



Accra-Pull™ caterpillar haul-off 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 are:

- Superb speed holding for improved extrusion pull control.
- Siemens colour touch-screen panel (109 mm) for fully digital speed adjustment.
- Twin AC brushless servo motors & servo drives as standard.
- Poly-vee caterpillars belts & rollers for perfect tracking.
- Sealed-for-life planetary boom gearboxes for zero backlash.
- Ultra-durable construction. Long life measured in decades.
- Flexible specification. You can have the machine you 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:

Colour touch-screen control panel: full colour Siemens 109 mm (4.3") panel for digital control of the belt speed.

Motor & drive unit: Twin brushless AC servo motors with twin AC servo drives are standard. We use Lenze as our drive partner.

Drive train: The twin direct-drive AC servo motors are mounted onto zero-backlash planetary gearboxes. These gearboxes then power 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 belt speeds are locked together electronically. It is impossible for one belt to go faster or slower than the other. They run at exactly the same speed.

Caterpillar belts: Driven directly by the boom planetary gearboxes. The belts are of a poly-vee style covered with heavy-duty sponge neoprene as standard (alternatives are available). The poly-vee design allows maximum product grip with perfect belt tracking.



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)	390	5 - 150
UA-P75-HD	75 wide x 550 long	2 x 3.8 (7.6)	685	10 - 150

* 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.

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For more information on our product range.

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Model UA-P75 caterpillar haul-off

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:	90 m/ min:	150 m/ min:
4.6 Nm	390 Kg	360 Kg	320 Kg	200 Kg	115 Kg	60 Kg
7.6 Nm	685 Kg	640 Kg	590 Kg	365 Kg	215 Kg	105 Kg

Standard specification:

Mechanical Specification:	<ul style="list-style-type: none"> 1000 mm ± 50 mm line height. Alternatives available. Right-to-left product feed. Left-to-right available. Robust fabricated steel base fitted with 75 mm diameter plastic swivel castors and plated steel floor locks/pad feet. Easily removable panels for fast maintenance access. Base painted semi-gloss RAL 7035 light grey. Integral electrical cabinet painted semi-gloss RAL 7035 light grey.
Safety guarding:	<ul style="list-style-type: none"> Fully enclosing safety guard fitted with PILZ coded magnetic door interlock. Inlet safety tunnel guard. Internal safety relay with reset button. Two emergency stop push buttons. Guards painted RAL 2004 bright orange. In compliance with relevant EN & ISO Standards. Fitted with a CE plate & provided with a Certificate of Conformity or Certificate of Incorporation².
Operator controls & indicator lamp:	<ul style="list-style-type: none"> Colour 109 mm (4.3") Siemens widescreen TFT touch-screen control panel displaying belt speed. 480 x 272 pixel screen resolution. 141 mm x 116 mm panel size. Four function buttons (programmable). PROFINET (Ethernet) interface. 10MB user memory. Power connected indicator light (white). Belt speed control adjustment (0.01 m/min). Caterpillar motor on/off push buttons on touch-screen panel.
Guide-in system:	<ul style="list-style-type: none"> Two vertical & one horizontal rollers. Vertical rollers fully adjustable to ensure correct product alignment onto belts.
Caterpillar belts:	<ul style="list-style-type: none"> Twin poly-vee belts for perfect tracking & improved tractive effort. Continuous covering of 8 mm thick heavy-duty sponge PU Polyurethane (alternatives available). Belts are easily adjustable & removable.
Height adjustment:	<ul style="list-style-type: none"> Twin hand-wheels adjusting both belts independently around fixed centre-line. Air boom & motorized boom options available.
Documents:	<ul style="list-style-type: none"> Operating manual and wiring diagrams. CE Certificate of Conformity or Incorporation².
Power requirement:	<ul style="list-style-type: none"> 400V three phase 50 Hz supply with earth. Alternatives available. Low voltage (24V) controls.

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

AC servo motors & drives:

AC servo motor/drive package:

- Lenze AC brushless servo motors (2) with resolver feedback control & twin Lenze digital servo drives (2).
- Twin zero backlash planetary gearboxes.
- 1000:1 speed range from maximum linespeed.
- Digital speed control via Siemens touch-screen panel.
- To allow speed control via 0 –10 V or 4-20 mA signal.
- Typical use would be for automatic control of caterpillar speed for in-line sizing device or for speed linking two or more caterpillars together.

Popular optional items:

OUA-1 Digital linespeed indicator:	<ul style="list-style-type: none"> Continuous large LED display of extrusion linespeed. Display shows m/min in 0.1 m increments. Not a calibrated instrument.
OUA-2 Digital length counter:	<ul style="list-style-type: none"> Continuous large LED display of measured length. Display shows metres in 0.1 m increments. Re-set button to set the counter to zero.
OUA-3 Belt position readout counters:	<ul style="list-style-type: none"> Digital (mechanical) readout showing the position of each belt as boom is moved up & down. Display shows distance in 1 mm increments. Allows accurate re-positioning of the belts.
OUA-4 Air operated upper boom:	<ul style="list-style-type: none"> Raising & lowering of upper belt by air cylinder. Operated by push buttons fitted into control panel. Adjustable nip-stop to limit downward movement. Lower belt adjusted by hand wheel as standard.
OUA-6 Memory turret stop assembly:	<ul style="list-style-type: none"> Rotating nip-pressure stop for use with option S-1. Six mechanical stops which can be set to differing heights to match differing nip distance requirements. Rotated by hand to select the correct nip distance.
OUA-8 Motorized belt height adjustment:	<ul style="list-style-type: none"> Motorized adjustment of upper & lower belt around centre line. Both belts independently adjustable via push buttons. Digital LED display of distance between belts.
OUA-11 Remote control:	<ul style="list-style-type: none"> Remote adjustment of caterpillar speed via ten-turn potentiometer fitted to control box at end of 6 m cable.
OUA-17 Stainless steel drip tray:	<ul style="list-style-type: none"> Full stainless steel tray which covers the base. Designed to catch liquid running off the belts.
OUA-23 Stainless steel frame & base:	<ul style="list-style-type: none"> Full stainless steel construction including base frame, fully enclosing guard & belt assembly. Either painted or left unpainted with dull polished finish.

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

Gillard Cutting Technology

Alexandra Way, Ashchurch Business Centre, Tewkesbury Gloucestershire, GL20 8NB, England - UK.

Tel: +44 (0) 1684 290 243

Email: sales@gillardcutting.com

www.gillardcutting.com

