Crawler Tractor

PR 714

Engine power: 90 kW / 122 HP
Operating weight: 12,500 – 14,800 kg
27,558 - 32,628 lb
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Engine power: 90 kW / 122 HP
Operating weight: 12,500 - 14,800 kg
27,558 - 32,628 lb
Blade capacity: 2.63 - 2.87 m³
3.44 - 3.75 yd³
Hydrostatic travel drive with electronic control unit
**Performance**

The PR 714 crawler tractor features innovative technology for pure strength. Its high pushing power and running smoothness ensure maximum productivity under all operating conditions. Whether for moving heavy material or for fine grading - the PR 714 provides excellent performance whatever the application.

**Reliability**

Powerful and robust: Through its design and quality of materials, the PR 714 crawler tractor is built to last. Parts subject to heavy wear are made of high-strength materials and undergo rigorous fatigue testing to ensure their durability. All this makes the PR 714 a highly reliable machine with minimum downtimes.

**Economy**

The PR 714 has clear economic benefits. Its versatility ensures that work is completed quickly and efficiently. The diesel engine combined with the hydrostatic drive system provides maximum economy. Hard-wearing components increase service life of the machine and therefore its return on investment.

**Comfort**

The PR 714 provides the driver with a generously sized workspace designed according to the latest ergonomic principles. The spacious cab offers an optimal view of the working area and equipment. Drive characteristics can be optimally adapted to suit the operator’s needs through a wide range of adjustment possibilities.
The right equipment for the job

- 6-way blade with variable pitch for efficiently working all types of ground materials
- Standard spill guard: Protects the parts located behind the blade while increasing blade volume when needed
- Different blade widths are available to fit virtually all operating and transporting needs
Performance

With its excellent performance, the PR 714 proves itself even in difficult terrain and under the harshest working conditions. It’s therefore the ideal machine for a wide range of applications.

High productivity

Powerful engine
The diesel engine provides uncompromising power, allowing the PR 714 to effortlessly move heavy, packed material. This ensures smooth, powerful operation in all situations.

Hydrostatic transmission for maximum traction
The hydrostatic drive requires no gear shifting, which means the engine power is transmitted to the tracks without interruption - even while steering. This enables the operator to maintain optimal travel speed at all times.

Best fine grading characteristics

Rigid machine design
The main frame and push frame are specifically designed to ensure torsional stiffness. The oscillating bar mounted on an elastic bearing effectively absorbs vibrations to allow optimum grading.

Optimised geometry
Blade ratio and centre of gravity are optimised, giving the PR 714 the balance needed for superior grade work. The long undercarriage ensures smooth travel with minimal vibration.

Versatility

Excellent manoeuvrability
Crawler tractors of this size frequently operate in tight spaces. Under these conditions, the extraordinary agility of the PR 714 proves yet another strength of the hydrostatic travel drive.

Low centre of gravity and high ground clearance
The clever arrangement of the drive components allows quick and safe work even on slopes and banks. Thanks to its generous ground clearance, the PR 714 can easily master even the roughest terrain.

Grading characteristics
- Front equipment, working hydraulics and base machine are perfectly matched for unsurpassed grading performance
- The ideally positioned blade and the inside-mounted push frame allow the operator an excellent view of the blade corners and the underlying ground
- Quick and reliable grading even when maximum accuracy is required

Hydrostatic travel drive
- Uninterrupted power transmission to both tracks and therefore maximum traction and safety in every situation - such as when turning with a full blade
- The operator can select the desired working speed in fine increments, the crawler dozer then automatically adjusts engine power and drawbar pull
Fuel savings

- Constant engine speed ensures low fuel consumption
- Nominal engine speed is in the range of lowest specific fuel consumption
Economy

Like all Liebherr crawler tractors, the PR 714 is designed with economy in mind. Low fuel consumption, long-lasting components and time-saving maintenance all decisively contribute to reducing costs.

**Low fuel consumption**

**Constant engine speed**

The intercooled diesel engine always runs at constant speed in the most economical range - regardless of travel speed. This feature ensures fuel-saving operation.

**Efficient drive system**

The hydrostatic travel drive maintains high efficiency at all speeds, even when driving slowly and under full load.

**Low service costs**

**Quick diagnosis**

A wide range of current operating data such as hydraulic pressures and electrical voltages can be easily accessed on a monitor by a service technician. Any abnormal operating values are quickly detected, saving time and money.

**Easy access**

All service points on the diesel engine can easily be reached from one side. Generous openings also provide direct access to the hydraulic components.

**Extended maintenance intervals**

Maintenance intervals optimally specified for individual components help minimise recurring service costs.

**Automatic grade control**

**Increased productivity**

Its innovative drive concept makes the PR 714 perfectly suited for automatic grade control systems. Economic use of materials, reduced surveying work and fewer passes result in clear savings for the owner.

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**Rapid spare parts service**

- 24-hour delivery service: Our spare parts service is available for our customers around the clock
- Over 80,000 items are always in stock to meet our customers’ spare parts needs around the world
- Electronic spare parts catalogue LIDOS: Quick, reliable selection and online ordering

**Flexible logistics**

- 6-way blade with foldable corners: Transport widths below three meters also for LGP model
- Alternative blade configuration with increased blade angle and maximum 711 mm track size available: Adjustment to three meter transport width simply by fully angling the blade
- The machine can be transported quickly and easily without compromising performance on site
Reliable in all operations

- Safe and reliable operation in extreme slopes thanks to low centre of gravity and deep oil sump
- Advanced hydrostatic drive for optimal manoeuvrability even on small-area construction sites
Reliability

With its high quality and proven technology, the PR 714 delivers unsurpassed reliability and uptime. Components specifically developed for use in construction equipment ensure longevity even in the most demanding conditions.

Drive train

Reliable construction engine

The PR 714 diesel engine has been developed to be long-lasting under the harshest operating conditions. Wet cylinder liners provide uniform engine cooling, and the deep oil sump ensures reliable engine lubrication even on very steep terrain.

Wear-free transmission

The tried-and-tested hydrostatic travel drive does not require mechanical components such as torque converter, gear box and differential steering. Standardised hydraulic pumps and motors operate practically without any wear.

Long-lasting final drives

The large final drives in the Liebherr PR 714 crawler tractor are extremely robust and designed for the heaviest loads.

Intelligent solutions for continuous operation

Robust steel construction

The one-piece PR 714 chassis resists torsional stress, absorbs shock loads and delivers maximum strength. The C-frame is a stable box-type design. Together with the generously sized, tempered ball joint, it ensures precise guidance of the blade.

Optimally positioned drive components

The hydraulic motors of the PR 714 are arranged inside the main frame so that they are effectively protected against external influences and damage.

Automatic drive train protection

If hydraulic oil temperature or pressure deviates from normal, engine speed and travel speed are automatically limited to prevent potential damage.

Endurance-tested components

- At an early stage of the design phase, components are sized using FE analysis and optimised to handle the expected loads
- The components are then subjected to intensive endurance testing in the laboratory and in the field. Only those parts that meet Liebherr’s high quality standards are used in the machines

Robust design of the complete machine

- Robot-welded one-piece main frame meets the highest standards of quality and durability
- Thanks to the stable oscillating bar the undercarriage optimally adjusts to all ground conditions
- Massive push frame linkages are designed for long-term service and precisely guide the blade under all working conditions
Powerful Air conditioning

- Nine ideally positioned A/C air outlets: The operator stays cool in any situation
- Auxiliary heater below the seat: Quickly achieves a comfortable temperature during cold weather and maintains a uniform cab temperature

Standard Inching/brake pedal

- Foot pedal in addition to single-lever operation: controls speed and, if necessary, activates brake function
- Slows travel speed without influencing engine performance and hydraulic response. If desired, engine speed is also reduced
Comfort

The PR 714 operator’s workspace is designed for safety and comfort. Generously sized and ergonomically appointed, the comfort cab offers perfect conditions for working productively and without fatigue.

Deluxe cab

Ergonomics

The cab was designed for relaxed, focused work. All controls are clearly laid out within easy reach. The spacious interior allows even tall operators excellent freedom of movement.

Excellent all-around visibility

Built-in ROPS/FOPS protection and the large-sized cab windows give the operator an excellent view of both the blade and the rear equipment. Powerful halogen headlights are standard on the Liebherr PR 714.

Intelligent details

Easily reachable interior and exterior grab handles, adjustable armrests and tinted window panes contribute to operator comfort.

Simple and precise control

Single-lever control with Inching/brake pedal

All driving functions can be comfortably and precisely controlled using a single joystick. The standard decelerator pedal can be set to reduce either travel speed only or travel speed plus engine speed.

Infinite speed control

The operator simply selects the desired maximum speed, and the hydrostatic drive automatically regulates ground speed without any gearshifting and thus without interrupting tractive force.

Safety in every situation

The drive train delivers permanent power to both tracks, even when driving on slopes. Simply pulling back the joystick reliably causes the tractor to slow down and stop. The parking brake, which is automatically activated when the machine is in a standstill, provides additional safety.

Generous standard features

- Comfortable workspace thanks to standard air-suspended seat that can be adjusted to anyone’s preference
- A/C and radio are standard in each Liebherr PR 714
- Additional details such as sliding side windows and 12-Volt outlet for added comfort
### Engine

**Diesel engine**
John Deere PowerTech 6068H

**Emission regulations**
According to 2004/26/CE stage IIIA and EPA/CARB Tier 3

**Rating (ISO 9249)**
90.1 kW / 122 HP

**Rating (SAE J1349)**
90.1 kW / 121 HP

**Rated speed**
2,100 rpm

**Displacement**
6.81 / 414 cu.in

**Design**
6 cylinder in-line engine, water-cooled, turbo-charged, air to air-intercooler

**Injection system**
Common Rail system with direct injection, electronic engine management

**Engine lubrication**
Pressurised lube system, engine lubrication guaranteed for inclination up to 45-degree

**Operating voltage**
24 V

**Alternator**
80 A

**Starter**
7.5 kW

**Batteries**
2 x 117 Ah / 12 V

**Air cleaner**
Dual stage dry type with safety element, pre-cleaner, control light in the operator's cab

**Cooling system**
Combi radiator, comprising a radiator for water, hydraulic fluid and charge air

### Operator’s cab

**Cab**
Resiliently mounted cab with positive pressure ventilation. Integrated ROPS Rollover Protective Structure (ISO 3471) and FOPS Falling Objects Protective Structure (ISO 3449)

**Operator’s seat**
Fully adjustable comfort seat, individually adjustable to operator’s weight

**Monitoring**
Combined analogue / LC display, automatic monitoring, display and warning if deviating operating conditions

### Noise emissions

**Operator sound exposure**
$L_{PA} = 80$ dB(A)

**Exterior sound pressure**
$L_{WA} = 109$ dB(A)

### Track frame

**Mount**
Via separate pivot shafts and an oscillating equaliser bar

**Chains**
lubricated, single grouser shoes, tension via grease tensioner and steel spring

**Links**
42 / 42

**Track rollers/carrrier rollers**
7/1 / 7/1

**Sprocket segments**
5 / 5

**Track shoes width, standard**
560 mm / 22”, 762 mm / 30”

**Track shoes width, option**
610 mm, 710 mm / 24”, 28”

### Hydraulic equipment

**Hydraulic system**
Open Centre

**Pump type**
Gear type pump

**Pump flow max.**
95 l/min / 20.9 Imp. gpm

**Pressure limitation**
220 bar / 3,200 PSI

**Control valve**
4 segments

**Filter system**
Filter 10 µ on return oil circuit

**Control**
Single joystick for all blade functions

### Drawbar pull PR 714

<table>
<thead>
<tr>
<th>Travel speed (km/h)</th>
<th>Drawbar pull (kN)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.0</td>
<td>161</td>
</tr>
<tr>
<td>2.0</td>
<td>150</td>
</tr>
<tr>
<td>3.0</td>
<td>140</td>
</tr>
<tr>
<td>4.0</td>
<td>130</td>
</tr>
<tr>
<td>5.0</td>
<td>120</td>
</tr>
</tbody>
</table>

### Refill capacities

<table>
<thead>
<tr>
<th>System</th>
<th>Capacity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fuel tank</td>
<td>227 l / 49.9 Imp. gal</td>
</tr>
<tr>
<td>Cooling system</td>
<td>23 l / 5.1 Imp. gal</td>
</tr>
<tr>
<td>Engine oil with filter</td>
<td>27.5 l / 6.0 Imp. gal</td>
</tr>
<tr>
<td>Transmission oil tank</td>
<td>65 l / 14.3 Imp. gal</td>
</tr>
<tr>
<td>Hydraulic oil tank</td>
<td>51 l / 11.2 Imp. gal</td>
</tr>
<tr>
<td>Final drive, each</td>
<td>13 l / 2.9 Imp. gal</td>
</tr>
</tbody>
</table>
## Dimensions

<table>
<thead>
<tr>
<th>Dimension</th>
<th>PR 714 XL</th>
<th>PR 714 LGP</th>
</tr>
</thead>
<tbody>
<tr>
<td>A Height over cab</td>
<td>2,997 mm</td>
<td>2,997</td>
</tr>
<tr>
<td></td>
<td>9'10&quot; ft</td>
<td>9'10&quot;</td>
</tr>
<tr>
<td>B Overall length without attachments</td>
<td>3,556 mm</td>
<td>3,556</td>
</tr>
<tr>
<td></td>
<td>11'8&quot; ft</td>
<td>11'8&quot;</td>
</tr>
<tr>
<td>C Distance idler/sprocket centre</td>
<td>2,600 mm</td>
<td>2,600</td>
</tr>
<tr>
<td></td>
<td>8'6&quot; ft</td>
<td>8'6&quot;</td>
</tr>
<tr>
<td>D Height of grousers</td>
<td>56 mm</td>
<td>56</td>
</tr>
<tr>
<td></td>
<td>2.2&quot; in</td>
<td>2.2&quot;</td>
</tr>
<tr>
<td>E Track gauge</td>
<td>1,778 mm</td>
<td>1,981</td>
</tr>
<tr>
<td></td>
<td>5'10&quot; ft</td>
<td>6'6&quot;</td>
</tr>
<tr>
<td>F Width over tracks(^1)</td>
<td>2,338 mm</td>
<td>2,743</td>
</tr>
<tr>
<td></td>
<td>7'8&quot; ft</td>
<td>9'</td>
</tr>
<tr>
<td>H Ground clearance</td>
<td>437 mm</td>
<td>437</td>
</tr>
<tr>
<td></td>
<td>1'5&quot; ft</td>
<td>1'5&quot;</td>
</tr>
</tbody>
</table>

\(^1\) Track shoes 560 mm / 22" (XL) resp. 762 mm / 30" (LGP)
### 6-way-blade with inside mounted push frame

<table>
<thead>
<tr>
<th></th>
<th>6-way-blade (standard)</th>
<th>6-way-blade (standard with 25° angle adjustment)</th>
<th>6-way-blade (wide)</th>
<th>6-way-blade (wide with foldable corners)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>XL</td>
<td>LGP</td>
<td>XL</td>
<td>LGP</td>
</tr>
<tr>
<td>Blade capacity according ISO 9246</td>
<td>m³</td>
<td>2.63</td>
<td>2.77</td>
<td>2.77</td>
</tr>
<tr>
<td></td>
<td>yd³</td>
<td>3.44</td>
<td>3.62</td>
<td>3.62</td>
</tr>
<tr>
<td>Height of blade</td>
<td>mm</td>
<td>1,100</td>
<td>1,100</td>
<td>1,100</td>
</tr>
<tr>
<td></td>
<td>ft in</td>
<td>3'7&quot;</td>
<td>3'7&quot;</td>
<td>3'7&quot;</td>
</tr>
<tr>
<td>Height of blade with spill guard</td>
<td>mm</td>
<td>1,340</td>
<td>1,340</td>
<td>1,340</td>
</tr>
<tr>
<td></td>
<td>ft in</td>
<td>4'5&quot;</td>
<td>4'5&quot;</td>
<td>4'5&quot;</td>
</tr>
<tr>
<td>Width of blade</td>
<td>mm</td>
<td>3,048</td>
<td>3,231</td>
<td>3,231</td>
</tr>
<tr>
<td></td>
<td>ft in</td>
<td>10'0&quot;</td>
<td>10'7&quot;</td>
<td>10'7&quot;</td>
</tr>
<tr>
<td>Width of blade angled</td>
<td>mm</td>
<td>2,769</td>
<td>3,036</td>
<td>2,928</td>
</tr>
<tr>
<td></td>
<td>ft in</td>
<td>9'1&quot;</td>
<td>10'0&quot;</td>
<td>9'7&quot;</td>
</tr>
<tr>
<td>Transport width</td>
<td>mm</td>
<td>2,769</td>
<td>2,998</td>
<td>2,998</td>
</tr>
<tr>
<td></td>
<td>ft in</td>
<td>9'1&quot;</td>
<td>10'0&quot;</td>
<td>9'10&quot;</td>
</tr>
<tr>
<td>Lifting height</td>
<td>mm</td>
<td>991</td>
<td>991</td>
<td>991</td>
</tr>
<tr>
<td></td>
<td>ft in</td>
<td>3'3&quot;</td>
<td>3'3&quot;</td>
<td>3’3&quot;</td>
</tr>
<tr>
<td>Digging depth</td>
<td>mm</td>
<td>533</td>
<td>533</td>
<td>533</td>
</tr>
<tr>
<td></td>
<td>ft in</td>
<td>1'9&quot;</td>
<td>1’9“</td>
<td>1’9“</td>
</tr>
<tr>
<td>Max. blade pitch adjustment</td>
<td>7°</td>
<td>7°</td>
<td>7°</td>
<td>7°</td>
</tr>
<tr>
<td>Angle adjustment</td>
<td>25°</td>
<td>20°</td>
<td>25°</td>
<td>25°</td>
</tr>
<tr>
<td>Max. blade tilt</td>
<td>mm</td>
<td>424</td>
<td>445</td>
<td>445</td>
</tr>
<tr>
<td></td>
<td>ft in</td>
<td>1’5“</td>
<td>1’6”</td>
<td>1’6”</td>
</tr>
<tr>
<td>Overall length, blade straight</td>
<td>mm</td>
<td>4,775</td>
<td>4,775</td>
<td>4,775</td>
</tr>
<tr>
<td></td>
<td>ft in</td>
<td>15’8”</td>
<td>15’8”</td>
<td>15’8”</td>
</tr>
<tr>
<td>Operating weight</td>
<td>kg</td>
<td>12,529</td>
<td>12,936</td>
<td>12,830</td>
</tr>
<tr>
<td></td>
<td>lb</td>
<td>27,622</td>
<td>28,519</td>
<td>28,285</td>
</tr>
<tr>
<td>Ground pressure</td>
<td>kg/cm²</td>
<td>0.43</td>
<td>0.33</td>
<td>0.35</td>
</tr>
<tr>
<td></td>
<td>PSI</td>
<td>6.11</td>
<td>4.69</td>
<td>4.98</td>
</tr>
</tbody>
</table>

1 With angling cylinder unbolted for transport
2 With 710 mm / 28” track shoes
3 Lubricants and fuel, 6-way blade, operator, track shoes 560 mm / 22” (XL) resp. 762 mm / 30” (LGP)
Rear attachment

### Ripper 3 shanks

<table>
<thead>
<tr>
<th></th>
<th>A Ripping depth (max. / min.)</th>
<th>B Lifting height (max. / min.)</th>
<th>C Overall length, attachment raised</th>
<th>D Overall length, attachment lowered</th>
<th>E Toolbar width</th>
<th>F Distance between teeth</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>mm</td>
<td>mm</td>
<td>mm</td>
<td>mm</td>
<td>mm</td>
<td>mm</td>
<td>kg</td>
</tr>
<tr>
<td></td>
<td>ft in</td>
<td>ft in</td>
<td>ft in</td>
<td>ft in</td>
<td>ft in</td>
<td>ft in</td>
<td>lb</td>
</tr>
<tr>
<td></td>
<td>563 / 458</td>
<td>584 / 479</td>
<td>1,027</td>
<td>1,312</td>
<td>1,930</td>
<td>806</td>
<td>1,444</td>
</tr>
<tr>
<td></td>
<td>1'10&quot; / 1'6&quot;</td>
<td>1'11&quot; / 1'7&quot;</td>
<td>3’4”</td>
<td>4’4”</td>
<td>6’4”</td>
<td>2’8”</td>
<td>3,183</td>
</tr>
</tbody>
</table>

### Drawbar rear

<table>
<thead>
<tr>
<th></th>
<th>A Additionnal length</th>
<th>B Drawbar pin diameter</th>
<th>C Height of jaw</th>
<th>D Ground clearance</th>
<th>Jaw opening</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>mm</td>
<td>mm</td>
<td>mm</td>
<td>mm</td>
<td>mm</td>
<td>kg</td>
</tr>
<tr>
<td></td>
<td>ft in</td>
<td>ft in</td>
<td>ft in</td>
<td>ft in</td>
<td>ft in</td>
<td>lb</td>
</tr>
<tr>
<td></td>
<td>384</td>
<td>45</td>
<td>585</td>
<td>459</td>
<td>95</td>
<td>88</td>
</tr>
<tr>
<td></td>
<td>1’3”</td>
<td>1.7”</td>
<td>1’11”</td>
<td>1’6”</td>
<td>3.74”</td>
<td>194</td>
</tr>
</tbody>
</table>
### Equipment

#### Basic machine
- Towing hitch rear
- Tow switch
- Towing lug front
- Battery compartment, lockable
- Ether start aid
- Fan guard
- Engine doors, hinged, lockable
- Lugs for crane lifting
- Air filter, dry type, dual stage
- Tool kit
- LiDAT
- – Data transmission system
- + Trimble ready kit
- + Engine air pre-cleaner

#### Track frame
- Track frame, closed
- Sprocket segments, bolted
- Master link, two-piece
- Tracks oil-lubricated
- Track frames, oscillating
- Pivot shaft, separate
- Track guard
- Undercarriage XL
- Undercarriage LGP

#### Travel drive
- Parking brake, automatic
- Function control, automatic
- Final drive, spur gear
- Single joystick control
- Load limit control, electronic
- Electronic transmission control
- Multiple speed settings
- Hydrostatic travel drive
- Inching brake pedal
- Oil cooler
- Reverse travel speed programmable
- Safety lever

#### Electrical system
- Starter motor 7.5 kW
- Working lights, front
- Working lights, rear
- Batteries, heavy duty cold start, 2 units
- Battery main switch, mechanical
- On-board system 24 V
- Alternator 80 A
- Back up alarm
- Horn
- Beacon
- Additional lights, front and rear

#### Operator’s cab
- Storage box
- Armrests 3D adjustable
- Pressurised cab with air filter
- Operator’s seat, 6-way adjustable
- Operator’s seat, air suspended, tiltable
- Dome light
- Air conditioning
- Knee cushion pads
- Lumber support, adjustable
- Radio
- ROPS / FOPS
- Rear mirror, inside
- Safety glass, tinted
- Windshield washer system
- Windshield wipers front, rear and doors with intermittent function
- Sliding window left
- Sliding window right
- Socket 12 V
- Seat back extension
- Hot water heating
- Fire extinguisher
- Rear attachment mirror, outside mounted

#### Control and warning lights
- Display travel speed range (digital)
- Display engine coolant temperature (analogue)
- Display charging voltage (digital)
- Display engine oil pressure (analogue)
- Display servo-pressure working hydraulics (digital)
- Display fuel level (analogue)
- Hour meter (digital)
- Indicator light battery charging
- Indicator light parking brake
- Indicator light deaccelerator mode
- Indicator light joystick neutral position
- Indicator light transmission oil temperature
- Indicator light working hydraulics oil temperature
- Indicator light for laser control
- Indicator light fuel water separator
- Indicator light transmission oil filter
- Indicator light working hydraulics oil filter
- Indicator light air filter restriction
- Indicator light seat belt

#### Hydraulic equipment
- Hydraulic control ripper
- Working hydraulics oil return filter
- Float position blade

#### Attachments
- Spill guard for blade
- Drawbar rear, rigid
- Ripper 3 shanks
- 6-way blade XL
- 6-way blade XL with foldable corners
- 6-way blade LGP standard, 20° angle adjustment
- 6-way blade LGP standard, 25° angle adjustment
- 6-way blade LGP wide
- 6-way blade LGP wide with foldable corners

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• = Standard
+ = Option

Options and/or special attachments, supplied by vendors other than Liebherr, are only to be installed with the knowledge and approval of Liebherr to retain warranty.