

High Speed Order Picking Printing System



Introduction to Newbury Data

Manufacturing	Newbury Data is the UK's leading manufacturer of thermal ticket printing, encoding and issuing solutions, including desktop, OEM & mobile printing, and self-service ticket vending machines.			
Value Added Distributor	Manufacturing printers since 1974, Newbury Data's reputation for our own high quality and highly reliable printers has made us the number one partner of choice to distribute thermal printers for the world's leading manufacturers such as Citizen, Intermec, Printronix, Toshiba and Zebra. 30+ years expertise in impact and thermal printing solutions has allowed us to develop unique solutions to help our customers migrate from legacy desktop or stand alone systems to use Mobile, Wireless, RFID and fully automated solutions interfacing into the latest WMS and ERP systems. Newbury Data's expertise in generating value added impact and thermal printing solutions has allowed us to develop solutions including Barcode Validation for desktop thermal printers, as well support for our clients to migrate their applications from legacy desktop or stand alone systems, to use Mobile Printers, Mobile Computers or RFID peripherals.			
Auto ID & RFID Solutions	Complimenting our printing solutions Newbury Data have become a Cipherlab Partner and an Intermec Honors Partner. This enables Newbury Data to be able to deliver batch & real time mobile data capture solutions including customer specific hand held computer software or full traceability and RFID applications. Writing either bespoke mobile computing or Healthcare identification and traceability software solutions has helped make Newbury Data one of the most sophisticated GS1 Auto ID solutions providers in the UK.			
Manufacturers Supported	Computers Cipherlab Datalogic Intermec LXE Motorola Pision Teklogix	Printers Citizen Intermec Kroy Newbury Data Printronix – TallyGenicom PSi Laser Toshiba Zebra	WLAN Cisco SEH	Software Bespoke Printronix Seagull Scientific SOTI Zebra
Professional Services	The professional services team provides wireless LAN site surveys, project management, product installations and user training programs to suit all requirements.			
Media & Maintenance	Newbury Data provides advice and supply of consumables, labels, ribbons, print heads, spare parts, on-site maintenance and workshop repair services for all the products we supply.			
Financial Services	Call to see how you can maximize your capital investments.			

Developing & Supporting High Speed Order Picking Printing Systems

Identify

Through detailed dialogue and excellent understanding of data capture and printing, Newbury Data's experienced system analysts, sales and technical teams will help clients identify products and methods to increase productivity with maximum return on capital investments through the use of mobility solutions.

Develop

Our in house team of hardware and software developers will ensure the proposed solution delivers and meets the increased application performance and financial investments.

Propose

Our detailed analysis of the solution is broken down in the proposal to help procurement professionals understand potentially unfamiliar but key components relating to (or when introducing) new solutions.

Evaluate

In many cases, either when introducing new solutions for the first time, or when looking to introduce an alternative manufacturers device, clients would like the development engineers and operators to have a say in what type of device they would benefit from. Newbury Data has a wide choice of devices available to allow our clients the chance to evaluate the way the proposed products perform key users functions.

Supply

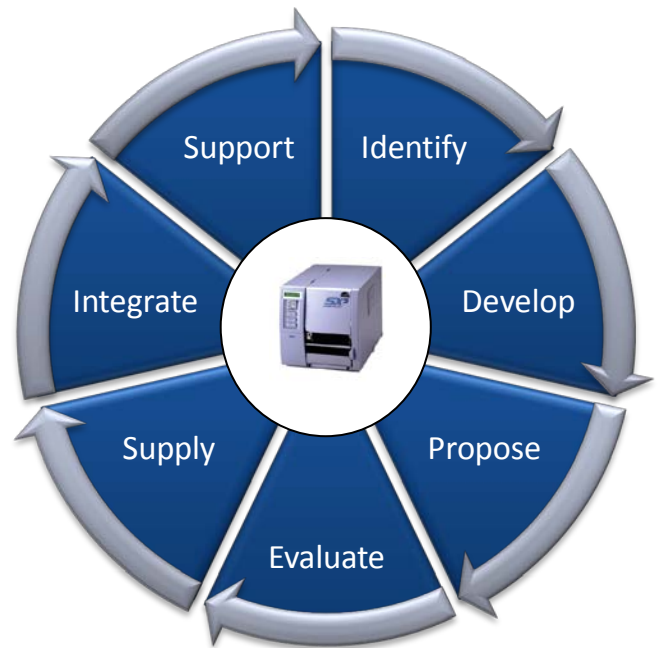
Manufacturers supported by Newbury Data directly liaise with the Sales Administration and Purchasing (SAP) Team, as well as our project managers responsible for ensuring the procurement of products and services meets key project installation dates.

Integrate

Newbury Data employ proven software developers and Cisco trained communication engineers to provide both software and wireless communication integration. Professional Services support staff ensure software developed to meet key functional requirements is correctly installed and configured, including training of key operators and trainers.

Support

From hotline technical helpdesk, on-site maintenance contracts, workshop repairs or enhanced manufacturer warranty programs, Newbury Data support solutions will ensure our clients receive the best after sales support available.



**High Speed Order Picking Printing System
Development & Support Cycle**

Introduction to Solution



Distribution Centre

A **distribution centre** for a set of products is a warehouse or other specialised building, often with refrigeration or air conditioning, which is stocked with products (goods) to be re-distributed to retailers, wholesalers or directly to consumers. A distribution centre is a principal part, the "order processing" element, of the entire "order fulfilment" process.

Distribution centres are usually thought of as being "demand driven". A distribution centre can also be called a warehouse, a DC, a fulfilment centre, a cross-dock facility, a bulk break centre, and a package handling centre. The name by which the distribution centre is known is commonly based on the purpose of the operation. For example a "retail distribution centre" normally distributes goods to retail stores, an "order fulfilment centre" commonly distributes goods directly to consumers, and a cross-dock facility stores little or no product but distributes goods to other destinations.

Distribution centres are the foundation of a "supply network" as they allow a single location to stock a vast number of products. Some companies operate both retail distribution and direct-to-consumer out of a single facility, sharing space, equipment, labour resources and inventory as applicable. Since a large retailer might sell tens of thousands of products from thousands of vendors, it would be impossibly inefficient to ship each product directly from each vendor to each store. Many retailers own and run their own distribution networks, while smaller retailers may outsource this function to dedicated logistics firms that coordinate the distribution of products for a number of companies.

Processing

Another way to look at a distribution centre is to see it as a production or manufacturing operation. Goods arrive in bulk, they are stored until needed, retrieved and assembled into shipments. The efficient processing of a distribution centre can greatly impact the final price of product as it is delivered to the end user. Efficient processing not only directly impacts the cost of goods through reduced labour it indirectly impacts the cost of goods through reduced inventory. Inventory represents an investment with its associated investment interest or inventory carrying cost. Reducing the processing time of order processing can directly reduce the amount of inventory necessary to be stocked in the operation.

Order picking

The **order picking** or order preparation operation is one of a logistic warehouse's process. It consists of taking and collecting articles in a specified quantity before shipment to satisfy customers orders. It is a basic warehousing process and has an important influence on supply chain's productivity. This makes order picking one of the most controlled logistic processes. It is one of the key warehouse management system functionalities.



Shipping list

A **shipping list, packing list, packing slip** (also known as a **bill of parcel, unpacking note, packaging slip, (delivery) docket, delivery list, or customer receipt**), is a shipping document that can also act as the order picking list that accompanies delivery packages, usually inside an attached shipping pouch or inside the package itself. It commonly includes an itemised detail of the package contents and does not include customer pricing. It serves to inform all parties, including transport agencies, government authorities, and customers, about the contents of the package. It helps them deal with the package accordingly.

High Speed Order Picking Printing System

Now that we understand the importance of the order picking and picking/shipping lists to meet the high demands of the production and distribution centre, the same level of importance needs to be maintained in selecting suitable printing systems that meets the same demands.

There are many printing technologies used but none come close to the new high speed printing system from Newbury Data. The system removes the need for constant management individual or multiple devices requiring multiple actions and touches, all of which slow down both the completion of the printing application, and the issuing of jobs to operators.

System Overview

The high speed printing system includes the following items:

- Automatic (up to 500 meter card stock) Roll Holder
- Toshiba B-SX Series Industrial Thermal Printer
- High Speed Rotary Cutter
- Thermal Transfer Ribbons
- Printer Stand (with media storage)
- Automatic Media Stacker integrated with Printer
- User Replaceable Media Cassettes
- Bartender Software or Toshiba BCI support



See YouTube video: <http://www.youtube.com/watch?v=ItZA80OZbok>

Application Development

Newbury Data software engineers will assist our clients in using Windows based label/ticket design software which integrates into existing host applications. Alternatively Newbury Data software engineers can use the Toshiba Basic Command Interpreter (BCI) to accept existing host data (even foreign data streams), avoiding the need for costly host redevelopment.

Windows Software

Seagull Scientific Bartender: Easy to Learn, Easy to Use

With BarTender, a few quick mouse motions are all it takes to combine bar codes, text, and graphics into professional quality labels or tickets. You can even encode RFID tags. Incredibly careful attention to the “look and feel” means that, if you’ve used even one other Windows program, you’re ready to start designing labels/tickets today.



Toshiba BCI

Toshiba’s ranges of industrial and semi-industrial printers are equipped with Basic Command Interpreter (BCI). This powerful feature allows printer firmware to manipulate incoming data to generate label formats, enabling Toshiba printers to be compatible with non-Toshiba data streams.

The benefit of BCI is that no changes to existing software are required, users can change printers without worrying about re-coding or managing multiple software environments. Simply unplug the old printer and plug in a Toshiba. Printer populations can be replaced gradually, keeping costs and timescales to a minimum, providing printer users with low risk migration options.

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