

M1C label printer: digital label press for any environment

High speed and low printing costs for a limited investment

With the new inkjet technology you can print “in-house” and “on-demand” color labels and tags for products and packaging. With this revolutionary technology, you are able to respond to the needs and customer requirements. The customer can now print what he wants, when he wants, and for less money. Without loss of speed you can print variable data such as ID numbers, batch numbers, expiry dates, barcodes, etc.

This technology is extremely suitable for the production of labels and tags from 1 copy to tens of thousands or even hundreds of thousands. Being able to print the labels yourself, will automatically result in less waste and lower costs. Moreover, you can create different labels for the same product, depending on various factors (use local, seasonal changes, etc.). All of this, will make your product stand out and so you will generate more revenue. A purely functional tool becomes a real marketing tool.



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Some features:

High speed up to 18 meters per minute

Thanks to the technology with the fixed print head, one can print at an incredible speed of 18 meters per minute. Depending on the desired quality, you can choose a print speed of 12 IPS (304mm per second) or 6IPS (152 mm per second). The M1-C even allows you to **print one kilometer roll of labels within the hour.**



Beautiful print quality: a true 1600x1600 dpi (dots per inch)

The standard print of this printer already allows you to print a beautiful picture with a quality of 1600x800 DPI. This helps you to create the finest labels and tags so your products and packaging will stand out on the shelves. For highly critical applications, the printer can print at 1600x1600 photo quality.



Flexibility and user

The M1C label printer is very easy to operate. Every operator who owns a TT printer (Thermal Transfer Label Printer) nowadays, can also work with this machine. You simply load the desired labels and start the print job.

Creating labels has never been easier. You design your labels in any package, and you can print by only pressing a button.



As this is a roll-to-roll labelprinter, you can choose between **pre-cut labels** (the labels are blank converted to the correct size) or a **continuous roll label material**, which will be converted after printing the labels. The first solution is ideal for standardized production environments (where you don't need to use a lot of different sizes and materials). Finishing the labels yourself, though, can offer some extra features and flexibility for special labels.

The **integrated cutting system** is programmed by the user. You can cut after you have finished the whole job, after each label or after a self-determined number of labels. Depending on what you want in your production environment.

In the control panel, via the web interface, various functions are provided which can **easily be set by the operator**. This makes it very easy to load paper, clean the head, etc.

Productivity and maintenance

With the M1C label printer you have a real production machine in house. The engine is suitable for **a monthly volume of 105km** for 5 years. The life of the print head depends off course on the quality requirements and the applications. You only need to change the header when you find it necessary, though. In reality this will be somewhere between 7 and 35 km printed labels.

The unit itself requires almost no maintenance. A **maintenance module provides protection and cleans the print head**. These functions are activated automatically and can also be adapted from the toolbox. This module is designed as a consumable and can be changed by the user, just as the ink and the print head, as they are very easy to be replaced.

Low printing costs and TCO (Total Cost of Ownership)

Using a fixed print head and ink cartridges of 250ml implicates a very limited print costs. This demonstrates that inkjet does not need to be expensive. Most inkjet devices indeed use very small and expensive cartridges. The overall print cost of Tasco's M1C is up to **10 times lower**. Other systems, like toner-based systems (LED or Laser) need a lot of extra consumables (photo conductors, furnaces, conveyors, etc.) which increase the total print cost a lot. We are, on average, a third cheaper.

With the M1C label printer it is very easy to calculate what this unit will cost in total. Tasco can also offer you a **very interesting renting formula with a warranty extension up to five years** (see brochure wext) and a **contract for installation, training and support** (see brochure WUC). There will never be any surprises. Thanks to the calculating tool we can make an accurate estimation on the price you will pay for the ink, printheads and maintenance modules. If you add it up you will know exactly what this investment will cost you!



Software and controlling the M1C label printer

The printer is compatible with all **Windows versions**. You can design your labels in any program and print them with a standard driver, where you manage all printing features. In collaboration with our IT department, we can also build customized solutions.

If you don't have a program to design your own labels, we recommend you to use NiceLabel. As a reseller of this professional label printing program, we can offer a **total solution**. Depending on your needs, we can propose the correct version. With the basic version you can create, edit and print your labels very easily. You can add all images, texts, barcodes etc. together into a beautiful label. NiceLabel offers many more possibilities, though. For instance you can use the program to integrate your own database into the label.



Nicelabel software

Finishing options

For most projects, this won't be necessary. In certain situations it can be interesting to finish the labels yourself, though. Also for these finishing options, you can count on Tasco. Depending on the volumes, the different formats, etc... we will offer you the right solution.

This solution is perfect for many small jobs, each with different label formats. Moreover, you can cut in any shape. You can send the desired shape through the computer and the machine does the rest. For larger volumes we recommend flat stamping machines, semi rotary or rotary converting machines. With these machines you can quickly process larger volumes.

For additional protection against water and light one can **laminates** the labels. In this case a plastic film is applied to the material after it has been printed. Later on, the labels will be punched out. On most of our cutting machines you can laminate and punch the labels in one movement.

A cheaper protection is UV coating. In this case, we bring a layer of varnish to the material which is then cured. This UV-coater is specially adapted so it is **possible to coat also die cut labels**. Next to the extra protection, these techniques will also generate added value to the label. For instance, you can make your label extra glossy or make it extra mat, of course, depending on the requirements.



Materials

The quality of your labels mainly depends on the material you print on. We carefully advise the best materials to optimize your print quality. The most commonly used and cost-effective solution is to print on paper labels, but also synthetic materials such as polyester and polyethylene are available with a special inkjet coating. Explain your application and we will recommend you the right materials. The **adhesive** from the labels can be important as well. Therefore let us know whether you need them suitable for a freezer, if they have to be removable, extra permanent or

In order to offer a total solution, we **convert the blank labels ourselves**. This gives you an unlimited choice of sizes and shapes. Let us know what you want and we will make it. Of course, we also have a list of **standard materials**. This provides a solution for companies who need a smaller amount of blank labels. These dies are already in our possession so we can produce immediately when necessary. Of course you are always free to purchase your own labels. We do recommend to test first on quality and durability, though.

Integrated Inkjet Technology

The brand new inkjet printing technology is a radical development. With a new printhead, new processor chips and software we print at unprecedented speed with an amazing quality.

New printheads

In most color inkjet printers, the print head moves back and forth. This has always been slow and can cause mechanical problems. With 70,400 nozzles in the printhead we spray millions of droplets of ink per second. And this over the entire width of the sheet or the envelope at one time. This process is more efficient in energy, mechanically stable and reliable. Moreover, it is up to 8 times faster and even faster than many monochrome printers.



New chips

For a quick printhead, you need a fast processor chip. As it didn't exist yet, Astro developed this chip. This chip was one of the fastest in the world and personalization is not a problem.



New inks

With a printhead that is 8 times faster than traditional inkjet printheads, you need special inks that are liquid enough and dry on time. As they have been designed for optimum quality at high speed these inks may be the most advanced that have ever been made.



New Software

As printheads and chips are just as good as the software that controls them, Astro also developed the software from scratch, based on the needs and purposes of your clients.



See also our **AstroJet M1** mailing printer with the same technology!
Envelopes - addresses - stationery - mailings - ...
Full Color at high speed and low printing costs!

Astro 

Specifications

Technology

| | |
|-------------------|---|
| Print Method | Brand New Inkjet Technology: Drop on Demand Thermal Inkjet printing |
| Number of nozzles | 70,400 nozzles (14.080 per color) |
| Print speed | 9 m / min (best quality) / 18m / minute (normal quality) |
| Resolution | 1600 x 1600 dpi (best quality) / 1600 x 800 (normal quality) |
| Consumption | 500W or less Standby 5W |
| Interface | USB and ethernet |
| Software | Windows (XP/Vista 7) |

Ink and Media

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|-------------------|---|
| Ink | Five individual ink cartridges 250ml (CMYKK) - water-based dye inks |
| Media Thickness | 0.13 to 0,33mm (3 to 12 points) |
| Media sensor | Fixed media sensor for gap and black mark (also continues) |
| Max. print width | 219mm |
| Min. print length | 762mm (without stitching) - unlimited with stitching |
| Min. label format | 10 x 5mm (w x h) |
| Roll width | 43 - 220mm (after modification) |
| * Option | Small Label Kit, roll width from 5mm |

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