

Services note

Retrofitting SAMI STAR and ACV700 drives - flexible way to transfer to new technology

SAMI STAR and ACV700 drives nearing the end of their working lives can benefit from ABB's retrofit service that comprises engineering expertise and a drives retrofit kit.

ABB engineers assess the current drive installation and recommend the appropriately dimensioned retrofit kit.

The retrofit kit replaces the existing internal components of the drive. By reusing as much of the existing ancillary electrical and mechanical components such as cabinets and cabling, the retrofit kit typically costs less than replacing the complete drive and cabinet.

Retrofit benefits

- Lower capital expenses – reuses ancillary equipment
- Reduced engineering costs – only retrofit kit components need to be selected and dimensioned
- Lower labor costs – less dismantling and installation time needed
- No production losses – retrofit is planned to match the plant's shutdown schedule
- Quick project execution – modernizing one drive section typically takes a day
- Flexible scheduling – large retrofit projects can be carried out in several phases

Content of delivery

The retrofit kit comprises all the key components needed for the efficient operation of the drive, including:

- ABB industrial drive module
- Fuse switch or fuse base
- Drive control unit
- Communication board and power supply
- Common mode filter
- EMC filters
- Door mounted control panel
- New cabinet door for efficient cooling
- Assembly kits, wires and connectors
- Detailed documentation

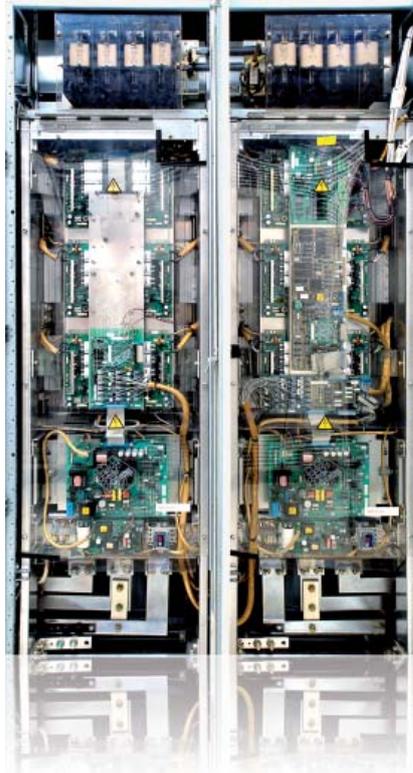
The following may also be included:

- Fieldbus and communications options
- Ethernet connection
- PC software for drive management
- Module lift for handling R8 size ABB industrial drive, ACS800, modules

All installation and commissioning work is carried out by ABB authorized service engineers.

Ensuring effective planning

When starting SAMI STAR or ACV700 drive modernization planning, contact your local ABB office to help ensure the right drive retrofitting and replacement options are evaluated.



The SAMI STAR inverter units before the retrofit (above) and the new ABB industrial drive modules installed into the SAMI STAR cabinets (below).





Module lift for handling R8 size ABB industrial drive, ACS800, modules

ABB recommends the use of its module lift for manoeuvring the modules into position in SAMI STAR and ACV700 retrofit installations. The lift provides safe, easy and rapid handling of air-cooled ACS800-104 (R8i) as well as water-cooled ACS800-104LC (R8i) and ACS800-704LC drive modules.

ABB industrial drives ACS800 are used for retrofitting SAMI STAR and ACV700 drives

Designed for use in industrial applications, the heart of all ABB industrial drives is direct torque control (DTC), the most advanced motor control method providing superior benefits such as accurate speed and dynamic torque control, as well as high starting torque.

The ABB industrial drives feature adaptive programming and a wide range of built-in and external options.



The power range of ABB industrial drive modules is from 0.55 to 2900 kW. The voltage range is from 230 to 690 V.

For more information, please contact your local ABB representative or visit:

www.abb.com/drives

www.abb.com/drivespartners

© Copyright 2012 ABB. All rights reserved. Specifications subject to change without notice.