

AS/RS Life-Cycle Upgrades

Replacing Obsolete Indramat 2AD Motors

Problem: 2AD160B are obsolete

Historically, the product life cycle of Storage/Retrieval Machine (SRM) motors, gearboxes and drive controllers is typically 5-10 years depending on the manufacturer. Obsolescence means that a component is no longer available except perhaps as a spare or replacement (if you are lucky!); repair services may or may not be provided through the OEM. The challenges a user faces with supportability of obsolete components can range from inconvenience and frustration to an extremely high risk of extended, unplanned downtime due to the complete lack of repair/replace options. An example of a potentially serious obsolescence problem that faces some HK AS/RS users is the obsolete Indramat 2AD motors used for 1980/90 HK Excel models of SRM's.

- Indramat has been steadily increasing the price to repair the 2AD motors – 2x+ the price of new technologies.
- The repair turn around time has increase from several days to several weeks.
- The ability to provide repair or replacement services direct from the OEM is tentative with motors sent in for repair being returned with defects.

Solution: Replace the Indramat 2AD160B Motors with newer model Indramat MAD160B motors.

Though not all users who face obsolescence problems can find off-the-shelf replacement solutions that are physically and electrically compatible, Indramat 2AD motor users will be happy that such an option is available.

- The existing Indramat 2AD160B motor can be replaced with the Indramat MAD Motor for both the horizontal and vertical axes. The MAD160B motors are dimensionally identical to the previous 2AD series, therefore, the new motors will “drop in”.
- The MAD160B motor will work with the existing DKR drive controllers; however, the motor replacement requires a different set of motor parameters to be used for the DKR drive, along with a different motor power cable and motor feedback cable. Unfortunately, users who may have RAC drive controllers will need an upgrade of that component as well. The HK customer service provides services for self-installed kits or turn-key replacement to ensure the replacement is accomplished with no surprises!



MAD160B Motor

Indramat MAD motors are the new generation of Indramat asynchronous motors in the 1 to 100 KW power range. With modern development and production processes, a performance increase can be achieved in contrast to previous models. Drive and fan motors offer an IP65 protection rating. The air cooled motors provide significant advantages for service and preventive maintenance due to their integrated modular construction.



HK Planet Problems and Solutions

Links: **More Supporting Information**

- [Indramat MAD160B Motors](#)
- [HK Customer Service](#)
- [HK Spare Parts Services](#)
- [HK Modernization Services](#)