

Drive Maintenance and Management Services

CDM® is a suite of custom-tailored tools designed to provide a comprehensive drive management solution

SERVICE



Complete service system for drive equipment

CDM® Maintenance Management by SEW-EURODRIVE will help reduce downtime and increase the reliability of your drive systems.

Just imagine that from now on you're up to date with every detail of your system/equipment with easy online access.


With CDM® Maintenance Management from SEW-EURODRIVE you have a complete overview of your entire stock, condition of your units, drive usage, and component service details.

You're able to plan and initiate maintenance intervals with only a few mouse clicks. You also receive notifications regarding the condition of critical equipment and components. No need to climb into cramped spaces to read a nameplate. The name, location, and unit details of all your drive components are logged for reference.

You can reduce expensive stock because you're able to schedule and order replacement components just-in-time. Scheduled deliveries are easy to review using the online ordering system.

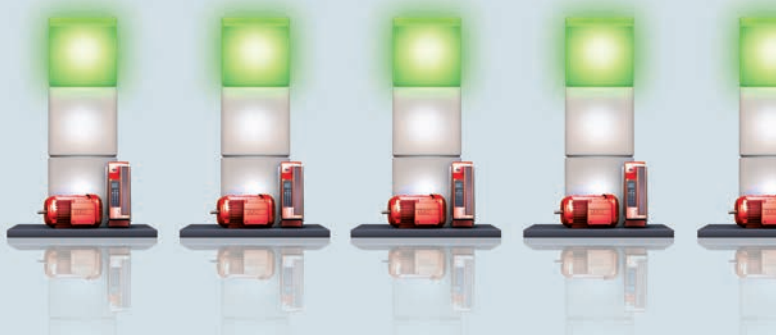
Managing your drive maintenance, components, and parts stock with the help of the new online CDM® data service is fast, easy, and cost-saving.



 **CDM® Maintenance Management**
is a component-based maintenance
system from SEW-EURODRIVE.
→ Green light for your production.



Green light for your production



CDM® Maintenance Management

Features:

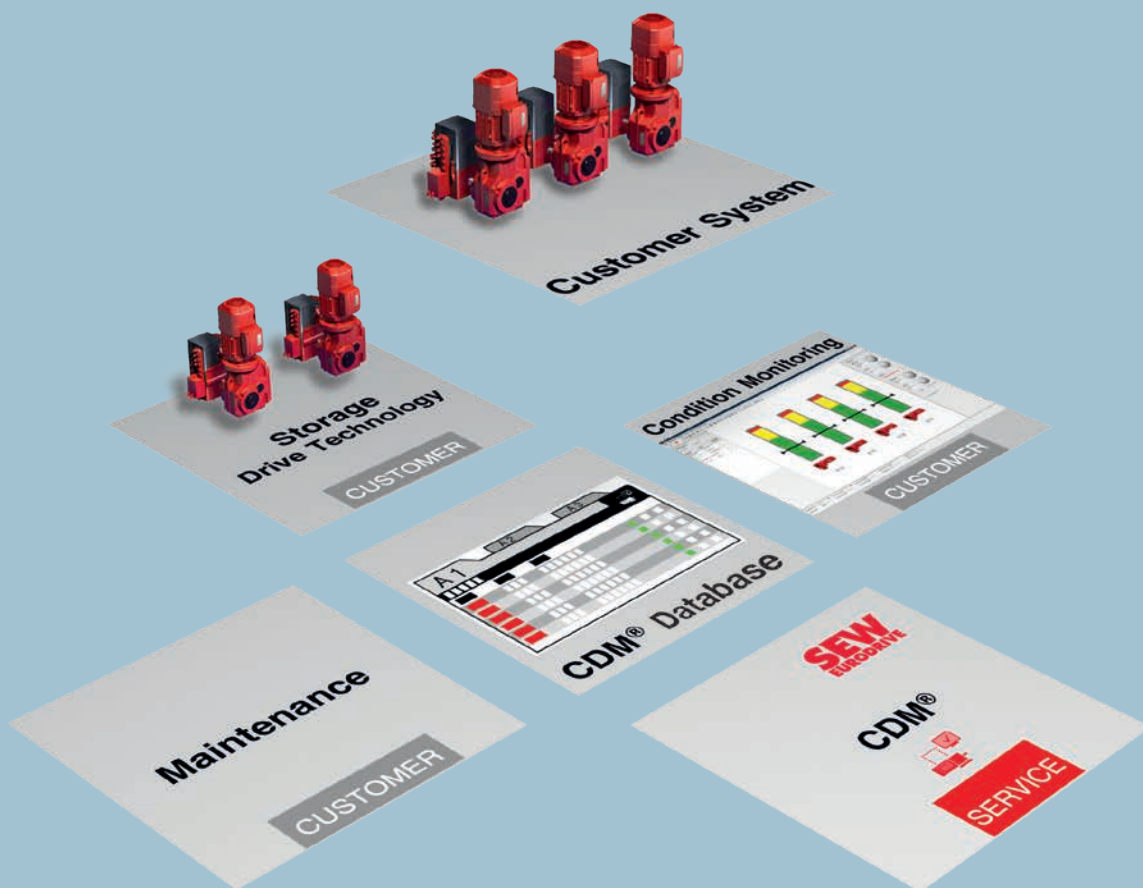
- Recording of gearmotors and variable frequency drives (VFD) with condition classification
 - Individual visual inspection
 - Instruction for required maintenance/service measures
- Gearmotor and VFD data can be accessed at www.seweurodrive.com/onlinesupport
- Gearmotors and VFDs are clearly labeled for fast identification
- CDM® provides data on maintenance, energy saving, and condition monitoring for each unit
- Scheduled maintenance and service



Your advantages:

- Management and reporting of all gearmotors and VFDs (according to type, quantity, condition, availability)
- Innovative and easy to use CDM® online portal for recording, updating, researching, and analyzing usage and maintenance data
- Maintenance activities can be optimized with the help of CDM® maintenance planning and history display
- Reduced stock levels can help reduce storage costs. Redundant components can be identified by means of a stock-management view and spare parts availability can be checked in advance

Knowledge plus communication – CDM® Maintenance Management



CDM® Maintenance Management includes the complete recording and data maintenance of drive technology that is installed and in stock in your facility. This drive data is used to determine service schedules as well as stock levels. Maintenance and repair data help you define

service and replacement scheduling for each individual component. Transferring data directly from the CDM® online portal to SEW-EURODRIVE can also help identify maintenance and service issues, further minimizing costly downtime.

Online condition monitoring activities, like vibration and oil-aging diagnostics, can be linked with the database. Offline checks can also be performed.



Drive recording

- Central recording of all data from installed drives and those in storage
- Ability to add condition classification
- Recommendation for necessary service measures



CDM®-databank

- Data collection
- Data maintenance
- Documentation
- History
- Maintenance cycles/scheduling



Maintenance Management

- Spare stock optimization
- Inspection planning
- Maintenance planning
- Energy consultation
- Condition monitoring



System service

- Visual inspections/maintenance
- Replacement of stock/outdated components
- Repairs
- Spare parts



Retrofit Service

- Energy-saving measures
- Overhauls
- Replacements
- New installations
- Optimizations



The recording of drive technology includes a complete record of all drive data and condition – also for non-SEW industrial gear products.

If required, CDM® will suggest an alternative SEW-EURODRIVE replacement that is compatible in performance and mounting position – with just one mouse-click.

The CDM® online portal for complete drive data

- Factory level**
 - user-specific authorization is determined by customer

- System/equipment level**
 - system breakdown according to customer requirements

- Component level**
 - VFD allocation
 - individual drives
 - double gears
 - frequency inverters

- Information level for all components**
 - technical data
 - service information
 - condition information
 - logistical information
 - service information
 - attachments/documentation

- Component condition information**
 - as noted during CDM® recording

The screenshot displays the DRIVE GATE web interface. At the top, there is a navigation menu with options like 'Start', 'Orders', 'Support', 'Training', 'CDM', 'Personal Settings', and 'Terms of use'. Below the navigation, there are buttons for 'Print view', 'Edit Data', and 'Display'. The main content area is divided into three sections: 'Factory', 'System/Equipment', and 'Component'.

Factory Section:

Factory name	Customer	Factory Address
<input type="checkbox"/> Sample Factory 1	<input type="checkbox"/> Sample customer 76646 Bruchsal	<input type="checkbox"/> Sample customer 76646 Bruchsal

System/Equipment Section:

System/Equipment Number	System/Equipment Name	Building	Type
<input type="checkbox"/> Packaging	Sealing	Hall 5B	
<input type="checkbox"/> Production line 1	Plastic processing	Hall 5A	Press
<input type="checkbox"/> Production line 2	Plastic processing	Hall 5A	Press
<input type="checkbox"/> Shipping	Pallet transport sector	Hall 5B	

Component Section:

Type	Component Number	Customer component number	Functional Location	Product Name
<input type="checkbox"/>	98SEW00000001	1F1	HSA-S1-FU1	MDX61B0075-5A3-4-0T
<input type="checkbox"/>	98SEW00000002	1F2	HSA-S1-FU2	MDX61B0150-503-4-00
<input type="checkbox"/>	98SEW00000003	1M1	HSA-S1-M1	KA37/T DT71D4/BMG/HF
<input type="checkbox"/>	98SEW00000004	1M2	HSA-S1-M2	KA87/T DV160L4/TF
<input type="checkbox"/>	98SEW00000005	1M3	HSA-S1-M3	K87 DV132ML4/BM/TF/C
<input type="checkbox"/>	98SEW00000006	1M4	HSA-S1-M4	R97/M2GD DV132M4/I3D
<input type="checkbox"/>	98SEW00000007	1M5	HSA-S1-M5	K37 DT80N2/TH/V/S
<input type="checkbox"/>	98SEW00000008	1M6	HSA-S1-M6	DV132M2
<input type="checkbox"/>	98SEW00000009	1M7	HSA-S1-M7	R37 DT90S4/BMG/TF/ES
<input type="checkbox"/>	98SEW00000010	1M8	HSA-S1-M8	KH77 DV112M4/BMG/HF

Technical Data Section:

Technical Data	Usage Information	Condition Information	Logistic Information	Service	Attachments / Documentation
<input checked="" type="checkbox"/> Customised construction identification				0	
Product Name				KA37/T DT71D4/BMG/HF/TF/AV1H/A SB1	
Manufacturing Number (current)				01.1118111001.001.05	
Output shaft gear 1				30	
Output shaft motor				10	
Motor Flange				120LIA	
Motor Type				DF771D4/BMG/HF/TF/AV1H/ASB1	
Power [KW]				0.37 kW	
Power [KW] (2)				0.37 kW	
Operating Mode				S1	
Gear torque A				39.00 Nm	
Gear torque B				32.00 Nm	
Mounting Position (ordered)				M2A	
Input Speed A				1.380.00r/min	
Input Speed B				1.680.00r/min	
Output speed A				90.00r/min	
Output speed B				110.00r/min	

Simple planning, optimization and documentation

The online CDM® Maintenance Management database is hosted by SEW-EURODRIVE. You specify user-specific access for data, photos, operating instructions and documentation through a standard Internet browser. No custom software or servers are needed at your location.

The screenshot displays the SEW-EURODRIVE CDM Maintenance Management database interface. The interface includes a search bar, a table of search results, and a detailed view of a specific system/equipment entry. Red callouts point to various features:

- Responsible contact person**: at customer and at SEW
- Status – system level**: direct view of maintenance status and condition
- Status – component level**: direct view of maintenance status and condition
- Priority display 0-4**: determines response conditions
- Search function**: with comprehensive search functionality

The interface also shows a table of search results and a detailed view of a specific system/equipment entry.

SEW Contact Person	Customer Number	Logo	Order Number	Options
Herbert Michael +49 7251 75 3710	57777		96_00010_Sample Factory_Sample Town_2008	

System/Equipment	Manufacturer	Customer Contact Pers	Creation Date	Symbol	State	Options
Sample customer 76646 Bruchsal	SEW-EURODRIVE	Drivegate Sample +49 7251 75 3717	04-02-2008			
Sample customer 76646 Bruchsal	SEW-EURODRIVE	Drivegate Sample +49 7251 75 3717	04-02-2008			
Sample customer 76646 Bruchsal	SEW-EURODRIVE	Drivegate Sample +49 7251 75 3717	04-02-2008			
Sample customer 76646 Bruchsal	SEW-EURODRIVE	Drivegate Sample +49 7251 75 3717	04-02-2008			

Manufacturer	Priority	CDM	State	Options
SEW-EURODRIVE	0			
SEW-EURODRIVE	0			
SEW-EURODRIVE	1			
SEW-EURODRIVE	2			
SEW-EURODRIVE	1			
SEW-EURODRIVE	1			
SEW-EURODRIVE	0			
SEW-EURODRIVE	2			
SEW-EURODRIVE	1			
SEW-EURODRIVE	1			

Number of poles	4
Total Gear Transformation	15.31
Voltage	230/400 V
Motor wiring (Switching type) A	Delta/Star
Terminal Box Position	270°/normal
Permitted surrounding temperature	-20 BIS +40
ISO-class	ISO-Thermal Classification F
Enclosure	54
Brake Voltage	400
Braking Torque	2.50 Nm
Brake rectifier	BG1.5
Oil Producer A	-
Viscosity A	CLP 220
Oil Quantity A (liter)	1.00 l
Options	
Type of motor	• AC
Type of complete drive	Gear motor

Display	Search Results	New Search
Start Search		
Search definition		
Factory	Sample Factory 1	
System/Equipment	Production line 1 - Plastic processing	
Type	Electro-mechanic	
Component Number	96SEW00001000	
Customer component number		
Product Name		
Priority	1 - 12-24h (n. agreed upon)	
Standard Product	Yes	
Customised construction identification		
Usage	B - Store	
State	--Selection--	
Power [KW]	1.5 to 2.2	
Total Gear Transformation		
Output speed A	10 to 15	

The CDM® online portal Example service information

Type of action

- inspection
- maintenance
- sensor information

Planning

- inspection & maintenance detail

History

- condition monitoring notifications
- past service activities

Attachments



- drive photos
- drive related documentation

DRIVEGATE
Welcome Presentation (DE) Validation

Start | Orders | Support | Training | **CDM** | Personal Settings | Terms of use

Complete Drive Management®

Print view
Edit Data
Display

Factory

Factory name	Customer	Factory Address
<input type="checkbox"/> Sample Factory 1	<input type="checkbox"/> Sample customer 76646 Bruchsal	<input type="checkbox"/> Sample customer 76646 Bruchsal

System/Equipment

System/Equipment Number	System/Equipment Name	Building	Type
<input type="checkbox"/> Production line 1	Plastic processing	Hall 5A	Press

Component

Type	Component Number	Customer component number	Functional Location
<input checked="" type="checkbox"/>	98SEW00001000		H5A-S1-M2

Technical Data
Usage Information
Condition Information
Logistic Information
Service
Attachments / Documentation

Service Type	Service Name	Source
Inspection	on-site inspection	98SEW00001000
CM-Incident	Brake worn out	98SEW00001000
CM-Incident	Max. age of the oil	98SEW00001000
CM-Incident	Bearing damaged	98SEW00001000
CM-Warning	Bearing damaged	98SEW00001000
CM-Warning	Maintenance in cause of old Oil	98SEW00001000
CM-Incident	Brake worn out	98SEW00001000

Details

Service form - total • Check alignment
• Check assembly (screwing)

Service form - electronics

CM-Incident	Bearing damaged	98SEW00001000
CM-Warning	Bearing damaged	98SEW00001000

The CDM® database has a user-friendly operating interface that delivers comprehensive and detailed data, down to the individual components and their service history. A planning tool makes suggestions for future service activities to help reduce downtime.

The screenshot displays the SEW EURODRIVE CDM database interface. At the top right, there is a 'Log Off' button and the SEW EURODRIVE logo. Below this, there are search filters for 'Search Results' and 'New Search'. The main content area is divided into several sections:

- Customer Information:** A table with columns for 'SEW Service (01805 - 7394357)', 'Customer Number' (57777), 'Logo', 'Order Number' (98_00010_Sample Factory_Sample Town_2008), and 'Options'. Below this, contact details for 'Herbert Michael' (+49 7251 75 3710) are shown.
- System/Equipment Manufacturer:** A table with columns for 'System/Equipment Manufacturer', 'Customer Contact Pers', 'Creation Date', 'Symbol', 'State', and 'Options'. It lists 'Sample customer' (76646 Bruchsal) and 'Drivegate Sample' (+49 7251 75 3717) with a creation date of 04-02-2008.
- Product Information:** A table with columns for 'Product Name', 'Manufacturer', 'Priority', 'CDM', 'State', and 'Options'. It shows 'KA157 R97 LR100/W DT100L6' by 'SEW-EURODRIVE' with a priority of 2 and a green CDM flag.
- Service History Table:** A table with columns for 'Starting Time', 'Ending date', 'Operating hours / facts', 'State', 'Service Provider', and 'Options'. It lists several service events, including planned and closed services by SEW-Eurodrive.
- Service Form:** A section for 'Service form - motor' and 'Service form - gears' with a list of tasks such as 'Acoustical bearing control', 'Clean air grilles and fins', 'Inspection', 'Check bearings (acoustically)', 'Check leak tightness of shaft seals and ventils', 'Clean outside', and 'Inspection'.

SEW 24h Service Hotline

Current status
 – selected drive components

CDM® status
 – all drive components recorded within CDM® receive a green flag

Status change
 – individual and/or activity-specific notifications are sent to your production manager

Multiple selection
 – planned service and activity history

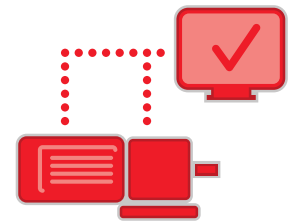
The 'Your Message' form is used for sending notifications. It includes the following fields and options:

- Type of message:** A dropdown menu set to 'Modification note'. A yellow banner states: 'Your modification note will be processed by the Service department in your CDM soon!'.
- Subject of the message:** A section for entering message details.
- CDM no.:** Sample Factory 1
- System no.:** Production line 1
- Drive no.:** 98SEW00001000
- Reference:** SEW-EURODRIVE / KA157 R97 LR100/W DT100L6
- Manufacturing Number:** 3010682601.0001.99
- Your message:** Order of on-site inspection On the 6th September 2008 at 2 pm
- Alternative shipping address:** A section for providing an alternative address.
- Personal data:** A section for providing personal information.
- Customer data:** A section for providing customer information.
- Buttons:** 'Send' and 'Reset' buttons.
- Legend:** * = Mandatory field

CDM® Maintenance Management Information at your fingertips

In order to allocate data collected from your system, each unit is clearly labeled and given a unique CDM® number. The data for each CDM® number is accessible through an easy to use browser interface.

Using this number, you can access data, technical specifications, and the most recent condition status – all in the centrally managed CDM® database. You have 24/7 access to accurate data for each drive component through any Internet browser.



Each drive component is clearly labeled and given a unique CDM® number. The data for each CDM® number is accessible through an easy to use browser interface.

The modular service concept

Whether using individual or multiple service modules, You have access to exactly the services you need for your drive components.

Simply select the specific modules to obtain a tailor-made service package. You'll always have the services and data needed to reduce inventory, avoid costly downtime and plan maintenance schedules.

“Green light” for your production.



24h Service
Hotline



Installation
Consulting
Service



Startup Service



Application
Programming
Service



Inspection and
Maintenance
Service



Repair Service



Spare Parts
Service



Express
Assembly
Service



Industrial Gear
Service



Pick-Up and
Delivery Service



Retrofit Service



Condition
Monitoring
Service



CDM® Maintenance
Management



Training Service

Driving the world.

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