

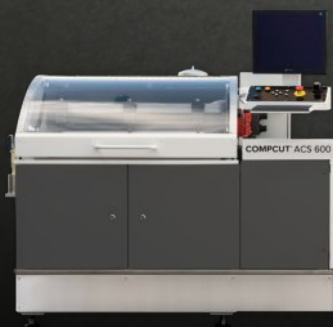
COMPCUT[®] ACS

Advanced Composite Saws

COMPCUT[®]
ADVANCED COMPOSITE MACHINING

LINEAR CUTTING

JOIN THE COMPOSITE CUTTING REVOLUTION
PERFECT TEST SPECIMENS EVERY TIME



FAST, ACCURATE, EFFICIENT, CONSISTENT & SAFE

JOIN THE CUTTING REVOLUTION

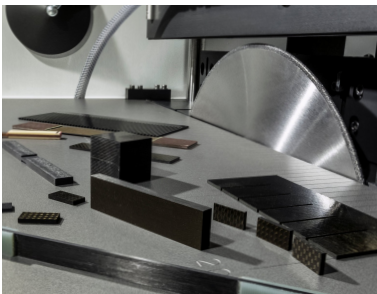
Producing consistently accurate test samples is an essential part of the production process when composites are being used in critical precision engineering. For many however, it is an inconvenient activity that is slow, dirty, labour-intensive and poses a high health and safety risk.

Many top engineering businesses and academic institutions have now overcome these frustrations as they have discovered that using a Compcut advanced machining solution is the most effective way to produce their composite test samples. These machines are now widely used by a wide range of composite engineers to produce those essential test samples.

“We received and commissioned the Compcut saw in February and within weeks it reduced the specimen cutting queue dramatical. The queue used to be measured in weeks and now it is measured in hours”.

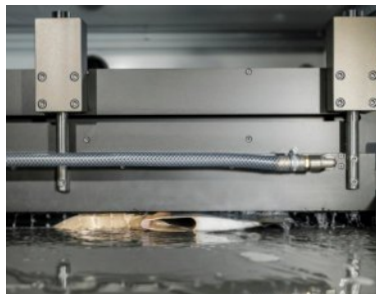
Matt Finch

Workshop Manager | University of Bristol.



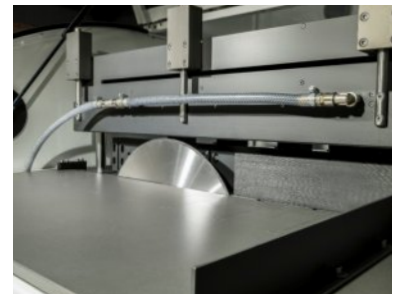
FAST & PRECISE

Automatic positioning of the material allows multiple specimen cuts without user intervention.



ACCURATE & REPEATABLE

Test your specimens straight from the machine with unrivalled surface finish.



SAFE & SIMPLE

Your engineers can cut with confidence; Our fully enclosed work area protects from dust and spray.



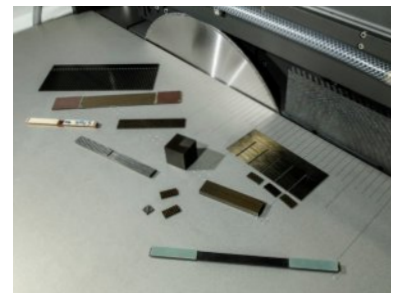
POWERFUL CAPABILITY

Rugged and stable, our machines are able to easily cut a wide array of materials to the exact size and specification required.



AUTOMATED CONTROL

Integrated computer control systems & part program compatibility simplifies the operator process making it easy for users to understand and learn.



BETTER RESULTS LESS SCRAP

Improve the consistency of your results while ensuring mistakes are eradicated. Compcut's easy to use automated process simplifies specimen production.

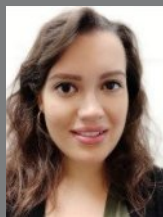
Why Compcut?

Join the composite cutting revolution...



SAFE

- **Fully enclosed process**
Engineers are not exposed to cutting blades or composite debris.
- **Automated operation**
No manual cutting.
- **Wet cutting process**
Reduces generation of atmospheric carbon dust for operator
- **HSE compliant process**
Compliant working practices



"Using the Compcut so far, we are really pleased with its effectiveness, it has made lone working acceptable with its Health and Safety benefits"

Mikaela Toutouzi
Laboratory technician for Mechanical Engineering, University of Surrey



CLEAN

- **Fully enclosed cutting operation**
No stray dust into environment – no additional ventilation required.
- **Anodized finished**
Machines are easy to clean and wash down
- **Clean machine operation**
Can be used in a lab environment



"The Compcut saw ensures our technicians cut highly accurate test specimens quickly and easily in a safe and clean working environment, which ensures dust and debris isn't released into the workshop"

Alix Sauget
Research & Development Manager SHD Composite Materials Ltd



QUICK

- **Swift easy programming**
Minimal job set-up time.
- **Automated process and settings**
Consistently accurate first time cuts which are repeatable
- **Produces test ready samples**
No polishing or post cut finishing is required
- **Intuitive Interface**
Streamlining your test samples cutting process



"We received and commissioned the Compcut saw in February and within weeks it reduced the specimen cutting queue dramatical. The queue used to be measured in weeks and now it is measured in hours"

Matt Finch -
Technical Manager (Workshop & Operations) - University of Bristol



COST EFFECTIVE

- **Quicker**
Team is more productive – no more delays in production.
- **Cleaner**
No costs for cutting area required including cleaning and filtration
- **Minimal Consumables**
Low cost of ownership
- **Engineered to last**
Longevity of life



"Productivity of the materials testing laboratory has increased significantly"

Maria Brooks
Senior Technology Materials Technician
Alpine Racing Limited.



CONSISTENT & PRECISE

- **Automated cutting**
Consistent dimensions of samples
- **Calibrated**
*Consistently highly accurate parallelism and perpendicularity
ACS 0.03mm & PCR 0.02mm*
- **Programmable**
Consistent repeatability



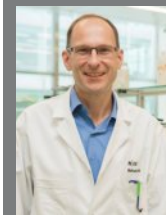
"The Compcut saws cut test specimens to such a high quality edge finish that no post preparation is required"

Paul Yeo
Managing Director
Composite Test and Evaluation (CTE)



ENVIRONMENTALLY RESPONSIBLE

- **Consistently accurate cutting**
Less waste and scrap
- **Enclosed operation**
No dust or debris released into the working environment
- **Robust high quality build**
Longevity of life - designed to last



The exceptional accuracy of our Compcut saw has enabled us to reduce the amount of waste material generated in the production of test samples, which is an important step for us and for the environment"

Professor, Dr Markus Grob,
Head of the Institute
FHNW - University of Applied Sciences Northwestern Switzerland



EASY

- **Automated cutting process.**
Easy to train non-skilled personnel to operate the machine
- **Automated settings.**
No manual measurements are required
- **Intuitively Programmable**
Multiple samples produced with the push of a button
- **Enclosed operation**
Operator works in a pleasant environment



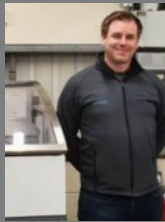
"The intelligent functionality of the unit coupled with its inherent ease of use, offers students the opportunity to cut their own samples with the minimum of training"

Myles Jenkinson
FEPS Mechanical Workshop
Technician
University of Surrey



RELIABLE

- **Easy Automated operation**
You are not reliant on skilled personnel being available to produce samples
- **Less third-party involvement**
You can set your own timings and agenda – no reliance on third parties
- **Machines are reliable**
Guaranteed uptime, fast service and support. 100% first time fix



"The Compcut saw is a major factor in ensuring the reliable consistency of our test results"

Dr Geraint Havard
Composite Manager
R-Tech Materials



IN THE LAB

- **Full enclosed operation**
It is clean, no separate cutting area required
- **Compact size**
It can be positioned in the lab
- **Simple intuitive user interface**
It can be used safely by students or non-specialist lab personnel
- **Single phase power requirement***
Connects into a standard electrical circuit



"We see the Compcut saw as a key component in our test lab set-up"

Professeur Simon Joncas,
Département de génie des systèmes, École de technologie supérieure, (ETS) part of the Université du Québec based in Montreal

COMPCUT®
ADVANCED COMPOSITE MACHINING

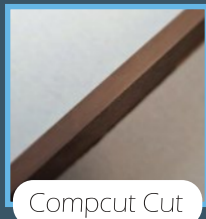
Take on the Compcut Challenge

When producing test samples, are you traditional or cutting edge?

Supply a selection of your materials to be cut on the Compcut Machines, to find out if you can enhance or improve your sample cutting process.

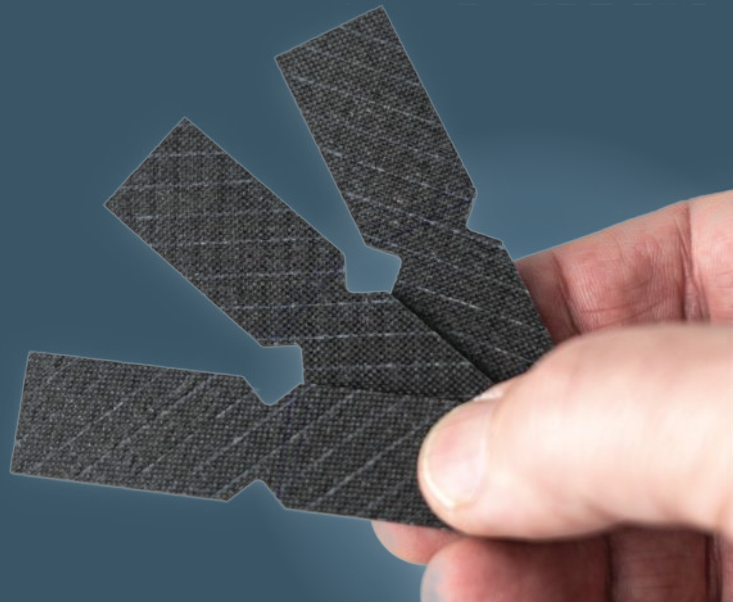


Standard Cut



Compcut Cut

POWERED BY SHARP & TAPPIN



www.compcutacm.com/compcut-challenge
Email: enquiries@compcutacm.com
Tel: +44 (0) 1409 606530

TECHNICAL SPECIFICATIONS

The Compcut ACS range of advanced composite saws are fully enclosed CNC machines intended to be used for accurately machining composite materials into specimens or parts.

COMPCUT® ACS Advanced Composite Saws

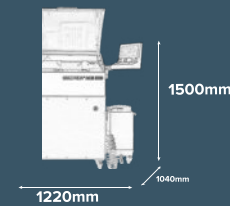


	COMPCUT® ACS 300	COMPCUT® ACS 600	COMPCUT® ACS 1200
Material Capacity			
CLEARED PANEL SIZE	300 X 300 MM	600 X 600 MM @ 20 MM 500 X 500MM @ 50 MM	1200 X 1200 MM @20 MM 1140 X 1200 MM @ 50 MM
MATERIAL THICKNESS/CUT DEPTH*	0 - 20 MM / 0 - 30 MM	0 - 50 MM / 0 - 100 MM	0 - 50 MM / 0 - 100 MM
FRONT SPECIMEN TABLE	350 MM	400 MM	400 MM
COOLANT CAPABILITY	FLOOD COOLANT WITH BAG FILTER	FLOOD COOLANT WITH BAG FILTER	FLOOD COOLANT WITH BAG FILTER
Enclosure			
ENCLOSURE	FULLY ENCLOSED - EXTRACTABLE	FULLY ENCLOSED - EXTRACTABLE	FULLY ENCLOSED - EXTRACTABLE
Spindle			
SPEED	2,000 TO 4,500 RPM	2,000 TO 4,500 RPM	2,000 TO 4,500 RPM
SPINDLE POWER	1.5 KW	2.4 KW	2.4 KW
BLADE SIZE	200 - 250 MM	250 - 300 MM	300 - 400 MM
BLADE THICKNESS	1.5 - 3.5 MM	1.5 - 4.5 MM	1.5 - 4.5 MM
Speeds			
RAPID SPEEDS X, Y, Z	60 MM/S	150 MM/S	125 MM/S
CUTTING SPEEDS	0.1 - 40 MMS	0.1 - 40 MMS	0.1 - 40 MMS
Accuracy, Perpendicularity, Parallelism			
TYPICAL SPECIMEN PERPENDICULARITY	0.03 MM	0.03 MM	0.03 MM
TYPICAL SPECIMEN PARALLELISM / 100MM*	0.03 MM	0.03 MM	0.03 MM
TYPICAL SPECIMEN PARALLELISM / 300MM*	0.04 MM	0.04 MM	0.04 MM
TYPICAL SPECIMEN PARALLELISM / PANEL	N/A	0.07 MM	0.08 MM
TYPICAL SPECIMEN DIMENSIONAL ACCURACY	0.05 MM	0.05 MM	0.05 MM
TYPICAL SPECIMEN PARALLELISM Z PLANE	0.03 DEG	0.03 DEG	0.03 DEG
Required Services			
POWER	220V 1PH 16A	415V 3PH 32A	415V 3PH 32A
AIR - DRIED & FILTERED	70 - 100 PSI	70 - 125 PSI	70 - 125 PSI
EXTRACTION	APPLICATION SPECIFIC	APPLICATION SPECIFIC	APPLICATION SPECIFIC

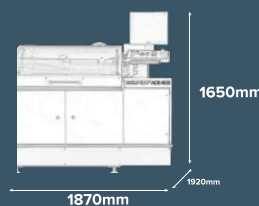
*Specification subject to change without notice. Test conditions apply using Approved Blade. Weights are approximate and exclude packaging/shipping.

External Dimensions: (W)x(D)x(H)

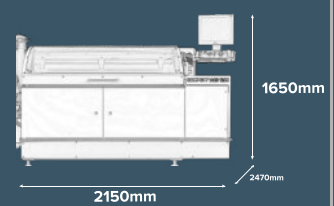
COMPCUT® ACS 300



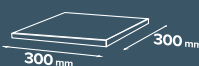
COMPCUT® ACS 600



COMPCUT® ACS 1200



Working area / Panel sizes:



Why not take the Compcut Challenge

When producing test samples,
are you traditional or cutting edge?



Supply a selection of your materials for us to cut on the Compcut machines, and we can demonstrate how Compcut can enhance or improve your cutting processes and provide you with a selection of test ready samples.

Scan the QR code to find out more:

"Our Compcut has enabled us to quickly, easily and consistently produce high quality test samples, which all have an exceptional cut, perpendicularity and parallelism. Thus meaning we can test directly from the saw - every time."

Alix Sauget

Materials Specialist | SHD Composites

"The Compcut has given us the ability to quickly and repeatedly produce high quality test specimens that exceed the requirements of the common International standards we perform testing to."

Paul Yeo

Managing Director | Composite Test & Evaluation (CTE)

"Productivity of the materials testing laboratory has increased significantly since our Compcut arrived, as it allows us to setup and run multiple panels and specimen cuts automatically. It also gives us high quality test specimens with an excellent edge finish within the tight tolerances expected, consistently cut after cut."

Maria Brooks

Senior Materials Laboratory Technician | Alpine Racing Limited.

POWERED BY **SHARP & TAPPIN**

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