Hydraulic breakers are today’s most versatile working tool for excavators. It is the main actor in different applications when operating on hard ground, a must, when it comes to excavating foundations, demolition, trenching, quarrying, tunneling and road construction.

- Combined power from gas and oil: hydraulic stability, rebound of the piston absorbed by gas results in low vibrations & low stress on hoses (lower pressure peaks).
- Outstanding performance to weight ratio.
- The high back pressure allowed (up to 25 bars) makes installation easy on every model of excavator, with no need to change the return line going straight to the tank and bypassing the filter and the cooler.

Eventual limits indicated by carrier’s manufacturer are always binding. It is generally possible to choose between two models: heavier or lighter.

Choosing your breaker
The right breaker/excavator matching is driven by some factors like carrier’s weight and hydraulic flow, boom, and stick configuration, main use of the equipment.

Promove team of experts is always available to provide information on best matching.

Heavier breakers recommended for:
- Medium/hard rock breaking
- Heavy and long-lasting applications
- Excavators with monolithic boom
- Primary breaching in quarrying
- Frequent use

Lighter breakers recommended for:
- Concrete or soft rock breaking
- Non-heavy applications
- Excavators with three-piece arm
- Secondary breaching in quarrying
- Occasional use

Hydraulic Breakers

XP line

Our models of XP range offer unique features, highly appreciated on the hardest job site around the world.
Medium - Heavy Range

- **Auto-greasing system (Optional)**
- **Heavy-duty silenced casing**
  - Operations in urban sites without restrictions
- **Impact energy valve**
  - Impact & blow energy can be easily adjusted according to the hardness of the rock
- **Upper heavy-duty shock absorber**
  - Reduced vibrations
- **Lower heavy-duty shock absorber**
  - Reduced vibrations
- **Hour meter (optional)**
  - Ideal for:
    - Rental activities
    - Maintenance operations
- **Full Hardox 400**
  - Bottom case protection
- **Upper heavy-duty shock absorber**
- **Impact energy valve**
- **Lower heavy-duty shock absorber**
- **Reduced vibrations**

Ideal for:
- Rental activities
- Maintenance operations

**Impact Energy Valve**
- High Pressure N₂ Chamber
  - Low vibrations & stress on hoses
- Low Pressure N₂ Chamber
  - Improved impact energy at every strike

**Nitrogen Valve**
- Fast & easy nitrogen check & refill

**Working Pressure Valve**
- Blank Firing
  - Prevention System
  - No Residual Blows

**Medium - Heavy Range**
### Technical Specifications

<table>
<thead>
<tr>
<th>Working weight (kg)</th>
<th>6900</th>
<th>4380</th>
<th>3090</th>
<th>2350</th>
<th>1560</th>
<th>1700</th>
<th>1450</th>
<th>1200</th>
<th>1000</th>
<th>750</th>
<th>600</th>
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</thead>
<tbody>
<tr>
<td>Carrier’s min/max (t)</td>
<td>70/130</td>
<td>45/80</td>
<td>30/48</td>
<td>24/35</td>
<td>22/29</td>
<td>19/28</td>
<td>16/25</td>
<td>14/20</td>
<td>12/18</td>
<td>9/15</td>
<td>7/13</td>
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<tr>
<td>Total height (mm)</td>
<td>4200</td>
<td>3800</td>
<td>3500</td>
<td>3200</td>
<td>3000</td>
<td>2700</td>
<td>2600</td>
<td>2500</td>
<td>2300</td>
<td>2250</td>
<td>1950</td>
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<tr>
<td>Tool diameter (mm)</td>
<td>210</td>
<td>180</td>
<td>160</td>
<td>150</td>
<td>145</td>
<td>135</td>
<td>130</td>
<td>120</td>
<td>110</td>
<td>100</td>
<td>90</td>
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<tr>
<td>Useful length of standard tool (mm)</td>
<td>800</td>
<td>700</td>
<td>690</td>
<td>680</td>
<td>675</td>
<td>670</td>
<td>670</td>
<td>670</td>
<td>670</td>
<td>670</td>
<td>670</td>
</tr>
<tr>
<td>Oil flow min/max (l/min)</td>
<td>380/410</td>
<td>290/330</td>
<td>210/240</td>
<td>170/200</td>
<td>170/210</td>
<td>170/210</td>
<td>170/210</td>
<td>170/210</td>
<td>170/210</td>
<td>170/210</td>
<td>170/210</td>
</tr>
<tr>
<td>Working pressure min/max (bar)</td>
<td>180/190</td>
<td>180/190</td>
<td>180/190</td>
<td>180/190</td>
<td>180/190</td>
<td>180/190</td>
<td>180/190</td>
<td>180/190</td>
<td>180/190</td>
<td>180/190</td>
<td>180/190</td>
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<tr>
<td>Impact energy (joule)</td>
<td>22120</td>
<td>16671</td>
<td>13112</td>
<td>7878</td>
<td>7878</td>
<td>5526</td>
<td>5448</td>
<td>4495</td>
<td>3902</td>
<td>1932</td>
<td>1932</td>
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</tbody>
</table>

**XP Medium**

**Heavy Range**
Light Range

- Blank Firing Prevention System
  - No Residual Blows
- Superior power
  - Larger piston and tool diameter for a harder hit
- Low-pressure chamber
  - Improved impact energy at every strike
- Lower shock absorber
  - Bottom case protection
- High resistance tools
  - Special treated steel
- Upper shock absorber
  - Avoiding damages to the arm of excavator

NEW SMART VALVE
Plug & Play

- Light Range
- No Initial Setup
- Overflow & Pressure Peak Protection
  - Optional on Light Range only

NEW SMART VALVE
Plug & Play
## XP Light Range

### Technical Specifications

<table>
<thead>
<tr>
<th></th>
<th>XP 400</th>
<th>XP 300</th>
<th>XP 200</th>
<th>XP 150</th>
<th>XP 110</th>
<th>XP 70</th>
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<tr>
<td>Working weight (kg)</td>
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<td>300</td>
<td>230</td>
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<td>Working weight PB version (kg)</td>
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<td>-</td>
<td>235</td>
<td>130</td>
<td>90</td>
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<td>Total height (mm)</td>
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<td>1450</td>
<td>1350</td>
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<td>Tool diameter (mm)</td>
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<td>80</td>
<td>64</td>
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<td>Useful length of standard tool (mm)</td>
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<td>290</td>
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<tr>
<td>Oil flow min/max (l/min)</td>
<td>70/80</td>
<td>50/60</td>
<td>40/60</td>
<td>25/35</td>
<td>15/25</td>
<td>15</td>
<td>15/15</td>
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<tr>
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<td>100/110</td>
<td>120/130</td>
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<td>blows per minute (1/min)</td>
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<td>721/1224</td>
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<td>610/950</td>
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<td>Impact energy [J]</td>
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<td>147</td>
<td>417</td>
<td>350</td>
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PB versions feature two-sided casings with direct fit on the stick through pins & bushings.
<table>
<thead>
<tr>
<th>Sector</th>
<th>Application</th>
<th>xP400</th>
<th>xP600</th>
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<th>xP2000</th>
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<tr>
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<td>Trench work/Foundation</td>
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<td>Tearing up concrete/asphalt</td>
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<td>Heavily reinforced concrete, Bridges, power stations &amp; similar structures</td>
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<td>Masonry and not reinforced concrete</td>
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<td>Tunnelling</td>
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<td>Bench levelling</td>
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<tr>
<td>High temperature work</td>
<td>Breaking out ladles and moulds</td>
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<td>Removing encrustations</td>
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<tr>
<td></td>
<td>Breaking up slag</td>
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<tr>
<td>Underwater applications</td>
<td>Demolition, Opening of channels</td>
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</table>

Guidelines
Tools

<table>
<thead>
<tr>
<th>Material</th>
<th>Type</th>
<th>Detail</th>
<th>Chisel</th>
<th>Moil Point</th>
<th>Blunt Tool</th>
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<tbody>
<tr>
<td>Asphalt</td>
<td>Road surfaces</td>
<td>Soft</td>
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<tr>
<td>Concrete</td>
<td>All</td>
<td>Reinforced</td>
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<tr>
<td></td>
<td>All</td>
<td>No-Reinforced</td>
<td></td>
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<tr>
<td></td>
<td>Recycling</td>
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<tr>
<td>Light/Medium type rock (sedimentary) limestone, sandstone, etc.</td>
<td>Breaking oversizes</td>
<td>---</td>
<td></td>
<td></td>
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<tr>
<td></td>
<td>Trenching, foundation work, primary quarry breaking</td>
<td>Heavily Fissured</td>
<td>Lightly Fissured</td>
<td>Monolithic</td>
<td></td>
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<tr>
<td>Medium/Hard type rock (Crystaline) magma, granite, etc.</td>
<td>Breaking oversizes</td>
<td>---</td>
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<tr>
<td></td>
<td>Trenching, foundation work, primary quarry breaking</td>
<td>Heavily Fissured</td>
<td>Lightly Fissured</td>
<td>Monolithic</td>
<td></td>
</tr>
</tbody>
</table>

Concrete non-reinforced, Sharpded limestone, Tuff.

Non-binding data; actual productivity is also affected by external factors like features and set up of the carrier and driver's skill.

Productivity (m³ in 8 hours)

- Hard Rock, Compact basalt, Limestone
- Medium-hard Rock, Slate, Non-omogeneous granite
- Reinforced, Non-reinforced, Stratified limestone, Tuff.
Promove breakers deliver excellent performance and reliability even in underwater applications. Promove provides specific kit for ports, docks, channels construction and any other applications where the breaker must work underwater. Connection to compressed air avoids the entrance of water and prevents breakage and corrosion of the breaker’s main components. Air hose attachment is located at the top of the breaker in order to keep it protected against accidental hits due to lack of visibility of the immersed part.

Underwater

Tunnelling

When it comes to tunnelling, the working position with the chisel upward makes dust and rock splinters entering into the body of the breaker. This operation can cause big damages to piston, cylinder and bushings. To avoid it, Promove provides a specific protection kit made of harder bushings, closing pads for the tool retainers and special steel and floating nylon bushings to close as much as possible the tool/bushing space and limit dust getting in.

Hydraulic breakers are more and more often used in steel factories where their application is cleaning ladles and moulds and to remove scale. To face these critical conditions XP hammers can be equipped with specific kit of sealings, bushings and chisels designed to work in hot environments.

High-temperature

Special Applications
PromoveLube

Hi-performance grease
Specific lubricant to protect your Promove breaker in the most severe conditions

Highly adhesive lubricant, based on special synthetic oil, thickened with complex aluminium soap. It contains synthetic polymers with high molecular weight and solid lubricants to ensure exceptional anti-seize and EP features.

Promove BreakerLube has high thermal stability, long service life and total protection from rust and corrosives, even in the presence of water jets or immersion.

Consistency is carefully balanced to guarantee prompt lubrication in cold-starts and harsh climates as well as total protection at high temperatures.

Synthetic base, specifically selected to enhance the oiliness, the affinity for metal surfaces and strength of the lubricant film even in the most hostile conditions.

Physical specifications have been specifically designed to perfectly match the Promove greasing systems (excavator-mounted electric pump or hammer-mounted hydraulic pump).

**Blunt tool**
Suitable for recycling, secondary demolition in the quarry, block reduction.

**Asphalt-cutting tool**
Suitable for asphalt cutting works, breaks of floors, walls, tile or tufa walls (it can be parallel or transversal oriented).

**Pile-driving tool**
Suitable for pile works or supporting columns for guard rails, etc.

**Wood cutting tool**
Suitable to fell trees or cut large-sized stocks.

**Special tools**

- Blunt tool
- Asphalt-cutting tool
- Pile-driving tool
- Wood cutting tool

**Adapting plates**

- Adapting plate for CW (Verachtert-CAT) quick couplers.
- Adapting plate for Volvo quick couplers.
- Std. adapting plate or pingrabbed quick couplers.

**Automatic Greasing System**
Optional for Medium & Heavy Range
It increases productivity and avoids stopping for manual greasing.

**Grease**

- 18 Kg
- 180 Kg
- 600 cc
- 400 cc

**e-breaker**
Remote control, productivity analysis, predictive maintenance and geolocation.

**Options**

- Suitable for recycling, secondary demolition in the quarry, block reduction.
- Suitable for asphalt cutting works, breaks of floors, walls, tile or tufa walls (it can be parallel or transversal oriented).
- Suitable for pile works or supporting columns for guard rails, etc.
- Suitable to fell trees or cut large-sized stocks.

**Adapting plate for CW (Verachtert-CAT) quick couplers.**

**Adapting plate for Volvo quick couplers.**

**Std. adapting plate or pingrabbed quick couplers.**
Established in 1989, today Promove is a leader in manufacturing and distributing hydraulic breakers, shears and other demolition equipment.

All components are in-house made, through advanced CNC machinery and high technology, assuring maximum precision and finishing of all the surfaces.

Promove’s company mission is to maximize customers’ satisfaction through continuous improvement of the products’ performance and reliability.

In order to achieve these goals, particular attention is dedicated to investments in efficient machineries, increasing productivity, pre and after sales services, Research and Development.
From an accurate selection of raw materials to product assembly, all mechanical components are made in-house through advanced CNC machinery following strict quality and testing controls.

1. Dimensional and functional testing of all components.

2. Outstanding reliability resulting in product durability with low maintenance costs.

3. Continuous investments in R&D to improve quality and performance mainly focusing on the customers’ needs.

4. Excellent after sales service, spare parts always on stock, 24h delivery.

5. Extended warranty on the main components of the breaker, including cylinder and piston.

**5 reasons why**

**36 months**

**our Workflow**

01 Market Inputs & Technical Design

02 From Ideas & Projects to Mechanical Components

03 Demolition Equipment delivered Worldwide
The most precious award for the passion and the day-to-day work of all our workforce is the number of positive feedback we receive from our customers using our demolition equipment in the hardest quarrying, tunnelling, demolition and construction applications worldwide, whether in underwater conditions or at high-reach.

Technical data are non-binding. Promove reserves the right to modify them without notice.
Contact us

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70056 Molfetta, Bari - Italy

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+39 0803387004

info@promovedemolition.com