Solutions for Earth-Moving Machines

Construction
The most reliable solutions for Earth-Moving machines

Bonfiglioli broad and diversified product ranges, fully meet the specifications of excavators manufacturers.

Our drives and geared motors perfectly adapt to hydraulic, hybrid and electric machine needs. With a range of solutions suitable for machines weighing anywhere from 1.5 to 400 tons, we meet today’s market needs.

All the hydraulic and mechanical functions are incorporated into a single unit: powerdrive, operating and travel speed, hydraulic and mechanical emergency braking and overload prevention. The unit assures high reliability and excellent performance, smoothness in operation and also, due to its compact dimensions, very easy and economical installation on board of machines.

The vast range of customised solutions and extensive expertise in the industry, make Bonfiglioli the ideal partner.
Track drives

700C Series

Bonfiglioli 700C series units are unsurpassed by any crawler or milling machines. Thanks to compact, rugged design, high torque and load capabilities, and optional mechanical lifetime seals, these solutions are the best possible option for the machine. All units are available with a fail-safe parking brake and most have the option of cartridge type fixed or variable systems.

Key features
- Rotating housing
- Rugged design
- High torque capacity
- High load capacity
- Mechanical lifetime seals
- Compact design

Applicable motors
- Cartridge axial piston hydraulic motors
- Flanged axial piston hydraulic motors
- Hydraulic orbit motors

Input speed
- up to 4,000 rpm

Brake options
- Hydraulically released parking brake on request

Torque (Nm)

<table>
<thead>
<tr>
<th>Model</th>
<th>Torque (Nm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>718 C3 H</td>
<td>180,000</td>
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<td>722 C3 H</td>
<td>330,000</td>
</tr>
<tr>
<td>724 C4 H</td>
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<td>726 C4 H</td>
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# Earth-Moving Machines

<table>
<thead>
<tr>
<th>Type</th>
<th>Range of ratios</th>
<th>Max. input speed</th>
<th>Hydraulic motor drive</th>
<th>Braking torque</th>
<th>Min. opening pressure</th>
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<td>kg</td>
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![718 C3 H ... 724 C4 H](image_url1)

![726 C4 H](image_url2)

<table>
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<td>245</td>
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Extreme compactness, lightweight, efficiency and smooth operation are the key features of the 700CT series track drives, powered by integrated axial piston hydraulic motors and developed with Danfoss hydraulic.

**700CT Series**

Input speed
- up to 3,500 rpm

Brake options
- Hydraulically released spring-applied parking brake, with external independent port

Motors
- Fixed or dual displacement, with flushing valve circuit, suitable for closed loop applications

Motor options
- Speed sensor mounting

Key features
- Rotating output flange with large PCD suitable for sprocket
- Rugged design
- High torque capacity
- High load capacity
- Mechanical lifetime seals
- Compact design

### Torque (Nm)

<table>
<thead>
<tr>
<th>Model</th>
<th>Torque (Nm)</th>
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<td>704 CT</td>
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<tr>
<td>705 XT</td>
<td>12,000</td>
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<tr>
<td>706 CT</td>
<td>12,500</td>
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COMPACT TRACK LOADERS
### Earth-Moving Machines

<table>
<thead>
<tr>
<th>Type</th>
<th>Weight</th>
<th>Output torque</th>
<th>Ratios</th>
<th>Motor type</th>
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<tbody>
<tr>
<td>702 CT</td>
<td>2.5 + 3.5</td>
<td>3,500</td>
<td>15 + 22</td>
<td>High speed</td>
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<td>704 CT</td>
<td>3.5 + 5</td>
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<td>18</td>
<td>Axial piston</td>
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<tr>
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<td>5 + 7</td>
<td>12,500</td>
<td>25 + 30</td>
<td>Axial piston</td>
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<td>7 + 9</td>
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<td>Axial piston</td>
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### Diagrams

#### XT version

![Diagram of XT version]

#### CT version

![Diagram of CT version]

### Additional Table

<table>
<thead>
<tr>
<th>Type</th>
<th>D1</th>
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<th>D3</th>
<th>D4</th>
<th>D5</th>
<th>D6</th>
<th>D7</th>
<th>D8</th>
<th>L1</th>
<th>L2</th>
<th>L3</th>
<th>L4</th>
<th>A-B</th>
<th>T</th>
<th>PS</th>
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<tr>
<td>702 CT</td>
<td>270</td>
<td>240</td>
<td>210</td>
<td>210</td>
<td>245</td>
<td>275</td>
<td>M16x2 no.8</td>
<td>M16x2 no.12</td>
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<td>1&quot; 1/16-12 UNF</td>
<td>3/4&quot;-16 UNF</td>
<td>9/16&quot;-18 UNF</td>
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<tr>
<td>704 CT</td>
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<td>270</td>
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Track drives

700CP Series

Extremely compact, lightweight, efficient and smooth to operate, 700CP Series track drives are powered by integrated axial piston hydraulic motors, developed in cooperation with Poclain hydraulics.

Input speed
• up to 3,500 rpm

Brake options
• Hydraulically released failsafe parking brake automatically operated by main pressure

Motors
• Hydraulic motors
• Fixed and dual displacement, complete with counterbalance valve

Motor options
• Pressure relief valves, shockless type
• Anticavitation valve

Key features
• Rotating output flange with large PCD suitable for sprocket
• Rugged design
• High torque capacity
• High load capacity
• Mechanical lifetime seals
• Compact design

Torque (Nm)

<table>
<thead>
<tr>
<th>Model</th>
<th>Torque (Nm)</th>
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<tbody>
<tr>
<td>700 C2 P</td>
<td>1,200</td>
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<tr>
<td>700-2 C2 P</td>
<td>1,900</td>
</tr>
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</tr>
<tr>
<td>704 C2 P</td>
<td>5,000</td>
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</table>
Earth-Moving Machines

<table>
<thead>
<tr>
<th>Type</th>
<th>Ratios</th>
<th>Motor Displacement Min/Max</th>
<th>Max. Pressure</th>
<th>Max. Oil Flow</th>
<th>Weight</th>
<th>Approx. Weight of Machine</th>
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<tr>
<td>700 C2 P</td>
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<td>25</td>
<td>18</td>
<td>up to 1.5</td>
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<tr>
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<td>24</td>
<td>1.5 + 2</td>
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<td>704 C2 P</td>
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<td>36.4 / 16.7</td>
<td>275</td>
<td>65</td>
<td>60</td>
<td>4 + 6</td>
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</table>

* Based on motor version

<table>
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<th>D3</th>
<th>D4</th>
<th>D5</th>
<th>D6</th>
<th>D7</th>
<th>D8</th>
<th>L1</th>
<th>L2</th>
<th>L3</th>
<th>L4</th>
<th>A-B</th>
<th>T</th>
<th>Ps</th>
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<td>119</td>
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</table>

* Based on motor version
Track drives

700CK Series

Extremely compact, lightweight, efficient and smooth to operate, 700CK Series track drives are powered by integrated axial piston hydraulic motors, developed in cooperation with Kayaba.

Input speed
- up to 3,500 rpm

Brake options
- Hydraulically released failsafe parking brake automatically operated by main pressure

Motors
- Kayaba hydraulic motors, fixed and dual displacement, complete with counterbalance valve

Motor options
- Pressure relief valves, shockless type
- Anticavitation valve

Key features
- Rotating output flange with large PCD suitable for sprocket
- Rugged design
- High torque capacity
- High load capacity
- Mechanical lifetime seals
- Compact design

Torque (Nm)

<table>
<thead>
<tr>
<th>Model</th>
<th>Torque (Nm)</th>
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<td>720 C3 K</td>
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The F Series is perfectly suited to any crawler and milling machine. Thanks to compact, rugged design, high torque and load capabilities, and optional mechanical lifetime seals, these solutions are the best possible option for these machines. All units are available with a fail-safe parking brake and for most cartridge type fixed or variable systems. Different disengagement systems are available on demand for all the sizes.

**F Series**
Small & Medium final drives

**Input speed**
- up to 4,000 rpm

**Main options**
- Mechanical disconnect device

**Key features**
- Integrated hydraulic motor
- 2-stage planetary drive
- 2-speed hydraulic motor
- Counterbalance travel valve
- High pressure relief valves
- 2-speed shift function by external pilot control
- 2-speed shift function by external pilot control
- Automatically released parking brake

**Torque (kNm)**

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<td>F100</td>
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### Earth-Moving Machines

#### Type

<table>
<thead>
<tr>
<th>Type</th>
<th>Ratios</th>
<th>Motor Displacement</th>
<th>Max Pressure</th>
<th>Max Oil Flow</th>
<th>Weight</th>
<th>Approx. Weight of Machine</th>
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Track drives

F Series
Large & XLarge final drives

The F Series is perfectly suited to any crawler and milling machine. Thanks to compact, rugged design, high torque and load capabilities, and optional mechanical lifetime seals, these solutions are the best possible option for these machines. All units are available with a fail-safe parking brake and for most cartridge type fixed or variable systems. Different disengagement systems are available on demand for all the sizes.

Input speed
• up to 4,000 rpm

Main options
• Mechanical disconnect device

Key features
• Integrated hydraulic motor
• 2-stage planetary drive
• 2-speed hydraulic motor
• Counterbalance travel valve
• High pressure relief valves
• 2-speed shift function by external pilot control
• 2-speed shift function by external pilot control
• Automatically released parking brake

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# Slew drives

## 700T Series

The Bonfiglioli 700T series provides the safest, most effective solution for cranes, excavators and forestry machines. Highly appreciated by all major manufacturers, the 700T Series has long been established in the crane, excavator and special equipment industries.

## Brake options
- Hydraulically released parking brake on request

## Applicable motors
- Piston hydraulic motors
- Hydraulic orbit motors

## Motor options
- Pressure relief valve
- Overcenter valve

## Key features
- Flange mounted
- Output shaft: splined or with integral pinion
- Rugged construction
- High torque capacity
- Output shafts supported by heavy-duty capacity bearings

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(*) LS = Low speed motor / HS = High speed motor

---

**Design A**

**Design B**

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<td>a21 n°24</td>
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700TK Series

The 700TK Series is the compact and powerful slew drive package for 1.5- to 150-ton excavators. The units are powered by integrated axial piston hydraulic motors, developed in cooperation with Kayaba and can be fitted in very small spaces.

Brake options
- Hydraulically released failsafe parking brake
- Brake retarder valve on request

Applicable motors
- Kayaba hydraulic motor fixed displacement complete with shockless type pressure relief valve

Motor options
- Anti swing-back valve

Key features
- Flange mounted
- Output shaft with integral pinion
- Rugged construction
- High torque capacity
- Output shafts supported by heavy-duty bearings
- Compact design

Torque (Nm)

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<th>Model</th>
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<td>713 T2 F</td>
<td>30,000</td>
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</table>
### Earth-Moving Machines

**Type** | **Gearbox** | **Ratios** | **Motor Type** | **Motor Displacement** | **Max Pressure** | **Max Oil Flow** | **Pinion Module** | **Approx. Weight of Machine**
--- | --- | --- | --- | --- | --- | --- | --- | ---
700 T1 K | 1 | 6.56–9.9 | MSF27P (E) | 25.1–274 | 120±170 | 12÷20 | 3 ± 4 | up to 2
701 T1 K | 1 | 8.2 | MSF27P (E) | 22.1–26.1 | 150±170 | 20±30 | 4 ± 5.5 | 2 ± 3
701 T2 K | 1 | 11.2–14.3–18.9–20.8 | MSF27P (E) | 22.1–26.1 | 150±170 | 20±30 | 4 ± 5.5 | 2 ± 3
701 T2 K | 1 | 13.7–14.3–18.9–20.8 | MSF27P (E) | 20.7–26.1–274 | 170±200 | 20±45 | 5 ± 6 | 3 ± 6
703 T2 K | 1 | 14.8–18.2–22.7–26 | MSF27P (E) | 26.1–274 | 180±215 | 40±50 | 6 | 4 ± 6
703 T2 K | 1 | 21–23 | MSF44P | 44 | 220 | 80 | 8 | 6 ± 8
705 T2 K | 1 | 19–26 | MSF44P | 44 | 260 + 280 | 110 + 120 | 10 | 8 ± 12
706 T2 K | 1 | 15–17–23 | MSF55P | 85 | 260 + 280 | 140 ± 150 | 10–12 | 12 ± 18
707 T2 F | 1 | 17–25 | MSX150 | 100–150 | 260 + 280 | 140 ± 150 | 10–12 | 18 ± 21
709 T2 F | 1 | 19–25 | MSX180 | 150–160–180 | 270 ± 290 | 180 ± 240 | 12–14 | 21 ± 26
710 T2 F | 1 | 22–26 | MSX180 | 160–180 | 270 ± 290 | 250 | 14 | 26 ± 30
711 T2 F | 1 | 21–25 | MX2110 | 210 | 270 ± 290 | 290 | 14–16 | 30 ± 35
709 T2 F | 2 | 19–25 | MSX180 | 150–160–180 | 270 ± 290 | 180 ± 240 | 12–14 | 35 ± 45
710 T2 F | 2 | 22–26 | MSX180 | 160–180 | 270 ± 290 | 250 | 16 | 45 ± 60
711 T2 F | 2 | 21–25 | MX2110 | 210 | 270 ± 290 | 290 | 18 | 60 ± 80
713 T2 F | 2 | 25–35 | MSX180 | 160–180 | 270 ± 290 | 270 | 20 | 80 ± 120

**Type** | **D1** | **D2** | **D3** | **D4** | **D5** | **L1** | **L2** | **A-B** | **DB** | **M** | **SH** | **PG** | **m-z**
--- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | ---
700 T1 K | – | 228 | 260 | 186 | ø 13 no. 6 | 76 | 221
701 T1 K | 175 | 228 | 260 | 186 | ø 13 no. 6 | 86 | 256
703 T2 K | 175 | 245 | 272 | 244 | ø 18 no. 10 | 120 | 330
703 T2 K | 27 | 245 | 272 | 244 | ø 18 no. 10 | 120 | 330
705 T2 K | 230 | 245 | 272 | 244 | ø 18 no. 10 | 120 | 420
706 T2 K | 230 | 322 | 372 | 292 | ø 22 no. 10 | 150 | 580
706 T2 K | 230 | 352 | 372 | 292 | ø 22 no. 10 | 150 | 615
707 T2 K | – | 360 | 410 | 348 | ø 22 no. 12 | 160 | 580
707 T2 F | – | 360 | 410 | 348 | ø 22 no. 12 | 160 | 580
709 T2 F | 270 | 360 | 410 | 348 | ø 22 no. 12 | 160 | 580
710 T2 F | 390 | 460 | 510 | 400 | ø 22 no. 12 | 160 | 580
711 T2 F | 370 | 470 | 520 | 430 | ø 22 no. 12 | 160 | 580
713 T2 F | 550 | 600 | 660 | 445 | ø 26 no. 24 | 350 | t.b.d.
Slew drives

S Series

The Bonfiglioli S series provides the safest and most effective solution for cranes, excavators and forestry machines. Its compact design allows it to perfectly fit cranes, excavators and special equipment where installation space is limited.

Key features

- Compact structure
- High performance
- Notchless ground tooth root
- Integrated disc-brake
- Suitable for various hydraulic motors
- High availability by highest teeth and production quality
- Interchangeable solutions

Torque (Nm)

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<th>Model</th>
<th>Torque (Nm)</th>
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<table>
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</tbody>
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Global Presence

Bonfiglioli is a market force with a presence spanning 22 countries on 5 continents. Our organization makes the most of geographic proximity to offer complete solutions combining efficiency and competence.

We Are a Global Company

Thanks to an international network of sales branches and closely interconnecting production plants, we can guarantee the same high standards of Bonfiglioli quality anywhere at any given time. Aware that our direct presence in local markets is the key to long-lasting success, our family includes 20 sales branches, 13 production plants and more than 500 distributors around the world.

Our organization is always close by, offering complete and efficient solutions and supporting our customers with dedicated services, such as co-engineering or after-sales assistance.
Bonfiglioli Worldwide Locations

**Australia**
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Tel. +84 650 3577411
We have a relentless commitment to excellence, innovation and sustainability. Our team creates, distributes and services world-class power transmission and drive solutions to keep the world in motion.