

AUTOMATION SOLUTIONS SIMPLIFIED



Editor's Note

Welcome to the second issue of Velocity, Bharat Bijlee's quarterly customer newsletter.

We are always looking for simple and innovative automation solutions, using knowledge of applications and products, that can help reduce factory cost for our customers. Through our newsletter, we share with you various applications that can help you reduce Total Cost of Ownership and improve profitability.

This issue covers an energy saving servo application for Hydraulic Press. A retrofit solution using Servo Drive and Motor can deliver almost 30% in energy savings. Bharat Bijlee has domain expertise in this and can offer a complete solution after doing an application study.

As we know, a sizeable number of old CNC machines are imported and retrofitted in India. The typical retrofit package comprises both Drive and Motor, which is costly. Bharat Bijlee's Servo/VFD solution can work with any Motor, eliminating the cost of replacing the Motor. KEB Servo Drives operate on many makes of Servo Motors with any kind of feedback mechanism.

We look forward to your feedback on our approach, and suggestions on how we can make this newsletter more relevant for you. Please write to us at drivesales@bharatbijlee.com

Happy reading!

Warm regards

Bhadrash Dani

Vice President
Drives and Automation Division



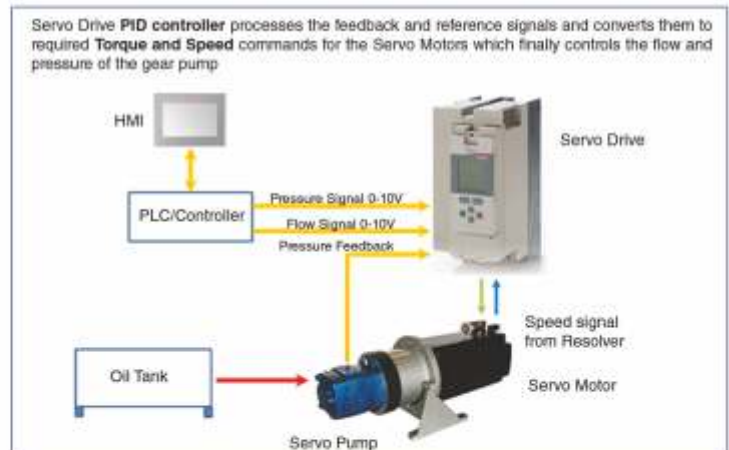
30% energy savings in Hydraulic Press with Servo Technology

The combination of servo- PLC allows variation in stroke length and speed of the vertical ram, thereby providing flexibility while improving product quality and enhancing productivity. The elimination of various valves reduces stress on the system, while lower oil temperature requires less chilling power. The technology can also be rendered safe by using proximity or limit switches.

There is huge potential in our country to retrofit existing presses with Servo technology; this can result in tremendous energy savings as well as increased efficiency. The Servo Motor is compact, with very low noise levels and greater overall efficiency compared to a standard Motor.

Apart from Hydraulic Press, servo technology finds use in a variety of machine applications, including plastic injection moulding, pressure diecasting, and rolling feeders.

The concept is fast gaining popularity in Europe and the US, with old Hydraulic Presses being retrofitted with Servo technology. The payback period can be as low as 1.5 to 2 years. Leading international Hydraulic Press OEMs offer this technology in their new presses.



Bharat Bijlee's Solutions for retrofitting of CNC Machines

- Servo Motor & Servo Drives for CNC axis (Retrofitting)
- Spindle Drives
- KEB Servo Drive- F5, F6 & H6
- Servo Motors from 1.2 Nm to 200 Nm for axis control
- Asynchronous Servo Motors for Spindle
- Sprint Electric (UK) DC Drives up to 2500A for Spindle application

KEB Servo Drives can be used with third party Servo Motors

- All feedback options are available: TTL Encoder, Resolver, Endat Encoder, Hiperface Encoder, Sine-Cosine Encoder, Biss, UVW Type Encoder.
- All communication options are available: Profibus/ Profiinet, Ethernet TCP/IP, Ethercat, Power Link, Canopen, Sercos, Modbus and many others

Advantage to the Customer

- Customer can retain existing Servo Motors of any make
- KEB Servo Drive can communicate on any CNC controller with Analog/Digital Signals as well as on communication



Full-fledged Service Centre at Airoli

A dedicated service center at our plant in Airoli provides quick and focused service to our customers. Operational since April 2014, it is equipped with state-of-art facilities including a test setup and advanced instrumentation.

We monitor each service call through SAP-enabled processes, and track TAT (Turn Around Time) at various stages from registration to closure –starting from response to the service call (TAT1), deputation of engineer at site (TAT2) and finally resolution of the service call (TAT3).

We have a team of 10 service engineers, including those on field and at the service centre. We keep spare stock for Drives and Servo Motors to enable prompt service. Drives are repaired at card and component level. Repair of Servo Motor is also possible after appropriate inspection.



Customers can contact us on our help line numbers +91 9167202402 / 022-27637290 or send an email to driveservice@bharatbijlee.com

New! **Remote monitoring & diagnostic of machines**

COMBIVIS Connect Router, or C6 Router, is a new product from the KEB family. It allows machine builders, OEMs, utility managers and system integrators to remotely access machines and assets with flexible and cost effective LAN/WAN/Modem connectivity.

The C6 Router is able to provide remote assistance services as a standalone solution, enabling the use of COMBIVIS Connect in situations where for any reason the software solution is not an option.

It permits device monitoring and access via Ethernet or serial interface. KEB's Ethernet-based routers are provided with an integrated 2G/3G/3G+ Modem. Therefore all systems and automation networks can be monitored and remotely maintained without cabled-bound Internet. The C6 Router also allows real data monitoring, data-logging and monitoring of possible alarm conditions, and enables sending of alerts and notifications by email and SMS.

COMBIVIS connect Control Center Software is an easy way to export data stored in the local memory of the Router and the eventual access on the graphical pages through an integrated client.

C6 Router features the following interfaces:

- 2 Ethernet ports, one each for the WAN connection and the LAN connection
- 1 multiple standard and opto-isolated serial port for the "Serial Pass-through" and "MPI Gateway"
- 1 USB 2.0 Host type port for the configuration and upgrade
- 2 digital inputs to issue operating commands
- 2 digital outputs for status report



Welcome to the DASP Community!

Drives & Automation Solutions Provider



Sushil Tiwari
M/S. MTech Power Controls (Mumbai)

They deal in AC Drives, Control Panels, and PLC largely in Textiles and Plastic Industries in Mumbai and Daman Silvassa Region



A.N.Girish
M/S. LEKA (Bangalore)

They deal in Servo Drives and Motion Controllers Geared Motors/Servo Motors etc. for Machine Tool Applications, and have strong domain knowledge of CNC controllers.



S.Palaniswamy
M/S. Scanner Control (Coimbatore)

They specialize in AC Drives mostly in Textile and Plastic Industries and are well equipped for repairs of AC Drives.



Sathish Kumar
M/S. SK Solutions (Chennai)

They intend to grow our Drives business in printing and packaging industries.

Exhibitions

Bharat Bijlee recently participated in the Intec Exhibition at CODISSIA, Coimbatore. Our stall attracted a large turnout of existing and prospective customers. Visitors were keenly interested in our products displayed - Servo Drives, Servo Motors, Gear Pump and Motion controller. Prospective customers were largely from the Machine Tool and Textile industry.



Customer's Voice

Bharat Bijlee invited Mr. Shirish V. Divgi, Managing Director, Ferromatik Milacron India Pvt. Ltd. to speak to the members of our Drives & Automation Division.

In an inspiring talk, Mr. Divgi described the growth of the Plastics industry during the last 5 years. He highlighted the significance of team work, waste elimination, productivity and the importance of understanding what the customer wants. Through small group activity, the enthusiastic Drives & Automation team drew up a road map to achieve success. During his visit, Mr. Divgi also inaugurated the Velocity customer newsletter.



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