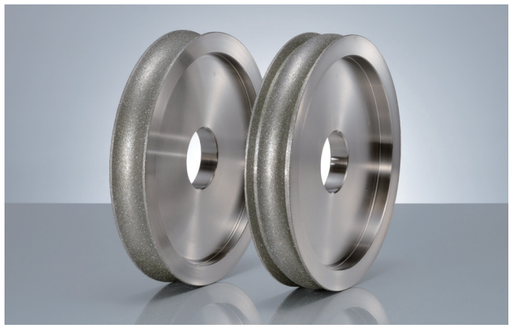
## High Precision Electroplated Wheel FORMASTER

### High Efficiency and High Precision Form Grinding

This is a high precision electroplated wheel realized by our original precision electrodeposition technology and shows excellent shape retention performance and long-lasting sharpness in form grinding. Since truing / dressing on a machine is not required, high precision and high efficiency form grinding is possible.



**Features**

- Contour accuracy is very high.
- Chipping and cracking is reduced.
- Thinner magnet is possible.
- Cutting performance lasts long to enable faster processing.
- Long life is ensured.

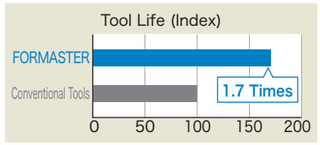
**Applications**

- High efficiency grinding of magnetic materials

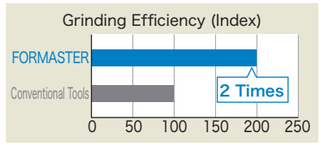
**Machining Examples**

- Magnetic material machining

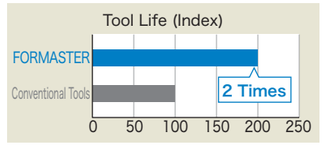
Magnetic Material (Ferrite)




Magnetic Material (Neodymium)




Magnetic Material (Neodymium)




**Shape Measurement Result (After Grain Fixing)**


**Standard Manufacturable Range**

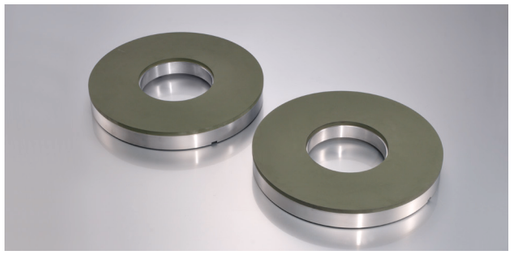
| | |
|---|---|
| Abrasive Grain | Diamond / CBN |
| Grit Size | #60～#170 |
| Tool Diameter | ϕ30～350 |

*Depending on specifications, some wheel designs may be not be manufactured. If you require specific specifications please consult with us.

## Double Disc Wheel

### The Dressing Performance and High Wear Resistance Have Been Realized at a High Level

This is a resin bond wheel that has abrasive grains optimized to improve the retention of sharpness in double-sided surface grinding and the good dressing performance and wear resistance realized simultaneously. The diamond grains used enable high efficiency grinding of magnetic material parts and ceramic parts. The CBN grains used realize excellent performance in grinding ferrous sintered alloy parts.



**Features**

- The long-lasting good sharpness and high dressing performance/wear resistance improve the productivity significantly.

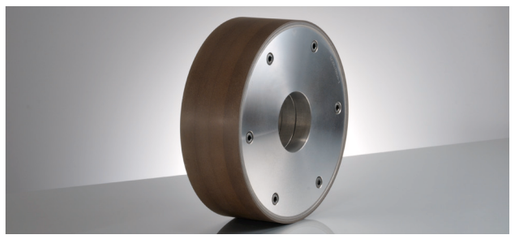
**Applications**

- Mass-production double-sided surface grinding of Magnetic parts, Ceramic parts, Various pump parts, etc.

## Centerless Grinding Wheel

### Excellent Sharpness Sustainability Improved Productivity

Since the bond that has high grain holding power and excellent dressing performance is employed, the sharpness continues for a long time and the grinding efficiency is improved significantly. High productivity possible of OD finishing for magnetic materials and carbide rod blanks.



**Features**

- Processing efficiency is improved because of the durability of sharpness.

**Applications**

- Mass production OD finishing of Round bar material such as Magnetic material, Cemented carbide and Ceramics





## Electroplated Internal Grinding Wheel (Standard)

### Meets Various Grinding Requirements

A combination of a high precision base and precision electrodeposition technology realizes excellent grinding performance.

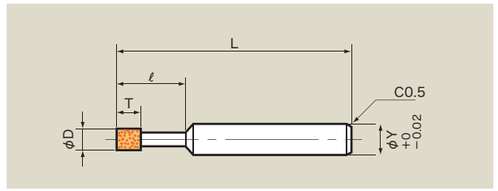
**Features**

- Various grinding requirements can be met.

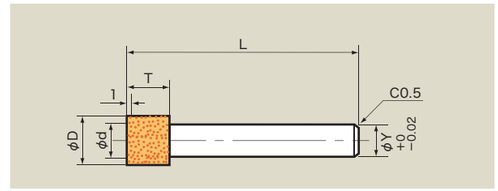
**Applications**

- Finishing holes of Glass, Ceramic materials, Ferrous materials and Cemented carbide

W11 Type Internal Wheel




W12 Type Internal Wheel




| Code | | D | T | ℓ | L | Grit Size |
|---|---|---|---|---|---|---|
| W11003 | SD | 0.3 | 2 | 5 | 35 | #800 |
| W11004 | | 0.4 | | | | #400 |
| W11005 | | 0.5 | | 8 | | |
| W11006 | | 0.6 | 3 | | 40 | #200 |
| W11007 | | 0.7 | | | | |
| W11008 | | 0.8 | | 10 | | |
| W11009 | | 0.9 | | | | |
| W11010 | SD | 1.0 | 3 | 10 | 40 | #200 |
| | LD | | | 15 | | |
| W11012 | SD | 1.2 | 5 | 10 | 45 | #200 |
| | LD | | | 15 | | |
| W11013 | SD | 1.3 | 5 | 10 | 45 | #200 |
| | LD | | | 15 | | |
| W11015 | SD | 1.5 | 5 | 10 | 45 | #200 |
| | LD | | | 17 | | |
| W11017 | SD | 1.7 | 5 | 13 | 45 | #200 |
| | LD | | | 20 | | |
| W11020 | SD | 2.0 | 5 | 13 | 45 | #200 |
| | LD | | | 20 | | |
| W11023 | SD | 2.3 | 5 | 13 | 45 | #200 |
| | LD | | | 20 | | |
| W11025 | SD | 2.5 | 5 | 13 | 45 | #120 |
| | LD | | | 20 | | |
| W11030 | SD | 3.0 | 5 | 15 | 50 | #120 |
| | LD | | | 22 | | |
| W11060※ | SD | 6.0 | 5 | 20 | 65 | #120 |
| | LD | | | 27 | | |

(Y=ϕ3, *Y=ϕ6)

| Code | | D | T | d | L | Y | Grit Size |
|---|---|---|---|---|---|---|---|
| W12035 | SD | 3.5 | 5 | – | 60 | 3 | #120 |
| W12040 | | 4.0 | | – | | | |
| W12045 | | 4.5 | | – | | | |
| W12050 | | 5.0 | 8 | 2 | 70 | 6 | |
| W12060 | | 6.0 | | 3 | | | |
| W12070 | | 7.0 | | 4 | | | |
| W12080 | | 8.0 | | 5 | | | |
| W12090 | | 9.0 | | 6 | | | |
| W12100 | | 10.0 | 10 | 7 | 100 | 10 | |
| W12120 | | 12.0 | | 9 | | | |
| W12150 | | 15.0 | | 12 | | | |

**When Ordering**

- Please instruct Code
- All items are in stock
- Special specifications available upon request.
  Please instruct required sizes
  (ex)W12050 SD L=100, Y=10, .....
- Identification Code
  W12050 SD
  - D=Diamond
  - B=CBN