



## TPICS (Thorsys Production and Inventory Control System)

### Thorsys Production and Inventory Control System

The Thorsys Production and Inventory Control System provides a complete system solution for Food Processing Establishments, specialising in the Meat Industry.

The system is fully modular, multi-lingual and customised to suit every installation. Thorsys systems are developed using standard solutions and techniques, focussing on reliability and improved throughput, and simplifying installation, training, support and software upgrades.

### Stock and Inventory

The Stock and Inventory module encompasses all the information required to provide stock control for livestock, carcass and carton and by-products (meat meal, tallow, hides etc). Functionality includes –

- Central to the operation of the system is the Product Specification system. Livestock, carcass and carton products are stored in the system as products with different product types.
- Livestock product is recorded using the Livestock module.
- Livestock levels are updated once the animals have been processed on the Slaughter Floor. Corresponding levels of carcass product are then updated by operator, location and carcass type.
- Once carcass product is scheduled for boning or loaded out, stock levels are updated and the product re-enters stock as carton product or is invoiced if loaded as carcass product.
- Carton product can then be palletised and each pallet assigned a warehouse location to assist in warehouse management.

### Livestock

The Livestock module is used to record and report on data prior to the Slaughter process. Functionality includes -

- Integration with the NLIS database
- Purchasing (including Payment Grids) and receipt of Livestock
- Ability to gather and record Livestock related information using RF Pockets PC's in the lairage or standard workstations in the Stock Office.
- Incorporates RF or barcoded ear tags.
- Kill Schedule - manual or automated based on production plans.
- Statistical and management reports and inquiries
- Feedback Sheets

### Slaughter Floor

The Slaughter Floor module is used to record and report on data during the Slaughter process. Functionality includes -

- Data capture at various points in the production chain utilising Thorsys Touch Terminals.
- Pre-Grading Data capture points for capture of NLIS details, Lot Number, Tailtag, Ear tag, Sex, Dentition, Carcass defects, Trim details and Retains.
- Grading data capture point for capture of Hot Standard Carcass Weight, Fat, Body Number, Lot Number, AUSMEAT Category, Butt Shape, and Bruising.
- Body/Carcass identification and tracking using either food approved pen, stamp or body tickets or
- Electronic means of identification are also available with the use of RF transponders or inductive sensors.
- Real time inventory updates.
- Statistical and management reports and inquiries.

### Chiller Assessment

The Chiller Assessment module is used to record and report on data collected during the Chiller Assessment and MSA grading process following Slaughter. Functionality includes -

- Using RF hand-held terminals.
- Ability to record Fat Colour, Meat Colour, Marbling, Texture, Firmness and PH.
- Incorporates the MSA (Meat Standards Australia) grading model.
- Real time updating of central database with grading details for payment of suppliers and integration to costing.
- Statistical and management reports and inquiries.

### Boning Room Input

The Boning Room Input module is used to record and report on data collected as the animals enter the Boning Room. Functionality includes -

- Ability to record carcass cold weight real time at entry to the Boning Room using a Pocket PC and Virtual Scale Interface.
- Confirms carcass selection for boning using a pre-recorded Production Schedule.
- Error control, preventing boning of non planned carcass types.
- Will not allow bodies to be boned that have been held for carcass testing.
- Statistical and management reports and inquiries.

### Boning/Cut Traceability

The Cut Traceability module facilitates the recording and identification of individual cuts and the subsequent association of cuts with carcasses, property of origin etc. Functionality includes -

- Recording, weight and identification of individual cuts.
- Association of cuts with carcass, producer, operator and carcass testing results.
- Production to order or stock replenishment
- USDA approved labels for food contact with unique barcodes.
- Identification of defects in primal cuts by workstation
- Statistical and management reports and inquiries.

### Carton Weigh

The Carton Weigh module is used to record and report on data collected as cartons are filled and weighed. Functionality includes -

- Production to order and/or specification.
- Able to pack products for multiple customers concurrently
- Control of weight ranges per cut, production dates and over/under packing.
- Manual or automatic label application.
- Real time inventory updates.
- WYSIWYG label design.
- Compliant with EAN/UN ECE standards for barcoding.
- Interface to Automatic CL recorders such as MQ27, NICL-D and Eagle.
- Statistical and management reports and inquiries.

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## Order Entry

The Order Entry module provides the facility to enter details of sales made or orders required for both carton and carcass product. Functionality includes –

- Record details of sales made or orders required for both carton and carcass product.
- Details include – Customer Name and Address, Required Date, Customer Reference Number, Product Code and Description, Quantity Required, Price per unit, Shipping Company, Vessel Name, Voyage etc.
- Used for production monitoring in the Boning Room and for shipment of product at carton and carcass loadout.

## Loadout

The Loadout module is used to record and report on data as carcasses and cartons are loaded from the establishment. Functionality includes -

- Carcass and Carton Loadout to Customer Orders using RF scanners.
- Capability for multiple scanners to scan product for the same order at the same time.
- Automated product split capability when loading out parts of a carcass. Eg Forequarters, Hindquarters, Rump and Loins.
- Error checking to prevent doubling up, product not allowed to a customer or order, date and weight ranges, and over or under packing.
- Real time updating of central database.

## Distribution

The Distribution module is used to organise the efficient delivery of product (both carton and carcass. Functionality includes -

- Transport details
- Delivery Runs
- Automatic assignment of completed orders by delivery route.
- Supporting documentation, Delivery Notes, Manifest, Invoices
- Ability to use truck mounted RF terminals with scanning capability.

## BackOffice

The BackOffice module is designed to provide support functions for data gathered and generated at plant level. Functionality includes -

- Stock and Inventory Control
- Product Specifications
- Production recording and scheduling
- Reporting and Inquiry facility with direct connectivity to MS Word, MS Excel, E-mail, etc.
- Internet based inquiries and orders for external customers or operators
- Costing

## Compatibility

All our software has been developed to encompass an open environment and is therefore easily interfaced to any product that is developed to similar standards. Functionality includes -

- Support is provided for operation on Windows 98/2000/XP and Windows NT/Server 2003.
- On-floor software is developed in Microsoft C++ and Microsoft .NET
- MS Access is used as the reporting tool.
- Support is provided for operation on Windows 98/2000/XP and Window NT/Server 2003.
- Real time or batch interfaces are available to most financial packages available including e by Epicor, MFG/PRO, Pronto, Arrow and Sybiz

## Thorsys Hardware

### Workstations

- Thorsys Touch Terminals incorporate the use of infra red touch screen technology and industrial quality Celeron processors packaged in IP65 rated stainless steel enclosures.

### Ticket or Label Printers

- Thorsys provide an extensive range of ticket printers and automatic label applicators sourced from internationally recognised companies such as Datamarc and Intermec.

### Scanning Equipment

- Thorsys provides an extensive range of Radio Frequency scanners sourced from internationally recognised companies such as Symbol and Intermec

## The Company

- Thorsys Australia is a 100% Australian owned company specialising in the supply of information technology to the Food Processing industry, specialising in the Meat industry.
- Thorsys has always been at the forefront of innovation and has successfully developed and installed –
  - Σ • Radio Frequency networking for real time evaluation and updating of product information using RF hand-held terminals introduced and first installed in 1995.
  - Σ • Boning Room Traceability systems (Cut Traceability Module), introduced and first installed in 1997, designed for single table boning providing individual weights and labelling for primal cuts.
  - Σ • Thorsys Touch Terminals introduced and first installed in 1997, specifically designed for the harsh operating environment experienced in a food production facility.
- We cater for all operation sizes, from the small meat packers to the largest export group.
- Our product customisation policy is unique to the industry, and well met by all clients.
- Our goal is to provide complete computer solutions at a cost-effective price to all areas of the Food Processing industry, specialising in the Meat industry.
- Thorsys has clients in Australia, New Zealand and Japan.

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