



CKA Birla Group

NBC PowerPull Hydraulic Pullers

Controlled Force. Engineered Precision. Zero Compromise.

In modern industry, reliability is not optional - it is engineered.

Yet, a significant portion of equipment failures originate not during operation, but during maintenance. Studies indicate that 16–20% of premature bearing failures are directly linked to improper mounting and dismantling practices. Uncontrolled methods such as hammering, uneven force application, and localized heating introduce:

- Shaft scoring and deformation
- Residual stresses and misalignment
- Bearing seat damage
- Reduced service life of critical components

These inefficiencies translate into higher downtime, increased maintenance cost, and compromised safety.

NBC Engineering Solution

NBC PowerPull Hydraulic Pullers are engineered to deliver precise, uniform, and controlled extraction force, enabling safe removal of interference-fitted components without inducing mechanical damage.

By replacing conventional methods with hydraulic precision, PowerPull ensures:

- ✓ Damage-free dismantling
- ✓ Reduced maintenance time
- ✓ Enhanced operator safety
- ✓ Extended equipment reliability

Built for Indian and global industrial conditions, PowerPull reflects NBC's commitment to engineering excellence beyond bearings.

Application Versatility

Designed for multi-industry usage, PowerPull adapts seamlessly across maintenance environments:

Industries

- ✓ Steel & Heavy Engineering
- ✓ Railways & Transportation
- ✓ Power Generation
- ✓ Cement & Mining
- ✓ Textile & Process Industries

Component Removal

Bearings (Deep Groove, Spherical, Tapered) • Gears & Pinions • Couplings
Pulleys • Bushes & Bobbin Chucks



From Risk to Reliability

Conventional Methods

- ✓ Impact-based force (hammering)
- ✓ Misalignment and uneven load
- ✓ High risk of component damage
- ✓ Operator-dependent results

NBC PowerPull

- ✓ Controlled hydraulic force
- ✓ Self-aligned load application
- ✓ Repeatable and safe operation
- ✓ Engineered consistency

Engineered Features

- **High-Capacity Hydraulic System**
Generates powerful, controlled extraction force with minimal effort
- **Integral & Split-Type Configurations**
Flexible deployment for field service and heavy industrial applications
- **Optimized Stroke Design (65–75 mm)**
Ensures effective pull range across varied applications
- **Precision 3-Jaw Mechanism**
Maintains balanced load distribution and secure grip
- **Integrated Safety Architecture**
 - Overload protection
 - Controlled pressure release
 - Stable operation under high load
- **Hydraulic Compatibility**
Designed for ISO VG 32 / VG 46 oils

Operational Advantages

Reduced Downtime
Faster, controlled dismounting minimizes maintenance delays

Enhanced Equipment Life
Eliminates damage to shafts, housings, and mating components

Operator Safety
Removes dependency on unsafe manual methods

Consistent Performance
Repeatable, precision-driven results across applications

Multi-Application Capability
Single solution across diverse industrial needs

Range Availability

Model	Capacity	Lateral Max Distance	Longitudinal Max Distance	Max Stroke	Weight
NBC PowerPull 5T	5 Ton	200 mm	140 mm	50 mm	7.5 kg
NBC PowerPull 10T	10 Ton	250 mm	160 mm	50 mm	11.0 kg
NBC PowerPull 15T	15 Ton	300 mm	180 mm	50 mm	15.5 kg
NBC PowerPull 20T	20 Ton	350 mm	200 mm	50 mm	19.0 kg
NBC PowerPull 30T	30 Ton	400 mm	200 mm	60 mm	25.0 kg
NBC PowerPull 50T	50 Ton	500 mm	200 mm	60 mm	35.0 kg

NBC PowerPull - Precision in Every Stroke. Reliability in Every Operation.

Delivering engineered maintenance solutions that keep industry moving.

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