

www.gillardcutting.com

Gillard

**Innovators in Extrusion
Cutting Technology**
Since 1968





Committed to Extrusion Cutting Excellence

Founded in 1968, we are a leading world specialist in extrusion cutting.

Innovation, combined with decades of experience, has resulted in one of the most technically advanced ranges of extrusion cutting machines on the market.

- Raising the bar on cut length accuracy
- Increased productivity starts here
- Designed for maximum uptime
- Value-for-money for a quick pay-back
- Custom-made at a standard cost
- Durability as standard



An easy-to-use Siemens colour touch-screen panel is standard on all cutter models.

The traffic light beacon shows the machine status.

All Servo-Torq® combi cutters have Lenze multi-axis servo drives fitted for optimum cutting performance.

Communications may include: a link to sizing device, ProfiNet, remote Internet support.

Direct drive servo cutter motor for less maintenance and improved performance*.

Smooth product feed for better cut length accuracy.



High speed fly-knife blade gives an excellent cut finish.

Slide-away cutter head for easy line start-up, blade and guide changing.

Compact machine footprint. Easy to move with castors and floor locks.

Twin direct-drive AC servo motors power the belts through zero-backlash planetary gearboxes.

* Direct drive motors fitted to ST-Medi, ST-LT & ST-MT combi cutters only.

Solving your extrusion cutting problems

www.gillardcutting.com

Gillard

Plastics Extrusion

Our experience in cutting plastic extrusions is extensive. In-house knowledge of blade technology provides affordable cutting solutions for the vast majority of plastic tube, hose, pipe and profile applications.



Rubber Extrusion

Our machines are engineered for cutting rubber under challenging conditions, where water and anti-tack solutions are often present.

We can handle hot and sticky materials thanks to standard features such as blade lubrication.

Medical Extrusion

A wide variety of medical products can be cut with our Servo-Torq® technology. These include all types of tubing, including smooth, bubble, bump, taper and cuffed tube.

All our medical cutters are configured to work in a clean-room environment.



Food Extrusion

Our rotary cutters are ideal for the in-line cutting of extruded food products such as flat bread, dog chews and dental sticks, croutons and bread sticks.

All machines are optimised for this market. This means improved hygiene standards, integrated dust extraction system, heat resistant components and the ability to operate with multiple lanes of extruded product.

Consumer Extrusion

We have particular expertise in cutting non-polymer extrusions, such as toilet blocks and gels, play dough, adhesives, putty and similar materials.



www.gillardcutting.com

for more information on our product range

Gillard

Servo-Torq[®] Rotary cutters

for all extruded products

The Servo-Torq[®] series of fly-knife cutters extend from table-top versions to machines with a cutting capacity of up to 300 mm outer diameter, with seven levels of cutting power.

Every Servo-Torq[®] cutter uses the latest digital AC servo motor and drive technology to control the flying knife rotary blade cutting action.

The high-level performance ensures that every cutting requirement can be precisely matched at an affordable price.

- Widest range of cutting capacities and motor powers.
- Blade lubrication as standard for an improved cut quality.
- Siemens colour touch screens.
- Digital AC servo drive technology from Lenze.
- Automatic step-less cutting from 1 to 2,000 cuts/minute.
- ProfiNet standard with remote support available via the internet using a VPN router.



Servo-Torq[®] Free-standing

Ø 40 - 50 - 100 - 150
200 - 250 - 300 mm

A stand-alone rotary cutter for when you already have a caterpillar machine.

An encoder length control system is provided, including a measuring wheel designed to run on the caterpillar belt or directly on the product.

Cutter power ranges for light-duty to super-heavy-duty. Torque enhancer gearboxes are available to increase the cutting power significantly.



Servo-Torq[®] Free standing with pre-heater

Ø 40 - 50 - 100 mm

A stand-alone rotary cutter with an integral pre-heater tunnel. This system is recommended for cutting rigid plastic pipe and profile where some extra warmth is needed in the product to achieve a nice swarf-free cut finish.

The pre-heater source is either infra-red or hot air.



Servo-Torq[®] Mini Combination

Ø 30 mm

Our compact table-top rotary cutter is aimed at lighter-duty, off-line, cutting applications. Despite the small footprint, this machine can perform.

The machine can also be supplied as part of a complete off-line cutting cell with sonar loop and pay-off system.

www.gillardcutting.com

for more information on our product range

Servo-Torq[®] Rotary cutter range

Model:	Max. outer diameter capacity (mm):	Servo motor size (Nm):	Servo drive rating (A):	Peak Torque (Nm):	Equivalent Power (kW):
ST-Mini	30	4.5	7.3	23	2.4
ST-Mini Slider	30	4.5	7.3	23	2.4
ST-Medi	30	3.8	5.0	14.8	2
ST-LT	40, 50	7.5	10	24.7	4
ST-MT	40, 50, 100*	11	13	41.5	5.5
ST-HD	40, 50, 100, 150*	14	16.5	51.5	7.5
ST-XHD	40, 50, 100, 150, 200*, 250*, 300*	17	23.5	71.6	11
ST-XXHD	40, 50, 100, 150, 200*, 250*, 300*	21	39.0	97.6 – 378	15 – 66

*Free-standing cutters only.



Servo-Torq[®] Mini Slider Combination

Ø 30 mm

With a slide-away cutter head and floor-standing base, this machine is perfect for lighter duty in-line cutting applications. It can handle most flexible plastics and rubbers up to 30 mm outer diameter.

Despite the small size this machine features twin direct-drive servo motors powering the Accra-Feed[™] infeeder belts and a multi-axis servo drive control system.



Servo-Torq[®] Medi Combination

Ø 30 mm

Precision engineered for cutting medical tubing. A clean-room finish is standard. Very high linespeeds are combined with an ultra-precise cut, ideal for high accuracy applications.

The integral Accra-Feed[™] caterpillar puller belts have been specially designed to ensure optimum feeding of even the smallest tube into the cutting area.

Options available include bubble, taper, bump and cuffed tube functions.



Servo-Torq[®] LT & MT Combination

Ø 40 - 50 mm

Our workhorse rotary cutters combined with an integral Accra-Feed[™] caterpillar infeeder/puller fitted with 550 mm long belts. A slide-away cutter head is standard to assist with line start-up and blade changing.

The fly-knife blade is powered directly by the cutter servo motor for a clean, square, cut end.

These are “full-on” production machines suitable for all medium-duty cutting applications.



Servo-Torq[®] HD & XHD Combination

Ø 40 - 50 - 100 - 150 mm

Our heavy-duty rotary cutters with integral Accra-Feed[™] caterpillar infeeder/puller.

The cutter motors can be rated up to 17 Nm (15 kW). The integrated puller/infeeder is available with belt lengths of 600 mm, 800 mm or 1000 mm.

These heavier-duty units are capable of cutting tough extruded products such as rigid plastic pipe and profile and Kevlar[®] reinforced rubber hose.



Servo-Torq® XXHD Combination

Ø 40 - 50 - 100 - 150 mm

Our super heavy-duty rotary cutters with integral Accra-Feed™ caterpillar infeed/puller. A torque enhancer gearbox is fitted to the cutter motor to increase the cutting power.

The gearbox boosts the cutting power level up to a massive 378 Nm (66 kW). The integrated puller/infeeder is available with belt lengths of 600 mm, 800 mm or 1000 mm.

This is the machine for the heaviest plastic pipes as well as solid cured rubber profiles.



Servo-Torq® Cuffed tube cutters

Ø 25 - 50 mm

Designed for cuffed tube applications such as complex automotive fuel and washer pipes, medical respirator tubing and concertina plumbing pipe.

Three types of technology are available to detect the cuff: digital camera, optical sensor and laser.

Our specially developed software ensures accurate cutting on the cuff. A number of different cut lengths can be handled per corrugation chain, along with several scrap lengths.



Servo-Torq® Rim block, gel & soap cutters

Designed for high-speed cutting in-line after the plodder extruder. We can supply machines to handle up to four lanes of product. Output rates of up to 600 cuts/minute are possible per lane.

All machines are engineered with stainless fabrications for a hygienic, rust-free, easy-clean, finish.



Servo-Torq® Food extrusion cutting

These machines are optimised for food extrusion cutting. This means stainless steel construction, industry-standard hygienic designs, an integrated dust extraction system, heat resistant components and the ability to operate with multiple lanes of extruded food product.

Products as varied as toasted flat bread, croutons, bread-sticks and Crostini can be cut with our system.



Servo-Torq® Cutters for dog chews & dental sticks

With cutting capacities up to 150 mm wide, one machine to handle single or multiple ropes. When larger sizes are being extruded we can supply a twin cutter system.

All machines are finished in stainless steel and built to the highest food-quality hygiene standards.



Circular blade cutters & saws

To accompany our range of fly-knife rotary cutters we also have an extensive selection of circular blade cutting systems for tougher extruded products.

www.gillardcutting.com



Travelling saws

Servo motor driven moving carriage

Ø 50 - 100 - 150 mm

These up-stroke saws are designed for cutting rigid plastic pipe and profile. The moving carriage is powered by an AC servo motor.

The fully adjustable clamp system guarantees a square cut end, while the swarf extraction system keeps the cut end clean. The optional swivel cutter head allows angled cuts ends to be achieved. A range of tilt tables are available to go after the saw to collect the cut lengths.



Braid-Cut™

MT - cut stainless steel braided PTFE hose cleanly

Ø 25 - 30 mm

The Braid-Cut™ machine cuts through stainless braided PTFE hose cleanly with no wire flare.

Tungsten Copper alloy electrode jaws clamp the hose while the toothless circular blade cuts through. An integral welding head is used to fuse the wire ends together.

The PTFE inner hose is left with a perfect cut finish. There are no loose ends of wire to worry about. Ferrules or clamping caps can be easily fitted, with no snagging.



Braid-Cut™

HD - for larger stainless steel braided PTFE & rubber hoses

Ø 40 - 50 mm

The Braid-Cut™ HD is the heavy-duty version of our standard Braid-Cut™ machine. It is designed for larger outer diameter hoses, particularly rubber hoses with stainless steel braiding.

Conveyor collection systems

A conveyor belt positioned after the cutter will automate cut piece collection. It can also give improved cut length accuracy and cut quality.

They can also help with quality control by automatically separating scrap product from good cut pieces.

The most popular type of collection system uses the high pressure air jet option, where cut lengths are blown off the side of the belt.

The air nozzle design spreads the air blast over the widest area, to ensure a smooth discharge of the cut lengths into the collection bin. The nozzles are also adjustable in direction so they can be moved to handle different sizes and weights of extrusion.

Mechanical plough and push-off arms are also available. Multiple bin collection systems can be configured, with separate zones for collecting scrap product.



Belt width:	Belt length:	Collection methods:
75, 100, 150, 200, 250, 300	1000, 2500, 3000, 4000, 5000, 6000	High velocity air jet Mechanical sweep arms Plough push-off system

Gillard

Accra-Pull™

Caterpillar belt haul-off/pullers

A range of tough twin-belt caterpillar belt units designed to handle the vast majority of extrusion pulling and feeding requirements.

All our caterpillar machines feature direct-drive AC servo motors; one motor per belt, for improved pulling power via sealed-for-life planetary gearboxes.

- Digital AC servo drive technology from Lenze.
- Siemens colour touch-screen control panel.
- Twin direct-drive AC servo motors with zero backlash planetary gearboxes.
- Two AC drives for the ultimate in belt speed synchronisation and control.
- Ultra-precise digital belt speed adjustment.
- Poly-vee belt design with a wide range of belt coverings.

Model:	Belt width (mm):	Belt length (mm):	Motor size AC Servo (Nm):
UA50	50	250	2 x 1.5
UA75	75	550	2 x 2.3 (3.8)
UA95	95	600, 800, 1000, 1500	2 x 2.3 (3.8)
UA150	150	600, 800, 1000, 1500	2 x 2.3 (3.8)
UA225	225	1000, 1300, 1800	2 x 3.8 (4.5)
UA300	300	1000, 1300, 1800	2 x 3.8 (4.5)



Low-medium duty pulling UA50 - UA75

Belt lengths:
250 - 550 mm

Ideal for smaller flexible and semi-rigid extrusions being pulled at all line speeds. These machines have a compact footprint, so perfect where space is at a premium.



Medium-heavy duty pulling UA95 - UA150

Belt lengths:
600 - 800 - 1000 - 1500 mm

The workhorse machines in our range. They are designed for the majority of pulling requirements. They can handle a wide range of general-purpose extrusion hauling needs. This includes flexible, semi-rigid and rigid hose, pipe and profile.



Extra-heavy duty pulling UA225 - UA300

Belt lengths:
1000 - 1300 - 1800 mm

Designed for the toughest pulling jobs. These haul-offs are intended for heavier wall rigid pipe and profile.

Gillard

Committed to Extrusion Cutting Excellence *Established 1968*

Gillard Cutting Technology

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

Tel: +44 (0) 1684 290 243
Email: sales@gillardcutting.com
Web: www.gillardcutting.com

Servo-Torq®, Accra-Feed™, Accra-Pull™ & Braid-Cut™ are trademarks or registered trademarks of Peter Gillard & Co. Limited.

Kevlar® is a registered trademark of E.I. du Pont de Nemours and Company.

Gillard Cutting Technology is a trading name of Peter Gillard & Co. Limited.

© 2018 Peter Gillard & Co. Limited. All rights reserved.

Specifications are subject to change without prior notice.



Connect with us