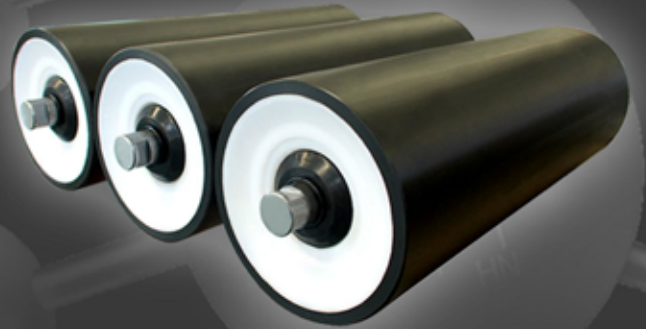


# HDPE ROLLERS



## ADVANTAGES OF HDPE ROLLERS



**Wear and impact resistance:** Due to its high density molecular characteristics, HDPE rollers have high hardness and strong rigidity, and their wear resistance is 4-5 times higher than that of steel rollers, effectively reducing belt wear and extending equipment maintenance cycle.



**Good self-lubrication:** The self-lubricating function of HDPE rollers effectively reduces belt friction and improves conveying efficiency.



**Absorbed impact energy :** HDPE roller can absorb impact energy, reduce the damage caused by falling or hard object impact on the belt, and improve the service life of the roller.



**Corrosion resistance:** At room temperature, insoluble in any organic solvent, resistant to acid, alkali and various salts corrosion, adapt to all kinds of corrosive environment.



**Not easy to absorb water:** HDPE roller is not easy to adhere to materials, and is not easy to absorb water, which can ensure the stability of size and performance in wet environment.



**Independently developed waterproof and dustproof seal, good sealing effect and longer service life.**

## Performance comparison table

| Radial run-out (mm)       | Radial runout index comparison | Roller length |           | GB/T10595 |        | MY  |
|---------------------------|--------------------------------|---------------|-----------|-----------|--------|-----|
|                           |                                |               | <550      | 0.5       |        | 0.2 |
|                           |                                |               | ≥550~950  | 0.7       |        | 0.3 |
|                           |                                |               | ≥950~1600 | 1.3       |        | 0.7 |
|                           |                                |               | >1600     | 1.7       |        | 1.3 |
| Rotational resistance (N) | Rotation resistance comparison |               | GB/T10595 |           | MY     |     |
|                           | Dia≤108                        |               | 2.5N      |           | 1.5N   |     |
|                           | Dia>108                        |               | 3N        |           | 2N     |     |
| Axial load (KN)           | Axial load comparison          |               | GB/T10595 |           | MY     |     |
|                           | Shaft diameter                 | d≤20          | 10KN      |           | 15KN   |     |
|                           |                                | 25≤d≤35       | 15KN      |           | 20KN   |     |
|                           |                                | d≥40          | 20KN      |           | 25KN   |     |
| Axial movement (mm)       | Axial movement comparison      |               | GB/T10595 |           | MY     |     |
|                           |                                |               | ≤0.7mm    |           | ≤0.3mm |     |
| Watering seal (g)         | Waterproof comparison          |               | GB/T10595 |           | MY     |     |
|                           |                                |               | ≤150g     |           | ≤10g   |     |

## Diameter and bearing comparison

|         | Pipe diameter |     |     |     |     |     |     |     |     |
|---------|---------------|-----|-----|-----|-----|-----|-----|-----|-----|
| Bearing | 89            | 102 | 108 | 114 | 127 | 133 | 152 | 159 | 194 |
| 6204    | ✓             | ✓   | ✓   | ✓   | ✓   |     |     |     |     |
| 6205    | ✓             | ✓   | ✓   | ✓   | ✓   | ✓   | ✓   |     |     |
| 6306    |               |     |     |     |     | ✓   | ✓   | ✓   |     |
| 6307    |               |     |     |     |     |     | ✓   | ✓   |     |
| 6308    |               |     |     |     |     |     | ✓   | ✓   | ✓   |
| 6309    |               |     |     |     |     |     |     |     | ✓   |
| 6310    |               |     |     |     |     |     |     |     | ✓   |

Other specifications can be customized according to customer needs

★ Flame retardant and antistatic rollers can be customized