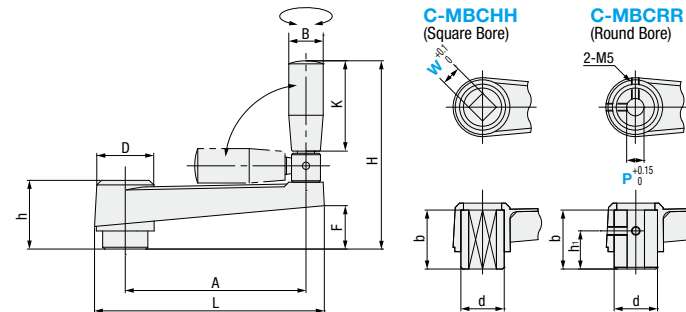


■ Revolving Crank Handles with Square / Round Bore



| Type                  | Lever      |                    | Handle                                |                     | Bushing                               |                     | Handle Thread |                     |
|-----------------------|------------|--------------------|---------------------------------------|---------------------|---------------------------------------|---------------------|---------------|---------------------|
|                       | M Material | M Material         | M Material                            | S Surface Treatment | M Material                            | S Surface Treatment | M Material    | S Surface Treatment |
| C-MBCHH (Square Bore) | PA6        | Polypropylene (PP) | Carbon Steel for Mechanical Structure | Black Oxide         | Carbon Steel for Mechanical Structure | Zinc Plating        |               |                     |
| C-MBCRR (Round Bore)  |            |                    |                                       |                     |                                       |                     |               |                     |



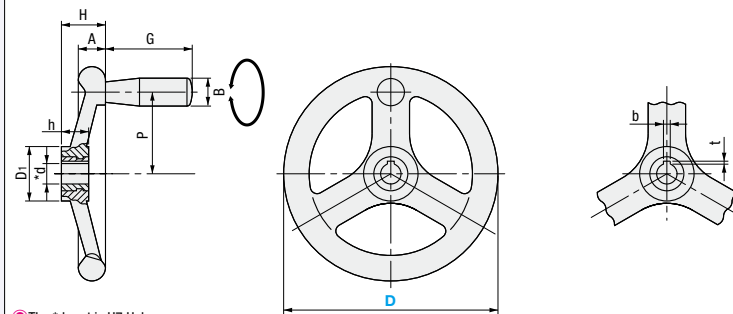
| Part Number           |                                  | L  | A   | H   | h   | D  | K  | F  | B  | b  | d  | h1 | Reference Mass (g) | Unit Price |
|-----------------------|----------------------------------|----|-----|-----|-----|----|----|----|----|----|----|----|--------------------|------------|
| Type                  | W (Square Bore) / P (Round Bore) |    |     |     |     |    |    |    |    |    |    |    |                    |            |
| C-MBCHH (Square Bore) | 12                               | -  | 127 | 100 | 104 | 38 | 34 | 50 | 24 | 19 | 34 | 25 | -                  | 200        |
|                       | 14                               | -  | 156 | 125 | 131 | 46 | 40 | 63 | 30 | 23 | 42 | 30 | -                  | 320        |
|                       | 17                               | -  | 195 | 160 | 157 | 55 | 44 | 80 | 36 | 26 | 50 | 34 | -                  | 530        |
| C-MBCRR (Round Bore)  | -                                | 12 | 127 | 100 | 104 | 38 | 34 | 50 | 24 | 19 | 34 | 25 | 6                  | 200        |
|                       | -                                | 14 | 156 | 125 | 131 | 46 | 40 | 63 | 30 | 23 | 42 | 30 | 6                  | 320        |
|                       | -                                | 16 | 195 | 160 | 157 | 55 | 44 | 80 | 36 | 26 | 50 | 34 | 8                  | 530        |

Ordering Example  
Part Number  
C-MBCHH12

■ Spoked Handwheel



| Type   | Handwheel    |              | Handle                                |                     | Handle Thread                         |                     | Bushing    |                     |
|--------|--------------|--------------|---------------------------------------|---------------------|---------------------------------------|---------------------|------------|---------------------|
|        | M Material   | M Material   | M Material                            | S Surface Treatment | M Material                            | S Surface Treatment | M Material | S Surface Treatment |
| C-PHLK | Phenol Resin | Phenol Resin | Carbon Steel for Mechanical Structure | Zinc Plating        | Carbon Steel for Mechanical Structure | Zinc Plating        |            |                     |



The \*d part is H7 Hole.

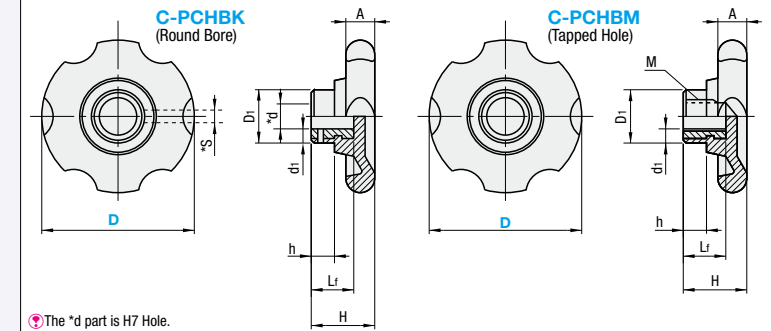
| Part Number |     | H    | A    | h  | D1   | d  | P  | B  | G   | b | t   | Reference Mass (g) | Unit Price |
|-------------|-----|------|------|----|------|----|----|----|-----|---|-----|--------------------|------------|
| Type        | D   |      |      |    |      |    |    |    |     |   |     |                    |            |
| C-PHLK      | 100 | 29   | 17   | 18 | 34   | 12 | 40 | 19 | 50  | 4 | 1.8 | 200                |            |
|             | 125 | 29   | 20   | 18 | 34   | 12 | 48 | 21 | 63  | 4 | 1.8 | 330                |            |
|             | 160 | 36.5 | 22.5 | 20 | 40   | 16 | 68 | 26 | 80  | 5 | 2.3 | 485                |            |
|             | 200 | 44   | 25   | 25 | 51   | 18 | 83 | 26 | 80  | 6 | 2.8 | 780                |            |
|             | 250 | 48.5 | 28   | 28 | 56.5 | 25 | 98 | 26 | 100 | 8 | 3.3 | 980                |            |

Ordering Example  
Part Number  
C-PHLK100

■ Wave Form Handwheel



| Type                  | Handwheel    |                                       | Bushing        |                     |
|-----------------------|--------------|---------------------------------------|----------------|---------------------|
|                       | M Material   | M Material                            | M Material     | S Surface Treatment |
| C-PCHBK (Round Bore)  | Phenol Resin | Carbon Steel for Mechanical Structure |                |                     |
| C-PCHBM (Tapped Hole) |              |                                       | Brass (Insert) |                     |



The \*d part is H7 Hole.  
The photo image on the lower part is only for D=100.  
The \*S part is Dowel Pin Hole. For dowel pins, select the applicable product on P.255 or procure it separately from this catalog.

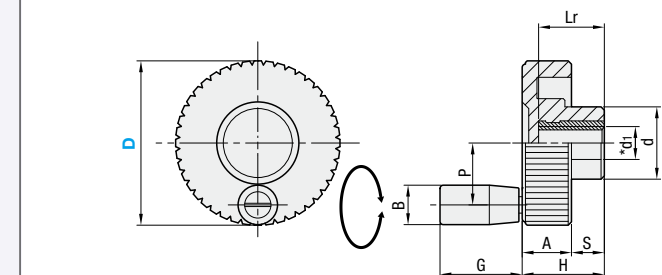
| Part Number           |     | A  | H  | Lr | h   | D1 | d  | M  | S | d1 | Reference Mass (g) | Unit Price |
|-----------------------|-----|----|----|----|-----|----|----|----|---|----|--------------------|------------|
| Type                  | D   |    |    |    |     |    |    |    |   |    |                    |            |
| C-PCHBK (Round Bore)  | 50  | 12 | 32 | 16 | 12  | 23 | 8  | -  | 3 | 7  | 43                 |            |
|                       | 63  | 15 | 32 | 20 | 9.7 | 26 | 10 | -  | 3 | 8  | 60                 |            |
|                       | 80  | 18 | 38 | 25 | 13  | 34 | 12 | -  | 4 | 11 | 119                |            |
|                       | 100 | 20 | 47 | 28 | 16  | 36 | 16 | -  | 4 | 11 | 193                |            |
| C-PCHBM (Tapped Hole) | 50  | 12 | 31 | 20 | 12  | 22 | -  | 8  | - | 9  | 34                 |            |
|                       | 63  | 15 | 32 | 20 | 9.7 | 26 | -  | 10 | - | 9  | 61                 |            |
|                       | 80  | 18 | 38 | 25 | 13  | 34 | -  | 12 | - | 12 | 130                |            |
|                       | 100 | 20 | 46 | 28 | 16  | 36 | -  | 16 | - | 11 | 196                |            |

Ordering Example  
Part Number  
C-PCHBK50

■ Knurled Plastic Handwheel



| Type   | Body       |            | Bushing                          |                                       | Handle (Plastic Part) |                     | Handle (Thread) |                     |
|--------|------------|------------|----------------------------------|---------------------------------------|-----------------------|---------------------|-----------------|---------------------|
|        | M Material | M Material | M Material                       | S Surface Treatment                   | M Material            | S Surface Treatment | M Material      | S Surface Treatment |
| C-CHBK | Nylon 6    | Brass      | Phenolic molding compounds PF2A2 | Carbon Steel for Mechanical Structure |                       |                     |                 |                     |



The \*d part is H7 Hole.

| Part Number |    | H    | A    | S  | d    | d1 | Lr | P  | B  | G  | Mass (g) | Unit Price |
|-------------|----|------|------|----|------|----|----|----|----|----|----------|------------|
| Type        | D  |      |      |    |      |    |    |    |    |    |          |            |
| C-CHBK      | 50 | 25   | 17   | 8  | 20.5 | 6  | 18 | 18 | 15 | 25 | 35       |            |
|             | 60 | 29.5 | 19.5 | 10 | 23.2 | 8  | 20 | 22 | 15 | 25 | 55       |            |

Ordering Example  
Part Number  
C-CHBK50