Kop-Flex® Asset Management Program - AMP
AMP –
The Kop-Flex® Asset Managing Program
puts the tools in your hands to
effectively and efficiently manage
large numbers of couplings.
Practical Problems Faced by Coupling Users

IDENTIFICATION
Plants using a large variety of couplings have their work cut out for them when planning a maintenance shutdown - keeping track of both large and small equipment, not to mention spare parts.

INTERCHANGEABILITY
During many cycles of maintenance, parts and components often get mixed and moved to the point that they can no longer be tracked in anything but a haphazard manner.

AVAILABILITY OF TECHNICAL INFORMATION
Having the correct technical assembly drawings and instructions is crucial when installing new or spare couplings - but keeping the drawings for an entire plant in order is no small task.

SERVICING AND SERVICE HISTORY
Spare parts and couplings that need to be repaired when taken out of service are difficult to organize and keep track of, even at the best of times.

*Kop-Flex® Asset Management Program (AMP)* is the solution.

It accurately identifies the couplings, gives reliable information on what parts/ couplings are interchangeable in the plant, makes the assembly drawings available with a click and gives great clarity on the service history and action to be taken on the removed couplings.
Kop-Flex® Asset Management Program – What is AMP?

AMP by Kop-Flex® is an extremely useful web based tool that helps end users identify the critical couplings in their plants within seconds. The plant technical staff identifies the coupling by its location. For example, the maintenance engineer knows instantly what type of coupling is installed in the Aromatics Plant, between Gas Turbine Tag # KT001 and gear box Tag # KX 002.

AMP arranges the data graphically in exactly the same way (figure at right). The engineer logs on to the Web tool, chooses the plant, then the equipment. AMP’s customized graphics represent the specific configuration of the rotating equipment at the end user’s plants, showing the couplings with their locations. This empowers the end users to identify the right couplings based on the location of the coupling in their own plant, in seconds.
Just click on the coupling and AMP opens all of the coupling related information such as End User stock codes, Serial Numbers of the couplings, OEM part numbers, Kop-Flex part numbers, interchangeability locations, bill of material, assembly drawings and service history throughout the life of the coupling – all on an individualized “Coupling Card”.

The tool helps immensely in planning the shut down activities and availability of spares, and also in tracking the modifications and plant change requests related to the Turbomachinery Couplings.

“Kop-Flex Asset Management Program” sets new standards in the coupling service and supports the coupling throughout its life cycle.
PROBLEM: IDENTIFICATION

End users plan shutdown maintenance activities in advance. During the planning stage, they have to attend to a variety of equipment, spares, inspections, suppliers, logistics and tight time frames. Typically, large equipment gets all the attention and smaller parts tend to get neglected, such as Turbomachinery couplings. Moreover, the couplings are engineered for specific applications, and plants have large variety of such couplings. These are as critical as turbines, compressors or pumps and are always a challenge to identify by make, model, serial number, stock code, manufacturers part number, etc.

AMP Will:

- Identify the coupling fitted in the particular location
- Identify the location based on the part number.
- Allow end users to identify the couplings precisely with virtually no training on the tool.
- Allow them to find the location of the coupling, if the part number is known
- Identify the coupling based on its physical location even if part numbers are not known
- Give a graphical representation of the rotating equipment configuration; can be used to plan for all the couplings on the package
PROBLEM: INTERCHANGE

Further, during the shutdown or emergency activities, end users tend to mix and match the components of different couplings. After a while, it is difficult for them to identify and track the couplings. The available software data (SAP etc.) in the plant is not arranged in a friendly manner, and the result is chaotic.

AMP Will:

- Find the interchangeability within their own plant
- In case of a crisis, AMP will show interchangeability data that can be used to find out if a spare coupling from another plant can be used
PROBLEM: TECHNICAL INFORMATION

At the time of actual removal of the coupling and then installing the spare coupling, end users need the latest revision of assembly drawings and installation instructions. They struggle to get the correct drawings and instructions because of the subtle differences in the designs of similar couplings in the plant.

AMP Will:

• Find the assembly drawing easily
• Find the correct part numbers of the parts of the coupling
PROBLEM: SERVICE HISTORY RECORDS

During the shutdown, many couplings are taken out of service and replaced by spare couplings. Often there is no clarity on what action needs to be taken on the couplings taken out of service, what spares are to be replaced, and how to get the coupling back to its original state. Moreover, to track exact changes and dimensions or balance reports on a particular coupling is a challenge.

AMP Will:

- Attach the service or shutdown reports with photos to the service section to maintain the documentation of what activities are carried out on the couplings.
- In case of service contract or case to case service, AMP can keep the service report in the data base with full details of the inspection reports.
- Know whether the coupling in the stores is already serviced and fit to install
- Decide the spares quantity
- Find the correct part numbers of the parts of the coupling
- Know what quantities of spares are required

HIGH PERFORMANCE FLEXIBLE DISC COUPLING
Optimum weight/CG combination for high speed turbines and compressors

Servicing and service history
How does AMP setup work?

After a “Coupling Survey” is conducted by a Kop-Flex® Representative to collect all required data, Kop-Flex will key in all information to create your plant’s database. The end user is expected to dedicate a knowledgeable person with the Kop-Flex representative to find out the information in the plant. The completed database of information will be made available, via username and password, to your company.

Updates to the database due to ongoing service and maintenance activity can be made by simply writing an e-mail to Kop-Flex, who can then update the data in AMP. The web tool is available to the end users at any time, with database maintenance charged at nominal annual subscription fees. Service history reports, drawings, inventory of spare parts and all other information are always available.

Information and records on all Kop-Flex comprehensive coupling services are also available, such as:

1. Overhauling/refurbishing of used couplings. This restores the coupling back to “Zero Hour” run condition with fresh warrantees.
2. Upgrade the couplings from “Gear to Dry type” or “Shear spacer type” or “Powerlign Torque Monitoring type”.
3. Trouble shooting by failure analysis, and even Snap shot type Transient Torque Monitoring
4. Customer training programs of various levels

Plus, all the history of such activities is stored in AMP, associated with the specific serial number of each coupling.

**Benefits to end users**

- The end user has complete confidence in the information
- Information availability is not a bottleneck now: as the data is arranged in graphical form, both plant- and equipment-wise, in two steps or clicks the user has all the detailed information of a given coupling. One more click and they can also access the drawing.
- Much easier to plan shutdown activities related to the coupling.
- Complete control over the coupling availability and coupling-related activities in maintenance schedules.
Kop-Flex® and Jaure® manufacturing program

COUPLINGS

<table>
<thead>
<tr>
<th>Product Brand Name</th>
<th>MAX-C®</th>
<th>HIGH PERFORMANCE MILL CRITICAL COUPLINGS &amp; STANDARDS</th>
<th>KOP-FLEX® GREASE</th>
<th>SERVICE</th>
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INDUSTRY APPLICATION

Powerlign® Torque Monitoring.  
High Performance Solutions.
Global presence

MANUFACTURING FACILITIES & ENGINEERING CENTERS

JAURE® & KOP-FLEX® engineered couplings are designed, manufactured, sold and serviced worldwide, with service provided from specification right through to installation.

All JAURE & KOP-FLEX facilities around the globe are state of the art, with access to a large and experienced engineering staff focused on providing solutions for our customers’ requirements.

A dedicated global sales and service team assists you to find the best choice and manage all your coupling needs.

JAURE®. Zizurki, Spain.
Pune, India.
Nove Mesto, Slovakia.
Zhangzhou, China.

KOP-FLEX®. Baltimore, USA.
Florence, Kentucky, USA.
Rexdale / Toronto, Canada.
Apodaca, México.
APPLICATION CONSIDERATIONS

The proper selection and application of power transmission products and components, including the related area of product safety, is the responsibility of the customer. Operating and performance requirements and potential associated issues will vary appreciably depending upon the use and application of such products and components. The scope of the technical and application information included in this publication is necessarily limited. Unusual operating environments and conditions, lubrication requirements, loading supports, and other factors can materially affect the application and operating results of the products and components and the customer should carefully review its requirements. Any technical advice or review furnished by Regal Beloit America, Inc. and its affiliates with respect to the use of products and components is given in good faith and without charge, and Regal assumes no obligation or liability for the advice given, or results obtained, all such advice and review being given and accepted at customer’s risk.

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