



## Q355B Q690 Q550 Excavator Tunnel Arm Digger Short Reach Boom Arm Manufacturers

Our Product Introduction

for more products please visit us on excavatorlongarm.com

### Basic Information

- Place of Origin: China
- Brand Name: Zhonghe Machinery
- Certification: CE, patent, ISO
- Model Number: CLB0024
- Minimum Order Quantity: 1 set / piece
- Price: USD \$3200-\$5000/sets
- Packaging Details: bubble / wooden cases
- Delivery Time: 20-30/works
- Payment Terms: T/T, L/C
- Supply Ability: 800 sets



### Product Specification

- Material: Q355B, Q690D, Or Others As You Request
- Apply To: 6-50ton Excavator
- Warranty: 6 Months
- Working Condition: Tunnel Work
- Condition: New
- Color: As Customer Requires
- Application: Excavator
- Type: High Reach Demolition Boom
- Certification: ISO9001, ISO CE
- Oem: Available
- After-sales Service Provided: Online Support, Video Technical Support
- Technique: Advanced Techniques
- Oem/odm: Acceptable
- Highlight: Q355 Excavator Tunnel Arm, Q690D Short Reach Boom



### More Images



### Product Description

#### Wholesale Short Arm Excavator Excavator Tunnel Arm for Sale Local Manufacturers of Tunnel Arms Short Reach Boom in China

#### I. Advantages of Excavator Tunnel Arm/Short Arm

##### Key Advantages of Excavator Tunnel Arm/Short Arm:

**Space Efficient:** Ideal for use in confined urban settings.

**Precision Capabilities:** Allows for detailed work in sensitive excavation environments.

**Multi-Functional Applications:** Works in various sectors, including construction and mining.

**Low Environmental Disruption:** Designed to minimize disturbance to surrounding areas.

**Sturdy Design:** Constructed to endure rigorous use and heavy loads.

**Quick Change Functionality:** Easily swap attachments for different tasks.

**Deeper Digging Capability:** Short arms can reach deeper than standard arms in confined spaces.

**Hydraulic Efficiency:** Optimizes power usage for better performance.

**Safety Innovations:** Focuses on the operator's safety in challenging environments.

**Stable Operation:** Provides a solid base for excavation tasks.

#### Advantages of Zhonghe Machinery

1. Professional product design team, rich experience, strong design pertinence.
2. Automated processing equipment. Automatic cutting, double-sided floor-standing large boring machine, etc.
3. Industry standard welding process, carbon dioxide shielded welding, good weld crack resistance.
4. Strict and meticulous quality inspection, ultrasonic flaw detection

Our Product Introduction

excavator(ton)	total length (mm)	boom (mm)	arm(mm)	max height (mm)	max depth(mm)
20-25T	1300	3200	1900	4500	8500
30-36T	4200	4200	1900	5000	10500
40-45T	4500	4500	1900	5000	11000

## Working scene of tunnel arm

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## Special design----meet customer needs !!!

### Advantages of Modifying the Tunnel Arm:

1. By modifying the tunnel arm, its operational range is optimized for different working conditions, ensuring no interference with tunnel beams or basement structures.
2. Post-modification, larger breakers can be utilized; for instance, a PC120 excavator can handle a 135 breaker while a PC200 can support a 165 breaker, which requires increasing the confluence of double pumps to double the impact force.
3. The ability to carry a bucket increases with a shorter boom, allowing for more force and the use of larger buckets.
4. A stop valve is in place to prevent hydraulic fluid from leaking when transitioning from a breaker to a bucket.
5. Multi-layer welding on pipe joints enhances durability and reduces oil leak risks.
6. The cylinder guard is beneficial for preventing damage from collisions.
7. We offer competitive factory pricing along with customization options for ODM and OEM services.

# Tunnel boom

- Meets the needs for powerful machines on rock breaker projects in confined tunnels
- A true customised reliable performer, with robust cylinder guard,,capable of break rock more effective, and with significantly smaller footprint.

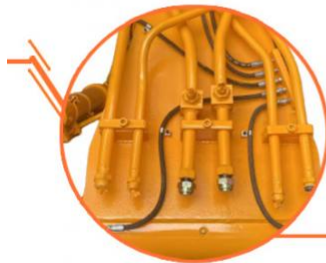


## High effectiveness

1. On the same machine, tunnel arm can obtain greater lifting capacity than standard arm.
2. Opening angle between boom and arm can reach 180 degrees

## Robust structure

1. The upper and lower cover plates are thicker.
2. The arm is filled with iron sand to reduce vibration
3. Robust cylinder guard



## Avoid oil leakage

1. Stop valves prevent oil leakage when replacing breaker by bucket.
2. Multi-layer welding for pipe connectors

## Long service life

1. Cylinder protective cover design
2. Q355B material, high-quality accessories, full weld, reinforced stress position, etc.



## Pivot end

HD Boom with pivot end reinforcement Single piece design & thicker steel plates

**What is the purpose of beveling the long arm/tunnel arm plate?**

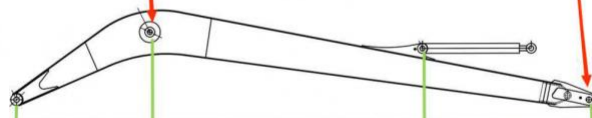
Most welding machines commonly used in the industry have a penetration depth of only 3mm. Since the thickness of our long arm plate is at least 8mm, without beveling, the welder would not be able to fully penetrate through the entire joint. This would result in weak welds, leading to issues such as weld cracking in the future. We employ mechanical beveling, whereas other factories rely on manual beveling (as shown in the figure).

**High precision machine of Zhonghe Machinery Manufacturers**

**Double-sided boring lathe**



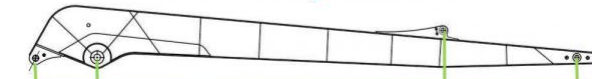
After the excavator boom and arm are assembled, the pins on the boom are drilled to ensure that the pins on the boom are parallel to each other and the cross section of the pin hole is perpendicular to the pin. The double-sided boring machine of the boom makes the hole position more accurate and the quality higher.



Make sure the cross section of the pin hole is perpendicular to the shaft.



Make sure the axis is parallel to the axis



Make sure the cross section of the pin hole is perpendicular to the shaft



Make sure the axis is parallel to the axis

**Large Floor-Standing Double-Sided Boring and Milling Lathe:**

**Improved Accuracy and Consistency:** The double-sided boring and milling lathe enhances the precision and uniformity of operations, ensuring consistent results.

**Post-Welding Processing:** After the welding process, the machine performs overall boring, ensuring the parallelism and perpendicularity of shaft holes.

**Primary Applications:** Primarily used for post-weld boring of the boom, small arm, and bucket, ensuring the accuracy and proper alignment of the boom.

**Simultaneous Boring on Both Sides:** The lathe performs boring on both sides at the same time, guaranteeing identical precision and consistency on both sides.

**About Zhonghe Machinery Company Profile:**



## Kaiping Zhonghe Machinery Manufacturing Co., Ltd.

1. **Year of Founding:** Kaiping Zhonghe Machinery Co., Ltd. was established in 2018.
2. **Business Model:** We integrate manufacturing and trading, focusing on customized excavator booms and accessories.
3. **Location:** Our operations are located in Cuishan Lake New District, Kaiping City, Jiangmen, Guangdong Province, China.
4. **Facility Size:** We have a large workshop of 21,000 m<sup>3</sup>, built using a robust steel structure.
5. **Equipment Utilization:** Our workshop features advanced high-precision processing equipment.
6. **Staff Overview:** Our team comprises over 100 experienced technicians, including:  
50 welders with extensive backgrounds (7+ years).  
30 senior designers.
7. **Research and Development:** Our high-tech R&D team has over 10 years of customization experience and holds more than 100 technical patents.
8. **Production Standards:** We adhere to a strict quality control system developed over 6 years, ensuring effective cost management.
9. **Output Potential:** Our production capability is up to 800 sets of various types of excavator booms each year.
10. **Client Commitment:** We emphasize quality and customer satisfaction, welcoming collaboration with clients domestically and internationally.

## CE certification & Utility model patent certificates



Our products have been exported to over 60 countries, utilizing various transportation methods such as sea, land, and air freight. For packaging, we use either wooden crates or stretch film to secure the products. Before shipment, the goods are carefully packaged and then loaded into containers to ensure their safety during transit.

## Packaging & Shipping



## FAQ(Some frequently asked questions):

### Q1: Are you a manufacturer?

A1: Zhonghe Machinery provides a wide variety of attachments for excavators. Such as long arms, demolition arms, telescopic arms, standard buckets, rock buckets, cleaning buckets, tilt buckets, etc. We know that the perfect combination of high-quality cast steel products and moderate prices is the key to success.

### Q2: Why is it called a tunnel arm?

A2: Tunnel arms generally refer to working devices that operate in narrow spaces. Most of them operate in tunnels, so they are called tunnel arms. Each country has a different name, but in China we call it a tunnel arm.

**Q3: What are the configurations of the tunnel arm?**

A3: Depending on the height of the tunnel, the configuration that requires or does not require the boom cylinder can be designed, but the necessary configurations are: one boom cylinder, one bucket cylinder, 8 pins, 6 high-pressure hoses, one set of connecting rod assemblies, one set of crushing pipes, and 2 stop valves. The general operating height of the tunnel arm is 4-6 meters.

**Q4: What are the requirements for the tunnel arm?**

A4: A. It is recommended that the tunnel arm be equipped with a straight hammer. The basement height is limited. During operation, the triangular hammer part is higher than the arm plane, which will scrape the top and make the operation inconvenient. The straight hammer will not have this problem. B. The tunnel arm design does not take into account the transportation height. Generally, the transportation of large-scale mechanical tunnel arms requires the breaker to be removed before transportation. Filling materials in the forearm of the tunneling arm increases the weight of the tunneling arm, presses down the breaker, reduces the rebound force of the breaker, and increases the crushing force.

Any information, pls contact Sophia!

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