Pengsheng Forging

Focus on crane hook production for decades

CRANE WHEEL

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Crane wheels are a crucial component of lifting systems, significantly impacting the operational efficiency and safety of cranes. Our crane wheels are manufactured using forging and heat treatment processes, resulting in exceptional strength, load-bearing capacity, and wear resistance. They are designed to perform reliably in various extreme environments and meet the demands of different application scenarios. They are widely used in construction sites, metallurgy, mining, and other heavy-duty industrial applications, providing robust support and reliable performance. We offer a variety of specifications and sizes, including single-flange, double-flange, and flangeless options. Additionally, we provide customised solutions to meet your specific requirements.

Our forged crane wheels are made from high-quality alloy steel materials, including 45#, 65Mn, and 42CrMo alloy steels.

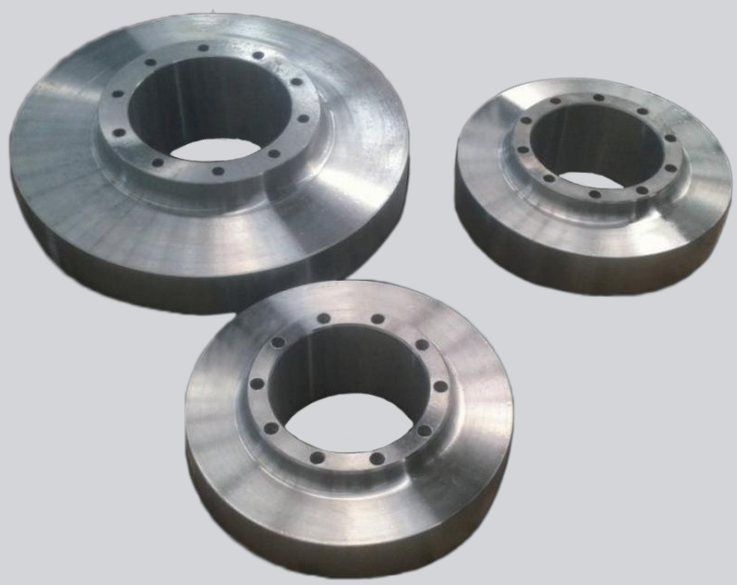
- **45# Carbon Structural Steel:** Offers excellent high strength and toughness.
- **65Mn High-Carbon Spring Steel:** Provides outstanding wear resistance and fatigue strength.
- **42CrMo Alloy Steel:** Features excellent hardness and load-bearing capacity.

You can choose any of our materials for forging. After heat treatment, our forged wheels can be used at any surface hardness level, with a maximum of 62 RC. Here is our range:

- **Rim Toughened (34-40 RC)**
- **Deep Hardened (Up to 62 RC)**
- **Differentially Hardened (Up to 62 RC)**

We use a forging process, which, compared to traditional casting processes, utilises pressure to plastically deform metal at the appropriate forging temperature, resulting in a dense metal structure, eliminating internal defects, and improving mechanical properties. This enhances the load-bearing capacity, tensile strength, and fatigue resistance of crane wheels, thereby extending their service life and reducing maintenance costs.

After forging, each of our crane wheels undergoes heat treatment to ensure that the tread and flange possess the necessary toughness and excellent load-bearing capacity to resist fracture.



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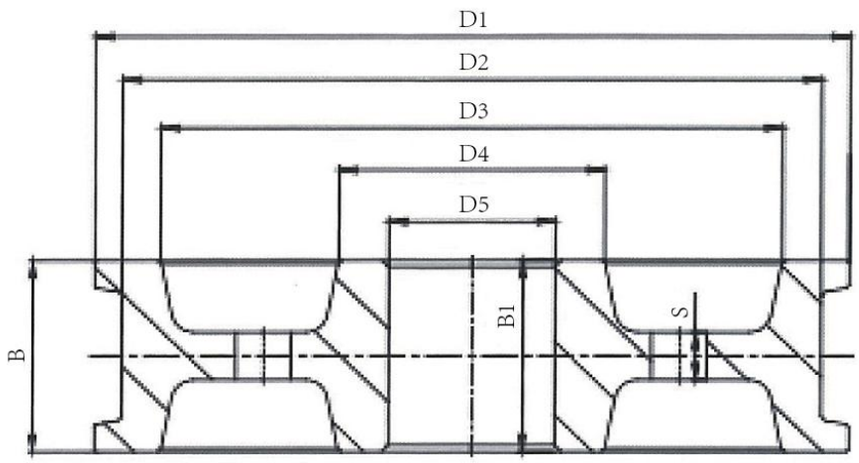

- Heat treatment: quenching, normalising, tempering.
- Flange type: single flange,double flange, no flange.
- Yield strength: σs (Mpa) ≥ 400.
- Elongation: δ5 (%) ≥ 15.

Main dimensions(mm)							
D1	D2	D3	D4	D5	B	B1	S
Φ440	Φ400	Φ340	Φ170	Φ100	160	160	40
Φ540	Φ500	Φ440	Φ190	Φ110	160	160	40
Φ540	Φ500	Φ450	Φ205	Φ130	160	140	30
Φ540	Φ500	Φ420	Φ210	Φ130	160	160	50
Φ540	Φ500	Φ450	Φ235	Φ150	210	160	45
Φ640	Φ600	Φ550	Φ175	Φ100	160	130	35
Φ640	Φ600	Φ530	Φ192	Φ105	160	160	40
Φ650	Φ600	Φ550	Φ205	Φ130	160	140	35
Φ650	Φ600	Φ560	Φ235	Φ130	210	150	40
Φ680	Φ630	Φ560	Φ240	Φ150	180	180	45
Φ680	Φ630	Φ550	Φ250	Φ150	210	210	60
Φ680	Φ630	Φ540	Φ310	Φ200	210	210	15
Φ700	Φ700	Φ620	Φ300	Φ185	190	200	50
Φ700	Φ650	Φ550	Φ290	Φ180	200	180	60
Φ750	Φ700	Φ630	Φ235	Φ150	160	160	45
Φ750	Φ700	Φ650	Φ235	Φ150	210	150	45
Φ750	Φ700	Φ620	Φ265	Φ155	210	150	50
Φ750	Φ700	Φ620	Φ300	Φ150	210	210	65
Φ760	Φ710	Φ590	Φ275	Φ175	210	150	60
Φ760	Φ800	Φ620	Φ300	Φ200	210	150	65
Φ850	Φ800	Φ720	Φ265	Φ160	160	160	50
Φ850	Φ800	Φ700	Φ275	Φ175	210	150	60
Φ850	Φ800	Φ680	Φ320	Φ170	210	210	70

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