



Accra-Pull™ caterpillar haul-offs Model UA-P150 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.
- Colour touch-screen panel (109 mm) 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 gear boom gearboxes for zero backlash.
- Ultra-durable construction. Long lifespan measured in decades.
- Flexible specification so you can have the machine you want.
- Wide choice of caterpillar belt coverings available.

Mode of Operation:

Accra-Pull™ Model UA-P150 caterpillar haul-off range

The UA-P95 range is a compact, high-performance series of pullers. They are suitable for the vast majority of plastic or rubber, flexible or rigid, pulling applications.

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: full colour TFT 109 mm (4.3") Lenze panel with fully digital control of the belt speed. Analog 10-turn pot. available as an option.



Accra-Pull™ Model UA-P150 caterpillar haul-off/puller range:

Model:	Belt size - width x length (mm):	Motor size (Nm):	Torque effort max. (Kg): *	Max. linespeed (m/min): **
UA-P150	150 wide x 600 long	2 x 2.3 (4.6)	220 - 400	5 - 150
UA-P150-HD	150 wide x 600 long	2 x 3.8 (7.6)	320 - 450	10 - 200
UA-P150L	150 wide x 800 long	2 x 2.3 (4.6)	220 - 400	5 - 150
UA-P150L-HD	95 wide x 800 long	2 x 3.8 (7.6)	320 - 450	5 - 150
UA-P150XL	95 wide x 1000 long	2 x 3.8 (7.6)	320 - 450	5 - 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-P150 caterpillar haul-offs



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	500 Kg	250 Kg	190 Kg	150 Kg	110 Kg	90 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 coded magnetic door interlock. Inlet safety tunnel guard. Internal safety relay with reset illuminated button. Emergency stop push button on inlet side. Guards painted RAL 2004 bright orange. In compliance with EN ISO Standards. Fitted with a CE plate and provided with a Certificate of Conformity or Certificate of Incorporation².
Operator controls and indicator lamps:	<ul style="list-style-type: none"> Colour 109 mm (4.3") Lenze TFT touch-screen control panel displaying belt speed. 480 x 272 pixel resolution. 130 mm x 104 mm panel size. AMD Cortex A8 chip running at 800 MHz. Windows Embedded Compact 7 software. SD storage card (512MB) for program back-up. Safety circuit okay indicator lamp (blue). Caterpillar motor on/off push buttons with orange indicator lamp.
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 Neoprene (alternatives available). 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.
Power requirement:	<ul style="list-style-type: none"> 400V three phase 50 Hz supply with earth. Alternatives available. Low voltage (24V) controls.
After-sales support:	<ul style="list-style-type: none"> One year parts warranty with express delivery during warranty period. Consumables excluded. Life-time telephone & email support.

Motor & drive options:

Standard AC servo motor/ drive package:	<ul style="list-style-type: none"> 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 touch-screen panel.. Ultimate speed holding & performance.
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Popular optional items:

OUA-1 Digital linespeed indicator:	<ul style="list-style-type: none"> Continuous 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 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-14 0-10 V or 4-20 mA speed output:	<ul style="list-style-type: none"> 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.
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-24 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.

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.

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