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# Knowledge Base Article

**Product Group:** IMx
**Product:** IMx-S
**Version:** N/A

## Abstract

This note describes a brief procedure on how to create Orbit and Shaft Center Line (SCL) IMx POINTs in SKF @ptitude Analyst.

## Overview

Typical applications include implementation in monitoring of turbo machinery faults. [Figure 1]

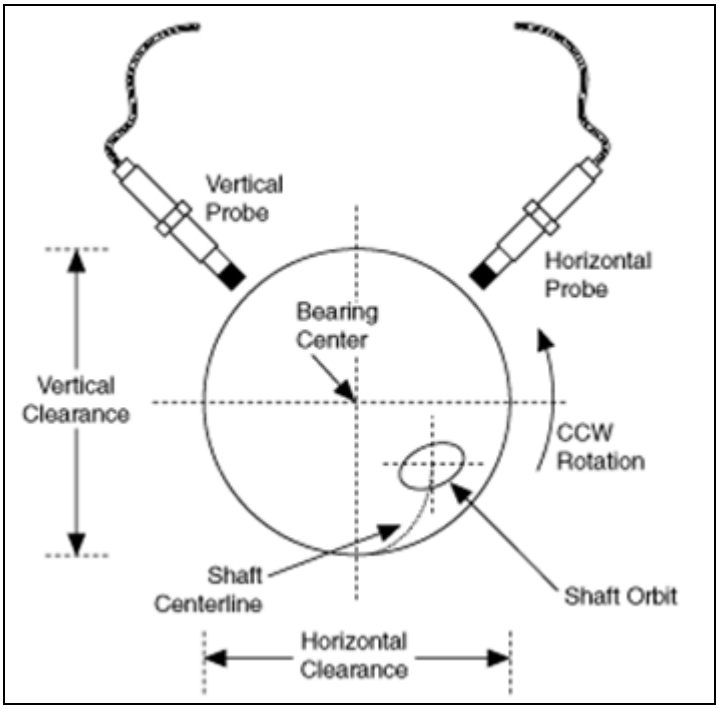


**Figure 1.** Orbit and SCL Scheme

*This procedure was written with the assumption that an IMx has already been created.*

1. Start by inserting a new POINT for an IMx device. [Figure 2] For **Application**, select 'Orbit/SCL' from the drop-down menu.

    ➢ Ensure the corresponding **Sensor type** and **Units** are also chosen.

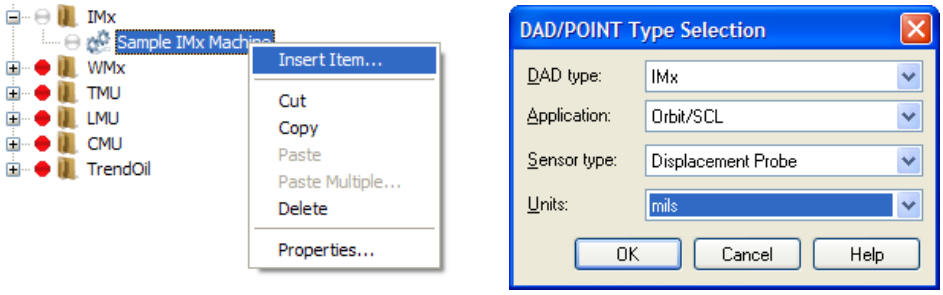


**Figure 2.** Inserting a new POINT

2. In the **General** tab under POINT Properties, input the POINT name and check the *Enable data collection* option. [Figure 3]

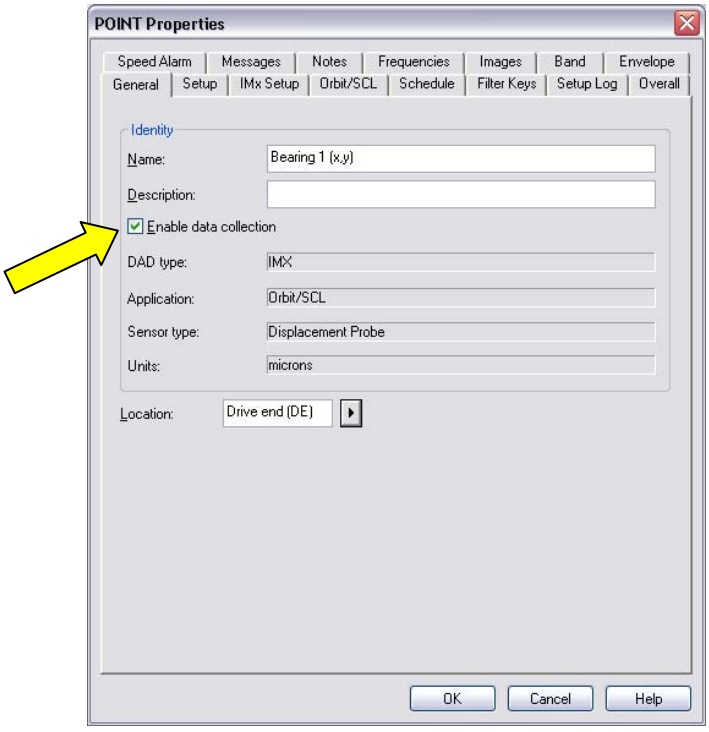


**Figure 3.** General tab

3. Go to the **Setup** tab and select the desired IMx device. Then, select the frequency type and remaining parameters, according to the application.

   - It is customary to select **FFT, time and phase** when there is a given speed reference. If this is not the case, just select **FFT and time** and then set the speed value manually. [Figure 4]

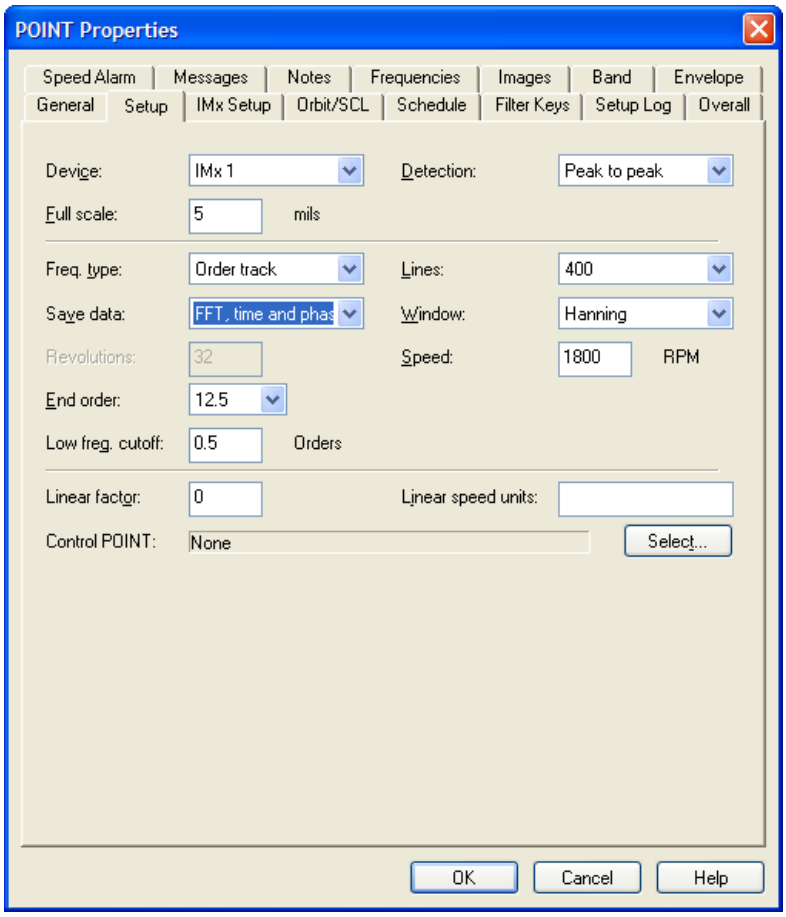


**Figure 4.** Setup tab on SCL Point

4. Next, select the **IMx Setup** tab. Enter any required parameters as needed (such as speed reference, alarm group, active range, etc.).

   - Ensure the correct speed reference is selected, as it is an essential parameter used in SCL points. [Figure 5]

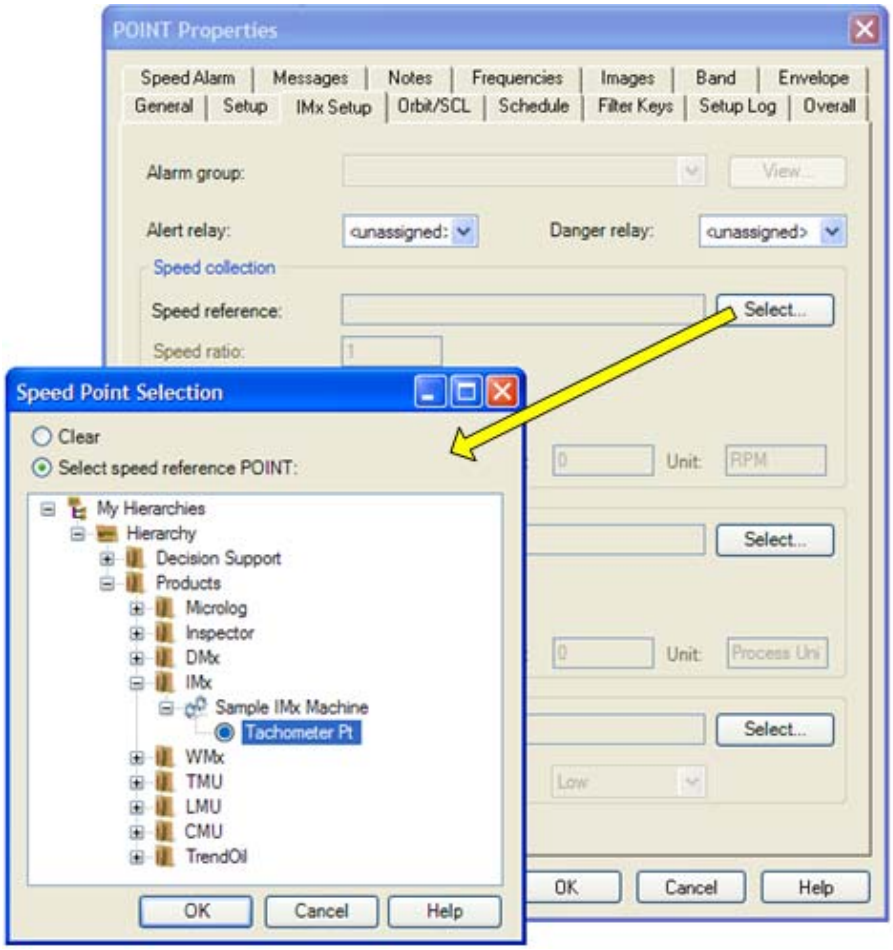


**Figure 5.** IMx Setup tab for SCL Point

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5. In the **Orbit/SCL** tab, select the **X -** and **Y - Channels** and set their corresponding angle, in degrees. Next, input the proper **Shaft rotation**, **Tacho angle**, and **Shaft centerline settings**. [Figure 6]

   - For **Cold gap position**, select:
     - Bottom, for horizontal shafts
     - Center, for vertical shafts
     - Top, for overhung shafts

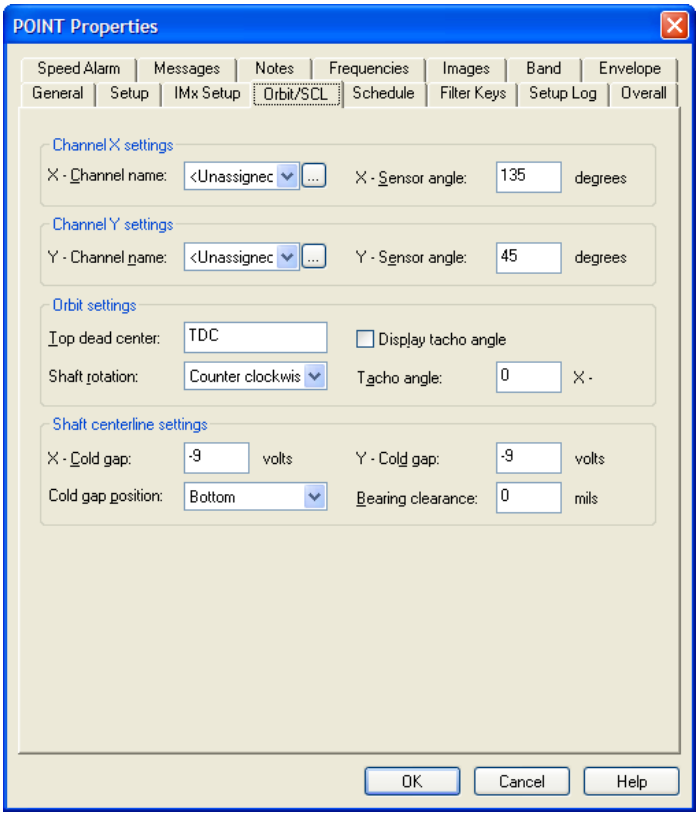


**Figure 6.** Orbit/SCL tab

6. Input any additional settings in the other tabs as necessary, and then press **[OK]** to save. The Orbit/SCL POINT setup is complete.

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For further assistance, please contact the Technical Support Group by phone at 1-800-523-7514 option 8, or by email at TSG-Americas@skf.com.