

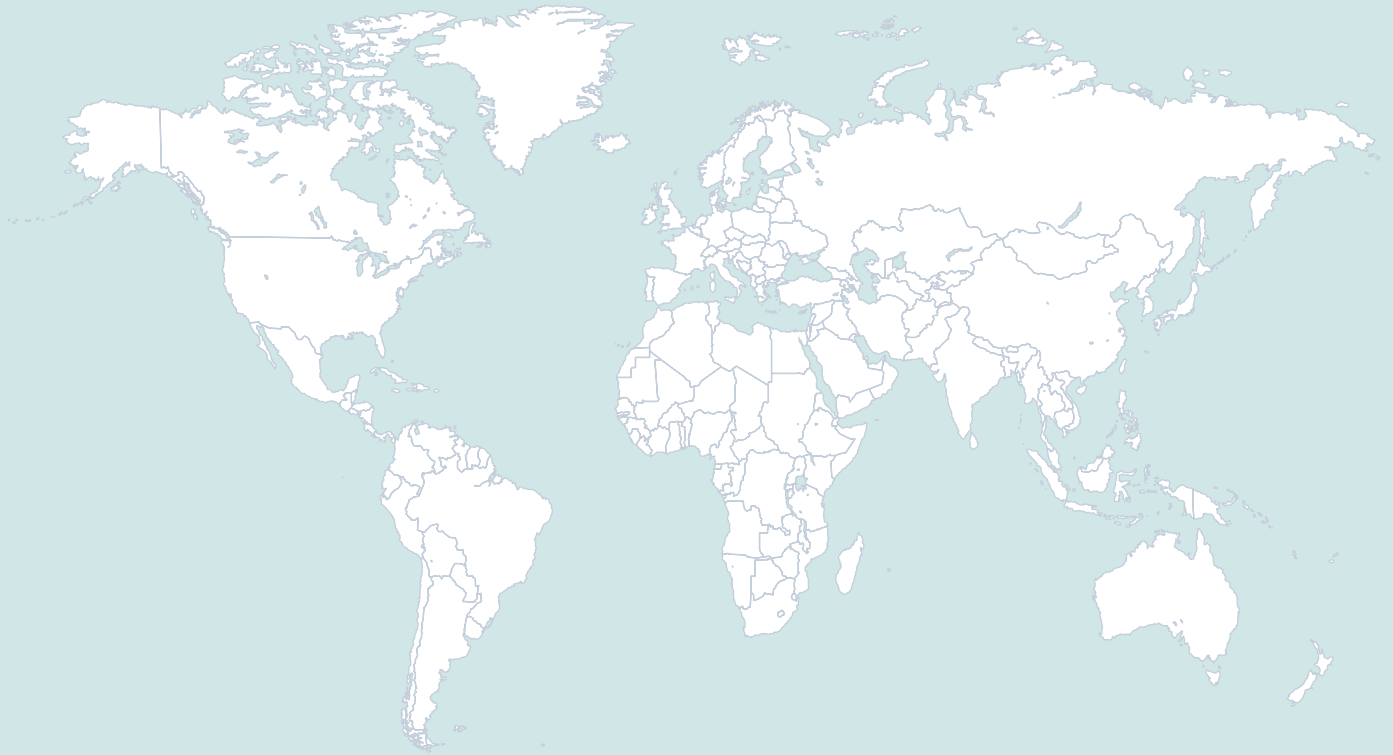


**SEW**  
EURODRIVE

# Catalog



**Asynchronous Servo Gearmotors**  
DRL71 – 225 Servomotors  
with R, F, K, S, W Gear Units





<b>1</b>	<b>Introduction .....</b>	<b>5</b>
1.1	The SEW-EURODRIVE Group of Companies .....	5
1.2	Products and systems from SEW-EURODRIVE .....	6
1.3	Additional documentation .....	7
1.4	Product names and trademarks .....	8
1.5	Copyright .....	8
<b>2</b>	<b>Product Description of Gear Units and Gearmotors .....</b>	<b>9</b>
2.1	General information .....	9
2.2	Asynchronous servomotors of the DRL series .....	10
2.3	Corrosion and surface protection .....	12
2.4	Extended storage .....	14
2.5	General product description .....	16
2.6	Explosion protection according to ATEX .....	19
<b>3</b>	<b>Overview of Types and Type Designation .....</b>	<b>22</b>
3.1	Product variants and options of the gear units .....	22
3.2	Gearmotor variants .....	25
3.3	Motor variants and options .....	34
3.4	Nameplate for servo gearmotors .....	35
3.5	Overview of servo gearmotors .....	36
<b>4</b>	<b>Project Planning Notes for Servo Gearmotors .....</b>	<b>37</b>
4.1	Additional documentation .....	37
4.2	Data for drive and gear unit selection .....	38
4.3	Project planning procedure .....	40
4.4	Project planning information .....	44
4.5	Project planning example .....	51
<b>5</b>	<b>Gear Unit Mounting Positions .....</b>	<b>63</b>
5.1	General information on mounting positions .....	63
5.2	Order information for servo gearmotors/gear units .....	64
5.3	Order information for servo gearmotors .....	66
5.4	Key to the mounting position sheets .....	67
5.5	Mounting positions of helical gearmotors .....	69
5.6	Mounting positions of parallel shaft helical gearmotors .....	74
5.7	Mounting positions of helical-bevel gearmotors .....	77
5.8	Mounting positions of helical-worm gearmotors .....	82
5.9	Mounting positions of SPIROPLAN® gearmotors .....	88
<b>6</b>	<b>Design and Operating Notes .....</b>	<b>91</b>
6.1	Reduced backlash gear units .....	91
6.2	Assembly/disassembly of gear units with hollow shaft and key .....	92
6.3	Gear units with hollow shaft .....	96
6.4	TorqLOC® mounting system for gear units with hollow shaft .....	97
6.5	Gear unit with flange block shaft .....	98
6.6	Shouldered hollow shaft option with shrink disk .....	99
6.7	Fastening the gear unit .....	106
6.8	Torque arms .....	106
6.9	Flange contours of RF.. and R..F gear units .....	107
6.10	Flange contours of FF., KF., SF.. and WF.. gear units .....	108
6.11	Flange contours of FAF., KAF., SAF.. and WAF.. gear units .....	110



6.12	Fixed covers.....	111
6.13	Condition monitoring: Oil aging and vibration sensor.....	113
6.14	Lubricants and fill quantities.....	116
<b>7</b>	<b>Important Information on Selection Tables and Dimension Sheets.....</b>	<b>124</b>
7.1	Information on the selection tables .....	124
7.2	Information on the dimension sheets .....	126
7.3	Gearmotor dimensions.....	129
<b>8</b>	<b>Helical Gearmotors – R Gear Units.....</b>	<b>131</b>
8.1	Types .....	131
8.2	RX75 - 107/DRL – Selection tables, dimension sheets .....	132
8.3	R07 - 157/DRL – Selection tables, dimension sheets.....	156
<b>9</b>	<b>Parallel Shaft Helical Gearmotors – F Gear Units .....</b>	<b>243</b>
9.1	Types .....	243
9.2	F27 - 157/DRL – Selection tables, dimension sheets .....	245
<b>10</b>	<b>Helical-Bevel Gearmotors – K Gear Units.....</b>	<b>342</b>
10.1	Types .....	342
10.2	K37 - 187/DRL – Selection tables, dimension sheets .....	344
<b>11</b>	<b>Helical-Worm Gearmotors – S Gear Units .....</b>	<b>434</b>
11.1	Types .....	434
11.2	S37 - 67/DRL – Selection tables, dimension sheets .....	436
<b>12</b>	<b>SPIROPLAN® Gearmotors – W Gear Units .....</b>	<b>463</b>
12.1	Types .....	463
12.2	W37 - 47/DRL – Selection tables, dimension sheets .....	464
<b>13</b>	<b>Main Technical Data of Asynchronous DRL Servomotors.....</b>	<b>479</b>
<b>14</b>	<b>Abbreviation Key and Index.....</b>	<b>484</b>
14.1	Abbreviation key .....	484
14.2	Index .....	485
<b>15</b>	<b>Address Directory .....</b>	<b>488</b>



## 1 Introduction

### 1.1 The SEW-EURODRIVE Group of Companies

#### *Global presence*

Driving the world with innovative drive solutions for all branches and for every application. Products and systems from SEW-EURODRIVE are used in a multitude of applications worldwide. Be it in the automotive, building materials, food and beverage or metal-processing industry the decision to use drive technology "made by SEW-EURODRIVE" stands for reliability for both functionality and investment.

We are represented in the most important branches of industry all over the world: with 13 manufacturing plants, 67 assembly plants in 44 countries and our comprehensive range of services, which we consider an integrative service that continues our commitment to outstanding quality.

#### *Always the right drive*

The SEW-EURODRIVE modular concept offers millions of combinations. This wide selection enables you to choose the correct drive for all applications, each based on the required speed and torque range, space available and the ambient conditions. Gear units and gearmotors offering a unique and finely tuned performance range and the best economic prerequisites to face your drive challenges.

The gearmotors are powered by MOVITRAC<sup>®</sup> frequency inverters, MOVIDRIVE<sup>®</sup> inverters and MOVIAXIS<sup>®</sup> multi-axis servo inverters, a combination that blends perfectly with the existing SEW-EURODRIVE program. As in the case for mechanical systems, the development, production and assembly is also carried out completely by SEW-EURODRIVE. In combination with our drive electronics, these drives provide the utmost in flexibility.

Products of the servo drive system, such as low backlash servo gear units, compact servomotors or MOVIAXIS<sup>®</sup> multi-axis servo inverters provide precision and dynamics. From single-axis or multi-axis applications all the way to synchronized process sequences, servo drive systems by SEW-EURODRIVE offer a flexible and customized implementation of your application.

For economical, decentralized installations, SEW-EURODRIVE offers components from its decentralized drive system, such as MOVIMOT<sup>®</sup>, the gearmotor with integrated frequency inverter or MOVI-SWITCH<sup>®</sup>, the gearmotor with integrated switching and protection function. SEW-EURODRIVE hybrid cables have been designed specifically to ensure cost-effective solutions, independent of the philosophy behind or the size of the system. The latest developments from SEW-EURODRIVE: MOVITRANS<sup>®</sup> system components for contactless energy transfer, MOVIPRO<sup>®</sup>, the decentralized drive control and MOVIFIT<sup>®</sup>, the new decentralized intelligence.

Power, quality and sturdy design combined in one standard product: With high torque levels, industrial gear units from SEW-EURODRIVE realize major movements. The modular concept will once again provide optimum adaptation of industrial gear units to meet a wide range of different applications.

#### *Your ideal partner*

Its global presence, extensive product range and broad spectrum of services make SEW-EURODRIVE the ideal partner for the machinery and plant construction industry when it comes to providing drive systems for demanding applications in all branches of industries and applications.



## 1.2 Products and systems from SEW-EURODRIVE

The products and systems from SEW-EURODRIVE are divided into the following 4 product groups:

1. Gearmotors and frequency inverters
2. Servo drive systems
3. Decentralized drive systems
4. Industrial gear units

Products and systems used in several group applications are listed in a separate group "Products and systems covering several product groups". Consult the following tables to locate the products and systems included in the respective product group:

1. Gearmotors and frequency inverters		
Gear units/gearmotors	Motors	Frequency inverters
<ul style="list-style-type: none"> <li>• Helical gear units/helical gearmotors</li> <li>• Parallel-shaft helical gear units/parallel-shaft helical gearmotors</li> <li>• Helical-bevel gear units/helical-bevel gearmotors</li> <li>• Helical-worm gear units/helical-worm gearmotors</li> <li>• SPIROPLAN® right-angle gearmotors</li> <li>• EMS drives</li> <li>• Geared torque motors</li> <li>• Pole-changing gearmotors</li> <li>• Variable speed gear units/variable speed gearmotors</li> <li>• Aseptic gearmotors</li> <li>• Gear units/gearmotors to ATEX standard</li> <li>• Variable speed gear units/variable speed gearmotors to ATEX standard</li> </ul>	<ul style="list-style-type: none"> <li>• Asynchronous AC motors/AC brakemotors</li> <li>• Pole-changing AC motors/AC brakemotors</li> <li>• Energy-efficient motors</li> <li>• Explosion-proof AC motors/AC brakemotors</li> <li>• Torque motors</li> <li>• Single-phase motors/single-phase brakemotors</li> <li>• Asynchronous linear motors</li> </ul>	<ul style="list-style-type: none"> <li>• MOVITRAC® frequency inverters</li> <li>• MOVIDRIVE® inverters</li> <li>• Control, technology and communication options for inverters</li> </ul>

2. Servo drive systems		
Servo gear units/servo gearmotors	Servomotors	Servo drive inverters/servo inverters
<ul style="list-style-type: none"> <li>• Low backlash planetary servo gear units/planetary gearmotors</li> <li>• Low backlash helical-bevel gear units/helical-bevel gearmotors</li> <li>• R, F, K, S, W gear units/gearmotors</li> <li>• Explosion-proof servo gear units/servo gearmotors</li> </ul>	<ul style="list-style-type: none"> <li>• Asynchronous servomotors/servo brakemotors</li> <li>• Synchronous servomotors/servo brakemotors</li> <li>• Explosion-proof servomotors/servo brakemotors</li> <li>• Synchronous linear motors</li> </ul>	<ul style="list-style-type: none"> <li>• MOVIDRIVE® servo inverters</li> <li>• MOVIAXIS® multi-axis servo inverters</li> <li>• Control, technology and communication options for servo drive inverters and servo inverters</li> </ul>



3. Decentralized drive systems		
Decentralized drives	Communication and installation	Contactless energy transfer
<ul style="list-style-type: none"> <li>• MOVIMOT<sup>®</sup> gearmotors with integrated frequency inverter</li> <li>• MOVIMOT<sup>®</sup> motors/brakemotors with integrated frequency inverter</li> <li>• MOVI-SWITCH<sup>®</sup> gearmotors with integrated switching and protection function</li> <li>• MOVI-SWITCH<sup>®</sup> motors/brakemotors with integrated switching and protection function</li> <li>• Explosion-proof MOVIMOT<sup>®</sup> and MOVI-SWITCH<sup>®</sup> gearmotors</li> </ul>	<ul style="list-style-type: none"> <li>• Fieldbus interfaces</li> <li>• Field distributors for decentralized installation</li> <li>• MOVIFIT<sup>®</sup> product range                             <ul style="list-style-type: none"> <li>– MOVIFIT<sup>®</sup> MC for controlling MOVIMOT<sup>®</sup> drives</li> <li>– MOVIFIT<sup>®</sup> SC with integrated electronic motor switch</li> <li>– MOVIFIT<sup>®</sup> FC with integrated frequency inverter</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• MOVITRANS<sup>®</sup> system                             <ul style="list-style-type: none"> <li>– Stationary components for energy supply</li> <li>– Mobile components for energy consumption</li> <li>– Line cables and installation material</li> </ul> </li> </ul>

4. Industrial gear units
<ul style="list-style-type: none"> <li>• Helical gear units</li> <li>• Bevel-helical gear units</li> <li>• Planetary gear units</li> </ul>

Products and systems covering several product groups
<ul style="list-style-type: none"> <li>• Operator terminals</li> <li>• MOVI-PLC<sup>®</sup> drive-based control system</li> </ul>

In addition to products and systems, SEW-EURODRIVE offers a comprehensive range of services. These include:

- Technical consulting
- Application software
- Seminars and training
- Extensive technical documentation
- International customer service

Visit our homepage at

→ [www.sew-eurodrive.com](http://www.sew-eurodrive.com)

The website provides comprehensive information and services.

### 1.3 Additional documentation

#### Content of this publication

This "Asynchronous Servo Gearmotors" catalog/price catalog provides a detailed description of the following product groups of SEW-EURODRIVE:

- The combination of DRL asynchronous servomotors mounted directly to
  - R, F, K, S, W gear units



The descriptions include:

- Product descriptions
- Overview of types
- Project planning information
- Visual representation of mounting positions
- Explanation on the order information
- Combination overviews and technical data
- Dimension sheets

For details on motor options, refer to the "AC Motors" catalog/price catalog.

For details on gear unit options and adapters, refer to the "Servo Gear Units" and "Gear Units" catalog/price catalog.

#### ***Additional documentation***

The following documents are available from SEW-EURODRIVE in addition to this "Asynchronous Servo Gearmotors" catalog:

- "AC Motors" price catalogs/catalogs
- "Servo Gear Units" price catalogs/catalogs
- "Gear Units" price catalogs/catalogs
- "AC Motors Inverter Assignments and Characteristic Curves" manual

These price catalogs and catalogs offer the following information:

- Product descriptions
- Technical data and inverter assignments
- Important information about tables and dimension sheets
- Description of the different types
- Selection tables
- Dimension sheets
- Technical data
- Notes on adapter mounting

#### **1.4 *Product names and trademarks***

The brands and product names in this catalog are trademarks or registered trademarks of the titleholders.

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