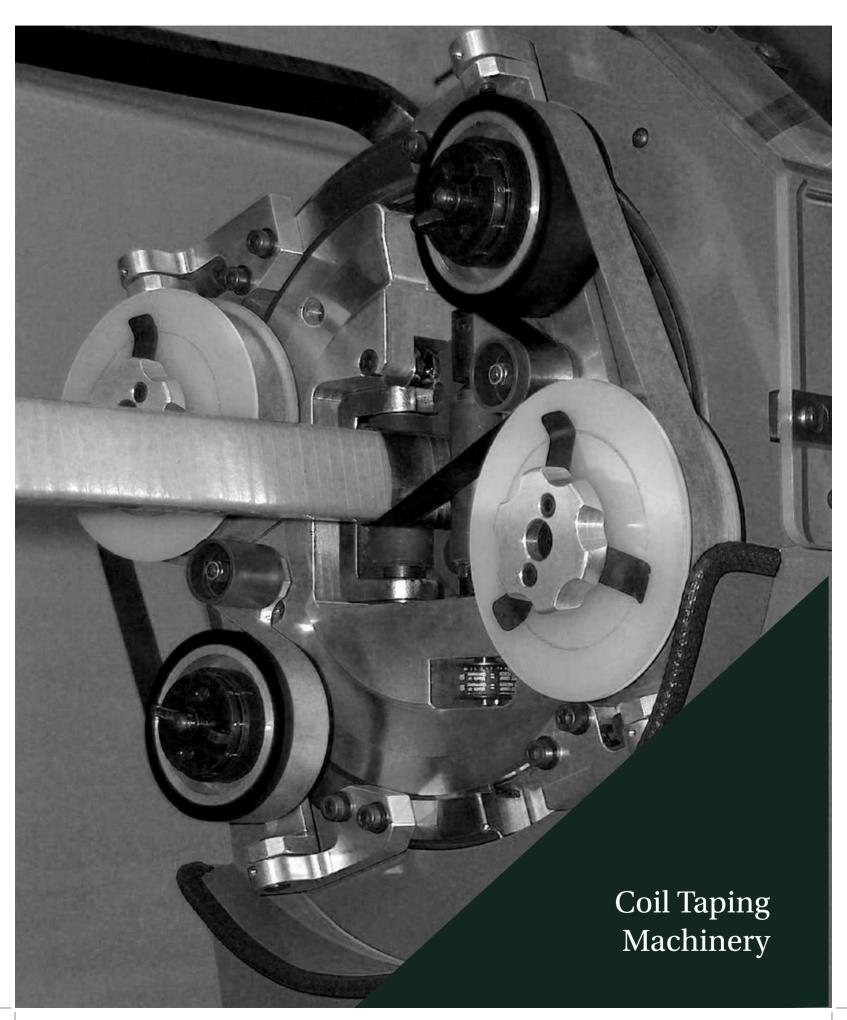
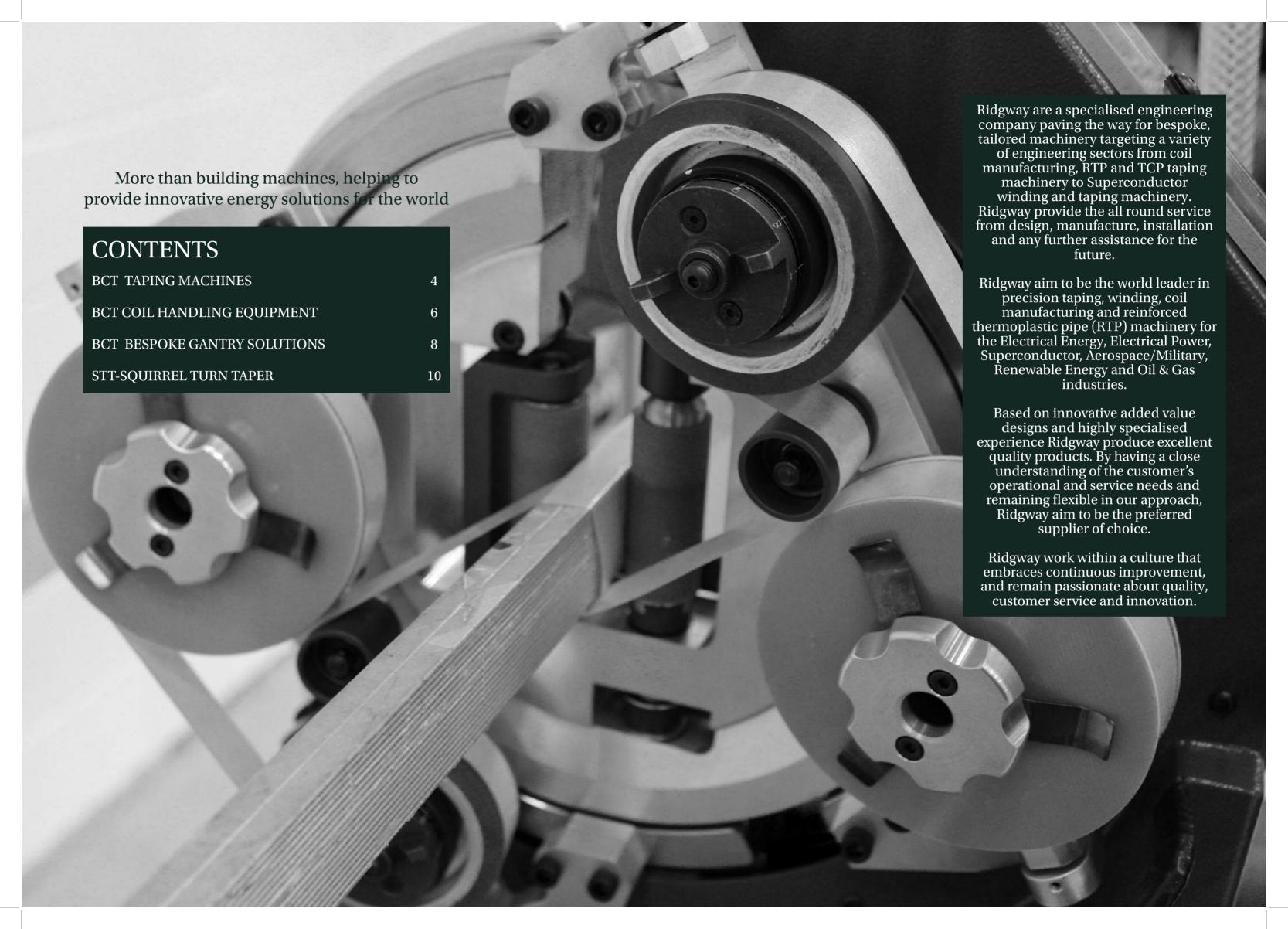
Ridgway Machines

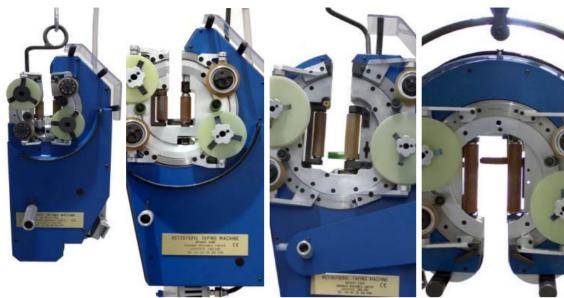




BCT16/30VL BCT20/50VL BCT35/100VL BCT50/150VL

Designed for the fast, precision application of tape insulation systems to a wide variety of components, including motor and generator stator coils and bars.

BCT Suspended Coil Taping Machines provide the ultimate solution to dramatically improve your production capabilities.



			TELEVISION OF THE PARTY.	_
CAPACITY Min. Cross section of	5mm x 10mm	10mm x 18mm	15mm x 30mm	25mm x 45mm
conductor to be taped Max.	16mm x 30mm	20mm x 50mm	35mm x 100mm	50mm x 150mm
TAPE WIDTH	15mm or 20mm	20mm or 25mm	20mm or 25mm	20, 25 or 30mm
LAP	Variable	Variable	Variable	Variable
TAPE SPOOL Core Outside Diameter	Ø 25mm Ø 80mm or 90mm	Ø 25mm Ø 110mm	Ø 25mm or 55mm Ø 170mm	Ø 25mm or 55mm Ø 170mm
TAPE TENSION	0.5kg - 6.0kg			1.0kg - 7.0kg
TAPING SPEED	250 rpm	240 rpm	200 rpm	150 rpm
AIR SUPPLY Max.	5.5 bar			
Recommended Min. Bore	Ø 12 mm			
Free air use @ full speed	18 litres/sec.			26 litres/sec.
BENCH-MOUNTED	BCT 16/30 VLDM	BCT 20/50 VLDM		-



BCT Taping Machines

- ▼ Designed for the fast, precision application of tape insulation systems
- Effortlessly tape up to 8 times faster than traditional methods
- ▼ Simultaneously apply 2 layers of tape
- ▼ Apply tape in both directions
- **v** Easy to use
- ▼ Variable tape overlap
- **V** A wide variety of tapes can be used
- ▼ Pneumatically driven No complex electrical systems

BCT Bench Taping Machines

- ▼ BCT is easily removed from the workbench to allow gantry suspension
- ▼ Operation of the BCT bench models is via foot pedals

BCT16/30VL - INT BCT20/50VL - INT

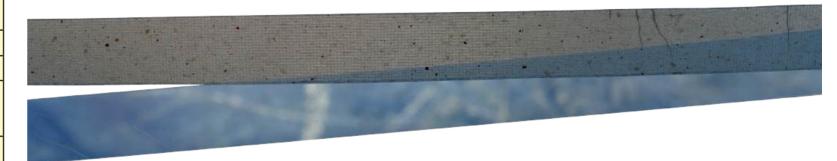


CAPACITY Cross section of conductor to be taped	міп. 5mm x 10mm мах. 16mm x 30mm	10mm x 18mm 20mm x 50mm	
TAPE WIDTH	15mm or 20mm	20mm or 25mm	
LAP	Variable	Variable	
TAPE SPOOL Core Outside Diameter	Ø 25mm Ø 80mm or 90mm	Ø 25mm Ø 110mm	
TAPE TENSION	0.5kg - 6.0kg		
TAPING SPEED	250 rpm	240 rpm	
AIR SUPPLY	5.5 bar		
Recommended Min. Bore	Ø 12 mm		
Free air use @ full speed	18 litres/sec.		

BCT16/30VL - INT

BCT20/50VL - INT

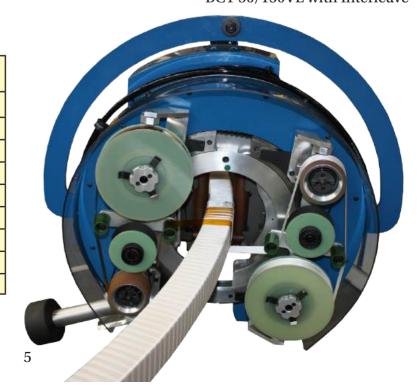
BCT's with Interleave Tape Collection



BCT coil taping machines are in service worldwide. Quality of tape application is assured by the powered drive roller and traverse reversing gearbox arrangement guaranteeing consistent tape overlap. Both the tape overlap and tape tension settings are variable and easily adjusted by the operator if required. The BCT taping machines are capable of simultaneously applying 2 layers of tape. Interleave tape collection can be accommodated if required.

BCT 50/150VL with Interleave

Used to apply a wide range of materials including	For manufacturing	
Mica	AC stator coils	
Nomex [®]	AC stator bars	
Kapton [®]	DC armature coils	
Glass yarn	DC armature bars	
Mylar [®]	Traction Coils	
Paper	Compensating bars	
Polyester/Aluminium	Busbars	
Film/Foil Laminates	Cable harnesses	
Resin Rich	Bespoke products	



4



MODEL	CTU2500	CTU3000	CTU4000	CTU5000
GANTRY REQUIRED	3.5m	4.0m	5.0m	6.0m
MAX. COIL LENGTH	2500mm	3000mm	4000mm	5000mm

6

Increase your production effectiveness by complementing the range of BCT taping machines with Ridgway's selection of dedicated handling equipment.

Used to provide fast, accurate and consistent methods of Operator guided tape application with virtually no preparation or set up time required.

Gantries

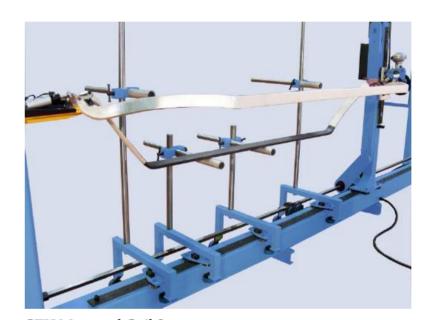
- Designed as a workstation to weightlessly suspend BCT taping machines
- The gantry range accommodates the CTU coil handling systems
- ▼ A free running carriage mounted to linear rails ensures smooth lateral motion of the taping head
- Multiple carriages can be added to allow a variety of taping machines to be used
- ▼ Quick and easy connection of the taping machine to the pneumatic circuit
- Manufactured in a range of sizes

CTU-Coil Turnover Units

- Designed to provide a complete, flexible and easy to operate coil handling solution
- ▼ Only one set up required to tape both coil sides
- ▼ Coil rotation and work height adjustment easily achieved
- Coil securely held by two pneumatic clamps actuated via a foot pedal
- Adjustable mechanical stops ensure repeat rotational positioning
- ▼ CTU mounted coil supports available
- Rear coil supports and retractable front coil supports available



CTU - Coil Turnover Unit



CTU Mounted Coil Supports

CTU Mounted Coil Supports

Used in conjunction with the CTU, additional rail mounted coil supports can be provided depending on the width or geometry of the coil design.

Rear Supports

Free standing rear support designed for quick and easy operation.
Manual vertical adjustment.



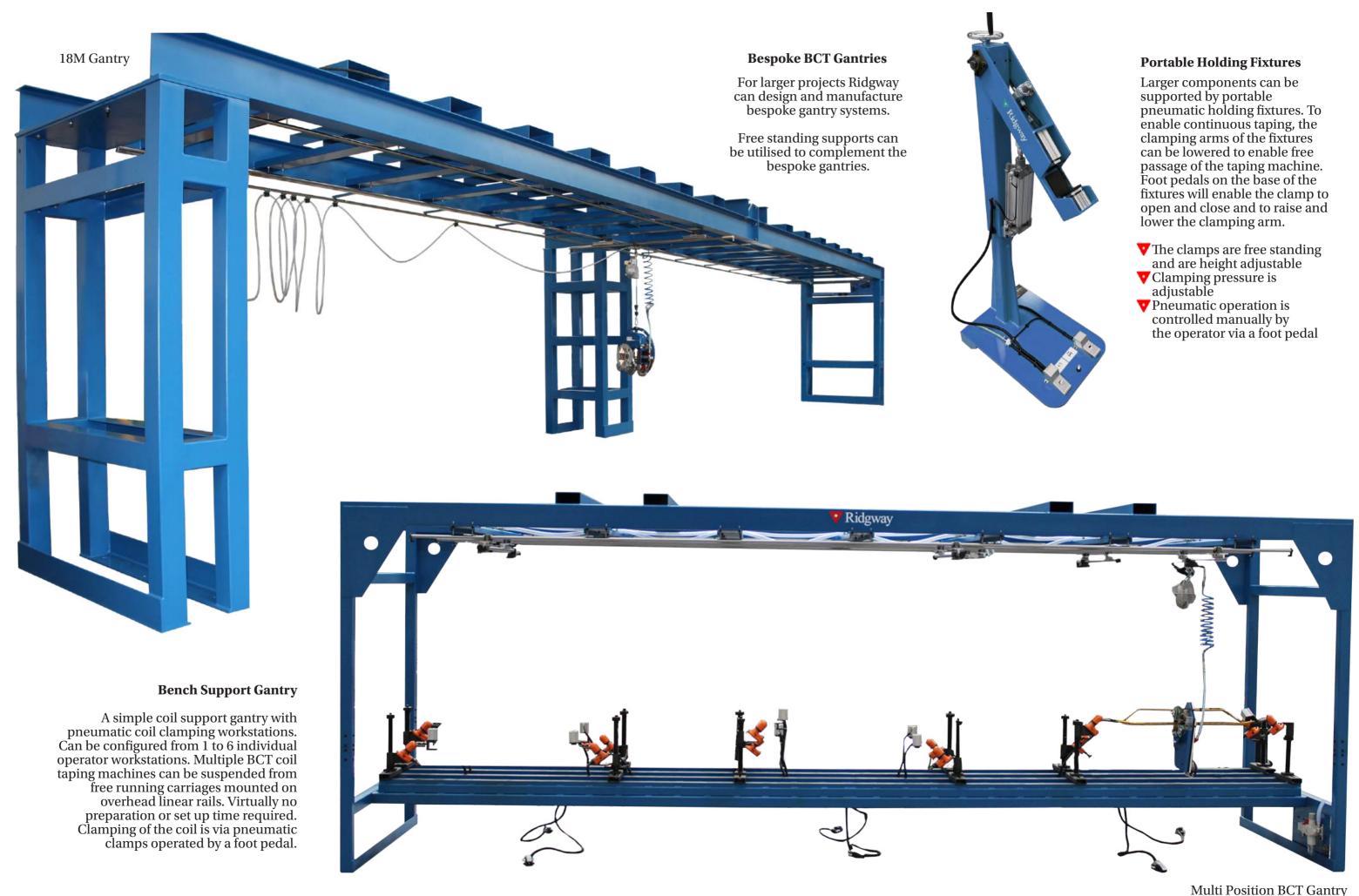
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Retractable Front Supports

Free standing retractable front support designed for quick and easy operation. Comprising of an air cylinder with an adjustable soft top, enabling the desired work height to be achieved. Cylinder up and down movement is actuated via a foot pedal.



Free Standing Coil Supports



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STT - SQUIRREL TURN TAPER

STT-Squirrel Turn Taper

The STT offers a simple solution to dramatically reduce the overall coil manufacturing time of turn taped coils.

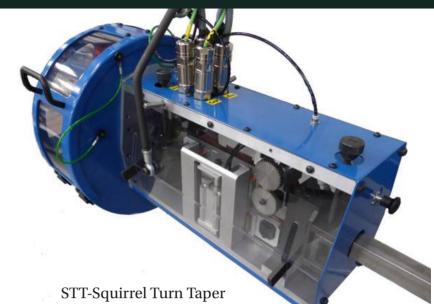
Designed for the efficient taping of multiple conductors as they pass between the drum stand, gathering box and loop winding beam during the loop winding process.

- ▼ Variable tape overlap
- ▼ Simultaneously apply 2 layers of tape
- ▼ Operation is via a control panel mounted on a pedestal.

 Rotational and linear speeds are adjustable via potentiometers

The conductor stack is fed through the STT and centralised using roller boxes. The machine has guarding that is fitted with sensors. If the guard is open, it will prevent the machine from operating.

- ▼ The machine is driven by twin caterpillar belts, powered by a synchronised servo motor
- To ensure consistent adhesion to the conductor stack, the machine is fitted with a pneumatic traction control system
- ▼The STT is freely suspended from its own support gantry. Gantries are manufactured to match exact requirements





10





Other Solutions



Wire & Cable Taping Machinery



Coil Taping Machinery



Superconductor Cable & Coil Machinery



Coil Manufacturing Machinery



RTP & TCP Taping Machinery



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