UL 71409                                                                     | 900 L x 300 W x 95 H   | 15            | 40                                     |
| 10.     | UL 71410                                                                     | 1000 L x 250 W x 100 H | 15            | 40                                     |
| 11.     | UL 71411                                                                     | 1000 L x 300 W x 100 H | 15            | 40                                     |
| 12.     | UL 71412                                                                     | 1500 L x 250 W x 100 H | 15            | 40                                     |
| 13.     | UL 71413                                                                     | 1500 L x 300 W x 100 H | 15            | 40                                     |
| 14.     | UL 71414                                                                     | 1500 L x 400 W x 100 H | 15            | 40                                     |
| 15.     | UL 71415                                                                     | 800 L x 400 W x 100 H  | 15            | 40                                     |
| 16.     | UL 71416                                                                     | 1200 L x 500 W x 100 H | 15            | 40                                     |
| 17A     | "ULTRA" MAG D-MAG WITH VARIABLE CONTROL UNIT                                 |                        |               | Upto 1000L 2 Amp.<br>Upto 1500L 3 Amp. |
| 17B     | "ULTRA" MAG D-MAG WITH VARIABLE CONTROL UNIT & BATTERY BACK-UP ( 20 minutes) |                        |               | Upto 1000L 2 Amp.<br>Upto 1500L 3 Amp. |



## 98 SERIES UL - 715

### "ULTRA" BRAND HEAVY DUTY FINE PITCH MULTI COIL ELECTRO MAGNETIC CHUCK ( Transverse Pole ) IS - 8710 - 1978

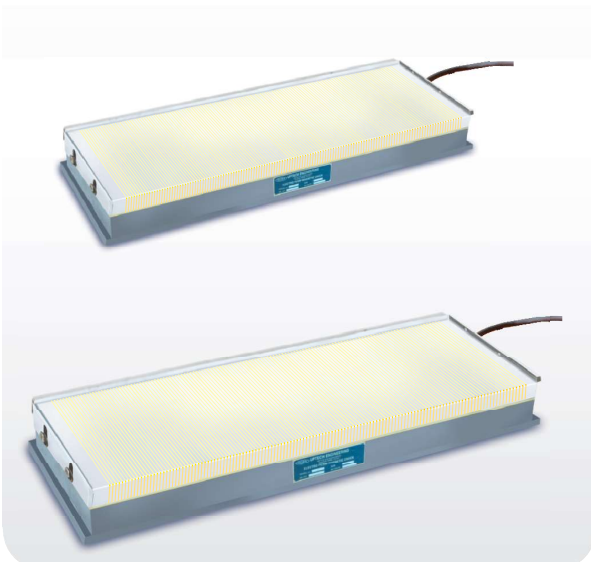


- Work holding device for surface grinding machines.
- Each pole is having separate coil, so/hence very strong & even magnetic flux is generated.
- Accuracy as per IS : 8710 - 1978.
- Magnetic pull is 30-50% more than IS specification.**
- Fine Pitch 5mm** makes it suitable to hold thin & small jobs.
- Mag - D - Mag with variable control unit allows to neutralize the residual magnetism precisely , using a microprocessor based control circuitry.
- Variable supply to vary power which helps in alignment & removing of warpages of thin jobs.
- Chuck is tested for Slipping force, Waterproof test, Temperature rise test, electrical & demagnetizing tests.
- Also available in **Longitudinal Poles.**

| Sr. No. | Cat No.                                      | Size (mm)              | Pole Gap (mm)                            |
|---------|----------------------------------------------|------------------------|------------------------------------------|
| 1.      | UL 71501                                     | 450 L x 150 W x 95 H   | 5 (4 + 1)                                |
| 2.      | UL 71502                                     | 500 L x 200 W x 95 H   | 5 (4 + 1)                                |
| 3.      | UL 71503                                     | 600 L x 200 W x 95 H   | 5 (4 + 1)                                |
| 4.      | UL 71504                                     | 600 L x 250 W x 95 H   | 5 (4 + 1)                                |
| 5.      | UL 71505                                     | 750 L x 250 W x 95 H   | 5 (4 + 1)                                |
| 6.      | UL 71506                                     | 900 L x 250 W x 95 H   | 5 (4 + 1)                                |
| 7.      | UL 71507                                     | 600 L x 300 W x 95 H   | 5 (4 + 1)                                |
| 8.      | UL 71508                                     | 750 L x 300 W x 95 H   | 5 (4 + 1)                                |
| 9.      | UL 71509                                     | 900 L x 300 W x 95 H   | 5 (4 + 1)                                |
| 10.     | UL 71510                                     | 1000 L x 250 W x 100 H | 5 (4 + 1)                                |
| 11.     | UL 71511                                     | 1000 L x 300 W x 100 H | 5 (4 + 1)                                |
| 12.     | UL 71512                                     | 1500 L x 250 W x 100 H | 5 (4 + 1)                                |
| 13.     | UL 71513                                     | 1500 L x 300 W x 100 H | 5 (4 + 1)                                |
| 14.     | UL 71514                                     | 1500 L x 400 W x 100 H | 5 (4 + 1)                                |
| 15.     | UL 71515                                     | 800 L x 400 W x 100 H  | 5 (4 + 1)                                |
|         | UL 71516                                     | 1200 L x 400 W x 100 H | 5 (4 + 1)                                |
| 17A.    | "ULTRA" MAG D-MAG WITH VARIABLE CONTROL UNIT |                        | Upto 1000 L 2 Amp.<br>Upto 1500 L 3 Amp. |

## 99 SERIES UL - 722

### "ULTRA" BRAND MULTI COIL MICRO FINE PITCH ELECTRO MAGNETIC CHUCK



- Work holding device for surface grinding machines.
- Each pole is having separate coil, so/hence very strong & even magnetic flux is generated.
- Accuracy as per IS : 8710 - 1978.
- Magnetic pull is 30-50% more than IS specification.**
- Fine Pitch (1 + 0.5)** makes it suitable to hold very thin & small jobs.
- Mag - D - Mag with variable control unit allows to neutralize the residual magnetism precisely , using a microprocessor based control circuitry.
- Variable supply to vary power which helps in alignment & removing of warpages of thin jobs.
- Chuck is tested for Slipping force, Waterproof test, Temperature rise test, Electrical & Demagnetizing tests.
- Good quality & standard electrical accessories.
- We also manufacture Special chucks to suit individual requirement.**

| Sr. No. | Cat No.                                                                      | Size (mm)         | Pole Pitch (mm) |
|---------|------------------------------------------------------------------------------|-------------------|-----------------|
| 1.      | UL 72201                                                                     | 450L x 150W x 95H | 1.5             |
| 2.      | UL 72202                                                                     | 450L x 200W x 95H | 1.5             |
| 3.      | UL 72203                                                                     | 500L x 200W x 95H | 1.5             |
| 4.      | UL 72204                                                                     | 600L x 200W x 95H | 1.5             |
| 5.      | UL 72205                                                                     | 750L x 250W x 95H | 1.5             |
| 6 A.    | "ULTRA" MAG D-MAG WITH VARIABLE CONTROL UNIT                                 |                   | 2Amp.           |
| 6 B.    | "ULTRA" MAG D-MAG WITH VARIABLE CONTROL UNIT & BATTERY BACK-UP ( 20 minutes) |                   | 2Amp.           |

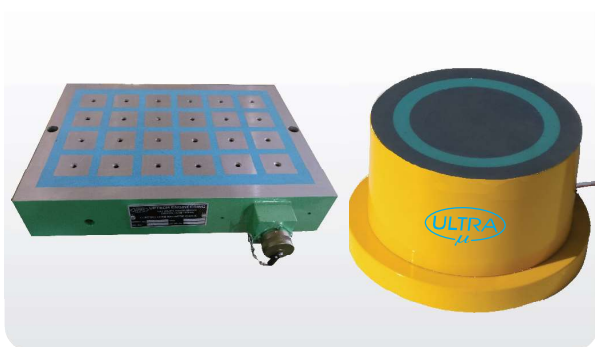
## 100 SERIES **UL - 836** "ULTRA" BRAND HEAVY DUTY FINE PITCH MULTI COIL ELECTRO MAGNETIC CHUCK



- Work holding device for surface grinding machines.
- Each pole is having separate coil, so/hence very strong & even magnetic flux is generated.
- Accuracy as per IS : 8710 - 1978.
- **Magnetic pull is 30-50% more than IS specification.**
- **Fine Pitch 6.5 mm** makes it suitable to hold thin & small jobs.
- Mag - D - Mag with variable control unit allows to neutralize the residual magnetism precisely, using a microprocessor based control circuitry.
- Variable supply to vary power which helps in alignment & removing of warpages of thin jobs.
- Chuck is tested for Slipping force, Waterproof test, Temperature rise test, electrical & demagnetizing tests.
- Also available in **Longitudinal Poles**.

| Code No.   | Size (mm)              | Pole Gap (mm)  |
|------------|------------------------|----------------|
| UL – 83601 | 450 L x 150 W x 95 H   | 6.5 (5+1.5) mm |
| UL – 83602 | 500 L x 200 W x 95 H   | 6.5 (5+1.5) mm |
| UL – 83603 | 600 L x 200 W x 95 H   | 6.5 (5+1.5) mm |
| UL – 83604 | 600 L x 250 W x 95 H   | 6.5 (5+1.5) mm |
| UL – 83605 | 750 L x 250 W x 95 H   | 6.5 (5+1.5) mm |
| UL – 83606 | 900 L x 250 W x 95 H   | 6.5 (5+1.5) mm |
| UL – 83607 | 600 L x 300 W x 95 H   | 6.5 (5+1.5) mm |
| UL – 83608 | 700 L x 300 W x 95 H   | 6.5 (5+1.5) mm |
| UL – 83609 | 900 L x 300 W x 95 H   | 6.5 (5+1.5) mm |
| UL – 83610 | 1000 L x 250 W x 100 H | 6.5 (5+1.5) mm |
| UL – 83611 | 1000 L x 300 W x 100 H | 6.5 (5+1.5) mm |
| UL – 83612 | 1500 L x 250 W x 100 H | 6.5 (5+1.5) mm |
| UL – 83613 | 1500 L x 300 W x 100 H | 6.5 (5+1.5) mm |
| UL – 83614 | 800 L x 400 W x 100 H  | 6.5 (5+1.5) mm |
| UL – 83615 | 1200 L x 400 W x 100 H | 6.5 (5+1.5) mm |

## 101 SERIES **UL - 839** "ULTRA" BRAND MODULAR ELECTROPERMANENT MAGNET



- Work holding device for conventional & CNC milling m/c, and drilling operations.
- COLD DEVICE as it doesn't require power continuously except for short period of activation & deactivation.
- Suitable for light milling i.e. 1-2 mm depth of cut at recommended speed & feed.
- Maximum material removal is possible.
- Economical for operation & maintenance.
- No accidents due to power failure.

**Product is designed as per customer requirement.**



## 102 SERIES **UL - 719**

### "ULTRA" BRAND ELECTROPERMANENT MAGNETIC CHUCK (70 x 70) Quad Pole



- Work holding device for conventional & CNC milling m/c.
- COLD DEVICE as it doesn't require power continuously except for short period of activation & deactivation.
- Suitable for light milling i.e. 3-6 mm depth of cut at recommended speed & feed.
- Maximum material removal is possible.
- Economical for operation & maintenance.
- No accidents due to power failure.
- Slipping force is 2.5 - 3.5 Kg/cm<sup>2</sup>.
- Vertical Lifting Force is 40 - 45 Kg/cm<sup>2</sup>.
- Variable supply unit to vary power which helps in alignment of jobs.
- Chuck is tested for Slipping force, Waterproof test, Electrical & Demagnetizing tests.
- Standard electrical accessories.
- **We also manufacture Special chucks to suit individual requirement**

| Sr. No. | Cat No.    | Size (mm)             |
|---------|------------|-----------------------|
| 1.      | UL - 71901 | 600 L x 320 W x 80 H  |
| 2.      | UL - 71902 | 750 L x 320 W x 90 H  |
| 3.      | UL - 71903 | 1000 L x 320 W x 90 H |
| 4.      | UL - 71904 | 1500 L x 320 W x 90 H |
| 5.      | UL - 71905 | 600 L x 410 W x 80 H  |
| 6.      | UL - 71906 | 750 L x 410 W x 90 H  |
| 7.      | UL - 71907 | 1000 L x 410 W x 90 H |
| 8.      | UL - 71908 | 1500 L x 410 W x 90 H |

| Sr. No. | Cat No.                                   | Size (mm)             |
|---------|-------------------------------------------|-----------------------|
| 9.      | UL - 71909                                | 410 L x 410 W x 80 H  |
| 10.     | UL - 71910                                | 800 L x 410 W x 90 H  |
| 11.     | UL - 71911                                | 1000 L x 500 W x 90 H |
| 12.     | "ULTRA" CONTROL UNIT WITH VARIABLE SUPPLY |                       |
| 13.     | "ULTRA" POLE EXTENTION BLOCK              |                       |
| 14.     | SPECIAL "ULTRA" POLE EXTENTION BLOCK      |                       |
| 15.     | "ULTRA" SPRING POLE EXTENTION BLOCK       |                       |

### Accessories for ELECTROPERMANENT MAGNETIC CHUCK



Plain Pad



T Nut



T Type Pad



Right angle pad



E. P. M. Chuck with T Type Pad and T Nut



E. P. M. Chuck with Right angle pad

# 103 SERIES UL - 718

## "ULTRA" BRAND ELECTROPERM LIGHT DUTY CHUCK (47 x 47 Quad Pole)



Pendent

Control Unit

- Work holding device for Milling machines.
- COLD DEVICE as it doesn't require power continuously except for short period of activation & deactivation.
- Suitable for light milling i.e. 1-3 mm depth of cut at recommended speed & feed.
- Maximum material removal is possible.
- Economical for operation & maintenance.
- No accidents due to power failure.
- Slipping force is 2.5 - 3 Kg/cm<sup>2</sup>.
- Vertical Lifting Force is 35 - 40 Kg/cm<sup>2</sup>.
- Variable supply unit to vary power which helps in alignment of jobs.
- Chuck is tested for Slipping force, Waterproof test, Temperature rise test, Electrical & Demagnetizing tests.
- Good quality & standard electrical accessories.
- We also manufacture Special chucks to suit individual requirement.

| Sr. No. | Cat No.    | Size (mm)           |
|---------|------------|---------------------|
| 1.      | UL - 71801 | 500L x 200 W x 80 H |
| 2.      | UL - 71802 | 600L x 200 W x 80 H |
| 3.      | UL - 71803 | 600L x 250 W x 80 H |
| 4.      | UL - 71804 | 600L x 300 W x 80 H |
| 5.      | UL - 71805 | 600L x 400 W x 80 H |
| 6.      | UL - 71806 | 750L x 250 W x 90 H |

| Sr. No. | Cat No.                                   | Size (mm)             |
|---------|-------------------------------------------|-----------------------|
| 7.      | UL - 71807                                | 750L x 300 W x 90 H   |
| 8.      | UL - 71808                                | 1000 L x 250 W x 90 H |
| 9.      | UL - 71809                                | 400 L x 400 W x 90 H  |
| 10.     | UL - 71810                                | 800 L x 400 W x 90 H  |
| 11.     | UL - 71811                                | 1000 L x 500 W x 90 H |
| 12.     | "ULTRA" CONTROL UNIT WITH VARIABLE SUPPLY |                       |



Plain Pad



T Type Pad



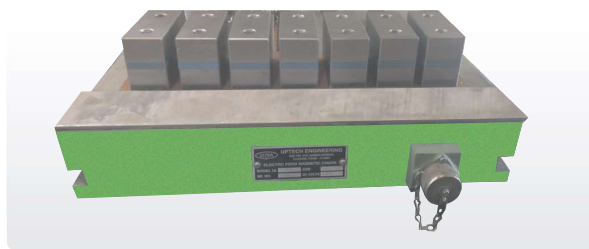
T Nut



Right angle pad



E. P. M. Chuck with T Type Pad and T Nut



E. P. M. Chuck with Right angle pad



## 104 SERIES UL - 816

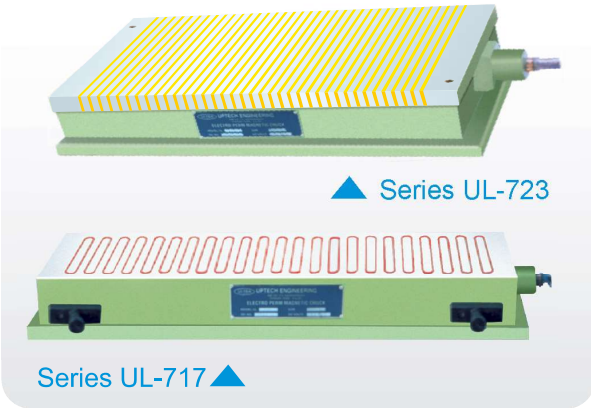
### "ULTRA" BRAND ELECTROPERM MAGNETIC CHUCK For Horizontal Machining



- EPM CHUCK is designed in such a way that it is very useful for Horizontal Machining Centers. It is also useful in conventional machining for Horizontal milling operation.
- As Electro Permanent Magnetic (EPM) Principle is used, **Continuous Electricity is not required.**
- Easily integrated with pallet clamping.
- Manufactured as per customer requirement.

## 105 SERIES UL - 723

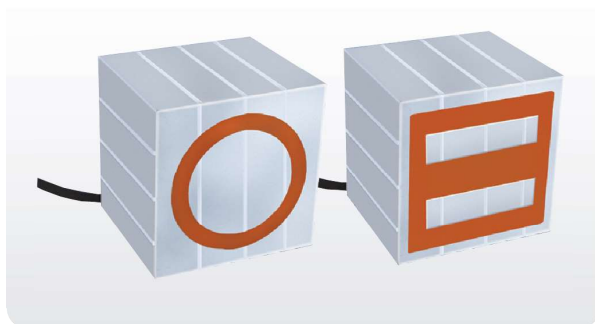
### "ULTRA" BRAND FINE PITCH ELECTROPERM MAGNETIC CHUCK For Grinding Machine



- Work holding device for surface grinding machines.
- COLD DEVICE as it doesn't require power continuously except for short period of activation & deactivation.
- Parallelism & flatness is 0.010mm/300mm.
- Suitable for thin & small jobs.
- Economical for operation & maintenance.
- Uniform clamping force all over surface.
- Negligible power consumption.
- No accidents due to power failure.
- Slipping force is 2.5 Kg/cm<sup>2</sup>.
- Vertical Lifting Force is 35 - 40 Kg/cm<sup>2</sup>.
- Variable supply unit to vary power which helps in alignment & removing of warpages of thin jobs.
- Chuck is tested for Slipping force, Waterproof test,
- Electrical & Demagnetizing tests.
- Standard electrical accessories.
- **We also manufacture Special chucks to suit individual requirement.**

| Sr. No. | Cat No.                                   | Size (mm)              | Pole Gap (mm) |
|---------|-------------------------------------------|------------------------|---------------|
| 1.      | UL 72301                                  | 450 L x 150 W x 100 H  | 6.5           |
| 2.      | UL 72302                                  | 500 L x 200 W x 100 H  | 6.5           |
| 3.      | UL 72303                                  | 600 L x 200 W x 100 H  | 6.5           |
| 4.      | UL 72304                                  | 600 L x 250 W x 100 H  | 6.5           |
| 5.      | UL 72305                                  | 750 L x 250 W x 100 H  | 6.5           |
| 6.      | UL 72306                                  | 900 L x 250 W x 100 H  | 6.5           |
| 7.      | UL 72307                                  | 600 L x 300 W x 100 H  | 6.5           |
| 8.      | UL 72308                                  | 750 L x 300 W x 100 H  | 6.5           |
| 9.      | UL 72309                                  | 900 L x 300 W x 100 H  | 6.5           |
| 10.     | UL 72310                                  | 1000 L x 250 W x 110 H | 6.5           |
| 11.     | UL 72311                                  | 1000 L x 300 W x 110 H | 6.5           |
| 12.     | UL 72312                                  | 1500 L x 250 W x 110 H | 6.5           |
| 13.     | UL 72313                                  | 1500 L x 300 W x 110 H | 6.5           |
| 14.     | UL 72314                                  | 1500 L x 400 W x 110 H | 6.5           |
| 15.     | "ULTRA" CONTROL UNIT WITH VARIABLE SUPPLY |                        |               |

| Sr. No. | Cat No.                                   | Size (mm)              | Pole Gap (mm) |
|---------|-------------------------------------------|------------------------|---------------|
| 1.      | UL 71701                                  | 450 L x 150 W x 100 H  | 15            |
| 2.      | UL 71702                                  | 500 L x 200 W x 100 H  | 15            |
| 3.      | UL 71703                                  | 600 L x 200 W x 100 H  | 15            |
| 4.      | UL 71704                                  | 600 L x 250 W x 100 H  | 15            |
| 5.      | UL 71705                                  | 750 L x 250 W x 100 H  | 15            |
| 6.      | UL 71706                                  | 900 L x 250 W x 100 H  | 15            |
| 7.      | UL 71707                                  | 600 L x 300 W x 100 H  | 15            |
| 8.      | UL 71708                                  | 750 L x 300 W x 100 H  | 15            |
| 9.      | UL 71709                                  | 900 L x 300 W x 100 H  | 15            |
| 10.     | UL 71710                                  | 1000 L x 250 W x 110 H | 15            |
| 11.     | UL 71711                                  | 1000 L x 300 W x 110 H | 15            |
| 12.     | UL 71712                                  | 1500 L x 250 W x 110 H | 15            |
| 13.     | UL 71713                                  | 1500 L x 300 W x 110 H | 15            |
| 14.     | UL 71714                                  | 1500 L x 400 W x 110 H | 15            |
| 15.     | "ULTRA" CONTROL UNIT WITH VARIABLE SUPPLY |                        |               |

**106 SERIES UL - 609**
**"ULTRA" BRAND ELECTRO MAGNETIC SQUARE BLOCK**


- Used as a workpiece holding device for Squareness grinding inspection & light machining.
- Accuracy for Squareness & parallelism is within 0.005mm.
- Front is magnetic face.
- Hardened strips provided on all face except back of magnetic face for wear resistance.
- Operates on 24 VDC, controlled by Mag-D-Mag with variable control unit.
- Easy to operate.
- Saves time as mechanical clamps are avoided.
- DEMAG switch for easy removal of jobs.
- Battery back-up unit is also available on request.

| Sr. No. | Cat No.                                      | Size (mm)       | Magnetic Pull |
|---------|----------------------------------------------|-----------------|---------------|
| 1.      | UL 60901                                     | 110 x 110 x 110 | 125 Kg        |
| 2.      | "ULTRA" MAG D-MAG WITH VARIABLE CONTROL UNIT |                 |               |

**107 SERIES UL - 801**
**"ULTRA" BRAND PLATE TYPE DEMAGNETISERS ( NOT A CONTINUOUS DUTY TYPE )**


- Used for removing surface residual magnetism.
- Operates on 220V single phase AC supply.
- Suitable for all types of steel such as HSS, Nickel chrome, spring steel, die steel etc.
- Foot switch for easy & safely operation.
- Fibre top allows scratch free demagnetization.

| Sr. No. | Cat No.  | Size (mm) |
|---------|----------|-----------|
| 1.      | UL-80101 | 150 x 100 |
| 2.      | UL-80102 | 150 x 150 |
| 3.      | UL-80103 | 150 x 225 |
| 4.      | UL-80104 | 150 x 300 |
| 5.      | UL-80105 | 350 x 350 |

**108 SERIES UL - 803**
**"ULTRA" BRAND MINI DEMAGNETISERS WITH HANDLE**

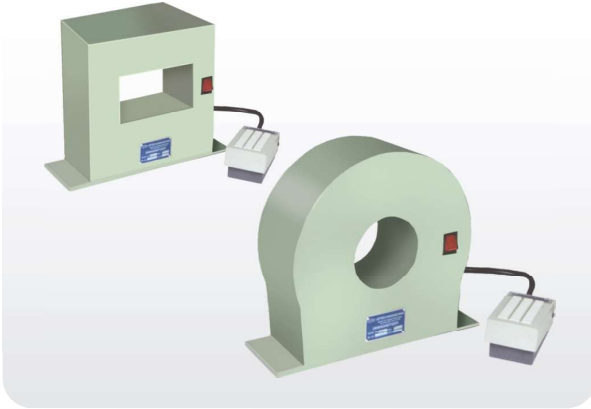

- Used to remove surface residual magnetism from specific area of Dies & moulds parts, punches etc.
- Operates on 220V single phase AC supply.
- Compact design & easy to operate.
- It demagnetizes just by sliding over the surface by pressing single pole momentary switch .

| Sr. No. | Cat No.  | Size (mm)     |
|---------|----------|---------------|
| 1.      | UL-80304 | 150 L x 100 W |
| 2.      | UL-80305 | 150 L x 150 W |



## 109 SERIES UL - 802

### "ULTRA" BRAND COIL TYPE DEMAGNETISERS ( NOT A CONTINUOUS DUTY TYPE)

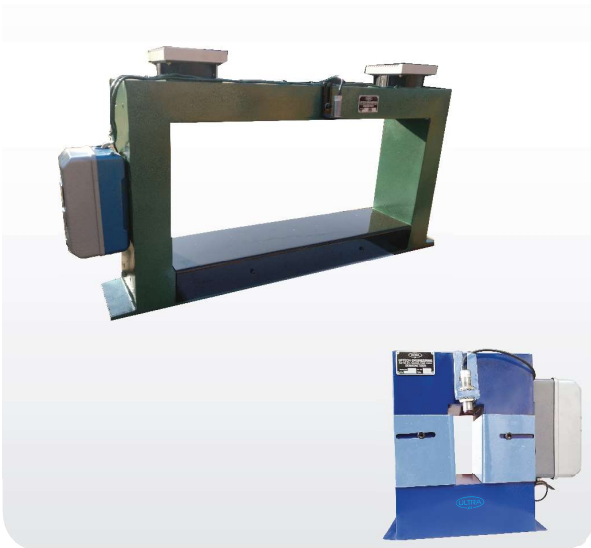


- Used for removing surface residual magnetism of round & cylindrical jobs.
- Operates on 220V single phase AC supply.
- Suitable for all types of steel such as HSS, Nickel chrome, spring steel, die steel etc.
- Foot switch for easy & safely operation.
- Fibre body allows scratch free demagnetization.

| Sr. No. | Cat No.   | Size (mm)        |
|---------|-----------|------------------|
| 1.      | UL- 80201 | Ø 100 bore       |
| 2.      | UL- 80202 | Ø 150 bore       |
| 3.      | UL- 80203 | Ø 200 bore       |
| 4.      | UL- 80204 | Ø 300 bore       |
| 5.      | UL- 80205 | 100 x 100 x 50H  |
| 6.      | UL- 80206 | 200 x 200 x 50H  |
| 7.      | UL- 80207 | 200 x 200 x 100H |

## 110 SERIES UL - 802

### "ULTRA" BRAND TUNNEL TYPE DEMAGNETISER ( CONTINUOUS DUTY TYPE)

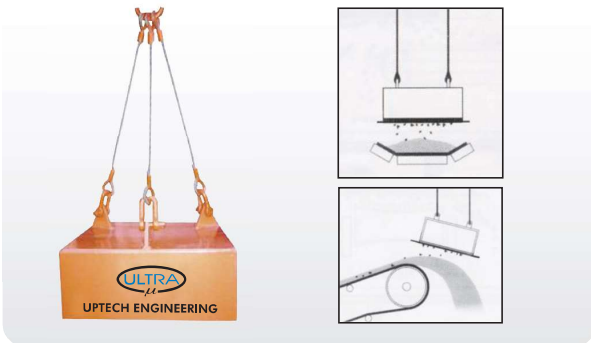


- Used for removing surface residual magnetism of round & square job.
- Operated on 415 volt 2 phase A/c supply.
- Suitable for continuous duty cycle.
- Current 10 amps.
- Fibre body is used for scratch free demagnetising.
- MCB is provided for safety.
- **Special sizes are manufactured as per requirement.**

| Sr. No. | Cat No.  | Size (mm)            |
|---------|----------|----------------------|
| 1.      | UL-80207 | 200 L x 200 W x 80 H |

## 111 SERIES UL - 814

### "ULTRA" BRAND SUSPENSION MAGNET



- Most Effective for **removal at Tramp iron from materials carried over conveyors.**
- It is suspended on the conveyor belt.
- **It is mostly suitable in coal mines, food processing domestic waste cycling plant and material processing Indl. etc.**
- Suspension magnet works on permanent magnetic principle and requires manual cleaning.
- Suspension magnet is designed depend upon customer requirement.

# 112 SERIES UL - 805



## "ULTRA" BRAND PERMANENT MAGNETIC LIFTER

- Used for lifting & handling of steel plates, heavy block & castings as well as heavy round or cylindrical parts.
- The 1 : 3.5 safety factor of the recommended load to the test load ensures use at optimal working conditions even with substantial air gaps & surface conditions.
- Compact design, strong magnetic pull, total work safety
- Easy operated lever for ON-OFF.
- Spring loaded block at side for safety feature.
- Suitable for Flat & Round jobs.
- No damage on job during operation.
- We Also Undertake Calibration with form No. 11 and Repairing of All Types of Permanent Magnetic Lifter



### TASTED CAPACITY 1 : 3.5 TIMES

| Sr. No. | Cat No.    | Size (mm)<br>(Height is without hook) | Lifting Capacity<br>for flat job | Tested Capacity<br>for flat job ( 1 : 3.5 Times ) | Weight |
|---------|------------|---------------------------------------|----------------------------------|---------------------------------------------------|--------|
| 0.      | UL - 80500 | 90 L x 65 W x 85 H                    | 100 Kg                           | 350 Kg                                            | 4 Kg   |
| 1.      | UL - 80501 | 170 L x 85 W x 105 H                  | 200 Kg                           | 700 Kg                                            | 9 Kg   |
| 2.      | UL - 80502 | 170 L x 85 W x 105 H                  | 250 Kg                           | 875 Kg                                            | 9 Kg   |
| 3.      | UL - 80503 | 230 L x 85 W x 105 H                  | 300 Kg                           | 1050 Kg                                           | 13 Kg  |
| 4.      | UL - 80504 | 230 L x 85 W x 105 H                  | 450 Kg                           | 1575 Kg                                           | 14 Kg  |
| 5.      | UL - 80512 | 260 L x 85 W x 105 H                  | 500 Kg                           | 1750 Kg                                           | 14 Kg  |
| 6.      | UL - 80505 | 255 L x 110 W x 130 H                 | 600 Kg                           | 2100 Kg                                           | 25 Kg  |
| 7.      | UL - 80506 | 290 L x 110 W x 130 H                 | 700 Kg                           | 2450 Kg                                           | 30 Kg  |
| 8.      | UL - 80507 | 350 L x 130 W x 135 H                 | 1000 Kg                          | 3500 Kg                                           | 45 Kg  |
| 9.      | UL - 80508 | 395 L x 150 W x 160 H                 | 1500 Kg                          | 5250 Kg                                           | 68 Kg  |
| 10.     | UL - 80509 | 460 L x 170 W x 185 H                 | 2000 Kg                          | 7000 Kg                                           | 103 Kg |

### TASTED CAPACITY 1 : 3 TIMES

| Sr. No. | Cat No.        | Size (mm)<br>(Height is without hook) | Lifting Capacity<br>for flat job | Tested Capacity<br>for flat job ( 1 : 3 Times ) | Weight |
|---------|----------------|---------------------------------------|----------------------------------|-------------------------------------------------|--------|
| 0.      | UL - 80500 / A | 90 L x 65 W x 85 H                    | 100 Kg                           | 300 Kg                                          | 4 Kg   |
| 1.      | UL - 80501 / A | 170 L x 85 W x 105 H                  | 200 Kg                           | 600 Kg                                          | 9 Kg   |
| 2.      | UL - 80502 / A | 170 L x 85 W x 105 H                  | 250 Kg                           | 750 Kg                                          | 9 Kg   |
| 3.      | UL - 80503 / A | 230 L x 85 W x 105 H                  | 300 Kg                           | 900 Kg                                          | 13 Kg  |
| 4.      | UL - 80504 / A | 230 L x 85 W x 105 H                  | 450 Kg                           | 1350 Kg                                         | 14 Kg  |
| 5.      | UL - 80512 / A | 260 L x 85 W x 105 H                  | 500 Kg                           | 1500 Kg                                         | 14 Kg  |
| 6.      | UL - 80505 / A | 255 L x 110 W x 130 H                 | 600 Kg                           | 1800 Kg                                         | 25 Kg  |
| 7.      | UL - 80506 / A | 290 L x 110 W x 130 H                 | 700 Kg                           | 2100 Kg                                         | 30 Kg  |
| 8.      | UL - 80507 / A | 350 L x 130 W x 135 H                 | 1000 Kg                          | 3000 Kg                                         | 45 Kg  |
| 9.      | UL - 80508 / A | 395 L x 150 W x 160 H                 | 1500 Kg                          | 4500 Kg                                         | 68 Kg  |
| 10.     | UL - 80509 / A | 460 L x 170 W x 185 H                 | 2000 Kg                          | 6000 Kg                                         | 103 Kg |
| 11.     | UL - 80510 / A | 555 L x 270 W x 270 H                 | 3000 kg                          | 9000 Kg                                         | 280 Kg |
| 12.     | UL - 80511 / A | 715 L x 350 W x 310 H                 | 5000 kg                          | 15000 Kg                                        | 540 Kg |



### 113 SERIES **UL - 834**

## **"ULTRA" BRAND BATTERY OPERATED ELECTRO PERMANENT MAGNETIC LIFTER**



### FEATURES

- Batteries only work in the moment of magnetization & demagnetization, during the lifting & Handling.
- Maintenance free completely sealed rechargeable batteries
- Inbuilt battery charger.
- Safety Factor: 3 Times.
- Light Weight & Robust construction.
- With battery full charged can switch on/ off approximately 400 times.
- Widely used in the places where the access to power is inconvenient.

### APPLICATION

- It is use on flame cutting machine, Plasma cutting machine, water jet cutting machine etc.
- It is useful for handling small as well as large plates.
- It is suitable for handling Plates & round bars.
- Radio remote control is optional.

| Cat No.  | Flat Load (Kgs) | Battery (VDC) | Charging (VAC) |
|----------|-----------------|---------------|----------------|
| UL-83401 | 500kg           | 2 x 12        | 230            |
| UL-83402 | 1000kg          | 2 x 12        | 230            |
| UL-83403 | 2000kg          | 2 x 12        | 230            |

### 114 SERIES **UL - 817**

## **"ULTRA" BRAND ELECTROPERM MAGNETIC LIFTER ADJUSTABLE TYPE**



### FEATURES

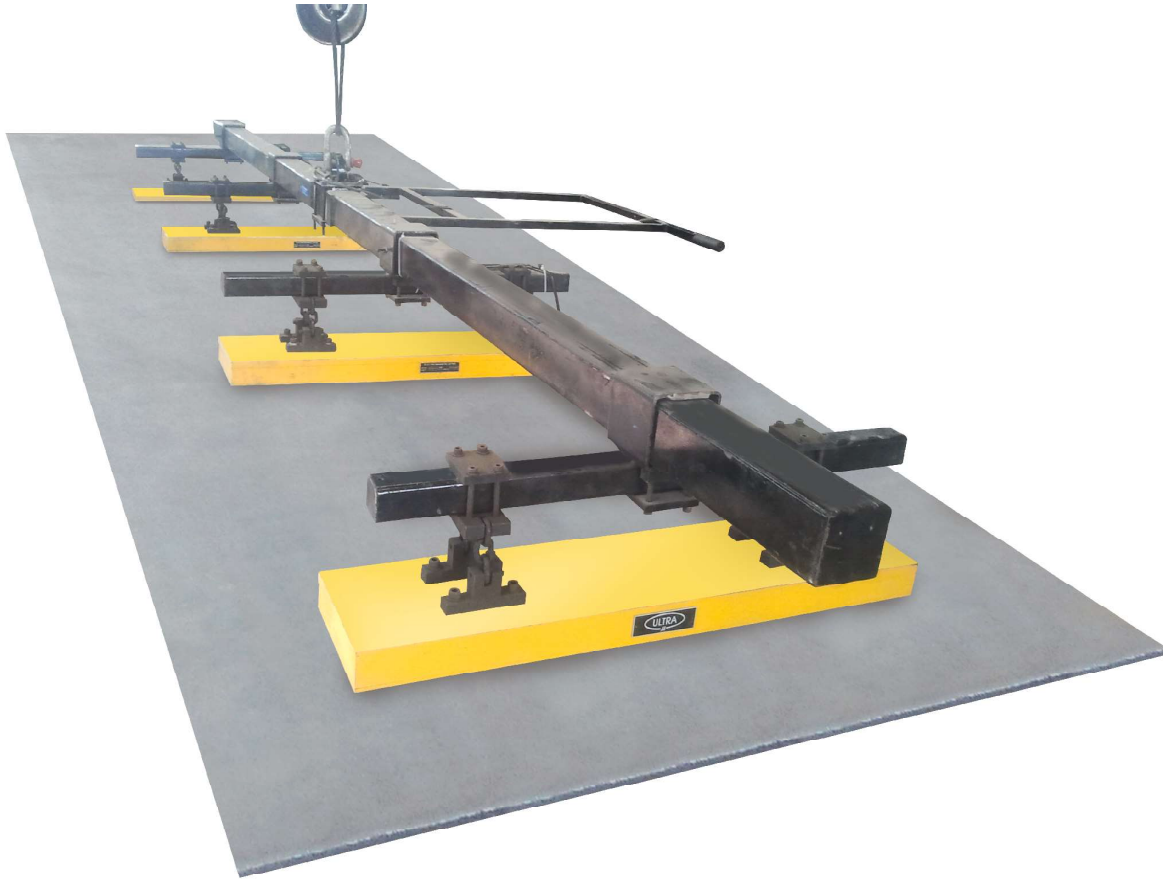
- Electroperm Magnetic Lifter is Designed to lift single bars or pipe.
- Electroperm Magnetic Lifter is having special provision to adjust the angle according to diameter of bars or pipe.
- Electroperm Magnetic Lifter do not required continuous electricity.
- Electroperm Magnetic Lifter can be used in a multiple set if the Length of job is more

### APPLICATION

This type of lifter widely used for lifting round bar or pipe.

### DESIGN

- Designing of Electroperm Magnetic Lifter Depends upon minimum and maximum size of bar or pipe. (Diameter and length)
- Crane Capacity.
- Weight of bar or pipe.



## FEATURES

- Electro Magnetic Lifter is design with the consideration of all Industrial safety knob, therefore they are very compact, light weight, high strength and very reliable safe in use.
- Electro Magnetic Lifter are work on Electricity & require 220V or 415V supply.
- Electro Magnetic Lifter is used with combination of various magnets. At fixed structure with provision of chain .So this will help to handle plain as well as bend sheet, In short it will take care of bendness of sheet
- Inching feature or variable power knob is provided, It ensures that single plate will be lifted.
- Lamp block – Displays the system presents.

## APPLICATION

- It is use on flame cutting machine, plasma cutting machine and water jet cutting machine .
- It is useful for handling small as well as large plates.
- Controller is having opetional facility of battery back up which helps to keep magnet on for 15 minutes.

## DESIGN

- Designing of Electro Magnetic Plate Lifter Depends upon minimum and maximum size of plate ( length X weight X thickness)
- Crane Capacity.
- Weight of Plates.



116 SERIES **UL - 818**

## "ULTRA" BRAND ELECTRO PERMANENT MAGNETIC LIFTER (EPM) For Plate Handling

Plate will not fall even when Electric power fails



**SINGLE BEAM EPM LIFTER**



**DOUBLE BEAM EPM LIFTER**



**MODULAR FLEXIBLE  
EPM LIFTER**

### FEATURES

- EPM lifting magnet is designed with the consideration of all industrial safety knobs. Therefore they are very compact light weight high strength and very reliable and safe in use.
- Electro Perm Magnetic lifter is combination of permanent as well as electro magnet power which is required to clamp the job or declamp the job.
- Lifted plate will not failed down even electric power failed because EPM LIFTER requires power only for holding the plates and declamping the plates. So it is 100% safe for handling the plates.
- Continuous electricity is not required so it having advantage of saving electricity over conventional electro magnetic Lifter.
- Electro permanent magnetic lifter is used with combination of various magnets. At fix structure with provision of chain. So this will help to handle plain as well as bend sheets in short it will take care of bendness of plates.
- Safety interlock key to magnetized / demagnetized. Two buttons are to be press simultaneously with help to avoid chance of accident.
- "Inching" feature - when the magnets is switch ON, it might lift more than a single plate. Inching operation reduces the magnetic power slowly such that additional plates, if lifted are dropped. This is used to make sure that only one plate is handled at time.
- Lamp Block - Displays the systems present state.

### APPLICATION

- Ideal for handling single plate in stockyards.
- Most effective in the ship building industry.
- It is use on flame cutting m/c. plasma cutting m/c and water jet cutting m/c.
- It is useful for handling small as well as large plates.
- EPM Lifter is design as per customer plate sizes.
- Controller is having special facility of selector switch help for lifting small size sheets and large plates.
- It is the EPM lifting system is very suitable with EOT / GANTRY / MOBILE crane etc.

### OPTIONAL UNITS

- Radio Remote Control - Operates from a convenient distance all the function i.e. MAG / DEMAG / Inching.
- ADPREM - Accidental Demagnetization Prevention Mechanism. Disable the demagnetization cycle when carrying load.

### DESIGN

- Designing of EPM Plate Lifter Depends upon minimum and maximum size of plate ( length X weight X thickness)
- Crane Capacity.
- Weight of Plates.

# 117 SERIES UL - 820

## "ULTRA" BRAND ELECTRO Permanent Magnetic Tilting Lifter for Sheets ( Horizontal To Vertical And Vise A Versa )



Plate will not fall even when Electric power fails

### FEATURES

- Electro Permanent Magnets for Handling in Vertical or Horizontal Position.
- EPM lifting magnet is designed with the consideration of all industrial safety knobs. Therefore they are very compact light weight high strength and very reliable and safe in use.
- Electro Perm Magnetic lifter is combination of permanent as well as electro magnet power which is required to clamp the job or declamp the job.
- Lifted plate will not fail down even when electric power fail because EPM LIFTER requires power only a for holding the plates and declamping the plates. So it is 100% safe for handling the plates.
- Continuous electricity is not required so it is having advantage of saving electricity over conventional electro magnetic Lifter.
- Electro permanent magnetic lifter is used with combination of various magnets. At fix structure with provision of chain. So this will help to handle plain as well as bend sheets in short it will take care of bendness of plates.
- Safety interlock key to magnetized / demagnetized. Two buttons are to be press simultaneously with help to avoid chance of accident.
- "Inching" feature - when the magnets is switch ON, it might lift more than a single plate. Inching operation reduces the magnetic power slowly such that additional plates, if lifted are dropped. This is used to make sure that only one plate is handled at a time.
- Lamp Block - Displays the systems present state.
- Spreader beam fitted with suspension systems / Control Panel / Indicative Tower lamp etc.

### APPLICATION

- Ideal for handling single plate in stockyards.
- Most effective in ship building industry.
- It is use on flame cutting m/c. plasma cutting m/c and water jet cutting m/c.
- It is useful for handling small as well as large plates.
- EPM Lifter is design as per customer plate sizes.
- Controller is having special facility of selector switch help for lifting small size sheets and large plates.
- It is the EPM lifting system is very suitable with EOT / GANTRY / MOBILE crane etc.

### OPTIONAL UNITS

- Radio Remote Control - Operates from a convenient distance all the function i.e. MAG / DEMAG / Inching.
- ADPREM - Accidental Demagnetization Prevention Mechanism. Disable the demagnetization cycle when carrying load.

### DESIGN

- Designing of EPM Plate Lifter Depends upon minimum and maximum size of plate ( length X weight X thickness)
- Crane Capacity.
- Weight of Plates.

| Plate Dimensions |       |            |      | Plate Thickness | No of Magnets | Rated Capacity |
|------------------|-------|------------|------|-----------------|---------------|----------------|
| Length (mm)      |       | Width (mm) |      |                 |               |                |
| Min              | Max   | Min        | Max  |                 |               |                |
| 1500             | 6300  | 500        | 2500 | 6 - 35          | 4             | 4000           |
| 3000             | 12500 | 500        | 3000 | 6 - 30          | 4             | 7500           |
| 3000             | 12500 | 500        | 3500 | 6 - 30          | 4             | 10000          |
| 3000             | 12500 | 500        | 3500 | 6 - 40          | 4             | 12000          |
| 3000             | 12500 | 500        | 3500 | 6 - 50          | 6             | 16000          |

Please Specify Min. / Max. Size of the Sheet. (Length x Width x Thickness)



118 SERIES **UL - 827**

## "ULTRA" BRAND CUSTOM MADE MAGNETIC LIFTER (Electrical / Electropermanent)

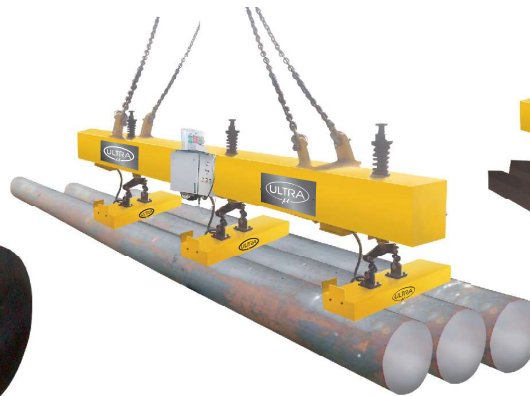
**"ULTRA" EPM Lifter  
for Angles**



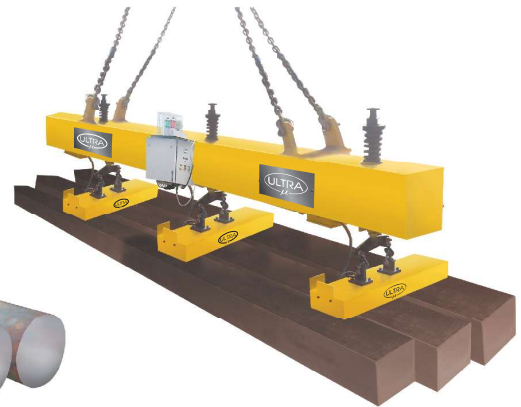
**"ULTRA" EPM Lifter  
for Channel**



**"ULTRA" EPM  
Lifter for Round**



**"ULTRA" EPM Lifter for  
Pipes & Round Bar**



**"ULTRA" EPM  
Lifter for Billets**

| Magnet Execution                                                                                          | Working Principle                 | Lifting Capacity | Magnet Length  | Magnet Width | Applications                                                           |
|-----------------------------------------------------------------------------------------------------------|-----------------------------------|------------------|----------------|--------------|------------------------------------------------------------------------|
| Rectangular magnet<br> | Electro or<br>Electro - Permanent | upto 60 Tons     | upto 2000 mm   | upto 1000 mm | Ingots, Blocks, Single<br>Sheets or Stacks,<br>High temp. Applications |
| 2-Pole magnet<br>      | Electro or<br>Electro - Permanent | upto 8 Tons      | 400 to 1600 mm | 75 to 600 mm | Profiles, Beams, Rounds<br>Long & narrow parts                         |
| Coil Magnet<br>        | Electro or<br>Electro - Permanent | upto 35 Tons     | upto 1600 mm   | upto 1600 mm | Coil eye horizontal &<br>Vertica, Slitted coils                        |
| Bundle Magnet<br>      | Electro                           | upto 10 Tons     | upto 1500 mm   | upto 1000 mm | Bundles, Reinforcing steel,<br>Pipes, Profiles                         |
| Angle Magnet<br>       | Electro                           | upto 6 Tons      | upto 2500 mm   | upto 200 mm  | Angles                                                                 |

**“ULTRA” EPM Lifter for Angles**



**“ULTRA” EPM Lifter for Round**



**“ULTRA” EPM Lifter for Channel**



**“ULTRA” EPM Lifter for Billets**



**“ULTRA” EPM Lifter  
for Pipes & Bar**