

COMMISSIONING

Hot Metal Ladle Crane with GA700 & R1000

Commissioning of VFD at Hot Metal Ladle crane in 60° C Temp.

by Manohar R

The regenerative solution of YASKAWA with R1000 helps in supplying the regenerative energy back to the grid hence minimising the cost of operation of 60 Ton Ladle with molten hematite metal.



Video Link : <https://www.youtube.com/watch?v=u7K4F1sZqng>

ANNUAL HIGHLIGHTS

Announcing the best achievements for FY21-22

We are pleased to announce the key achievements of the FY20-21 with extended support by all team members and company.

- ⇒ New Application Developments : 18 no's
- ⇒ Case Stories : 29 no's
- ⇒ Appreciation Letters : 37 Customers
- ⇒ Online Webinars : 28
- ⇒ Trainings : 119
- ⇒ Panel Testing : 95 Projects
- ⇒ Project Commissioning's : 20
- ⇒ Product Demo at customers : 12
- ⇒ Manpower Utilization : 1802 days at site
- ⇒ Servo Repair at Bangalore Service Centre : 150 Drives
- ⇒ Servo Retrofits : 66 no's
- ⇒ Servo Drive coating at Bangalore service centre : 400 no's
- ⇒ Software Loading : 100 VFDs
- ⇒ 12 pulse conversion for GA700: 98 VFDs
- ⇒ E-Learning Videos : 12 Videos
- ⇒ AMC Activity : 57 Visits

CEO'S MESSAGE

CEO's Message for the team

CEO, Shailendra Salvi

"Service team is the backbone of every company and YASKAWA India always considers Service as a priority.

YASKAWA has various installation in every corner of the country and we ensure the best service support 24x7 to all our customers."



Shailendra Salvi - CEO

COMMISSIONING

300TPH Kiln Drive with 1.2MW HHP VFD— Cement Industry

by Boopathi S & Manohar R



An HHP VFD rated for 1.2MW is successfully commissioned at a cement plant for KILN with 300TPH capacity and working satisfactorily in closed loop as well as open loop (during encoder failure) operation.

About NEWSLETTER

"Technical Newsletter is a collection of DMC Technical activities, Product updates ,New Application developments ,Major commissioning activities , Key Retrofit of Servo products & VFD ,Trainings and key events . It is prepared to share the technical information across YIND internal and Partners on every quarterly basis."

Technical Newsletter - Edition1 : FY2021 (Mar-21 to Feb-22)

Pradeep Kumar ,A Head - After Sales & Technical Support



Servo Training Session

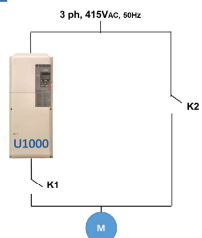


NEW DEVELOPMENT

U1000 with Eco Mode for Direct-On-Line Changeover

by Pradeep Kumar & Manohar R

DWEZ is program is developed for On-Line changeover with Eco-Mode feature available with U1000 Matrix drive. There is smooth transition of Voltage & Current during online change over from U1000 to DOL mode at grid frequency. No Jerk on the motor or mechanics is observed. Current spike is recorded to be less than 1.3 times of rated value. K1 and K2 are changeover contactors.



COMMISSIONING

Sugar Mill with load sharing GA700

by Anil Sanap



GA700- 4 no's are installed at Sugar plant for Sugar Mill application. It consists of three rollers i.e. Top roller, Feed Roller and Discharge Roller. The prepared sugar cane comes under three roller mills between top roller and feed roller. System is running satisfactorily.

RETROFITTING

G5—Slim Retrofit with HHP VFD

by Ajitesh Jha

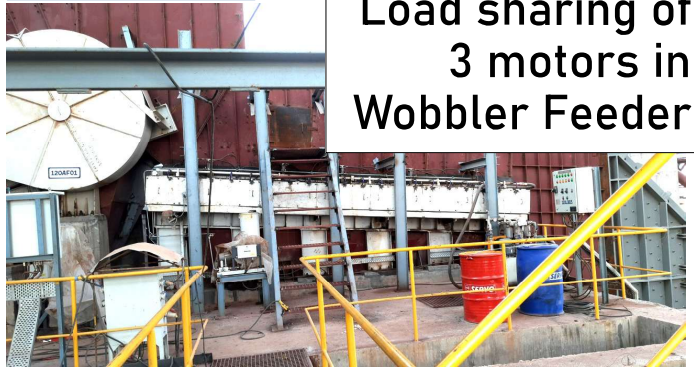
G5 Slim Module (3-Axis) is successfully retrofitted with HHP inverter modules on-site. Retrofitting is completed in 2 days of existing panel on-site. G5 Converter module is replaced with HHP converter module. Commissioning is done successfully and system is working satisfactorily. Customer is appreciated for the quick TAT retrofit service provided for HHP by YASKAWA team with minimum shut-down period.

Module : 400V_{AC} HHP— 750kW



APPLICATION DEVELOPMENT

by Nandakumar R



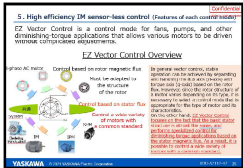
Load sharing of 3 motors in Wobbler Feeder

Load sharing is implemented with V/f control for Torque component (Iq Current) sharing of three Motors at cement plant for wobbler feeder.

Load sharing with drives is accomplished using PID mode regulation on the Iq monitor signal (motor secondary current) to trim the speed command of the slave. The master Iq signal is proportional to the load. Along with the master speed reference, this load signal is sent to the slave drive. The Iq from the master VFD acts as the set-point for the Slave VFD and feedback being its own Iq value. On the slave VFDs a PID function is used to trim the speed command and equalize the load produced in the slave drives with the master. The configuration is successfully commissioned and working satisfactorily at site.

SKILL DEVELOPMENT

IE3 High Efficiency Induction Motor Training by YEC



YEC Global Application conducted online training on IE3 high efficiency induction motors to YIND group. The session includes technical information of the IE3 motors and installation/tuning of VFD for IE3 motors. Sales and service team have attended the session. The training is followed by a technical quiz & the winners are Mr.Ajitesh J, Mr.Reegan R and Mr.Sahil M.

Certification of Repairing of MV1000 and HHP Series at YASKAWA India Pvt Ltd , VFD Service Center.



Online training for the repair of MV1000 and HHP inverter is provided by YAD, Japan Service Team. This will help YIND for repairing MV1000 Power Cells . YIND will also be able to perform repairs and no load tests of HHP inverter modules at our facility.



MV-DRIVE COMMISSIONING

by Harikrishnan R

Medium Voltage drive MV1S (3MW, 6.6kV) is recommissioned with spare transformer at one of the leading PSU's in India. Customer is appreciated engineer for best support and provided with an appreciation letter.



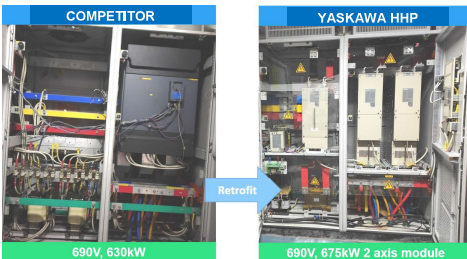
VFD Training Sessions



RETROFITTING

Retrofit Competitor VFD with HHP series

by Boopathi S and Prithesh Shanbhag



A competitor 690V class VFD is successfully retrofitted with YASKAWA HHP VFD at one of the premium Steel Plants in southern part of India. Retrofitting of the drive is done on-site with existing panel (TAT Less than 4 days). Commissioning and load trials are successfully completed. Customer is happy with the engineering and service provided on-site. Similar multiple orders are expected from the same customer.

SMS PORTAL

Online Quotation Portal for Service & Spare parts

The quotation portal is incorporated with the SMS portal for preparing service and spare part quotations online. This provides an easy tracking system for all the quotations sent by the team individually. This portal helps the team to track all orders starting from generating an enquiry to receiving the final Purchase Order.

Sl. No.	Serial No.	Item Name	Date	Type	Status	Quoted Price
1	CMC01-2345-ABC001	ACU-001	01-Feb-2022	RFQ	Open	10000
2	CMC01-2345-ABC002	ACU-002	01-Feb-2022	RFQ	Open	12000
3	CMC01-2345-ABC003	ACU-003	01-Feb-2022	RFQ	Open	15000
4	CMC01-2345-ABC004	ACU-004	01-Feb-2022	RFQ	Open	18000
5	CMC01-2345-ABC005	ACU-005	01-Feb-2022	RFQ	Open	20000
6	CMC01-2345-ABC006	ACU-006	01-Feb-2022	RFQ	Open	22000
7	CMC01-2345-ABC007	ACU-007	01-Feb-2022	RFQ	Open	25000
8	CMC01-2345-ABC008	ACU-008	01-Feb-2022	RFQ	Open	28000
9	CMC01-2345-ABC009	ACU-009	01-Feb-2022	RFQ	Open	30000
10	CMC01-2345-ABC010	ACU-010	01-Feb-2022	RFQ	Open	32000

COMMISSIONING

Major commissioning of Cooler Fans at cement plants with GA700

By Boopathi S & Yogeshwara S

Cooler Fans are commissioned at major cement plants across India with EZ vector control for high energy savings and smooth operation.



Advanced Speed Search functions with GA700 and EZ vector control is used to start the fan in reverse direction without any braking unit. More than 75 VFDs are supplied and installed.



SERVICE REVIEW MEET, NOV-2021



YASKAWA India Pvt. Ltd. has conducted Service review meeting at Andaman & Nicobar Islands in November 2021. This was a great opportunity for all the team members to bond together and get to meet new members of the team. The session kicked-off with an opening note by Mr. Shailendra Salvi – CEO & Vice President – YASKAWA INDIA PVT LTD. Salvi San shared his knowledge and experience which was very insightful. The occasion progressed with the presentations of respective Regional Service Team members on key commissioning and development activities followed by Application development & Product Updates. Key-activities of Repair Center and Customer care were also presented. Awards were presented to engineers who have extended the best service support under R&R program.

SERVO RETROFITTING

Automobile Shock Absorber machine testing

By Sahil Malwanker



This machine is used to perform the damper test on shock absorbers of automobiles with the help of speed variation in Servopacks. Global automobile leaders utilise this equipment to test their shock absorber quality of the vehicles manufactured.

Servo Coating for special machines.

Special coating for the YASKAWA servopack is executed at YIND service centre. After coating, the VFDs are tested at the testing jig at service centre and are ensured for 100% quality. More than 400no's are completed in FY2021

APPLICATION DEVELOPMENT

EZ vector control for Slew Reclaimer with GA700 for the FIRST TIME IN ASIA

By Manohar R



The Slew portion of a reclaimer machine is implemented for the first time in Asia and commissioned successfully with YASKAWA GA700 EZ Vector control at one of the most premier paper mills in southern part of India.

SERVO RETROFITTING

Constant flow Sealer machine for Car Windshields

By Sahil Malwanker



This Machine is used to apply Urethane based adhesive to Windshields of cars using a Robotic Arm and the adhesive is dispensed at a constant rate . Retrofitting is done successfully from Sigma-2 Servopack to Sigma-7 Servopack

PANEL TESTING

Panel Testing support to Engineering Team Projects



APPLICATION DEVELOPMENT

HV600 for Condenser Fan Application

by Vignesh J & Brijesh P



An Application is developed for one of the premium HVAC OEMs for Condenser fans in Air-cooled HVAC system. One IP55-HV600 VFD controls 7 motors simultaneously to maintain the temperature. A DWEZ program is developed to provide motor protection based on the operation parameters ensuring hassle free process for the system.



COMMISSIONING

U1000 for Pulp Twin-Roll press in open loop operation

by Boopathi S & Manohar R



A pulp twin-roll press application is successfully commissioned at one of the leading paper mills of India with U1000 Matrix VFD in open loop vector control to share the load across both the motors. Machine is operating satisfactorily with smooth operation and load sharing.

COMMISSIONING

Roller Press Application with HHP Series VFD

by Anil Sanap

Two no's of HHP VFD's in Master slave control are commissioned with 1250kW , 690V motors each. It is operated in a load sharing principle for slag roller press at Cement Plant . The machine capacity is 80 Ton Per Hour.



SERVO RETROFITTING

Film Type Capacitor reel winding machine

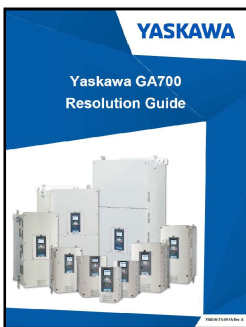
by Govindaraj S & Sahil M

Retrofitting is successfully completed for a film type capacitor reel winding machine on-site. It is used to automate the rolling process in film type capacitors which are used in the electrical and electronics industries. Four number of Sigma V Servopacks are retrofitted with Sigma 7S Servopacks. Trials are successfully taken and operation is satisfactory.



BOOKLET

GA700 Resolution Guide for ASCs



Prepared and distributed Fault resolution guide to all Authorized Service Centres in India for easy troubleshooting of GA700 VFD. The Guide has been prepared keeping in mind the most common issues faced by all the customers for easy resolution.

COMMISSIONING

Commissioning of Kiln and other equipment at cement plant

by Anil S and Raghunath K

YIND supplied VFDs for complete plant operation process at one of the major cement plant in India .



Various applications like KILN with HHP VFD and other key applications like Bag Filter Fan, Separator Vent Bag filter fan, Discharge Belt Feeder, Belt Conveyor, Apron Feeder, SKS Separator, Bag house fan, etc were commissioned with GA700 .



Farewell to Japanese Expat Aftersales and Tech Support

Mr. Seiji Miyazono has been the head of Aftersales & Tech. support department from June 2015 to February 2022. He is transferred to YASKAWA Technology Centre (YTC)-Japan. YIND has celebrated his last working day at Bengaluru office and thank him for his extensive support to the YIND team during his tenure for 6.5 years.



COMMISSIONING

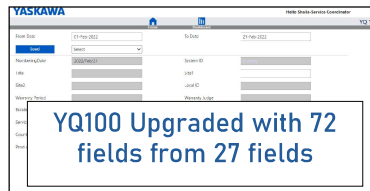
1 Km long cable length with Varispeed G7

by Sriramwarup Mishra

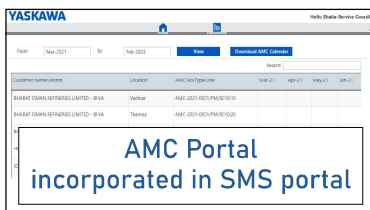


YASKAWA Advanced 3-Level Technology Varispeed G7 is installed and commissioned successfully for pump application with cable length of 1kms without output choke between VFD and the Motor at one of the PSU's. Motor speed varies from 2Hz to 50Hz, motor rated power is 2.2kW.

SMS PORTAL



YQ100 Upgraded with 72 fields from 27 fields



AMC Portal incorporated in SMS portal

ISO AUDIT



ISO Audit is conducted and YASKAWA India Pvt Ltd. Bangalore service center is certified for ISO9001:2015 & ISO45011:2018 compliance

SERVICE CENTER AUDIT

QMS Audit by YEC, Japan Team

QMS Audit is conducted by YEC team online. YIND-DMC Aftersales support has achieved High score of "A" grade with 90.4% score. Dedicated and combined efforts of the team YIND has achieved the result. YIND aims to improve the score in the future.

