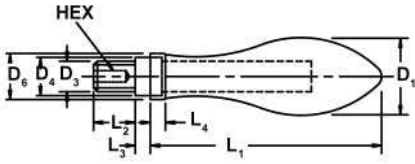
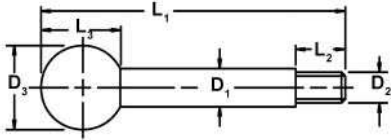


# Machine Handles



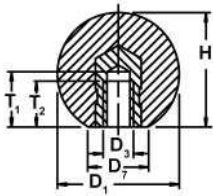
## ROTATING BALL GRIP (DIN 98) ALUMINUM

| PART NO.   | D <sub>1</sub> | D <sub>3</sub> | D <sub>4</sub> (H13) | D <sub>5</sub> | L <sub>1</sub> | L <sub>2</sub> | L <sub>3</sub> | L <sub>4</sub> | HEX |
|------------|----------------|----------------|----------------------|----------------|----------------|----------------|----------------|----------------|-----|
| HRBG M6 A  | 16             | M 6            | 10                   | 14             | 49             | 11             | 5.5            | 5              | 3   |
| HRBG M8 A  | 20             | M 8            | 13                   | 18             | 61             | 13             | 6              | 6              | 4   |
| HRBG M10 A | 25             | M 10           | 16                   | 21             | 75             | 14             | 8              | 6.5            | 5   |
| HRBG M12 A | 32             | M 12           | 20                   | 26             | 95             | 21             | 10.5           | 8              | 6   |
| HRBG M16 A | 36             | M 16           | 22                   | 29             | 106            | 26             | 11             | 9              | 8   |



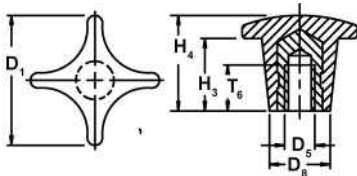
## BALL LEVER, STEEL WITH HARD PLASTIC KNOB

| PART NO. | D <sub>1</sub> | D <sub>2</sub> | D <sub>3</sub> | L <sub>1</sub> | L <sub>2</sub> | L <sub>3</sub> |
|----------|----------------|----------------|----------------|----------------|----------------|----------------|
| HBL M6   | 8              | M 6            | 20             | 89             | 9              | 18             |
| HBL M8   | 10             | M 8            | 25             | 111            | 11             | 22.5           |
| HBL M10  | 12             | M 10           | 32             | 139            | 14             | 29             |
| HBL M12  | 14             | M 12           | 35             | 176            | 16             | 32.5           |



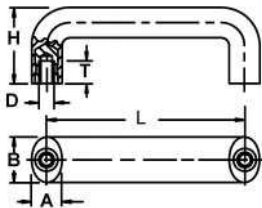
## BALL KNOB (DIN 319) HARD PLASTIC WITH STEEL INSERT

| PART NO. | D <sub>1</sub> | D <sub>3</sub> | H    | D <sub>7</sub> | T <sub>1</sub> | T <sub>2</sub> |
|----------|----------------|----------------|------|----------------|----------------|----------------|
| HBK M4   | 16             | M4             | 15   | 8              | 7.2            | 6              |
| HBK M5   | 20             | M5             | 18   | 12             | 9.1            | 7.5            |
| HBK M6   | 25             | M 6            | 22.5 | 15             | 11             | 9              |
| HBK M8   | 32             | M 8            | 29   | 18             | 14.5           | 12             |
| HBK M10  | 40             | M 10           | 37   | 22             | 18             | 15             |
| HBK M12  | 50             | M 12           | 46   | 27             | 21             | 18             |



## CROSS KNOB (DIN 6335) HARD PLASTIC WITH STEEL INSERT

| PART NO. | D <sub>1</sub> | D <sub>5</sub> | D <sub>8</sub> | H <sub>3</sub> | H <sub>4</sub> | T <sub>6</sub> |
|----------|----------------|----------------|----------------|----------------|----------------|----------------|
| HCK M4   | 20             | M4             | 10             | 6              | 13             | 7.5            |
| HCK M5   | 25             | M5             | 12             | 8              | 16             | 9.5            |
| HCK M6   | 32             | M 6            | 14             | 10             | 20             | 12             |
| HCK M8   | 40             | M 8            | 18             | 13             | 25             | 14             |
| HCK M10  | 50             | M 10           | 22             | 20             | 32             | 18             |
| HCK M12  | 63             | M 12           | 26             | 25             | 40             | 22             |
| HCK M16  | 80             | M 16           | 35             | 30             | 50             | 30             |



## BAR HANDLE, HARD PLASTIC WITH STEEL INSERT

| PART NO.   | L ±0.5 | A  | B  | D   | H  | T  |
|------------|--------|----|----|-----|----|----|
| HBH M6     | 86     | 17 | 26 | M 6 | 43 | 12 |
| HBH M8X117 | 117    | 20 | 30 | M 8 | 54 | 13 |
| HBH M8X179 | 179    | 20 | 30 | M 8 | 62 | 13 |