



## Accra-Pull™ caterpillar haul-offs Model UA-P75 range

Nothing beats a Gillard caterpillar for precise speed control. The robust construction guarantees reliable operation, shift after shift. The latest direct-drive Lenze AC motor technology is used, along with twin drive controllers for perfect belt sync.

### The main benefits to the user are:

- Superb speed holding for improved extrusion pull control.
- Siemens colour touch-screen panel (4.3") for fully digital speed adjustment.
- Twin Lenze AC brushless servo motor & servo drives as standard.
- Poly-vee caterpillars belts & rollers for perfect tracking.
- Sealed-for-life planetary style boom gearboxes for zero backlash.
- Ultra-durable construction. Long life measured in decades.
- Flexible specification. You can have the machine you really want.
- Wide choice of caterpillar belt coverings available.

### Mode of Operation:

#### Accra-Pull™ Model UA-P75 caterpillar haul-off range

The UA-P75 range is a compact, high-performance series of pullers. They are suitable for the vast majority of plastic or rubber, flexible or rigid, pulling duties.

### The main features of the machine are:

**Motor & drive unit:** Twin Lenze brushless AC servo motors with twin Lenze AC servo drives are standard.

**Drive train:** The twin direct-drive AC servo motors are flange mounted onto light-weight zero-backlash planetary gearboxes. In turn, these gearboxes fit directly onto the horizontal drive shafts powering the caterpillar belts. All gearboxes are oil-filled & sealed-for-life. No regular maintenance is needed.

**Belt speed synchronisation:** Each of the twin direct-drive servo motors is controlled by its own Lenze AC drive. The drives are configured in master/slave mode.

The belt speeds are locked together electronically; there is no possibility for one belt to go faster, or slower, than the other. They run at exactly the same speed.

**Caterpillar belts:** Driven by a horizontal shaft from the boom gearboxes. The belts are of a poly-vee style covered with heavy-duty cellular polyurethane (PU) as standard (alternatives are available). The poly-vee design allows maximum grip with perfect belt tracking.

**Colour touch-screen control panel:** Siemens full colour 109 mm (4.3") panel with fully digital control of the belt speed & display showing linespeed in m/min.



Siemens 4.3" colour touch-screen control panel now standard.

Accra-Pull™ Model UA-P75 caterpillar haul-off/puller range:				
Model:	Belt size - width x length (mm):	Motor size (Nm):	Torque effort max. (Kg): *	Max. linespeed (m/min): **
UA-P75-SD	75 wide x 550 long	2 x 2.3 (4.6)	400	5 - 150
UA-P75-HD	75 wide x 550 long	2 x 3.8 (7.6)	550	10 - 200

\* Tractive effort is dependent on the motor size selected & the maximum linespeed of the caterpillar. Machines can be geared to a number of maximum speeds within the linespeed ranges shown above.

\*\* The minimum linespeed possible is normally 0.5% of the maximum. See over for more details.

[www.gillardcutting.com](http://www.gillardcutting.com)

For more information on our product range.

# Model UA-P75 caterpillar haul-offs

## Precision pulling. Constant speed.

### Maximum linespeeds & tractive efforts:

The maximum pulling force of the caterpillar is related to the motor power and the maximum linespeed of the caterpillar. Some indicative figures are shown in the table below. Please note that other maximum linespeeds are available.

Motor Power:	10 m/ min:	20 m/ min:	30 m/ min:	50 m/ min:	80 m/ min:	100 m/ min:
4.6 Nm	400 Kg	200 Kg	140 Kg	110 Kg	95 Kg	75 Kg
7.6 Nm	550 Kg	275 Kg	200 Kg	150 Kg	110 Kg	90 Kg

### Standard specification:

<b>Mechanical Specification:</b>	<ul style="list-style-type: none"> <li>1000 mm +50 mm (1025 mm ± 25 mm) line height.</li> <li>Alternative line heights available at extra cost.</li> <li>Right-to-left product feed. Left-to-right available.</li> <li>Robust fabricated steel base fitted with 75 mm diameter plastic swivel castors and plated steel floor locks with plastic pad feet.</li> <li>Easily removable panels for fast maintenance access.</li> <li>Base painted semi-gloss RAL 7035 light grey.</li> <li>Integral electrical cabinet painted semi-gloss RAL 7035 light grey.</li> <li>Electrical cabinet with fan ventilation. Protected to IP66. Climate control available as an option.</li> </ul>
<b>Safety guarding:</b>	<ul style="list-style-type: none"> <li>Fully enclosing safety guard fitted with coded magnetic door interlock.</li> <li>Inlet &amp; outlet safety tunnel guards.</li> <li>Internal safety relay with reset (via touch-screen).</li> <li>Emergency stop push buttons on inlet &amp; outlet sides.</li> <li>Guards painted RAL 2004 bright orange.</li> <li>In compliance with all relevant EN Standards.</li> <li>Fitted with a CE plate and provided with a Certificate of Conformity or Certificate of Incorporation<sup>2</sup>.</li> </ul>
<b>Operator controls and indicator lamps:</b>	<ul style="list-style-type: none"> <li>Siemens colour 109 mm (4.3") TFT LCD touch-screen control panel displaying linespeed in m/min.</li> <li>480 x 272 pixel resolution. 140 mm x 116 mm panel size.</li> <li>Four programmable function buttons.</li> <li>ProfiNET (Ethernet) communications interface.</li> <li>Digital control of belt speed in 0.01 m/min increments.</li> <li>Display of actual belt speed in 0.1 m/min increments.</li> <li>Power connected indicator lamp (white).</li> <li>Safety circuit re-set button (via touch-screen).</li> <li>Caterpillar motor on/off buttons (via touch-screen).</li> <li>Two emergency stop push buttons on inlet &amp; outlet.</li> </ul>
<b>Guide-in system:</b>	<ul style="list-style-type: none"> <li>Two vertical &amp; one horizontal rollers.</li> <li>Vertical rollers fully adjustable to ensure correct product alignment onto belts.</li> <li>Horizontal roller adjustable up &amp; down.</li> </ul>
<b>Caterpillar belts:</b>	<ul style="list-style-type: none"> <li>Twin poly-vee belts for perfect tracking &amp; improved tractive effort.</li> <li>Continuous covering of 6 mm thick heavy-duty cellular Polyurethane (alternatives available).</li> <li>Easily adjustable &amp; removable.</li> </ul>
<b>Height adjustment:</b>	<ul style="list-style-type: none"> <li>Twin hand-wheels adjusting both belts independently around the centre-line.</li> <li>Air boom &amp; motorized boom options available.</li> </ul>

### Motor & drive options:

<b>Standard AC servo motor/ drive package:</b>	<ul style="list-style-type: none"> <li>Lenze AC brushless servo motors (2) with resolver feedback control &amp; twin Lenze digital servo drives (2).</li> <li>Twin zero backlash planetary gearboxes.</li> <li>1000:1 speed range from maximum linespeed.</li> <li>Digital speed control via touch-screen panel.</li> <li>Ultimate speed holding &amp; performance.</li> </ul>
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### Popular optional items:

<b>UA-2 Digital linespeed indicator:</b>	<ul style="list-style-type: none"> <li>Continuous LED display of extrusion linespeed.</li> <li>Display shows m/min in 0.1 m increments.</li> <li>Not a calibrated instrument.</li> </ul>
<b>UA-3 Digital length counter:</b>	<ul style="list-style-type: none"> <li>Continuous LED display of measured length.</li> <li>Display shows metres in 0.1 m increments.</li> <li>Re-set button to set the counter to zero.</li> </ul>
<b>UA-4 Belt position readout counters:</b>	<ul style="list-style-type: none"> <li>Digital (mechanical) readout showing the position of each belt as boom is moved up &amp; down.</li> <li>Display shows distance in 1 mm increments.</li> <li>Allows accurate re-positioning of the belts.</li> </ul>
<b>UA-5 Air operated upper boom:</b>	<ul style="list-style-type: none"> <li>Raising &amp; lowering of upper belt by air cylinder.</li> <li>Operated by push buttons fitted into control panel.</li> <li>Adjustable nip-stop to limit downward movement.</li> <li>Lower belt adjusted by hand wheel as standard.</li> </ul>
<b>UA-7 Memory turret stop assembly:</b>	<ul style="list-style-type: none"> <li>Rotating nip-pressure stop for use with option S-1.</li> <li>Six mechanical stops which can be set to differing heights to match differing nip distance requirements.</li> <li>Rotated by hand to select the correct nip distance.</li> </ul>
<b>UA-9 Motorized belt height adjustment:</b>	<ul style="list-style-type: none"> <li>Motorized adjustment of upper &amp; lower belt around centre line.</li> <li>Both belts independently adjustable via push buttons.</li> <li>Digital LED display of distance between belts.</li> </ul>
<b>UA-13 Remote control:</b>	<ul style="list-style-type: none"> <li>Remote adjustment of caterpillar speed via ten-turn potentiometer fitted to control box at end of 6 m cable.</li> </ul>
<b>UA-49 0-10 V speed output:</b>	<ul style="list-style-type: none"> <li>To allow speed control via 0 –10 V signal.</li> <li>Typical use would be for automatic control of caterpillar speed for in-line sizing device or for speed linking two or more caterpillars together.</li> </ul>
<b>UA-19 Stainless steel drip tray:</b>	<ul style="list-style-type: none"> <li>Full stainless steel tray which covers the base.</li> <li>Designed to catch liquid running off the belts.</li> </ul>
<b>UA-25 Stainless steel frame &amp; base:</b>	<ul style="list-style-type: none"> <li>Full stainless steel construction including base frame, fully enclosing guard &amp; belt assembly.</li> <li>Either painted or left unpainted with dull polished finish.</li> </ul>

Many more options are available. Please contact us for details.

<sup>1</sup> Specifications subject to change without notice. Please consult the factory for details of any changes.  
<sup>2</sup> Which Certificate will depend upon the exact configuration of the machine and the way it is installed.

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