

CDM® – Maintenance Management
Green light for your production

SERVICE



CDS® – The modular service portfolio

Service system for drive technology – Innovative and transparent

CDM® – Maintenance Management by SEW-EURODRIVE will help reduce standstills and increase the operational availability of your systems – it will introduce you to a new type of transparency and assurance previously unknown.

Just imagine that from now on you're up to date with every detail of your system/equipment whenever it suits you – all it takes is a glance at your computer screen.

Not only do you have a complete overview of your entire stock and the condition thereof, you also know for example what drives are especially in demand and what components were serviced how and when in the past. You're able plan and initiate maintenance intervals on time with only a few mouse clicks. You're also the first to be informed about what components in your system/equipment are in a critical condition because you automatically receive an alarm notification, for example by SMS on your mobile phone. It is no longer necessary to climb into cramped spaces with a torch in order to read a nameplate, because you already know the name and location of all your drive components.

Your spare parts storage can be reduced as you're able to order the replacements that you urgently require in exactly one minute. The delivery times that were agreed upon with you can be read off in the online ordering facility.

This relaxed way of managing maintenance activities is made possible with the help of the new CDM®-databank – transparent, comfortable and cost-saving.

Act now, before you have to react!



CDM® – Maintenance Management
is a component of the modular CDS®
system from SEW-EURODRIVE.
→ Green light for your production.



Green light for your production



CDM® – Maintenance Management

What we offer you:

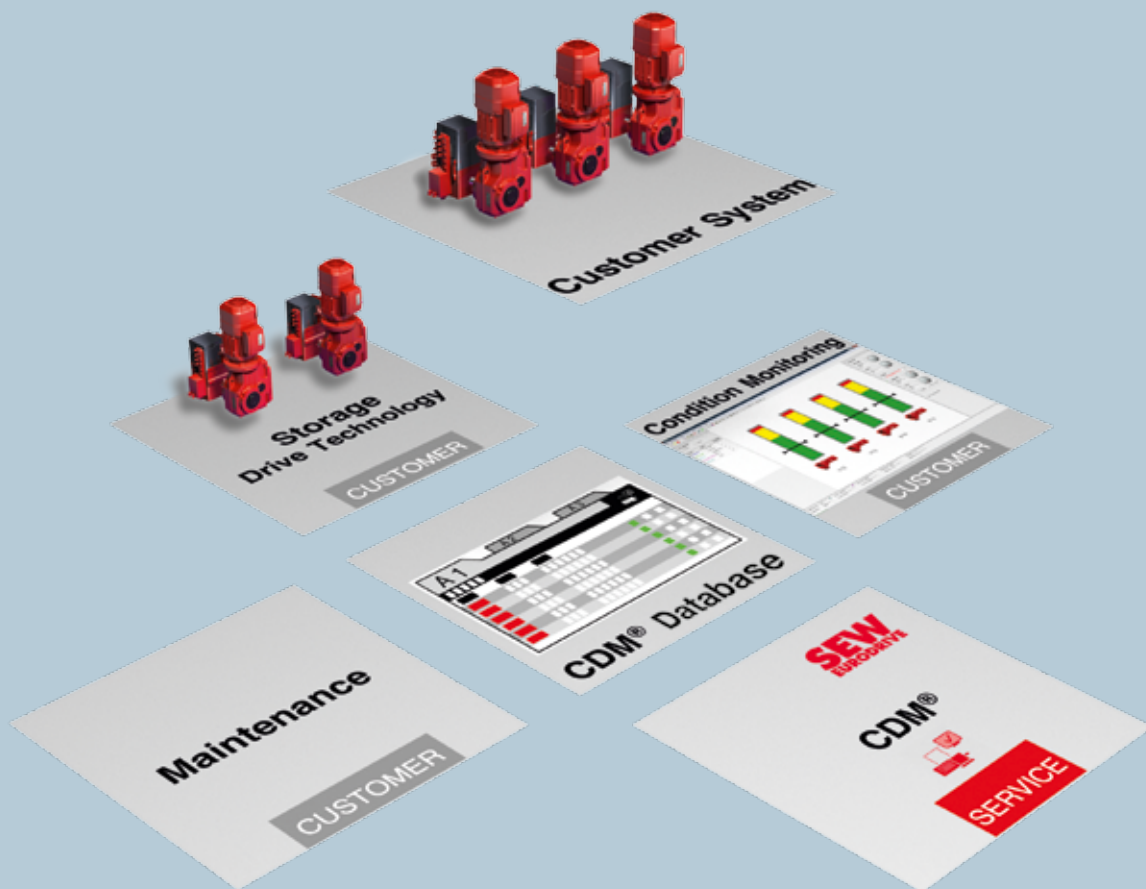
- Recording of drives and frequency inverters with condition classification
 - Individual inspection (optical control)
 - Instruction as to the required maintenance/ service measures
- Structuring and comparison of available drive technology
- Drive and frequency inverter data can be accessed online in the Internet portal DriveGate® under www.sew-eurodrive.de
- Drives and frequency inverters are clearly labelled for fast identification, also during the 24h service hotline (24/7)
- Individual advice on how to optimise maintenance concepts for installed drive technology, and on matters such as energy saving, condition monitoring, storage optimisation and TCO/LCC
- Carrying out of agreed maintenance and service activities
- Carrying out of accompanying activities, for e.g. welding



Your advantages:

- Transparency of all drives and frequency inverters (according to type, quantity, condition, availability)
- Innovative and comfortable CDM®-databank for recording, updating, researching and analysing data
- Maintenance activities can be optimised with the help of CDM®-functionalities such as maintenance planning and history display
- An optimally balanced stock can help reduce storage costs. Redundant components can be identified by means of a stock-management functionality and spare parts availability can be assured in advance

Knowledge plus communication – CDM® – Maintenance Management



A complete recording of drive technology that is installed and on stock, and the maintaining of the results in an online databank form the basis of CDM® – Maintenance Management. The central recording of all data facilitates an optimal foundation for an exact estimate of what and when service measures need to be performed. Necessary activities, for example

maintenance and repairs are displayed in the databank. This enables you to define individual, sustainable service- and reaction scenarios for each drive, with consideration for their operational requirements. It is of course also possible to transfer data directly from the CDM®-databank to SEW-EURODRIVE and we'll

ensure that any failures are identified in advance so that they can be minimized.

Online condition monitoring activities, for example vibration analysis and oil-ageing monitoring, can be linked with the databank. Offline checks are also possible.



Drive recording

- Central recording of all data from both installed drives and those in storage
- Condition classification
- Recommendation for necessary service measures



CDM®-databank

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



Maintenance Management

- Storage optimisation
- Planning of inspections
- Maintenance planning
- Energy consultation
- Condition monitoring
- Concept development, e.g. TCO/LCC



System service

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



Retrofit service

- Energy-saving measures
- Overhauls
- Replacements
- New installations
- Optimisations
- Accompanying activities, e.g. welding



The recording of drive technology is characterised by a complete record of all component data and the condition thereof – also for non SEW products.

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

The CDM®-databank 100% information and 0% stress

Factory level

user-specific authorisation is determined by customer

System/equipment level

– system breakdown according to customer requirements

Component level

– FI-Motor 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 DRIVEGATE software interface. At the top, there is a navigation bar with options like 'Start', 'Orders', 'Support', 'Training', 'CDM', 'Personal Settings', and 'Terms of use'. Below this, there are tabs for 'Print view', 'Edit Data', and 'Display'. The main content area is divided into several sections:

- Factory:** Shows 'Factory name' (Sample Factory 1), 'Customer' (Sample customer 78848 Ruychaal), and 'Factory Address' (Sample customer 78848 Ruychaal).
- System/Equipment:** A table listing system/equipment items:

System/Equipment Number	System/Equipment Name	Building	Type
Exclusives	Silos	Hall 5B	
Production line 1	Pellets processing	Hall 5A	Press
Production line 2	Pellets processing	Hall 5A	Press
Shops	Pellet transport sector	Hall 5B	
- Component:** A table listing individual components:

Type	Component Number	Customer component number	Functional Location	Product Name
IF1	98SEW00000001	IF1	H5A-S1-FU1	MDX61B0075-5A3-4-0T
IF2	98SEW00000002	IF2	H5A-S1-FU2	MDX61B0116-5B3-4-00
IM1	98SEW00000003	IM1	H5A-S1-M1	KA37T DT71D4/BMG/H/TF/AV1H/ASB1
IM2	98SEW00000004	IM2	H5A-S1-M2	KA37T DV160L4TF
IM3	98SEW00000005	IM3	H5A-S1-M3	K37 DT30L4B/MG/TF/ES
IM4	98SEW00000006	IM4	H5A-S1-M4	R97M2GD DV132W4/ED
IM5	98SEW00000007	IM5	H5A-S1-M5	K37 DT30L4B/MG/TF/ES
IM6	98SEW00000008	IM6	H5A-S1-M6	DV132M2
IM7	98SEW00000009	IM7	H5A-S1-M7	R37 DT30L4B/MG/TF/ES
IM8	98SEW00000010	IM8	H5A-S1-M8	KH77 DV112M4/BMG/H/TF/ES
- Technical Data:** A detailed view of a component's specifications:

Technical Data	Usage Information	Condition Information	Logistic Information	Service	Attachments / Documentation
Customised construction identification				0	
Product Name				KA37T DT71D4/BMG/H/TF/AV1H/ASB1	
Manufacturing Number (current)				01.1116111001.001.05	
Output shaft gear 1				33	
Output shaft motor				13	
Motor Flange				120LIA	
Motor Type				DT71 D4/BMG/H/TF/AV1H/ASB1	
Power [kW]				0.37 kW	
Power [kW] (2)				0.37 kW	
Operating Mode				S1	
Gear torque A				33.00 Nm	
Gear torque B				33.00 Nm	
Mounting Position (ordered)				M2A	
Input Speed A				1.300 00rpm	
Input Speed B				1.600 00rpm	
Output speed A				93.00rpm	
Output speed B				110.00rpm	

Comfortable planning, optimising and documenting

The heart of CDM® – Maintenance Management is the online databank which lies in SEW-EURODRIVE's computer center. This is where all things come together: all access-authorisations for example for data, photos, operating instructions and documentation are granted via a standardised Internet browser. User-specific concepts can be created to meet exactly your current needs.

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 functionalities

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	27°/normal
Permitted surrounding temperature	120 BIS +10
ISO-class	ISO-Thermal Classification F
Enclosure	S4
Brake Voltage	400
Braking Torque	2.53 Nm
Brake rectifier	BQ1.5
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

CDM	Search Results	New Search
Start Search		
Search definition		
Factory	Sample Factory 1	
Systems/Equipment	Production line 1 - Plastic processing	
Type	Electric-mechanic	
Component Number	9020100011010	
Customer component number		
Product Name		
Priority	1 - 12-24h (in agreed upon...)	
Standard Product	Yes	
Customised construction identification		
Stage	0 - Store	
State	-Select-	
Power (kW)	1.5	2.2
Total Gear Transformation		
Output speed A	10	15
Further fields		

The CDM®-databank

Example service information

Type of action

- inspection
- maintenance
- sensor information

Planning

- inspection & maintenance measures

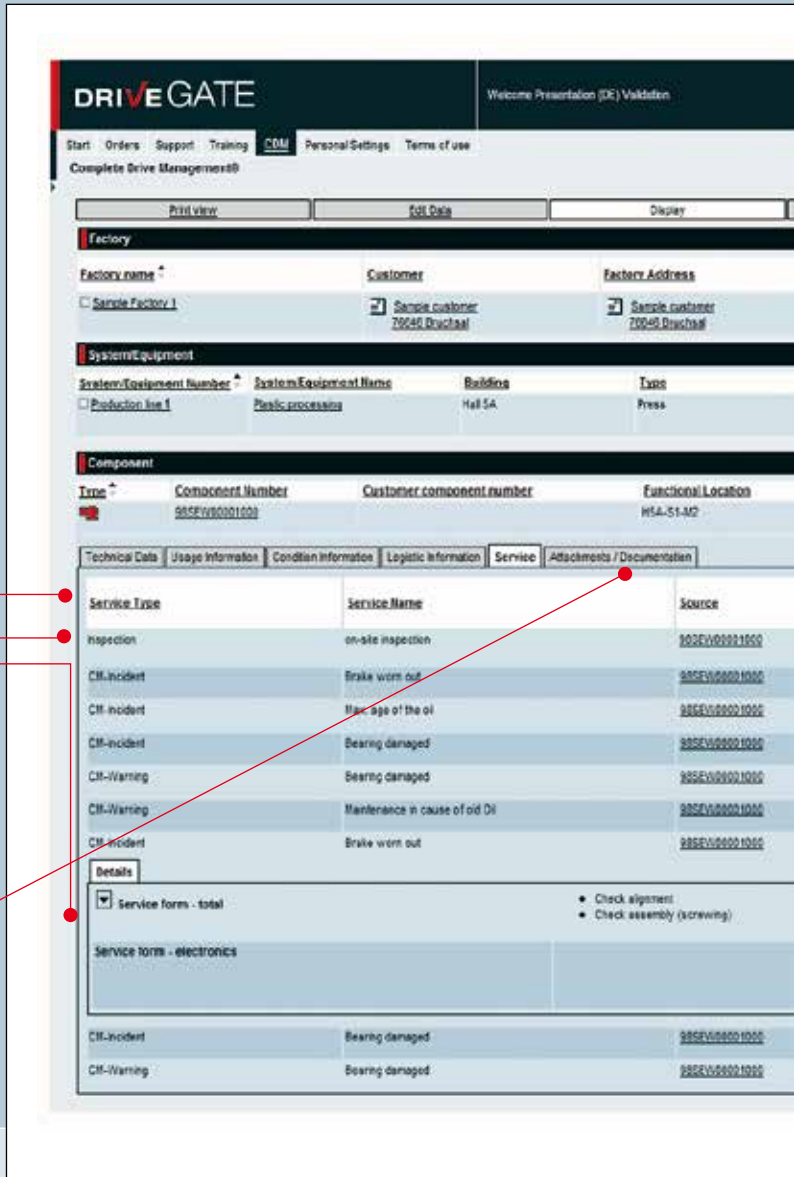
History

- condition monitoring notifications
- past service activities

Attachments



- drive photos
- drive related documentation



The screenshot shows the DRIVEGATE software interface. At the top, there's a navigation bar with 'Start', 'Orders', 'Support', 'Training', 'CDM', 'Personal Settings', and 'Terms of use'. Below that, there are tabs for 'Print view', 'Full Data', and 'Display'. The main content area is divided into sections: 'Factory', 'System/Equipment', and 'Component'. The 'Component' section is expanded, showing a table of service records. The table has columns for 'Service Type', 'Service Name', and 'Source'. Below the table, there are 'Details' for a selected service form, including checkboxes for 'Check alignment' and 'Check assembly (screwing)'. A red dot is placed on the 'Attachments / Documentation' tab header.

Service Type	Service Name	Source
Inspection	on-site inspection	88SEV00001000
CM-Incident	Brake worn out	88SEV00001000
CM-Incident	Max. age of the oil	88SEV00001000
CM-Incident	Bearing damaged	88SEV00001000
CM-Warning	Bearing damaged	88SEV00001000
CM-Warning	Maintenance in cause of oil Oil	88SEV00001000
CM-Incident	Brake worn out	88SEV00001000

The CDM®-databank's user-friendly operating interface will give you comprehensive and detailed insight into your system right down to the individual components and their service history. A planning tool makes suggestions for future service activities and supports you with the respective preparation and organisation thereof.

The screenshot shows the SEW Eurodrive CDM® interface. At the top, there is a search bar and a 'Log Off' button. Below the search bar, there is a table with columns: SEW Service (01800 - 7384587), Customer Number (57777), Logo, Order Number (98_00010_Sample Factory_Sample Town_2008), and Options. Below this, there is a table with columns: System/Equipment/Manufacturer (Sample customer, 76646 Boushal), Customer Contact Para (Drive shaft Sample, +49 7261 75 3217), Creation Date (04-02-2008), Symbol, State, and Options. Below that, there is a table with columns: Product Name (KA 157 R67 LR100W DT100LB), Manufacturer (SEW-EURODRIVE), Priority (2), CDM (green flag), State (green flag), and Options. At the bottom, there is a table with columns: Starting Time, Ending date, Operating hours / tests, State, Service Provider, State, and Options. The table contains several rows of service history data. Below the table, there are sections for 'Service form - motor' and 'Service form - gears' with lists of tasks and inspections. At the bottom right, there is a 'Your Message' form with fields for CDM no., System no., Drive no., Reference, Manufacturing Number, and a message text area. The form also has buttons for 'Send' and 'Reset'.

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

– of both planned and past service activities

Your Message

Type of message: *

Modification note

Your modification note will be processed by the Service department in your CDM soon!

Subject of the message

CDM no. [Sample Factory 1]

System no. [Production line 1]

Drive no. [98SEW0001000]

Reference [SEW-EURODRIVE / KA157 R67 LR100W DT100LB]

Manufacturing Number [301062801.0001.99]

Your message *
Order of on-site inspection
On the 8th September 2008 at 2 pm

Alternative shipping address

Personal data

Customer data

* = Mandatory field

Send

Reset

CDM® – Maintenance Management Transparency right from the beginning

In order to allocate all data collected from your system, each drive component, whether gear motor or electronic component, is clearly labelled. Every drive component is issued with a unique CDM® number when recording the data – this is positioned in a visible and easy to access place.

Behind this number, you will find data ranging from the technical data right through to the most recent condition status, all in the centrally managed CDM®-databank. You can now be sure to retrieve the correct data for making decisions, whether during normal work hours or on weekends.



CDS® – Complete Drive Service

The modular service concept

The individual and combinable CDS® system modules always provide exactly the service you need for your drive technology – no matter when and where you need it.

Simply select the specific modules to obtain a tailor-made CDS® service package. In this way, you always have the right solution to avoid down-times and reduce malfunctions to a minimum.

“Green light” for your production.



24h Service
Hotline



Installation
advice service



Start-up 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



24h Service Hotline
0800 SEWHELP
0800 7394357



- Drive Technology Center (DTC)
- Drive Center (DC)
- ▲ Service Competence Center (SC)

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