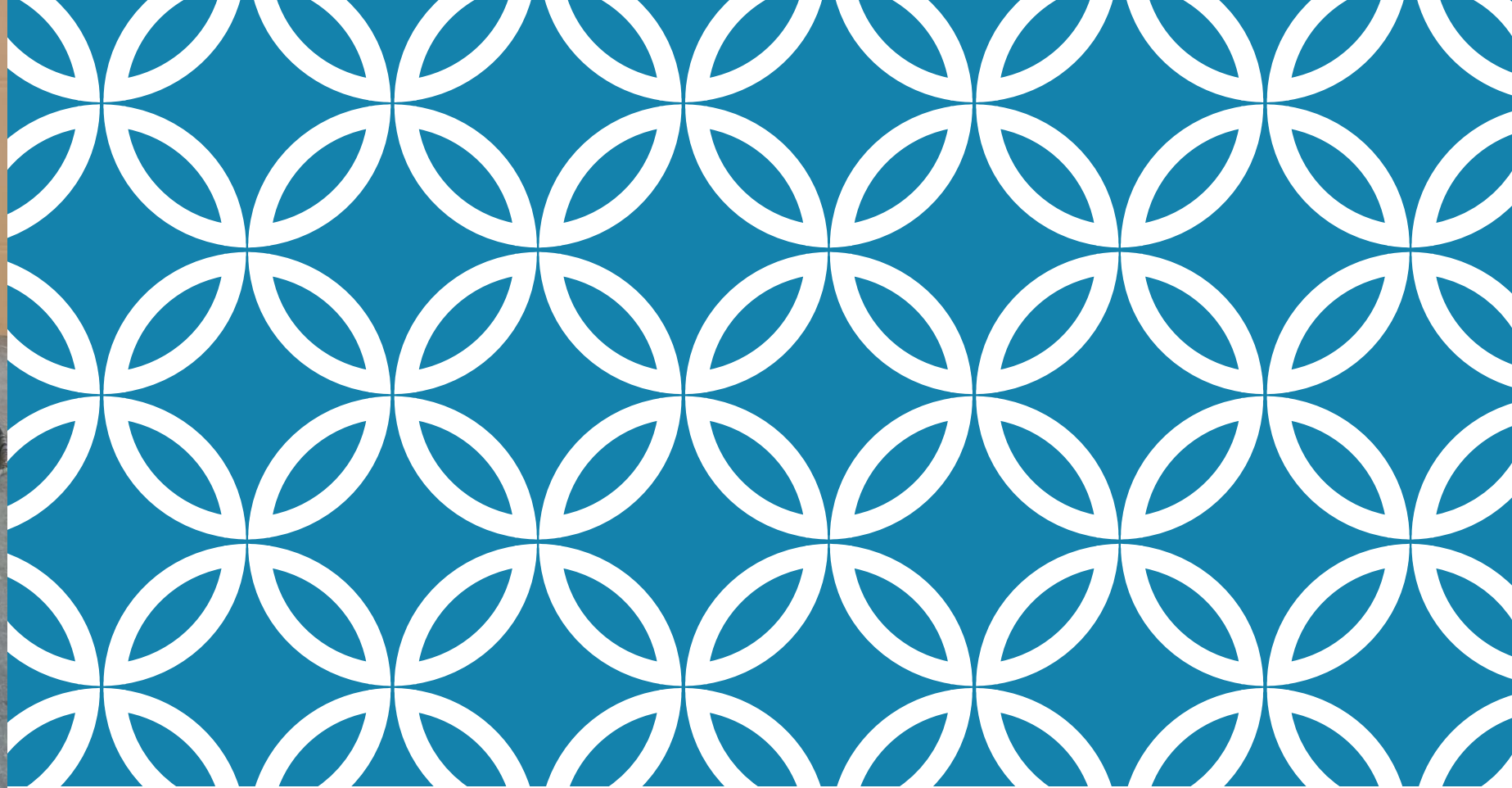




MOTORIZED LEVELLING AUTOMATION

KGK Engineering
Jan 2025



MLA INTRODUCTION

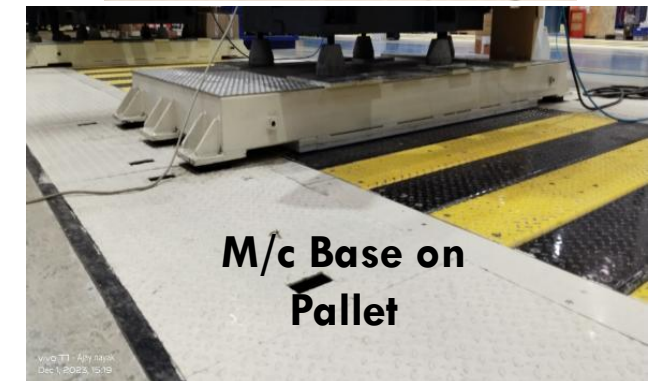
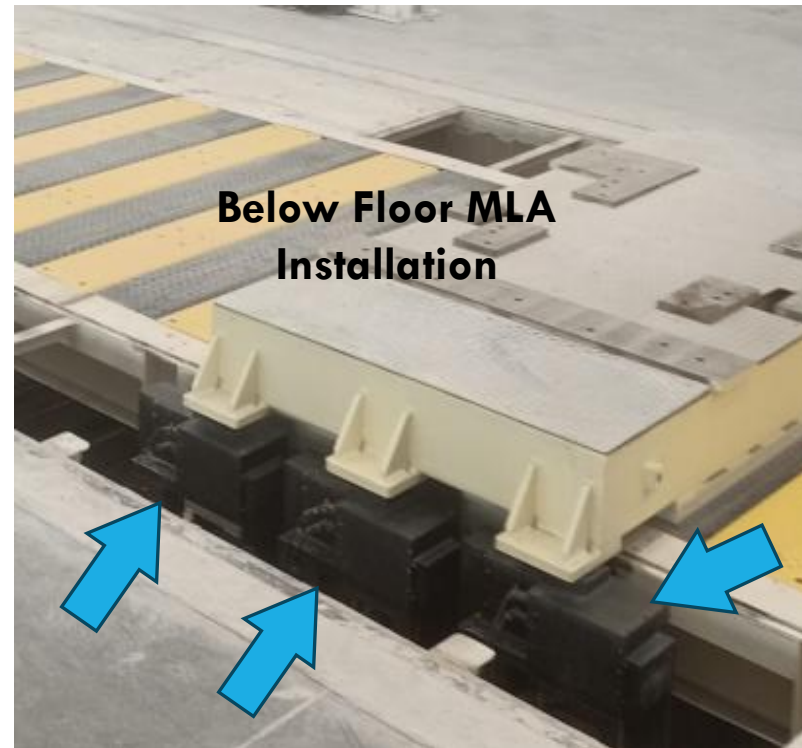
- Motorized Levelling Automation (MLA) is for M/c Builders to save time in levelling of Equipment during Assembly of the Equipment
- Process :
 - Equipment is supported by the MLA Units as per the design requirement.
 - The Equipment is first levelled at three or more designated points using Servo Motor driven Wedge based Levelling Devices. These are actuated by the Technician based on the Spirit Level readings.
 - On completion of levelling, Servo Motor driven Support Jacks are actuated which support the base on the balance locations. These Jacks move up to touch the Equipment without disturbing the levelling achieved initially. (Use of Support Jacks is optional for larger bases)
- Technicians focus on interpreting Spirit Level Readings and deciding actuation sequence rather than physically actuating the levelling devices (screw, wedge ...)
- Levelling Time can be typically completed in few minutes by 1 Technician

MLA SPECIFICATIONS / CONTENT

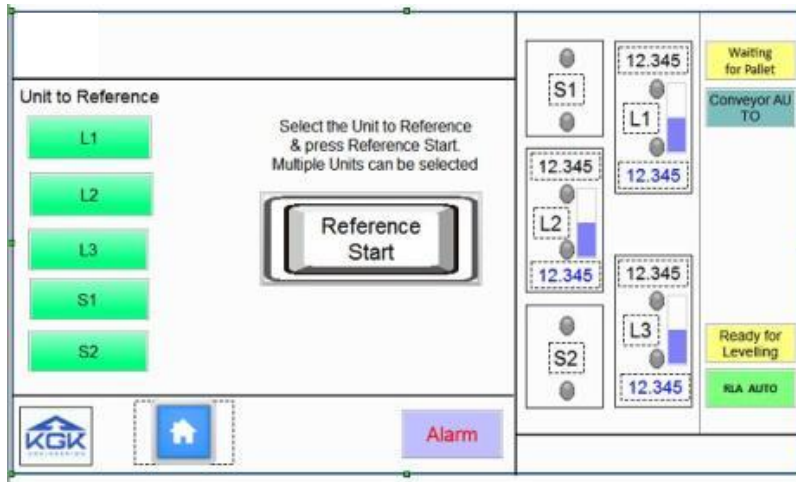
- **Levelling Unit** : Wedge Based leveling Device of 4 Ton Capacity with required stroke limit switches (Typical 3 or 4)
- **Support Jacks** : Servo operated Support Jacks as per requirement (Optional)
- **Drive** : Servo with Gear Reduction – Max Torque 100 Nm – max rpm ~25
- **Cabinet** : Independent cabinet to house PLC, Drives & support HMI Pendant. Motor cable length as per requirement
- **HMI** - Hand Held compact HMI with cable length as per requirement. Wireless HMI also available (option)



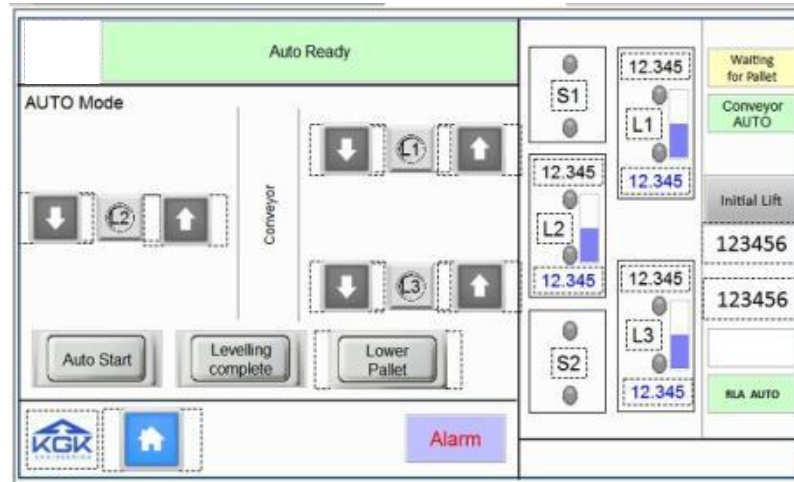
MLA IMPLEMENTATION FOR CONVEYORIZED M/C ASSEMBLY



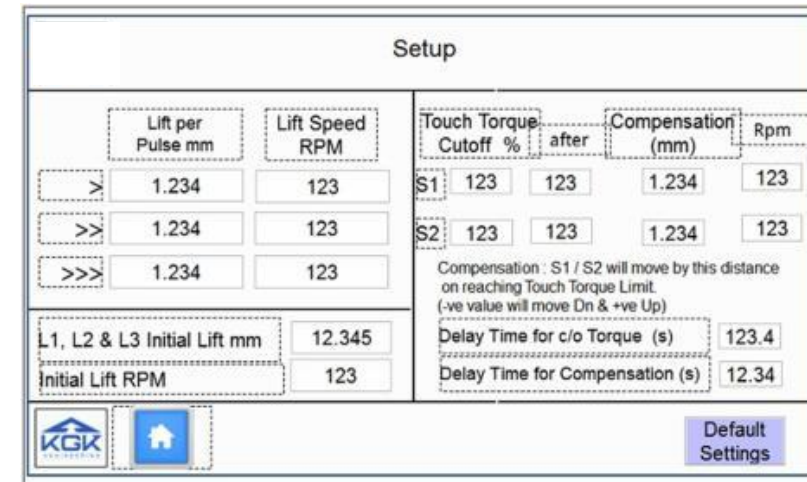
HMI USER INTERFACE SCREENS



**Referencing the Servos
(immediately after Power Up)**



Auto Mode



Setup

Customized based on Customer Requirements

CONTACT US FOR MACHINE LEVELLING SOLUTIONS & MOTORIZED LEVELLING AUTOMATION



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