

## Application

interfaces we need. The use of only one CompactFlash card for saving and handling all programs also simplifies service and maintenance considerably."



Compact and powerful - Servo motors.

The fact that the entire solution came from a single supplier proved to be especially advantageous. "Since all the industrial components needed to control our filling machines come exclusively from B&R and coordinate perfectly within the automation system, we are able to benefit from low hardware costs and a high potential to reduce costs through significant energy savings," emphasizes Chiry. ■



# Faster time to market with integrated technology

## Stoppil:



**Founded:** 1947

**Employees:** 28

**Locations:** Chanteloup en Brie (FR)

**Products and services:** Development and manufacture of filling machines for the foodstuffs and cosmetic industry and the chemical industry.

[www.stoppil.com](http://www.stoppil.com)

**Today, the market requires flexible machine concepts in addition to more and more productive and precise machines. Scalable hardware is a crucial feature in order to meet these increased requirements. In addition, time-to-market is also reduced through the use of an integrated software tool, which provides a decisive competitive edge.**

Since 2003, the development and production of economical bending machines has been the core business of the Indian machine manufacturer Naveen Hydrocontrols Pvt. Ltd. At the headquarters in Pune, over 50 qualified employees implement customer-specific solutions and generate an annual sales volume of approximately 60 million INR. In addition to servo-hydraulic CNC pipe, square, rod, angle and wire bending machines, the broad product line also includes reliable solutions for the production of various metal profiles.

### **Integrated technologies from a single source**

The long development times and poor economic efficiency of the



With a cycle time of 200  $\mu$ s, the X20 CPUs enable extremely fast processes with the highest level of precision.



*"With a total solution for control, visualization and drive technology from a single supplier, we were able to reduce the time-to-market significantly. The high market demands regarding speed and precision were able to be optimally met using the modern automation technology supplied."*

**Shivanagouda B Nandepagoudar**  
Managing Director  
Naveen Hydrocontrols.

With an X20 controller, the cycle time was able to be clearly reduced. The result was a machine solution that meets the customer's high demands regarding precision and productivity. Depending on the requirements, the machine can be operated in different modes - manual, semi-automatic and fully-automatic. ■

previous solutions caused Naveen Hydrocontrols to make fundamental changes to its supply strategy. Purchasing various machine components from a large number of different suppliers made it practically impossible to implement cost-efficient bending machines within the short times required. A technology partner that provided expert support for the machines over the entire product life cycle was needed.

The Indian machine manufacturer decided to use high-performance B&R components because of the comprehensive line of modern automation devices offered as well as the expert support provided when developing the concept and implementing the solution. Using scalable hardware, all machines can be optimally adapted to the customer's specific needs. Annoying interfaces are a thing of the past when using

Automation Studio as the programming tool. In addition, the uniform automation platform greatly reduces development times and significantly decreases maintenance costs.

#### **Precise movement control**

The task of converting YBC coordinates to machine coordinates on the pipe bending machine was handled effectively using a high-performance Power Panel 320. The visualization device is also capable of calculating complex algorithms in addition to the standard task of handling process visualization. Also, the machine operator profits from simple and intuitive input of all necessary process parameters.

The special challenge of synchronizing the movements of the trolley (push axis) and bending tool was able to be mastered in a very short time using ACOPOS servo drives.

The central control element of the new pipe bending machine is the compact Power Panel 320, which handles the calculation of complex algorithms for controlling movements.



### **Naveen Hydrocontrols:**



**Founded:** 2003

**Employees:** 54

**Revenue:** 60 million INR

**Location:** Pune (IN)

**Products and services:** CNC pipe bending machines, special machines for forming pipe ends, hydraulic presses, special devices for pipe / square / bar bending and forming

[www.naveenhydrocontrols.co.in](http://www.naveenhydrocontrols.co.in)