

Brake Pads

Working Principle:

By generating resistance through friction, the pressure in the braking system is converted into friction, causing the brake pads to clamp the brake disc or drum, converting the kinetic energy of industrial equipment into thermal energy, thereby achieving deceleration or stopping motion.

Performance Requirements:

- High friction coefficient: A sufficiently high friction coefficient is necessary to quickly and effectively slow down the equipment speed during braking, ensuring sufficient braking force under different working conditions such as high speed and heavy load.
- High temperature resistance: Industrial equipment generates a large amount of heat during the braking process, and brake pads need to have strong high temperature resistance to prevent performance degradation or thermal degradation caused by high temperatures.
- Wear resistance: Due to long-term friction between brake pads and brake wheels or discs, good wear resistance is the key to ensuring that they can maintain good braking performance after long-term use.
- Low noise and comfort: During the braking process, minimizing noise as much as possible can not only improve the working environment, but also help determine the operating status of the equipment.
- Environmental friendliness: With the increasing demand for environmental protection, the material selection of brake pads tends to be more environmentally friendly, reducing pollution to the environment.

Detailed parameters:

Z4 series dimensions

Product Name	Width	Thickness	Chord length	Arc length
Z4-Φ100	70	5±0.2	63 ^{+0.8}	67 ⁺¹
Z4-Φ150	90	6±0.2	93 ^{+0.8}	99 ⁺¹
Z4-Φ200	90	8±0.2	124 ^{+0.8}	132 ⁺¹
Z4-Φ300	140	10±0.2	183.5 ^{+0.8}	195 ⁺¹
Z4-Φ400	180	10±0.2	241 ^{+0.8}	256 ^{+1.3}
Z4-Φ600	240	12±0.3	358 ^{+1.2}	381 ^{+1.5}
Z4-Φ700	280	12±0.3	415.3 ^{+1.2}	442 ^{+1.5}

Z5 series dimensions

Product Name	Width	Thickness	Chord length	Arc length
Z5-Φ160	65	6±0.2	98.7 ^{+0.7}	105 ⁺¹
Z5-Φ200	80	8±0.2	124 ^{+0.8}	132 ⁺¹
Z5-Φ250	100	8±0.2	152 ^{+0.9}	162 ⁺¹
Z5-Φ300	125	10±0.2	183.5 ^{+0.9}	195 ⁺¹
Z5-Φ315	125	10±0.2	192.5 ^{+0.9}	205 ^{+1.15}
Z5-Φ400	160	10±0.2	240.4 ⁺¹	256 ^{+1.3}
Z5-Φ500	200	12±0.2	300.6 ⁺¹	320 ^{+1.3}
Z5-Φ630	250	12±0.25	375.5 ^{+1.2}	400 ^{+1.4}
Z5-Φ710	280	15±0.25	424.2 ^{+1.5}	452 ^{+1.55}
Z5-Φ800	320	15±0.3	476 ^{+1.5}	507 ^{+1.75}

Z8 series dimensions

Product Name	Width	Groove width	Thickness	Platform thickness	Chord length	Arc length
Z8-Φ200	90	80 _{-0.5}	11±0.2	3 ^{+0.3}	127.7 ^{+0.8}	136 ^{+1.2}
Z8-Φ300	140	128 _{-0.5}	13±0.2	3 ^{+0.3}	187 ⁺¹	199 ^{+1.2}
Z8-Φ400	180	166 _{-0.5}	14±0.2	4 ^{+0.3}	245 ⁺¹	261 ^{+1.3}
Z8-Φ600	240	224 _{-0.5}	17±0.25	5 ^{+0.3}	363.4 ^{+1.2}	387 ^{+1.5}
Z8-Φ700	280	260 _{-0.5}	17±0.25	5 ^{+0.3}	421 ^{+1.3}	448 ^{+1.5}

Z9 series dimensions

Product Name	Width	Groove width	Thickness	Platform thickness	Chord length	Arc length
Z9-Φ200	80	70 _{-0.5}	11±0.2	3 ^{+0.3}	127.7 ^{+0.8}	136 ⁺¹
Z9-Φ250	100	90 _{-0.5}	11±0.2	3 ^{+0.3}	156 ^{+0.8}	166 ⁺¹
Z9-Φ300	125	113 _{-0.5}	13±0.2	3 ^{+0.3}	187 ⁺¹	199 ^{+1.2}
Z9-Φ315	125	113 _{-0.5}	13±0.2	3 ^{+0.3}	195.3 ⁺¹	208 ^{+1.2}
Z9-Φ400	160	146 _{-0.5}	14±0.2	4 ^{+0.3}	245 ⁺¹	261 ^{+1.3}
Z9-Φ500	200	186 _{-0.5}	16±0.2	4 ^{+0.3}	305.2 ⁺¹	325 ^{+1.3}
Z9-Φ600	240	224 _{-0.5}	17±0.25	5 ^{+0.3}	363.4 ^{+1.2}	387 ^{+1.5}
Z9-Φ630	250	234 _{-0.5}	17±0.25	5 ^{+0.3}	380.4 ^{+1.2}	405 ^{+1.5}
Z9-Φ710	280	262 _{-0.5}	20±0.3	5 ^{+0.3}	430 ^{+1.3}	458 ^{+1.5}

Application fields:

- Mining machinery: such as mine hoists, mine winches, etc., used to control the operation and stop of equipment, ensuring the safety and efficiency of mining production.
- Construction machinery: including excavators, loaders, bulldozers, cranes, etc., which achieve braking and deceleration of equipment in various complex engineering operations to ensure operational safety.
- Wind power generation equipment: used for wind power high-speed shaft brakes, wind power yaw brakes, etc., to control the operation and shutdown of wind turbines, ensuring the stable operation of power generation equipment.
- Metal processing equipment, such as rolling mills, punching machines, etc., achieve rapid braking of the equipment during the metal processing, improve processing accuracy and production efficiency.