



## Ergo-Ball / Flex-Ball Magnetic Clamping Ball:



Ergo-Ball and Flex-Ball  
Magnetic Clamping Ball

## Ergo-Ball

Magnetic clamping balls of the highest quality are used to hold parts during laser welding, polishing and assembly in optimum working position. Depending on the workpiece geometry and weight swing angle can be adjusted up to 90°. The strong RNF magnetic chuck is activated by T-handle wrench on the hexagon supplied. With a rotation of 120° of the key the magnetic chuck is fully activated. For positioning of the workpiece, a partial activation is possible.

The Ergo-Ball is made of anodized Aluminium-ball, in which a fine pin RNF magnetic chuck is installed. The ball lie in the leather lined, chemically nickel-plated steel ring. The Ergo-Ball is available in 4 sizes, with round magnet chucks of 80-160mm diameter.

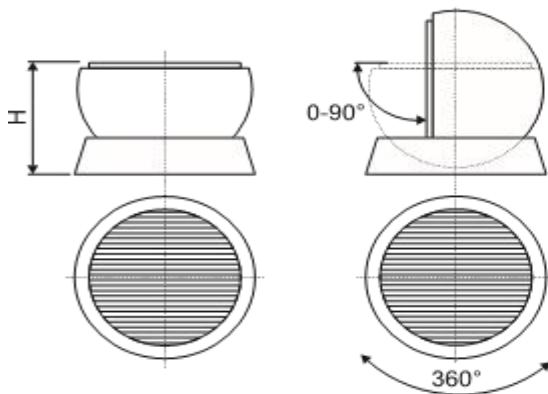
Made for high quality work.



## Magnetic Tools

### ERGO-BALL

### Magnetic Clamping Ball



## Accessories

Precision Vices, as an accessory to the ERGO-BALL Magnetic clamping ball, allows to span and fix non-magnetic parts edgewise. The jaws are equipped with double prism.

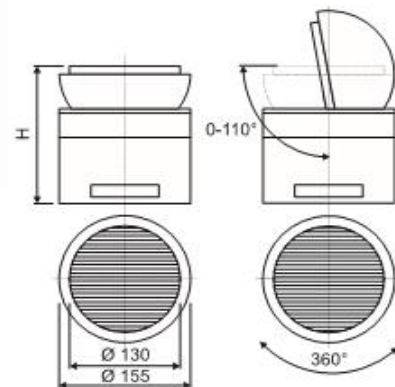


| Model | Item-Nr.     | Dimensions (mm) |        |        |      | Weight (kg) |
|-------|--------------|-----------------|--------|--------|------|-------------|
|       |              | Width           | Length | Height | Span |             |
| PS 30 | 9090 3040100 | 30              | 100    | 40     | 45   | 0,560       |

| Model            | Magnetic circular chuck |                                       |            | Clamping Ball<br>Ø (mm) | Height<br>H (mm)<br>at 0° | Weight<br>Ball (kg) | Weight<br>Holding ring<br>(kg) | Colors<br>available |
|------------------|-------------------------|---------------------------------------|------------|-------------------------|---------------------------|---------------------|--------------------------------|---------------------|
|                  | Ø<br>(mm)               | Holding<br>power<br>N/cm <sup>2</sup> | Pole pitch |                         |                           |                     |                                |                     |
| ERGO-BALL 80 si  | 80                      | 80                                    | 1,5+0,5 mm | 128                     | 104                       | 4                   | 1                              | ✓                   |
| ERGO-BALL 80 sw  | 80                      | 80                                    | 1,5+0,5 mm | 128                     | 104                       | 4                   | 1                              | a.A.                |
| ERGO-BALL 80 bl  | 80                      | 80                                    | 1,5+0,5 mm | 128                     | 104                       | 4                   | 1                              | a.A.                |
| ERGO-BALL 100 si | 100                     | 100                                   | 1,5+0,5 mm | 158                     | 129                       | 7                   | 2                              | ✓                   |
| ERGO-BALL 100 sw | 100                     | 100                                   | 1,5+0,5 mm | 158                     | 129                       | 7                   | 2                              | a.A.                |
| ERGO-BALL 100 bl | 100                     | 100                                   | 1,5+0,5 mm | 158                     | 129                       | 7                   | 2                              | a.A.                |
| ERGO-BALL 130 si | 130                     | 100                                   | 1,5+0,5 mm | 188                     | 145                       | 11                  | 4                              | ✓                   |
| ERGO-BALL 130 sw | 130                     | 100                                   | 1,5+0,5 mm | 188                     | 145                       | 11                  | 4                              | a.A.                |
| ERGO-BALL 130 bl | 130                     | 100                                   | 1,5+0,5 mm | 188                     | 145                       | 11                  | 4                              | a.A.                |
| ERGO-BALL 160 si | 160                     | 100                                   | 1,5+0,5 mm | 218                     | 164                       | 17                  | 5                              | ✓                   |
| ERGO-BALL 160 sw | 160                     | 100                                   | 1,5+0,5 mm | 218                     | 164                       | 17                  | 5                              | a.A.                |
| ERGO-BALL 160 bl | 160                     | 100                                   | 1,5+0,5 mm | 218                     | 164                       | 17                  | 5                              | a.A.                |

## Flex-Ball

Flex-Ball is a switchable permanent magnet for flexible clamping of magnetic workpieces and is suitable for use on milling machines, grinders and particularly to laser welding systems. In any rotating and swivelling ball receiving a switchable permanent magnet is mounted, which serves for clamping of the workpiece. The ball receiving is stored in a switchable permanent magnet shell. This patented arrangement allows hitherto unrealizable degrees of freedom. So angles  $>90^\circ$  can also be adjusted and securely fixed. Owing to limited angle workpiece weights can be spanned up to 100kg. For clamping of the non-magnetic workpieces, a vice or a jaw chuck can also be clamped on the magnetic chuck.



| Model     | Diameter Clamping Magnet (mm) | Diameter Clamping Ball (mm) | Height (mm)  | Holding Power N/cm <sup>2</sup> | Weight (kg) |
|-----------|-------------------------------|-----------------------------|--------------|---------------------------------|-------------|
| Flex-Ball | 130                           | 155                         | 175 (bei 0°) | 80                              | 12          |

\*Other dimensions available on request - supplied with 2 clamping claws and a 6-square-switching key

For further information on this product range please contact us on T: 01525 372714 E: [Sales@LHS.uk.com](mailto:Sales@LHS.uk.com) or view our products in more details at W: [www.LHS.uk.com](http://www.LHS.uk.com)