



Products and Processes

Format-4 CNC Machines

Format 4, a brand of the Felder Group, is offering a wide range of CNC machines to meet diverse applications. Machines are customised for panel processing, office work stations and door/window production.

The machine construction is divided into console and matrix table types. A machine with consoles is usually preferred by furniture manufacturers. However, for someone looking at a pure router or someone looking to produce, for example, membrane pressed shutters, a matrix table machine could be a very good option.

Format 4 manufactures a wide range of machines which include the Profit H20 (working dimensions: X-axis 3,050 mm and Y-axis 1,260 mm), Profit H22 (working dimensions: X-axis 3,050 mm and Y-axis 1,260 mm) and Profit H24 YL (working dimensions: X-axis 3,050 mm and Y-axis 1,630 mm). For window and door production, Format 4 offers the Profit H30 which has working dimensions of X-axis up to



(X, Y and Z). A 4th axis (C-axis), which is also fully interpolating, can also be added. The C-axis increases the possibilities for the customer, allowing her to use a wide range of aggregates.

Some of the unique selling propositions for Format 4 CNC machines are:

- Very high quality main spindle with ceramic bearings. The bearings are greased for life, reducing maintenance downtime.
- Positioning of vacuum pods with lasers. This ensures that the pods are always in the right position and are not damaged because of operator's mistake.
- A 93 m³/hour vacuum pump ensures that the work piece is held safely and securely in place. Apart from the air filter, the vacuum pump needs no maintenance. In matrix table machines, this pump is upgraded to 250 m³/hour.
- Automatic lubrication ensures that the machine is working for longer hours without stopping for lubrication.
- Additional vacuum ports are standard, allowing the customer to work with templates very easily.



5,810 mm, Y-axis up to 1,790 mm and Z-axis up to 280 mm. The main spindle is a 9 kW, air cooled, step-less variable speed motor which can run at speeds up to 24,000 RPM. However, larger motors are available as an option.

A drilling head is standard on all machines with consoles. The drilling head also carries a grooving saw in the X-axis. Matrix table machines are prepared to be retrofitted with a drilling head in the future.

The standard CNC Work Center is working on 3 fully interpolating axes

All the components used in the machine are from standard suppliers, Such as pneumatics from Pnumax and Festo, vacuum pump from Becker, PC from Dell, electronics from Siemens and Moeller, racks and pinions from Bosch Rexroth. The use of such high quality parts ensures that the machine quality is consistently high.



Kitchen Production: A Profit H20 (with consoles) can be very useful for drilling accurate holes for kitchen carcasses. It can be also very useful for routing out profiles for membrane pressed shutters. On an average about 80 – 100 carcasses per day can be very easily produced on the Profit H20.

Office Furniture: Production of 5' X 5' table tops is now made very easy on the Profit H24 YL with its extra large Y Axis. The machine allows customers to produce these tops in less than 10 minutes (for 2 table tops) and reduces wastage dramatically.

Door and Window Production:

The Profit H30 is a machine specifically designed for door production. A simple rebate door is produced in about 10 – 12 minutes.

Special Milling/Routing: Format 4 has developed a special post processor which allows users of Artcam® to export data to their Format 4 CNC. This opens up a whole new world for milling jobs.

A wide range of options allow the customer to customise her machine. A short list of these options includes:

- Drilling head with grooving in X and Y axes.
- C-axis to work with aggregates
- 5.50 kW Horizontal Mortising Motor to work faster on doors.
- A variety of tool changers ranging from a 2-position side pick-up station to a 12-position in-line tool changer to an 18-position rotary tool changer, of which up to 2 can be fitted on the machine.
- Chip deflector, a very special accessory for working on doors and windows.

Format 4 CNC Workcenters can help customers achieve their goals. A few of these goals could be:

Format 4 endeavours to offer its customers the correct solution. Machines are customised in order to serve the customers current and future applications. Enough redundancy is built into the machine to allow for future upgrades. As an established player in the wood working technology scenario, Felder is committed to offer cutting edge technology to its customers backed by a fantastic service support. To rest any doubts, all machines are Made in Austria. Indian producers get the same technological advantage that European producers have. This is not so insignificant since in a globalised scenario, you have to compete against the best.

www.format-4.com

Glu-Man Glue Spreader from Hanfas

No Stress – No Mess

Hanfas is a manufacturer of essential modular furniture fittings, as well as basic tools and jigs for the woodworking industry. With innovative and good quality products, Hanfas has been able to impress customers and has achieved the benchmark of trust for consistent quality.

The 'Glu-Man' glue spreader from Hanfas is a manual hand-held glue applicator with two rollers. It is available with micro adjustment for variable flow of glue application. It facilitates easy and even spread of glue over large panels as well as curved surfaces. Besides being user-friendly, it also enhances operator efficiency.

It is best suited for glues having short setting time properties, enabling optimum utilisation of large panels in less time. Any brand of PVA glue can be spread with 'Glu-Man', with almost 30% glue savings against conventional spreading with brushes or spatulas or rollers. Work can be completed in half the time, thus making it possible to complete large volumes of pasting in target time.

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