

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
Rotational resistance (N)	Rotation resistance comparison		>1600	1.7	1.3
				GB/T10595	MY
			Dia≤108	2.5N	1.5N
			Dia>108	3N	2N
Axial load (KN)	Shaft diameter	Axial load comparison		GB/T10595	MY
		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

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