



General Specifications for the:

**WINTECH DUAL OSCILLATING BLADE
CONTOUR CUTTER (DOZ2006-2225-BCT)
AND THE
WINTECH HORIZONTAL OSCILLATING BLADE
CONTOUR CUTTER (HOZ2006-2225-BCT)
AND THE
WINTECH VERTICAL OSCILLATING BLADE
CONTOUR CUTTER (VOZ2006-2230-BCT)**



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MACHINE DESCRIPTION

Please note that this machine description covers the Wintech Horizontal, Vertical, and Dual Oscillating Blade contour-cutting machines. These machines are all CE-compliant.

Wintech's Oscillating Blade Profiler consists of a fixed cutting frame and conveyor for horizontal block movement. Two oscillator drive boxes move vertically on linear rails on each side of the machine's cutting frame with a standard cutting width of 2200mm.

On vertical and dual blade machines, two gearboxes are located on the other side of the main frame. They move horizontally on linear rails and provide a standard cutting height of 1300mm.

The blade is driven at both ends by electric motors, with air pressure being used to maintain tension on the blade. Each oscillator gearbox is also fitted with stepper motors for controlling the angle of the blade and a twist reset sensor for aligning the blade angle during power on. The twist mechanism allows unlimited twist of the blade in both directions with blade angle being automatically controlled by the computer to correspond with the effective cutting direction at any one time.

The oscillator boxes (pairs) are driven in parallel from an inverter style speed controller to operate at a nominal speed of **50 Hz**. The stroke of the blade is 46mm giving a high cutting speed.

The position of the blade(s) in the frame and the conveyor table is controlled by the latest technology, high performance stepper motors mounted on the side of the cutting frame. Typically, these stepper motors require approximately 17 to 20 "step" pulse commands from the control electronics to provide 1mm of travel, providing excellent cutting accuracy.

The cutting blades take only minutes to change, minimizing production down-time. To remove a blade, a simple tool is used to release the blade from the blade clamp and the blade is then slid out. A new blade is easily inserted into the clamp and the machine is ready for use again. A range of blades is available to suit various flexible foam types.

Control Cabinet

The control cabinet contains the positioning control electronics and oscillator motor drive. The electronics module responsible for controlling the motion of the machine is referred to as the *Indexer*. The Indexer connects to Input and Output boards which take inputs from the machine and controls outputs to the machine, checking and resetting the blade angle and connecting/disconnecting the centre guide. Cable ducts carry all control and power wires from the machine to the control cabinet.

Wintech Profiler Software

Housed inside the control cabinet is a PC (15", touch-screen LCD display, Windows XP Professional operating system) that, with the powerful Wintech Profiler software, operates the machine by translating designs for foam profiles into commands for the indexer. The computer is connected to the Indexer inside the cabinet by a serial data cable. The control cabinet includes a desk tabletop so that profile drawings can be created and/or amended by the machine operator at the console (rather than at a remote design office).

The main power switch is located on the side of the cabinet. This switch also provides power to the computer.

Remote Handset

A 13 button manual cordless (radio controlled) handset enables the operator to manually move the blade and conveyors, start, pause or cancel a cutting job, control the cut speed and digitise blade positions and shapes.

Safety Fences

Safety fences are set up with safety limit switches to operate when opened. This prevents motion and cutting from starting until they are closed and reset as part of the safety monitoring relay. The emergency stop function also works in a similar way, via the safety monitoring relay operated by a number of cut-out switches mounted both on the machine and the console.

Internet Service Facilities

Internet access to the machine is available to allow remote monitoring of the machine operation and diagnostic facilities.

Spares Kit & Manuals

A spares kit containing a selection of commonly used parts is available for the machine. Additional spare parts can be ordered through the nearest Wintech distributor. Machines are also supplied with a comprehensive set of manuals covering machine use and maintenance.

OPTIONS

Automation - An automation package is also available, further enhancing the standard functionalities of your Wintech machine. With the automation package, the operator can initiate automatic loading of a block (or blocks) from a customer-supplied in-feed conveyor (powered only) where it will be processed as normal before automatically unloading onto a customer-provided exit conveyor (powered or gravity). This package has been designed specifically to facilitate continuous materials processing and is limited only by the customer's in-feed conveyor capacity.

AutoNEST Software – The existing nesting function within the Profiler software allows efficient nesting of a single entity in a block. The AutoNEST software option can be used in conjunction with the Profiler software for more efficient nesting where multiple quantities of different shapes are to be cut from a single block in a single cut job.

Block Support (previously known as Block Roller) – The block support is designed with driven rollers to hold the foam block and cut shapes in place, particularly when cutting lighter density foams or when cutting small shapes from pre-sliced sheets. The block support can be used when cutting with either the horizontal or vertical cutting blade. The load applied to the foam by the block support is equal to the weight of the block support assembly.

Centre Guide – The Centre Guide is provided to support the horizontal oscillating blade at its middle for improved cutting accuracy in denser foams where an unsupported blade may move out of position. The Centre Guide normally resides out of the way above the cutting area until engaged automatically by the operator. The Centre Guide system contains a stepper motor that controls the blade angle. The cutting width of the machine is approximately 2200mm without the centre guide. The centre guide is approximately 90mm wide so it is possible to cut two 1050mm wide denser foam blocks on either side of the centre guide.

Digitizer Tablet – The digitizer tablet can be used for tracing around existing shape templates or actual shapes, creating drawings to be used in the Wintech Profiler software. The drawings can then be conveniently stored on the computer, ready for regular production jobs.

Manual Turntable (not for use when using the vertical blade) – A composite table (2200mm x 2200mm) can be fitted onto the blade machine conveyor to enable 2-axis cutting with the horizontal blade. After the first cut job is completed, the turntable can be manually rotated using a simple lever mechanism on the side of the conveyor, to turn the block 90 degrees so that the second cut job can be performed.

NOTE ON MACHINE USE

The Wintech Oscillating Blade machine is primarily designed to cut computer-drawn and nested shapes (complex and simple) from flexible foam. It can also be used for sheeting and peeling, as secondary functions.

The machine is not designed to cut semi-rigid and rigid foams, such as expanded polystyrene (EPS) and rigid polyurethane. Wintech have alternative machines available for that purpose.

Loading/unloading blocks

Forklifts are often used to load the blocks. Forklift drivers must be aware of the possibility of knocking the blade machine cutting frame or fences with the forklift when loading and unloading blocks onto the machine (especially when un-clamping). The customer may need to provide some barriers to withstand forklift knocks near the machine to help prevent such incidents.

TECHNICAL SPECIFICATIONS

Maximum cutting width	2200mm
Maximum cutting length	2500mm
Maximum cutting height	1300mm
Floor space:	
- width (not incl. control cabinet)	3350mm
- width (including safety fences)	5300mm
- length (not incl. control cabinet)	6000mm
- height (not incl. control cabinet)	2500mm
Basic machine height with centre guide option	3900mm
Basic machine weight – Dual	Min. 2650kg
Basic machine weight – Horizontal	Min. 2500kg
Basic machine weight – Vertical	Min. 2550kg
Blade stroke	46mm@50Hz
Blade tension	117kg
Blade twist angle	Unlimited
Blade size (cross section)	3mm x 0.6mm
Operator handset	Cordless - standard
Digitizer tablet	Optional
Profiler software	Standard
Compressed air supply required	6Bar
Total machine power consumption (maximum)	7kW
AC power supply (customer specified)	220-575Vac, 3 Phase
Max. cutting speed (*)	200mm/sec

(*) Actual cutting speeds will depend on a number of factors including the complexity of the profile to be cut, the cut width, the foam density and hardness ratio, the quality of the foam (e.g. with or without fillers), the type of blade and required surface finish.

For harder and/or denser flexible foams, we strongly recommend that customers supply a test foam block, along with drawings of the most commonly cut shapes, so that indicative cutting speed data can be provided.

(**) Should be free of sags, surges, spikes and noise.

Environment:

Temperature 0-25 degrees Celsius
Humidity Max 80% non condensing

Wintech Engineering

TERMS AND CONDITIONS OF SALE

Definitions

In the context of this document the following interpretation will apply.

Wintech Engineering ("Company") will supply Goods and/or options and services ("Goods") to its Customer ("Buyer") on the following Terms and Conditions of Sale ("Terms").

EX Works Delivery Time (EXW)

EX Works Delivery Time (EXW as defined in Incoterms 2000) will vary according to model and circumstances but is approximately 16 working weeks upon receipt of deposit and subject to confirmation that the Company accepts the order ("Accepted Order"). The Company will not be liable if Goods are completed later than the indicated (EXW) date, regardless of the cause of the delay. Delivery to site will be dependent on shipping agency's advice.

Payment

Buyers are required to pay a minimum 35% deposit when an order is placed so as to make the order valid. Payment of the balance shall be made prior to shipping by way of telegraphic transfer or confirmed irrevocable letter of credit acceptable to the Company. Where final payment is not received within 30 days of notification of machine completion, the deposit may, at the Company's sole discretion, be forfeited and the machine may be sold to another of the Company's buyers, unless alternate arrangements have been previously agreed upon.

Validity of Quoted Prices and Orders

Quoted prices in Australian dollars remain valid for 60 days from the date of the quote. Quoted prices in other currencies will fluctuate as per the exchange rates of the day. A quote is not in itself an offer that when accepted creates a binding relationship between the Company and the Buyer. No order made by a Buyer will be binding on the Company until accepted in writing by the Company ("Accepted Orders"). Accepted Orders placed with the Company will only be accepted on these Terms. No Accepted Order may be cancelled except with the Company's written consent and on terms that will indemnify the Company against all costs, losses, expenses and liabilities directly or indirectly incurred by the Company in connection with or in relation to the Accepted Order.

Taxes

Local import taxes, duties, levies and the like are not included in the Company's quoted prices and are the responsibility of the Buyer.

Instruction Manuals

One set of manuals with instructions for maintenance and operation of the machine and relevant electrical and installation drawings will be supplied in an English version.

Design of Goods

While every effort will be made to supply items and equipment complying with published specifications, in the interest of continuing product improvement the Company reserves the right to modify, without notice, any specifications or equipment in a manner that does not materially detract from the fitness of the Goods for their intended purpose.

Off Site Works

Quoted services that include off site labour (such as Installations, Commissioning and Service Work) at the premises of the Buyer, are made on the basis that, other than where the quote specifically states otherwise, all work will be carried out during normal working hours. Normal working hours being Monday to Friday,

8 hours per day, but excluding United States Public Holidays. Training of personnel is limited to no more than three programmers at one time.

Warranty – New Machines

For a period of twelve (12) months or two thousand hours* (2000) machine hours from date of commissioning by the Company or its nominated agent, whichever occurs first. The Company or its agents will replace or repair, free of charge (ex-works) any parts found to be defective provided that the failure has occurred during ordinary use of the equipment and provided the defective parts are returned, carriage paid, to the premises of the Company for the purpose of assessment (see Warranty Claim Procedures). The Company's liability under these Terms is expressly limited to replacement of defective parts or incorrectly supplied parts or a liability to pay the Buyer an amount equal to whichever is the lowest amount of:

- a) Cost of replacement Goods;
- b) Cost of equivalent Goods; or
- c) Cost of having the Goods repaired,

Installation of the Company machines shall be carried out by the Company or by an approved agent. Failure to do so will void the machine warranty.

All freight, local import taxes, duties, levies and the like, travel, accommodation and out-of-pocket expenses incurred in replacement or repair of equipment is to be borne by the Buyer. Any decision to waive these costs (in part or in full) remains at the sole discretion of the Company. No precedence for future waiving of any costs is implied nor intended and the normal terms and conditions of warranty apply unless otherwise stated (in writing) by the Company.

If the goods are not manufactured by the Company, the guarantee of the manufacturer of those Goods is accepted by the Buyer and is the only guarantee given to the Buyer with respect to those Goods. The Company agrees to assign to the Buyer upon request by the Buyer, the benefit of any warranty or entitlement to the Goods that the manufacturer has granted to the Company to the extent that such is assignable.

While it is not recommended to connect to the internet, we do highly recommend that antivirus and spyware software be installed by Buyer immediately after installation of machine.

*NB Machine hours accumulate whenever power is applied to the cabinet (Operators Console).

Warranty – Spare Parts

Spare Parts are warranted for a period of six (6) months from date of sale by the Company or its nominated agents. The Company or its agents will replace or repair, free of charge (ex-works) any spare parts found to be defective provided that the failure has occurred during ordinary use of the equipment and that the defective parts are returned, carriage paid, to the premises of the Company for the purpose of assessment (see Warranty Claim Procedures). Notification of defective or incorrectly supplied parts discrepancies must be reported within forty-eight (48) hours of receipt. The Company's liability under these Terms is expressly limited to replacement of defective parts or incorrectly supplied parts or a liability to pay the Buyer an amount equal to which ever is the lowest amount of:

- a) Cost of replacement Goods;
- b) Cost of obtaining equivalent Goods; or
- c) Cost of having the Goods repaired,

Spare parts failure within the warranty period due to incorrect storage, handling, installation or operation by the Buyer or anyone other than the Company or an approved agent will automatically void the spare parts warranty.

Spare parts replaced under "New Machine Warranty" are guaranteed for the remaining portion of the new machine warranty period only and this guarantee extinguishes upon reaching the new machine warranty expiry date.

All freight, local import taxes, duties, levies and the like incurred in replacement or repair of spare parts is to be borne by the Buyer. Any decision to waive these costs (in part or in full) remains at the sole discretion of the Company. No precedence for future waiving of any costs is implied nor intended and the normal terms and conditions of warranty apply unless otherwise stated (in writing) by the Company.

If the goods are not manufactured by The Company, the guarantee of the manufacturer of those Goods is accepted by the Buyer and is the only guarantee given to the Buyer with respect to those Goods. The Company agrees to assign to the Buyer upon request by the Buyer the benefit of any warranty or entitlement to the Goods that the manufacturer has granted to the Company to the extent that such is assignable.

Warranty – Consumables

The warranty for Consumables is restricted to replacement only, provided the goods are returned to the Company, carriage paid, for the purpose of assessment (see Warranty Claim Procedures). The goods must be in an “as new” state within original wrapping or accompanied by the original wrapping. The Company (or its agents) will replace or repair, free of charge (ex-works) any consumables found to be defective or provided incorrectly. Notification of defective or incorrectly supplied parts discrepancies must be reported within forty-eight (48) hours of receipt. The Company’s liability under these Terms is expressly limited to replacement of defective or incorrectly supplied parts or a liability to pay the Buyer an amount equal to which ever is the lowest amount of:

- a) Cost of replacement Goods;
- b) Cost of obtaining equivalent Goods; or
- c) Cost of having the Goods repaired,

Consumables failure due to incorrect storage, handling, installation or operation by the Buyer or anyone other than the Company or an approved agent will automatically void the consumables warranty.

All freight, local import taxes, duties, levies and the like incurred in replacement or repair of consumables is to be borne by the Buyer. Any decision to waive these costs (in part or in full) remains at the sole discretion of the Company. No precedence for future waiving of any costs is implied nor intended and the normal terms and conditions of warranty apply unless otherwise stated (in writing) by the Company.

If the goods are not manufactured by The Company, the guarantee of the manufacturer of those Goods is accepted by the Buyer and is the only guarantee given to the Buyer with respect to those Goods. The Company agrees to assign to the Buyer upon request by the Buyer the benefit of any warranty or entitlement to the Goods that the manufacturer has granted to the Company to the extent that such is assignable.

Warranty Claim Procedures

In instances where a claim for defective parts is made, the following procedure will apply.

- i. The Buyer to supply the Company with a valid Purchase Order Number clearly identifying the parts numbers, description and price of the claimed parts;
- ii. Upon receiving the Buyer Purchase Order and prior to despatch of the parts in question, the Company will require full payment from the Buyer for all parts identified;
- iii. Upon receiving full payment, the Company will despatch the required parts (via nominated carrier and method) complete with an appropriate number of “Reject or Rework” labels clearly identifying the relevant “Warranty Claim Number”;
- iv. Upon receiving the required parts, the Buyer is to ensure the “Reject or Rework” labels are retrieved and securely fastened to the various alleged faulty parts then return those goods to the Company for assessment;
- v. Upon carrying out a full assessment of the parts, the Company will make determinations as to the validity of the claim and if accepted, credit back the Buyer the full purchase price amount.

Limitation of Remedy

The Buyer’s sole remedy under the above warranties is limited to the repair or replacement at the Company’s discretion, of any defective parts or equipment. The Buyer will remain responsible for all freight, taxes, duties and shipping charges, travel, accommodation and out of pocket expenses (if applicable). THE COMPANY SHALL IN NO EVENT, BE RESPONSIBLE FOR INCIDENTAL OR

CONSEQUENTIAL DAMAGES TO BUYER, INCLUDING, WITHOUT LIMITATION, LOST PROFIT, LOSS OF BUSINESS OPPORTUNITY, LOSS OF PROPERTY OTHER THAN THE GOODS, OTHER ECONOMIC LOSSES, OR LOSSES ASSOCIATED WITH PERSONAL INJURY OR STATUTORY OR EXEMPLARY DAMAGES, WHETHER IN NEGLIGENCE, WARRANTY, STRICT LIABILITY OR OTHERWISE.

Force Majeure

The Company shall not incur any liability in the event that it is delayed in its performance of its obligations by force majeure.

Risk and Passing of Property

Risk in the Goods will pass to the Buyer when the Goods leave the Company’s premises. Notwithstanding the above, property of the Goods shall remain with the Company until full and final payment has been received by the Company. If the Buyer fails to make full payment for any Goods supplied by the Company, the Company is entitled to possession of those Goods and may recover them and sell them. The Buyer must place those Goods at the disposal of the Company and the Company is entitled to enter upon any premises of the Buyer and remove those Goods.

Scope of Supply

The Company scope of supply is solely limited to the Goods, Options and Services detailed on the Accepted Order. No other supply of Goods, Options or Services is expressed nor implied. The Buyer must supply all additional products, services, utilities and support needed to receive and install the Goods to a level that ensures the ongoing safe, reliable and sound operation of the Goods. This will include but is not limited to such products, services, and support as the provision of an ample flat, level and stable mounting surface, supply of clean, dry and fully regulated air supply (if applicable - minimum 6Bar), ample regulated and protected power supply (if applicable - 3 Phase + Earth), logistical equipment and support for unloading of Goods and locating/fixing of Goods etc

Responsibility for determining the full scope of Buyer supply resides solely with the Buyer and must be determined before the Buyer pays the deposit. Failure to do so does not void an Accepted Order unless agreed to by the Company.

Whole of Agreement

These Terms and anything contained in an Accepted Order supersedes and replaces any other agreement, arrangement or understanding between the Company and the Buyer. These Terms can only be amended in writing by the Company.

For all disputes arising from the contract, including actions on a bill of exchange, court in the district of the principal office of the Company shall have exclusive jurisdiction. The Company will also be entitled to institute action at the principal place of the business of the Buyer. The Buyer cannot pass his contractual rights to third parties without formal written authorisation of the Company.

The contract shall remain binding on the parties even if any of its clauses should be held ineffective. This contract is governed by the laws of Western Australia. The parties to the jurisdiction of its courts and disputes, related to arbitration or legal proceedings carried out in relation to this contract shall be conducted in Perth, Western Australia.

Special Conditions

The attached APPENDIX A details any Special Conditions of Sale (“Special Conditions”) if applicable. These are to be read in conjunction with the standard Terms. Where conflict arises between the two (terms and Special Conditions), the latter will prevail in all instances. Special Conditions detail additional requirements or considerations of a specific Accepted Order not adequately covered in the Terms.