



**Bjarne Restedt, Technical Manager
Bosch Rexroth**

Hardware Utilization with IoT

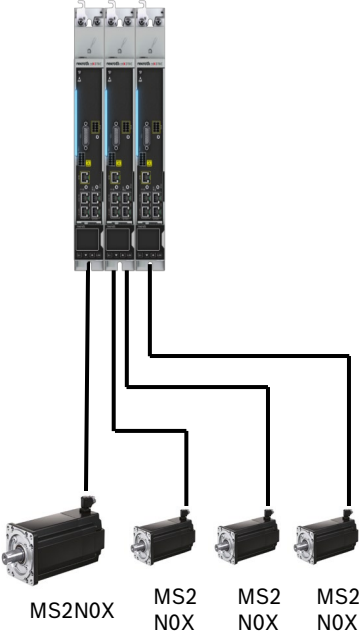
Customer needs

- Improved productivity using **digitalization**
- Possibility to **monitor production** processes and detect defects in real-time with IoT.
- Real-time insights and better decisions with **edge solutions**
- Flexibility to scale their operations up or down as needed with **cloud solutions**

We needed a turnkey IoT-solution suitable for Bosch Rexroth customers

An IoT framework ready to use for our customer and customized in any direction

ctrlX DRIVES



IndraDrive

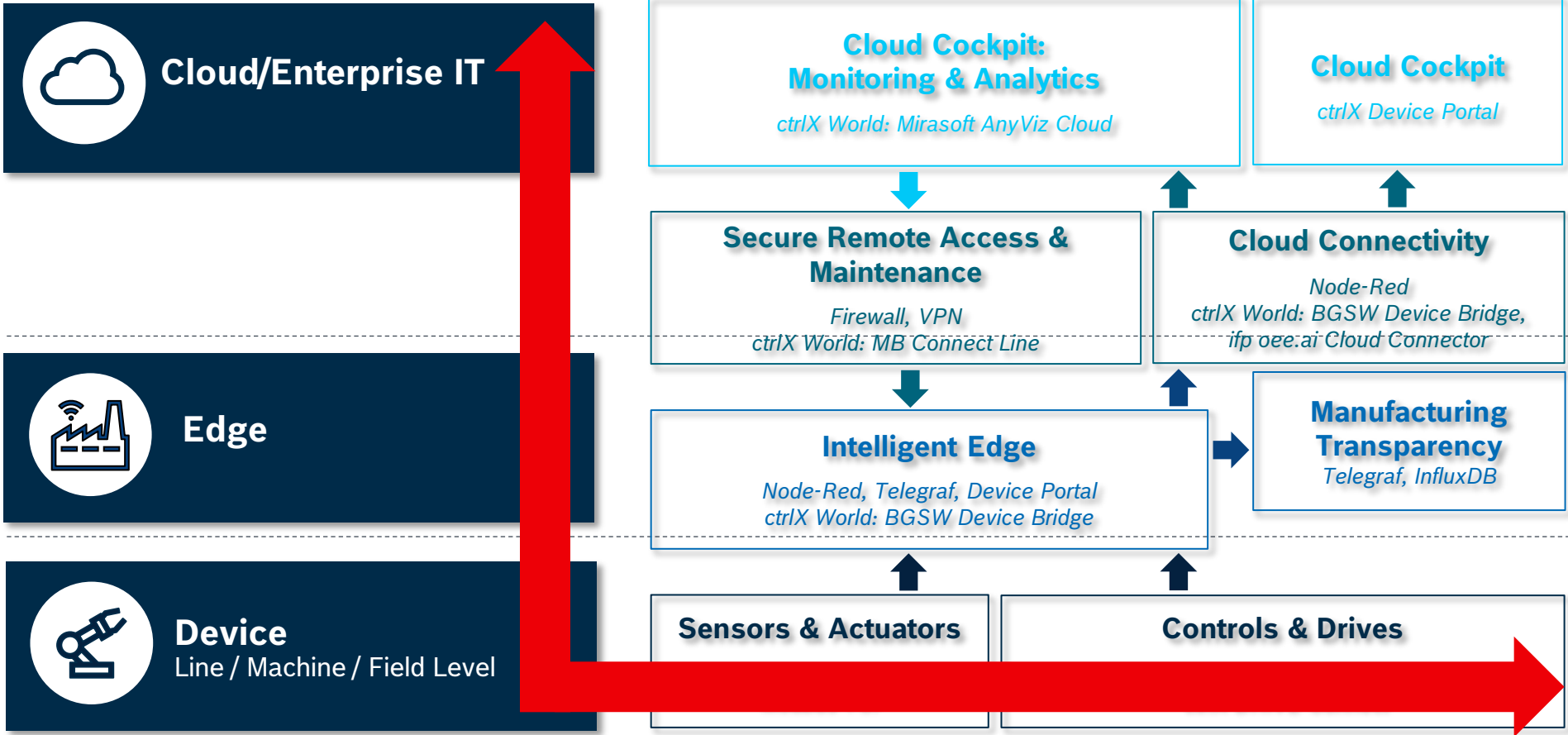


Ecodrive/DIAX04



More than 20 years old system

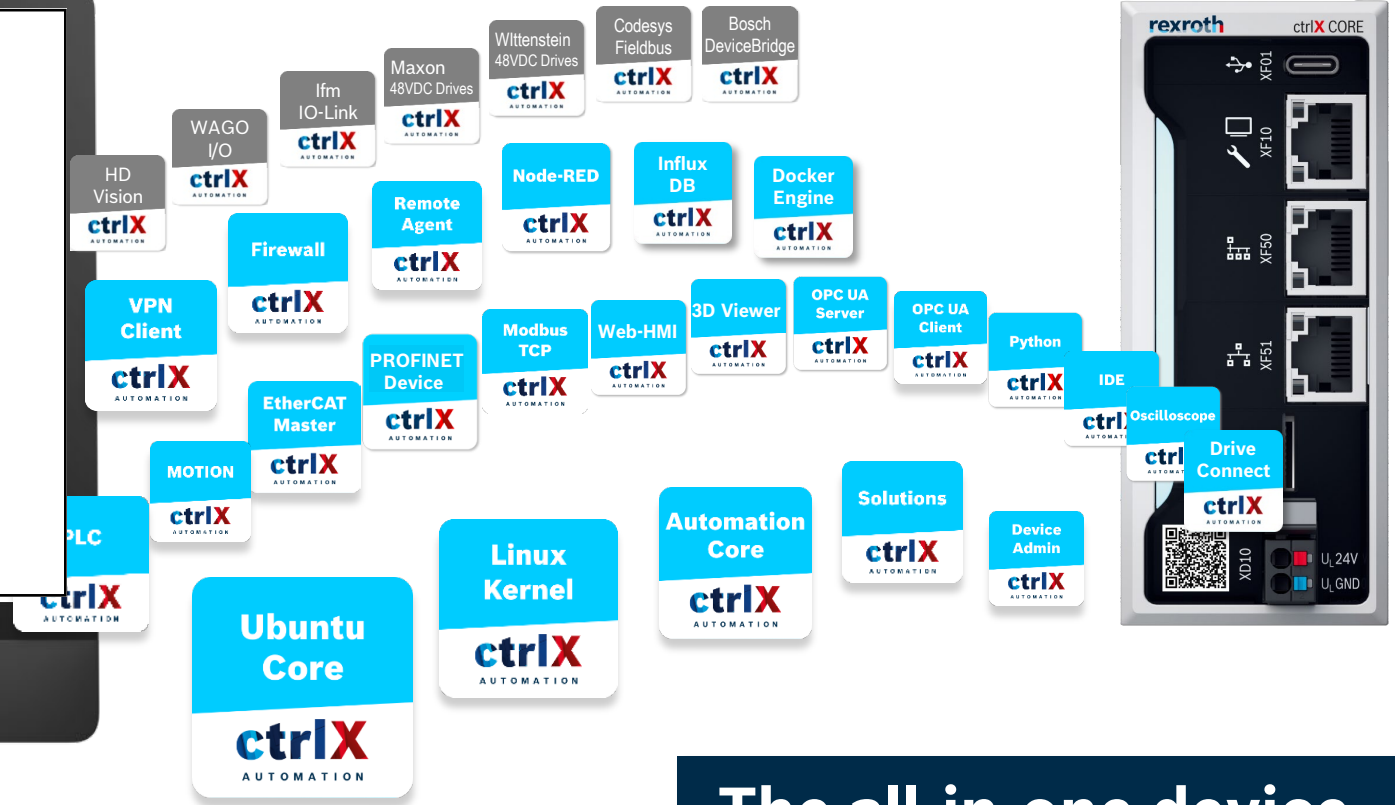
ctrlX IOT- Reference Architecture



The foundation is ctrlX CORE

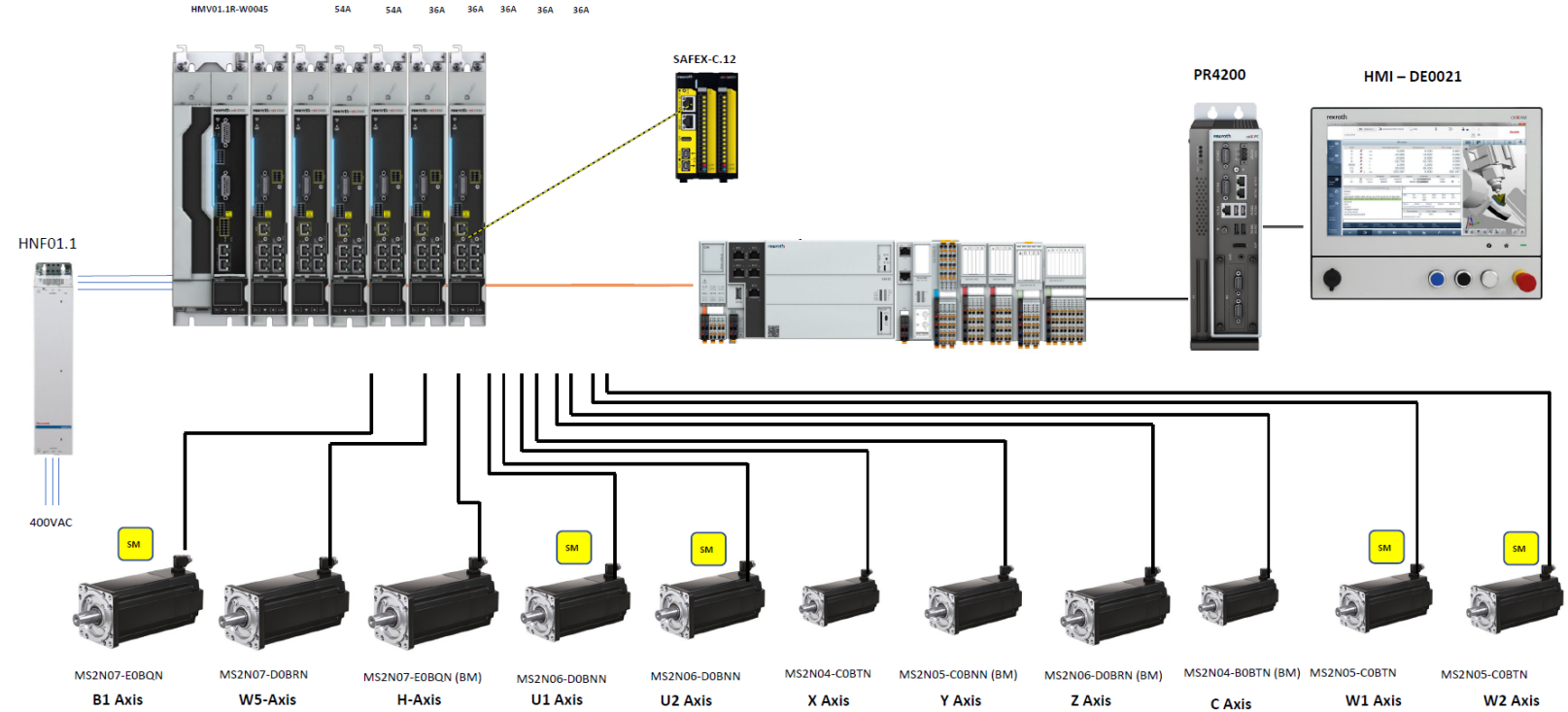


[ctrlX STORE](#)

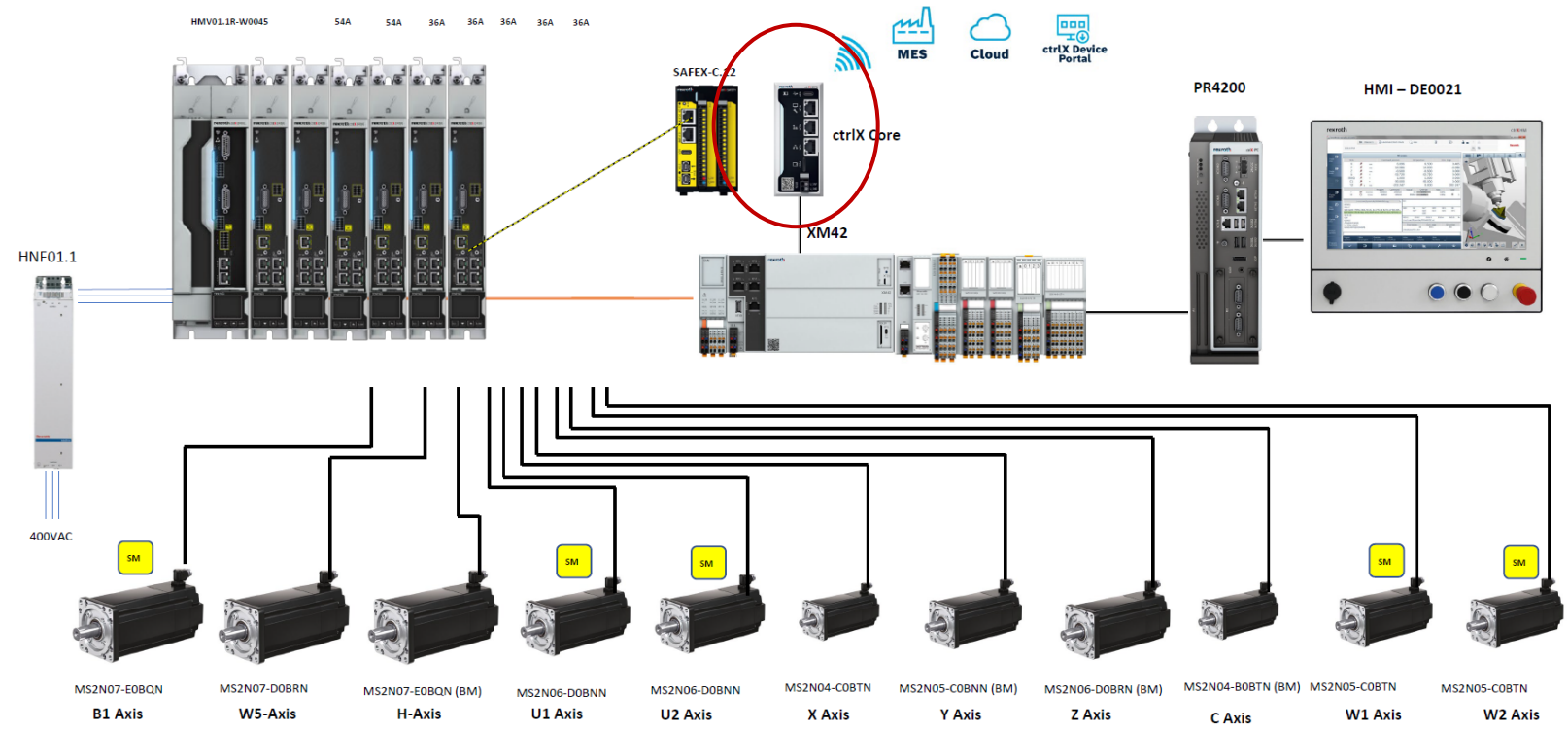


The all-in-one device

The pilot system – IoT Framework for several drive generations



The pilot system – IoT Framework for several drive generations



Herber Engineering - Pilot customer

Machine Overview

Owner
Micke`s Bend o Bock AB
Silkesvägen 5 SE-331 53 Värnamo

HERBER

[Watch the movie about 350RL](#) [Download product sheet](#)

Use the IoT-framework for other applications

This screenshot shows the 'Machine Overview' page for an Aqualon pump. The page features a navigation sidebar on the left with icons for home, refresh, settings, and alerts. The main content area includes the following information:

- Machine Overview** (Page Title)
- Owner:** AQUALON Waterjet Technology, Tenrågen 14 37150 Karlskrona Sweden
- Machine type:** Aqualon, New high pressure pump from Aqualon
- Machine number:** Machine number

The central image is a 3D rendering of the Aqualon pump. Below the image are two buttons: 'Watch the movie about the pump' and 'Download product sheet'.

This screenshot shows the 'Machine Overview' page for a Rexroth TS 4plus transfer system. The page features a navigation sidebar on the left with icons for home, refresh, settings, and alerts. The main content area includes the following information:

- Machine Overview** (Page Title)
- Owner:** Bosch Rexroth AB, Ekvådan 7 254 67 Helsingborg
- Machine type:** TS 4plus, Transfer system TS 4plus
- Machine number:** 842 071 941

The central image is a 3D rendering of the TS 4plus transfer system. Below the image are two buttons: 'Watch the movie about TS 4plus' and 'Download product sheet'.

Herber Engineering - Pilot customer

Machine Overview

Owner
Micke`s Bend o Bock AB
Silkesvägen 5 SE-331 53 Värnamo

Clickable machine svg for downloading documents

HERBER

Watch the movie about 350RL

Download product sheet

Machine Overview

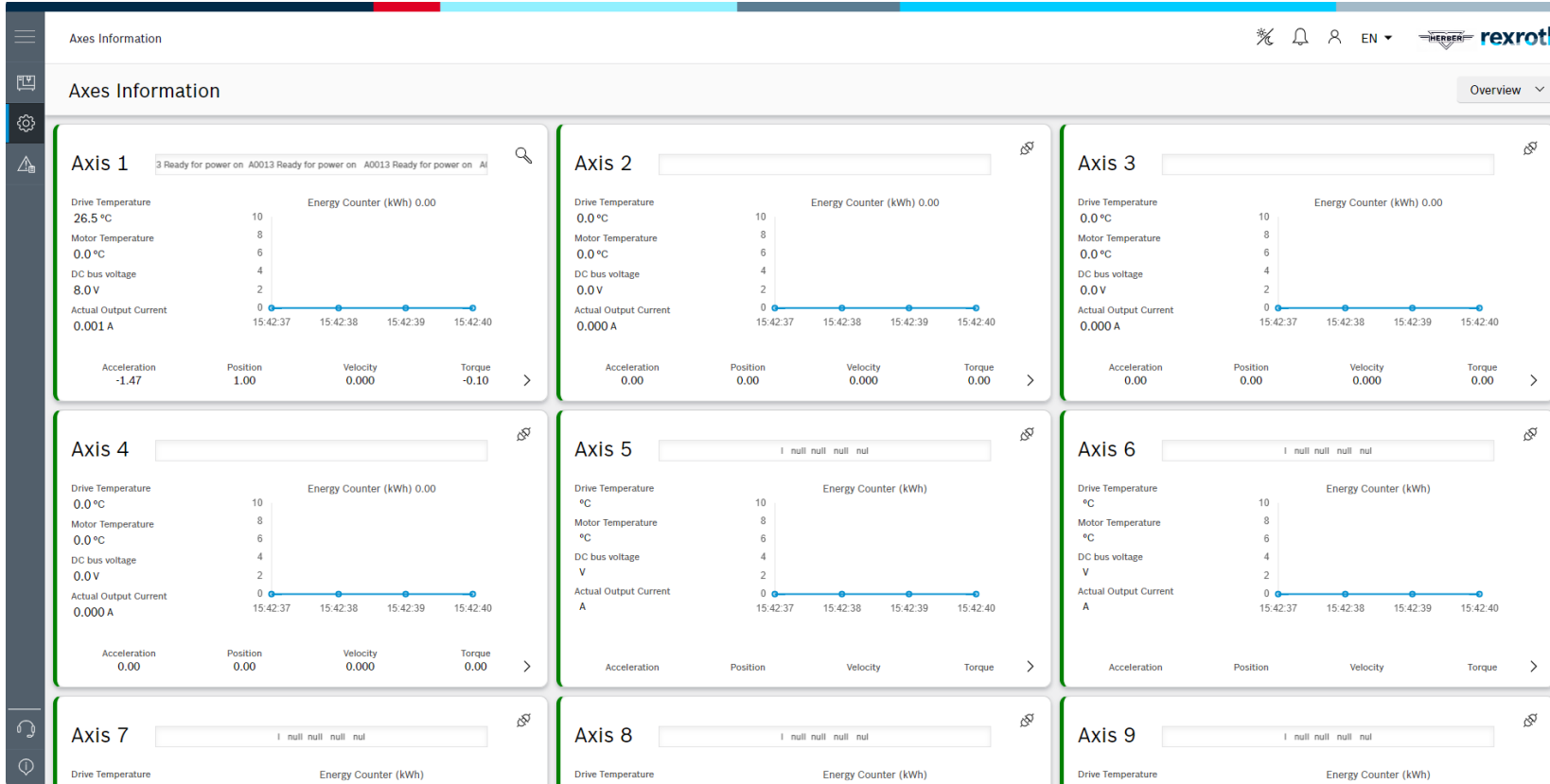
Clickable machine svg for downloading documents

The screenshot shows the 'Machine Overview' page for a Rexroth 350RL machine. The page includes a navigation bar with the title 'Machine Overview', user icons, and the language set to 'EN'. The main content area displays the machine's name '350RL' and its description: 'Right-Left machine for up to 40 mm OD'. The owner is listed as 'Micke's Bend o Bock AB' with the address 'Silkesvägen 5 SE-331 53 Värnamo'. The machine number is 'M230423'. A 3D CAD model of the machine is shown, with a red carriage highlighted. Below the model are two buttons: 'Watch the movie about 350RL' and 'Download product sheet'.

The dialog box titled 'Download Carriage data' is open, showing a 3D model of the red carriage. Below the model, there is a section titled 'Documents' with a list of document types: 'Project part list', 'Part documentations', 'EPLAN data records', and 'CAD Data'. A mouse cursor is hovering over the 'Part documentations' option.

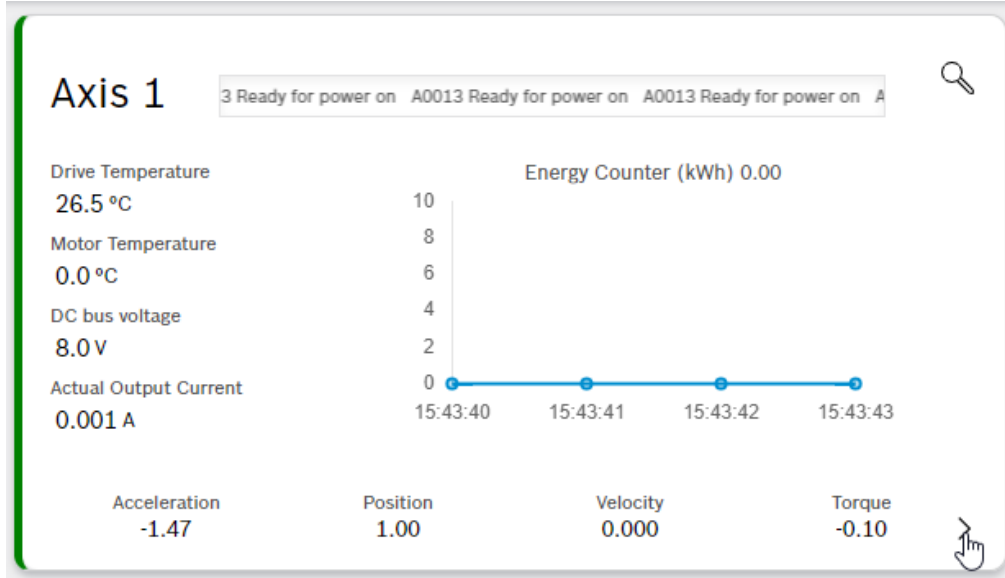
Axes Information

Get a good overview of your machine



Axes Information

Closer look on the card



Device Settings > Power Section
Device Name: HCS01.1E-W0009-A-02-B-ET-EC-NN-NN-NN-FW

Device Settings > Control Section
Device Name: CSB02.1C-ET-EC-NN-NN-NN-FW

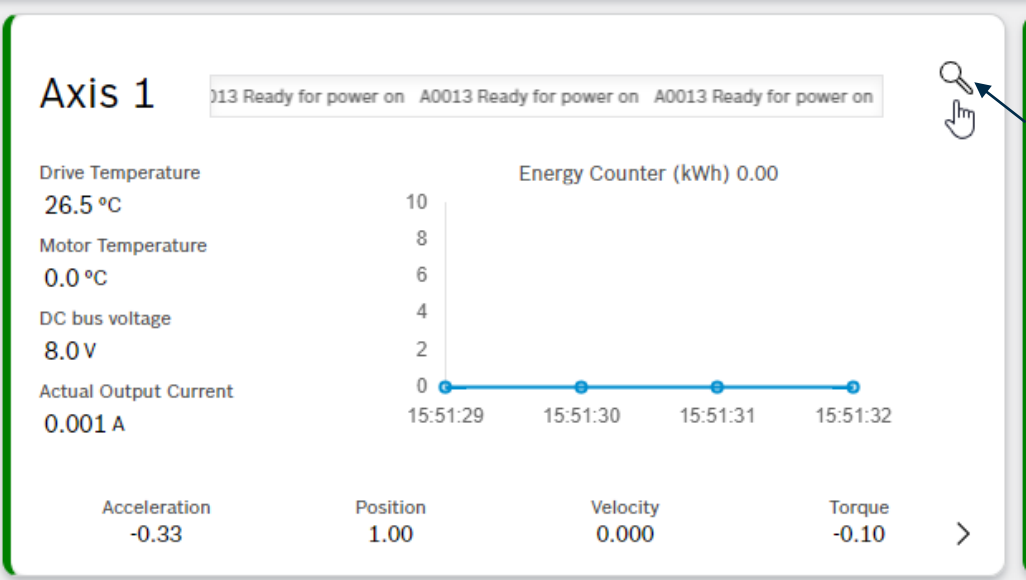
Firmware
Software Version: FWA-INDRV*-MPB-20V28-D5-1-SNC-NN

Axis Settings
Motor Type: MSM020B-0300-NN-M0-CG0

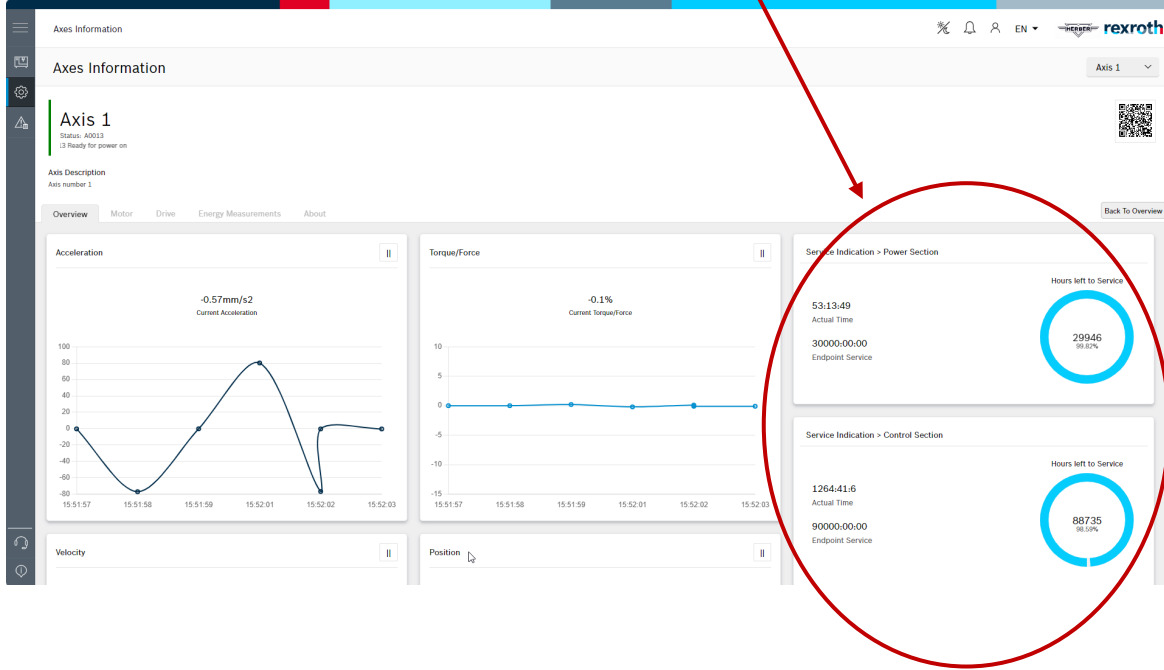
Makes it possible to show more data on a smaller area

Axes Information

Just a click away from more details about your axis



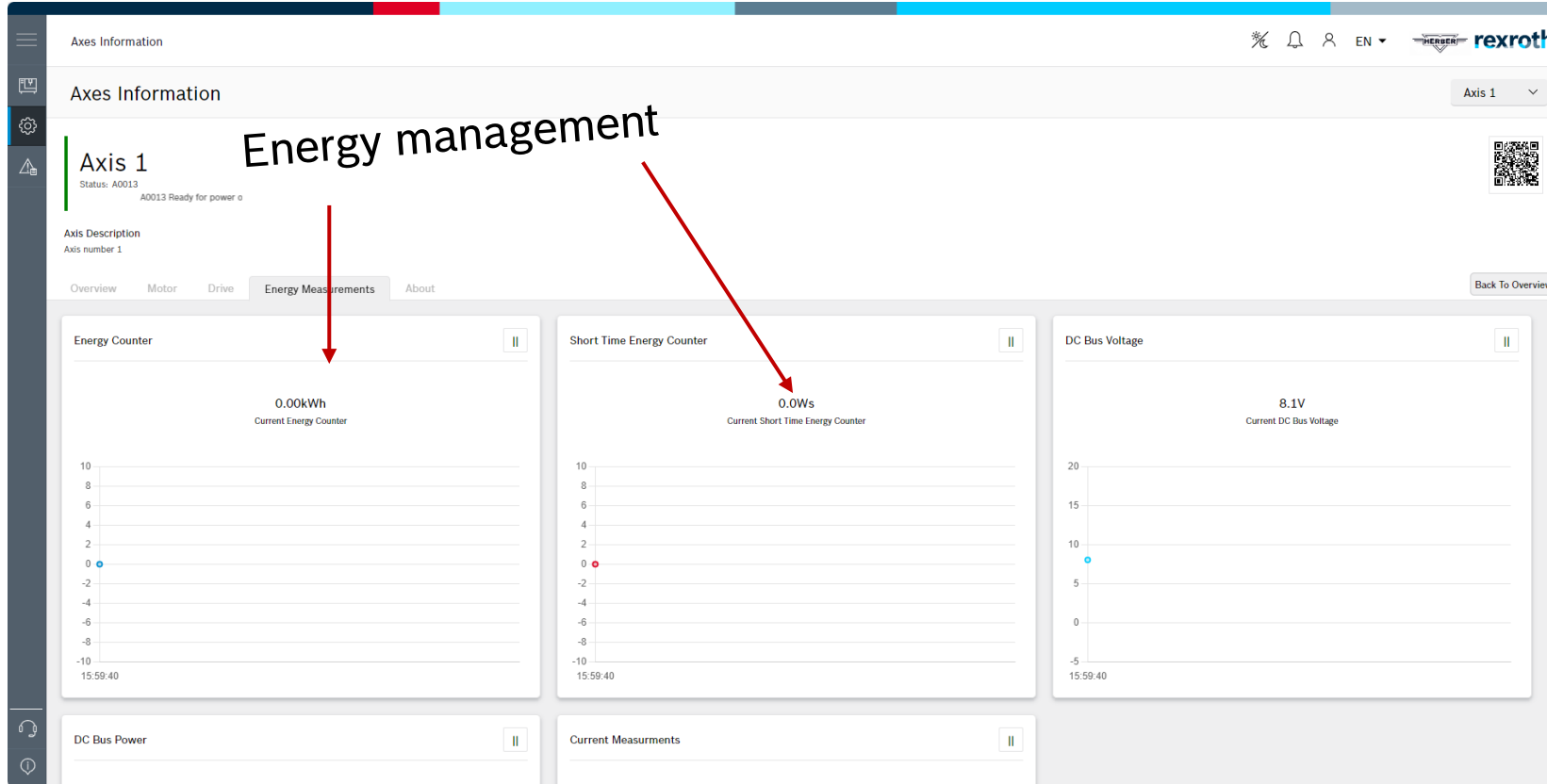
Service indicator



Takes you to Axis Details

Axis Details

More details about your axis via tabs (Energy Measurements)



Diagnostics

Alarm History (IoT Diagnostics)

10 items in table Search All

Level	Date GMT+0200	Message Type	System Unit	Description
	10/19/2023 16:00:35 PM.406	snap.herber- iot.server.service	system	No connection to Axis 8 at 192.168.1.199, retrying in 30 seconds.
	10/19/2023 16:00:35 PM.326	snap.herber- iot.server.service	system	No connection to Axis 6 at 192.168.1.17, retrying in 30 seconds.
	10/19/2023 16:00:35 PM.326	snap.herber- iot.server.service	system	No connection to Axis 7 at 192.168.1.133, retrying in 30 seconds.
	10/19/2023 16:00:35 PM.326	snap.herber- iot.server.service	system	No connection to Axis 5 at 192.168.1.16, retrying in 30 seconds.
	10/19/2023 16:00:33 PM.166	snap.herber- iot.server.service	system	No connection to Axis 4 at 192.168.1.14, retrying in 30 seconds.
	10/19/2023 16:00:32 PM.100	snap.herber- iot.server.service	system	No connection to Axis 2 at 192.168.1.12, retrying in 30 seconds.

Items per page 10

Contact page

Contact page to reach the team at Herber

Contact

Contact us

Reach out to us!


Herber Engineering in Värnamo, Sweden is one of the leaders in tube bending technology and we have extensive experience in delivering high-quality tube bending machines to customers around the world. Herber is established as a reliable supplier for companies in the metal industry that want to increase their productivity and improve the quality of their products.


We also offer advice and service regarding tube bending machines and can help put together solutions that meet different needs. Herber has strong experience in working with different materials and pipe sizes, which allows us to offer a personalized solution to each customer.


If you are interested in investing in a tube bending machine or if you have questions about your existing machines, please do not hesitate to contact us:


[Send](#)

Other ways to connect!

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Follow us on linkedin today!

Contact our employees

Not sure where to start? Need help adding that extra to your machine?
Get in touch with us:

 <p>Åke Danielsson Purchasing / Production + 46 (0)370 69 95 64 ake.danielsson@herber.se</p>	 <p>Fredrik Pettersson Sales + 46 (0)370 69 95 75 fredrik.pettersson@herber.se</p>
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LIVE SHOWCASE



THANK YOU!

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