

SIEMENS



The optimum drive for every application

The most comprehensive range of motors is now called SIMOTICS

[siemens.com/simotics](https://www.siemens.com/simotics)

SIMOTICS motors are outstanding when it comes to performance, quality and efficiency.



Whatever proves itself of value also deserves a name – SIMOTICS

The history of today's most comprehensive range of motors worldwide started approximately 150 years ago as Werner von Siemens developed the dynamo-electric principle in 1866. This formed the basis for designing powerful electric motors, therefore allowing them to become widely established in industry. Since then, motor development has remained a core business of the company – and Siemens with more than 100 years of experience is still the pacesetter when it comes to innovative motor technology.

Today, in industrial plants and systems around the world, many millions of Siemens motors are ensuring motion and efficient operation. In all sectors, applications and performance classes. Starting with energy-efficient low-voltage motors through motion control motors with a high dynamic performance up to DC motors and powerful high-voltage motors. Through ongoing and persistent innovation, Siemens has always been able to prove its competence when it comes to electric motors. For instance, just recently with the development of a high-speed, high-voltage motor with up to 15,900 rpm in the Megawatt range. Or the presentation of the new SIMOTICS M main motors for motion control in the power range from 2.8 up to 1,340 kW. As a result of employing a completely new modular system, these motors can be flexibly and optimally adapted to each and every application. These are just two examples of motors, which con-

stantly prove themselves in use and are convincing through their quality, efficiency and compactness.

SIMOTICS stands for:

- 150 years of experience in building electric motors
- The most comprehensive range of motors worldwide
- Optimum solutions in all sectors, regions and performance classes
- Innovative motor technologies with the highest quality and reliability
- Highest dynamic performance, precision and efficiency – but still extremely compact
- Essential part of the integrated drive train
- A global network of competence and worldwide service 24/7



A clearly structured portfolio

The complete SIMOTICS product portfolio is transparently structured according to application-related criteria, to make it easy for users to select the optimum motor. Whether you are looking for a low-voltage induction motor or a motor for motion control applications – you will find your optimum motor. Even if it involves a high-voltage motor with a power rating above 100 MW.

The bandwidth extends from efficient induction motors for pumps, fans and compressors through precise motion control motors with a high dynamic performance for positioning tasks and motion control in handling applications as well as production and machine tools. The portfolio also includes DC motors and powerful high-voltage motors, for example, for ships, rolling mills, ore mills or for large pumps and compressors in the oil and gas sector. We can offer you the optimum motor no matter what you have to move.

Always a strong performance

What makes all SIMOTICS motors stand apart is their quality. They are rugged, reliable, have a high dynamic performance and outstanding precision. As a consequence, they can ensure the required performance in each and every process and perform precisely as they should. As a result of their compact design, they can be simply integrated into plants and systems in a space-saving fashion. But there is more to come: as a result of their convincing energy efficiency, they play an effective role in reducing your operating costs and protecting our environment.

A tightly meshed global network of competence and service

SIMOTICS not only offers a level of experience that has been developed over approximately 150 years, but also the know-how of hundreds of engineers, who are continually working around the globe to optimize innovative motor technologies. In intensive exchange of knowledge between one another and in close collaboration with universities and technical colleges, they form a network of competence that is continually growing, as it utilizes synergies and takes advantage of new ideas.

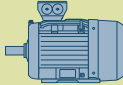
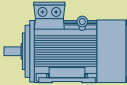
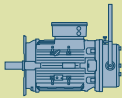
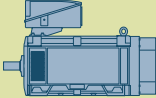
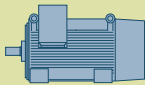
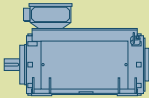
This know-how and this global presence form the basis for the unique closeness to the various sectors and an understanding of the regional requirements. This is clearly reflected in precisely the motor configuration that you require for your particular application. As a result of this presence, our specialists are available to respond to any questions about motors that you might have – at any time, no matter where you are in the world. As a consequence, with SIMOTICS, you profit from a global service network, which optimizes response times and minimizes downtimes as it is always reachable.

The integrated drive train to perfection

SIMOTICS is perfectly harmonized with the other Siemens product families. Together with the seamless and integrated family of SINAMICS converters, FLENDER couplings and gearboxes as well as SIRIUS – the complete range of industrial switchgear –, SIMOTICS is seamlessly integrated into automation solutions based on the SIMATIC, SIMOTION and SINUMERIK control systems.

The complete range for all applications

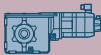
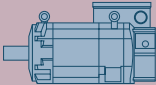
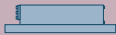
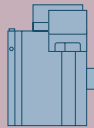
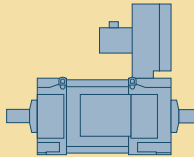
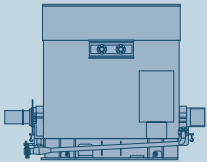
SIMO

	Low-voltage motors for line and converter operation						
	General Purpose SIMOTICS GP	Severe Duty SIMOTICS SD	Explosion Protected SIMOTICS XP	Definite Purpose SIMOTICS DP	Flexible Duty SIMOTICS FD	Trans-standard SIMOTICS TN	High Torque SIMOTICS HT
							
Power							
IEC:	0.09 – 45 kW	0.18 – 315 kW	0.09 – 1,000 kW	0.37 – 481 kW	200 – 1,600 kW	200 – 5,000 kW	150 – 2,100 kW
NEMA:	1 – 20 HP	1 – 400 HP	1 – 400 HP			125 – 2,250 HP	
Torque							
IEC:	0.61 – 294 Nm	150 – 2,022 Nm	0.61 – 8,090 Nm	0.61 – 8,500 Nm	500 – 6,300 Nm	800 – 8,500 Nm	6,000 – 42,000 Nm
NEMA:	2 – 883 lb-ft	1.5 – 1,776 lb-ft	1.5 – 1,187 lb-ft				
Speed	750 – 3,600 rpm	750 – 836 rpm	750 – 3,600 rpm	750 – 3,600 rpm	750 – 3,600 rpm	750 – 3,600 rpm	0 – 800 rpm
Applications	Pumps, fans, compressors, conveyor technology – with special demands regarding low weight and highest efficiency	Pumps, fans, compressors, conveyor technology, marine applications, offshore, mixers, mills, extruders, rolling mills with special requirements on the ruggedness, chemical and petrochemical industries	For general industrial applications with special requirements on the explosion protection, e.g. in the process industry	Special motors, e.g. for operating and transport roller tables, ventilating tunnels, parking houses, shopping centers, harbor cranes, container terminals, marine certified motors as well as special customized versions	Pumps, fans, compressors and conveyor systems with high power ratings – as well as cranes, extruders, bow thrusters - in sectors such as chemical, paper, oil & gas, marine, metals, cement and mining	Pumps, fans, compressors, mixers, extruders in the chemical and petrochemical industries, paper machines, mining, cement, steel industry, marine applications including propulsion	Gearless motors with high torques for paper machines, slow-running pumps, mills, shears for steel applications, bow thrusters, winches and main propulsion drives for ships
SINAMICS converters	G120, G120P, S120, G180	G120, G120P, S120, G130, G150, G180, S150	G120, S120, G180	G120, S120, G130, G150, G180, S150	G120P, G130, G150, S120, S150	G120P, S120, G130, G150, G180, S150	S150, S120

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TICS

Motion control motors					DC motors	High-voltage motors
Servomotors SIMOTICS S		Main motors SIMOTICS M	Linear motors SIMOTICS L	Torque motors SIMOTICS T	SIMOTICS DC	SIMOTICS HV
Servomotors	Servo geared motors					
						
0.05 – 34.2 kW	0.5 – 7 kW	2.8 – 1,340 kW	1.7 – 81.9 kW	1.7 – 380 kW	30 – 1,610 kW	200 kW – 100 MW and more 270 – 135,000 HP
0.08 – 125 Nm	14 – 3,070 Nm	13 – 12,435 Nm	150 – 10,375 Nm	10 – 7,000 Nm	up to 44,500 Nm	up to 25,000,000 Nm
up to 10,000 rpm	up to 1,300 rpm	up to 40,000 rpm	up to 836 m/min	up to 1,200 rpm	up to 3,600 rpm	7 – 15,900 rpm
Applications demanding high-dynamic performance and high precision, e.g. handling systems, storage and retrieval machines, wood, glass, ceramic and stone processing, packaging, plastics and textile machines, machine tools		High-precision rotary axes with a high dynamic performance, e.g. main drives for presses, printing machines, rolling mill drives and winders in foil machines and other converting applications, main spindle drives in machine tools	Applications with the highest demands on the dynamic performance and precision for linear motion, e.g. machining centers, turning, grinding, laser machining, handling and in the machine tool domain	Rotary axis applications with the highest requirements on precision and force, e.g. extruders, winders, rolling mill drives, rotary axes in machine tools, rotary indexing tables, machine tool magazines	Motors for standard drive applications in all industrial areas and in infrastructure projects	Medium- and high-voltage drive applications, including compressors, blast furnace blowers, refiners, pumps, extruders, rolling mills, mine hoists, conveyor systems, mills, ships' propulsion systems
S110, S120		G120, S110, S120, S150	S120	S120	DCM	GM150, SM150, SL150, GL150, SM120, GH180, GH150

High efficiency up to 5,000 kW – SIMOTICS low-voltage motors

Every drive application is different – which is reflected in our solutions. SIMOTICS low-voltage induction motors cover a wide application range up to 5,000 kW. As standard and special versions, they form the basis for powering most industrial applications. The high-efficiency motors are available in graduated efficiency classes according to current legislation and standards for a positive energy balance. They are produced using the latest environmentally friendly technologies and are so cost-effective that generally they have a payback time of two years or less.

Light and compact – SIMOTICS GP

With their light, compact aluminum frame, SIMOTICS General Purpose motors are predestined for pump, fan and compressor applications as well as for cranes in the power range up to 45 kW. Especially the versions with IE4 efficiency for line operation and synchronous-reluctance technology for converter operation play a role in noticeably reducing operating costs for a significantly optimized eco-balance.

Master extreme conditions – SIMOTICS SD

The compact SIMOTICS Severe Duty motors have, in the power range up to 200 kW, a rugged cast-iron frame, which allows them to master harsh or demanding conditions. They stand up to the dust and vibration typical for crushers and mixers as well as aggressive atmospheres in the petrochemical industry. Also here, versions with the highest efficiency in IE4 are available for line operation and with synchronous-reluctance technology for converter operation to achieve the lowest operating costs.

With explosion protection – SIMOTICS XP

The explosion-protected SIMOTICS XP motors have a long service life and are extremely safe and reliable. Specifically designed for applications in the chemical and petrochemical industries as well as in gas plants, they have proven themselves hundreds of thousands of times over. They provide maximum safety for man, machine and the environment.

To address special requirements – SIMOTICS DP

SIMOTICS Definite Purpose include motors for different sectors as well as customized solutions. Sector solutions include marine, crane, roller table and smoke extraction motors, for example. The customized motors are mechanically or electrically adapted to address special conditions or special applications.

Modular and smart with it – SIMOTICS FD

Above 200 kW, SIMOTICS FD offers the perfect basis for a cost-effective overall system comprising motor and converter with a high power density. This leading-edge modular system offers the appropriate version for the widest range of requirements. The motors set themselves apart as a result of their versatility, energy-efficient operation and a rugged, durable cast-iron enclosure. You can select the cooling method that corresponds to your particular application. You can select between open and enclosed versions, self-ventilated, force-ventilated, radial fans or axial fans. Water jacket cooling and air-water heat exchangers are also possible.

Versatile with a long service life – SIMOTICS TN

Our trans-standard motors have been designed for use under harsh conditions. They have rugged cast-iron bearing shields and frames, a high degree of corrosion protection, the winding insulation system and an aluminum die-cast squirrel-cage rotor to ensure an outstanding service life. They are ideal for applications with power ratings above 200 kW, for example, in the chemical, oil and gas, cement, mining, steel and marine sectors.

High torques without gearbox – SIMOTICS HT
SIMOTICS HT is at home in all applications that require a very powerful drive without gearbox, also at low speeds. This permanent-magnet synchronous motor is the powerful low-noise solution for paper machine applications, such as presses or roller drives, in the steel industry, e.g. shears and edgers, in ships, such as bow thrusters, winches or main drives, or in the mining/cement sector, e.g. crushers. In these applications, it clearly and convincingly leverages its advantages regarding efficiency, reliability, operating costs as well as size and weight when compared to conventional drive systems.

Ideal for standard and special applications:

- SIMOTICS GP – light standard motors for general drive tasks
- SIMOTICS SD – rugged, compact motors for use under adverse conditions
- SIMOTICS XP – explosion-protected motors that offer maximum safety for man and machine
- SIMOTICS DP – sector-specific and customized motors for special requirements
- SIMOTICS FD – the rugged, versatile all-rounder starting at 200 kW to address a wide range of applications
- SIMOTICS TN – trans-standard motors up to 5,000 kW with an especially long service life for applications under harsh, demanding environments
- SIMOTICS HT – gearless torque motor for applications demanding high torques



Dynamic and precise with SIMOTICS motion control motors

No other manufacturer offers such a wide range of motors for motion control applications worldwide – the portfolio includes servo, main, linear and torque motors. Perfectly harmonized for operation with SINAMICS converters, the complete portfolio is attractive as a result of the compactness, precision and high dynamic performance.

High dynamic performance and extremely compact – SIMOTICS S

Whether for positioning in pick-and-place applications, for cyclic drives in packaging machines or for path control in handling equipment and machine tools: Our permanent-magnet SIMOTICS servomotors with the highest energy efficiency are the first choice wherever high dynamic performance and precise motion sequences are required. Depending on the application, they are available with different integrated encoders – from basic resolvers up to high-resolution absolute encoders. The series of SIMOTICS S motors is rounded off by SIMOTICS servo geared motors.

Precise rotation up to 40,000 rpm – SIMOTICS M

SIMOTICS M are main motors for applications where the primary focus is on the continuous and precise rotary motion of axes. They are predestined as main drives for presses, as roll drives in printing and paper machines as well as textile and plastics machines. Further, they are used as winder drives – and are also employed in machine tool spindles and cranes. With a power range extending from 2.8 up to 1,340 kW, they cover almost every application.

Higher dynamics across the board – SIMOTICS L

SIMOTICS linear motors are the ideal solution if linear motion is to be executed with the maximum dynamic performance and precision. The reason: elasticities, backlash and friction effects as well as natural vibration in the drive train are avoided to a large extent. The reason for this is that when using linear motors, mechanical transmission elements – such as ballscrews, couplings and belts – are eliminated. This simplifies the machine design and reduces wear.

Highest precision for rotary axes – SIMOTICS T

SIMOTICS torque motors are optimized for high torques at low rated speeds. With a high precision and dynamic performance as well as low wear (there are no mechanical transmission elements), they are attractive as built-in motors for rotary cycle machines, rotary indexing tables as well as swiveling and rotary axes, e.g. for machine tools. The same is true for the complete torque motors, which are used as rolling mill motor and winder drive in converting applications.

Individual solutions for special applications

Sometimes there is no way around application specific solutions. We can offer you these: Based on many years of experience, together with our customers, we design and implement application specific motor solutions – perfectly tailored to your requirements regarding both design and performance. Not only this, you profit from the high level of integration in our converter and control environment.

Optimum system solutions that are harmonized with one another

SIMOTICS motors are optimally harmonized and coordinated to the family of SINAMICS drives. Based on standard components that are available worldwide, you can obtain motion control solutions that precisely meet your demands and also reflect state-of-the-art technology in all power and performance classes. Electronic rating plates and the DRIVE-CLiQ interface used to connect the motors ensure fast commissioning and smooth operation. State-of-the-art safety concepts can be simply implemented based on integrated encoders with redundant encoder tracks as well as safety functions integrated in the drive. As a consequence, additional external safety components are not required. Prefabricated MOTION-CONNECT signal and power cables guarantee simple and fault-free connection between all of the components.

Ideal for motion control applications:

- SIMOTICS S – servomotors for precise positioning with high dynamic performance along with precision motor control
- SIMOTICS M – main motors for precise and smooth running of rotary axes and main drives
- SIMOTICS L – linear motors for the highest dynamic performance and precision for linear motion
- SIMOTICS T – torque motors for gearless direct drive of rotary axes
- Solutions for specific applications, for example, motors for servo pumps



From the pioneers of DC drive technology – SIMOTICS DC

Siemens built the first DC motor over 130 years ago, which made it the pioneer for DC drive technology. We still assume this role today. All around the globe, in countless plants and applications, our motors prove themselves in daily use. This is because DC drive technology is reliable, favorably priced and convincing when it comes to operator friendliness and operating characteristics, and just as before, DC drive technology is the solution of choice in many areas of industry and infrastructure. This is the reason why we are still building and marketing this drive technology and continuing to consequentially develop it.

High degree of reliability for disturbance-free operation

Rugged, low maintenance and with a long service life, our DC motors have been designed for maximum operational reliability. The high mechanical stiffness of the enclosure, bearing shields and shafts ensures a unique level of smooth running and vibration quality. This reduces the load on the motor and extends its lifetime.

The bearings have an especially long service life, which is also true for the commutators and brush holders that all DC motors have in common. The brushes themselves are manufactured out of specially coordinated, low-wear materials, which extend the press lifetimes and rule out brush arcing. Further, the high-quality Durignit 2000® insulating system plays a decisive role in achieving the long service life. This is because it allows motors to be operated under extreme ambient conditions – whether in hot and humid tropical climates or in aggressive industrial environments.

Optimum operating characteristics

The operating characteristics of our DC motors ensure the highest processing accuracy of machines, therefore guaranteeing the highest and consistent quality of end products. The smooth operating behavior is a decisive issue here, and is achieved by minimizing vibration and torque ripple. Further, the high rate of current change allows a high dynamic performance to be achieved, which in turn provides maximum precision.

Pleasantly quiet

When it comes to noise, we left nothing to chance for our DC motors. Examples include the special main pole shape and the optimized separately driven fan. These mechanical and electrical design features as well as optimum fan design guarantee an extremely low noise level. This is especially beneficial for the operating personnel and reduces the costs for noise-damping measures on site.

Always the optimum DC motor

Our DC motors seamlessly address a power range extending from 31.5 kW up to 1,610 kW. Self-ventilated, forced-ventilated with or without fan. The modular structure of our portfolio allows all combinations. Our DC motors are available in IP23, IP54 and IP55 degrees of protection for use under harsh ambient conditions. A wide range of options allows the motor to be optimally adapted to the specific project.

*The ideal partner for our
SINAMICS DCM converters for
low investment costs and high
availability in the widest range
of applications as:*

- Extruders for the plastics industry
- Hoisting and travel gear drives for cranes
- Rolling mill drives and winders
- Rotary kilns for cement factories
- Drives for wire-drawing machines
- Press drives
- Drives for lifts and cable railways
- Paper machine drives



Maximum efficiency and reliability – SIMOTICS high-voltage motors

Whether synchronous or induction motor, slow-speed rotor or high-speed direct drive, standard motor, customized or sector solution – SIMOTICS high-voltage motors cover all application areas up into the Megawatt class.

A quasi-standard range for almost all applications

Our range of high-voltage motors addresses all of the usual voltage classes up to 13.8 kV. Power ratings start at approximately 200 kW and extend up to 30 Megawatt for induction motors – and even up to 100 Megawatt and more for synchronous motors. Most drive applications can be optimally addressed using the wide range of quasi-standard high-voltage motors. Up to 1,500 kW, the motors are generally rib-cooled, with a modular cooling system, open-circuit-ventilated or equipped with air-to-air or air-to-water heat exchangers.

Number one regarding compactness, reliability and efficiency

No matter whether rib-cooled or with a modular cooling concept – our high-voltage motors set standards when it comes to envelope dimensions and weight referred to the power rating; this is also true at the highest power levels. And with efficiencies often of 98% and more, they are certainly efficient and at the same time extremely reliable. The reasons include insulation systems such as Micalastic®, which has proven itself over many years and which secures a long winding service life, as well as the uniform cooling of the complete motor and the long bearing lifetimes. Our high-voltage motors are generally built in conformance with IEC – and for the North American market, to AboveNEMA. Versions to comply with standards such as API can be simply implemented.

Customized motors for the highest power ratings

For applications that require a motor design that deviates from the standard, Siemens can offer customized and special sector-specific SIMOTICS motors. These have proven themselves in the widest range of applications. The following examples provide strong evidence of this performance:

- Main rolling mill drives, which as a result of their extremely smooth running properties and dynamic performance, play a role in achieving maximum product quality – even for power ratings of 16 MW, for example
- Gearless ring motors for ore mills with power ratings of up to 35 MW reliably operate even under the toughest of conditions – for example, in the Chilean Andes at an altitude of over 3,000 m
- Motors integrated in cable drums for mine hoists and open-cast mining excavators
- Main drives for large freighters and cruise ships
- Powerful, high-speed synchronous motors for gas liquefaction plants with ratings of 100 MW and more
- High-speed direct induction motor drives with speeds of up to 15,900 rpm in the megawatt range – employing a unique rotor technology

Ideal for applications that demand the highest power and performance, such as:

- Compressors for pumping and transporting natural gas
- Liquid gas compressors that require power ratings of up to 100 MW
- Large oil pumps
- Main pumps in the water and chemical industries
- Boiler feed pumps in power stations
- Platform drives
- Main propulsion drives for freighters, tankers and cruise ships, extruders, kneaders and mixers in the megawatt range, ore mills and stone crushers, bucket wheel and dragline excavators in open-cast mining, conveyor belt systems with high transport capacities, blowers (e.g. for blast furnaces, which blow several 100,000 cubic meters of air), air separation plants, refineries and main rolling mill drives



Intelligent tools to select, engineer and configure drive systems

Our tools support you in all life cycle phases of your drive solution – from calculating the payback time of energy-efficient motors, through selecting, dimensioning and configuring products and drive systems, including comprehensive documentation, up to ordering.

Quickly determine what really pays off – with SinaSave

The SinaSave tool can provide you with answers to questions such as “What is the payback time when investing in a more efficient motor?”, “How high is the cost-saving potential when using variable-speed drives?”, “Does it make sense to change over to direct drives?”. Based on individual operating characteristics as well as system-specific parameters, SinaSave calculates and compares the energy requirement of various drive products and systems. Furthermore, SinaSave tells you the payback time when investing in an energy-efficient drive solution. Based on the investment and operating costs as well as the energy-saving potential, the tool determines the expected payback time. It also provides fast and straightforward help for decision-making when it comes to financially assessing the investment in energy-efficient products. SinaSave is available at www.siemens.com/sinasave

Reliably find what you are really looking for with the DT Configurator

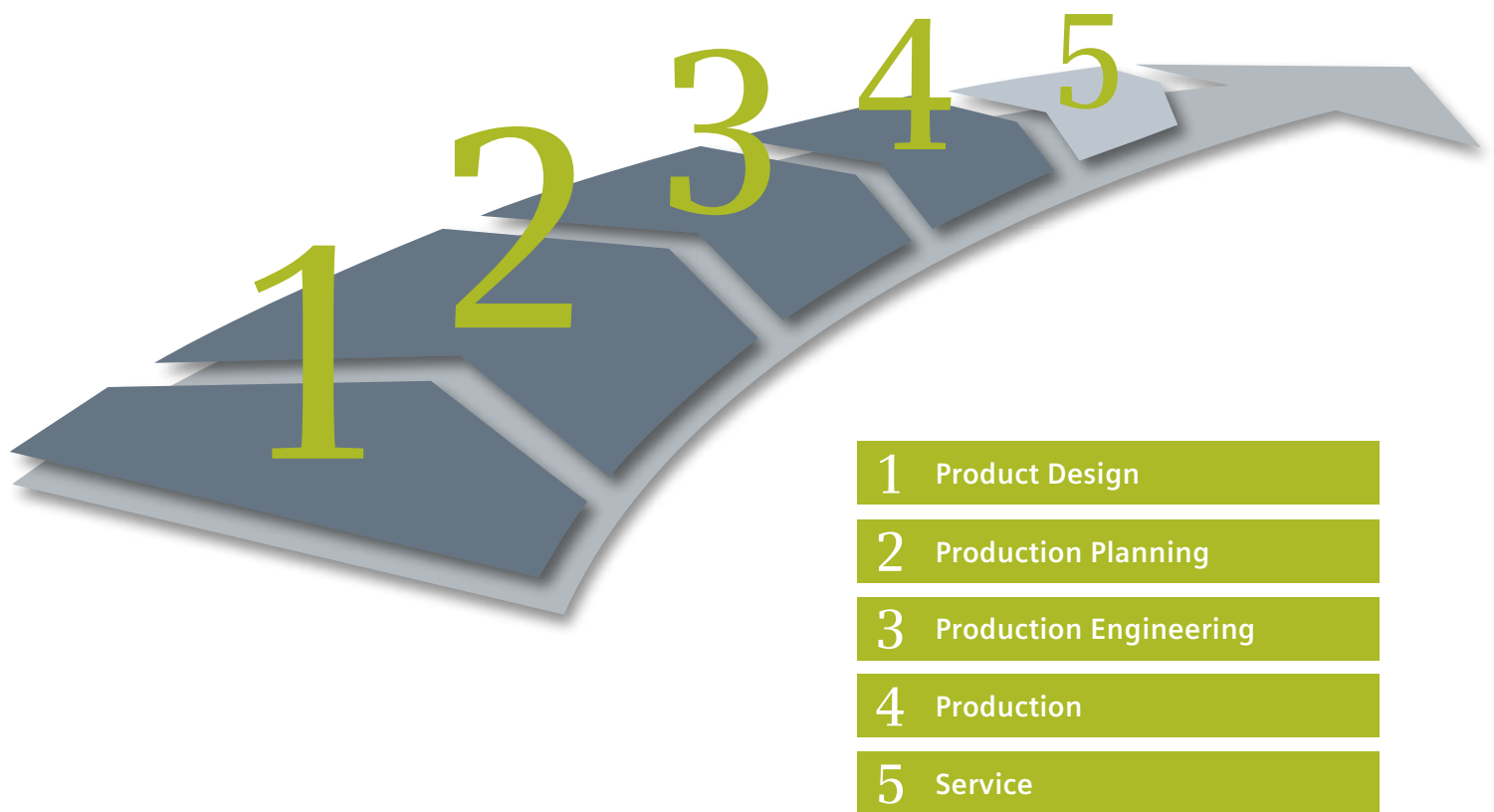
For the many motors and options, the “DT Configurator” is the tool that supports you when selecting the optimum motor for your application. Configuration is convenient and fast using focused navigation with selection menus or by directly selecting a product by entering the ordering number. Comprehensive documentation, starting from the data sheet, operating instructions up to 2D/3D dimension drawings and certificates can also be created. The selected products can be immediately ordered by exporting a parts lists to the shopping cart of the Mall. Also for retrofits, the correct motor is found – even if the previously used motor has an efficiency class that can no longer be supplied as a result of the new efficiency legislation. More information on this topic is available at www.siemens.com/dt-configurator

Simply engineer your drive application using SIZER for Siemens Drives

The engineering software SIZER for Siemens Drives decisively simplifies the engineering of all the components required for your drive application. Starting from your application, the program supports you step by step when defining the mechanical system, when selecting and dimensioning frequency converters, motors, gearboxes and additional system components. It also helps you configure the open-loop/closed-loop control system. Here, in addition to the engineering results, such as characteristics, technical data, layout drawings and dimension drawings, SIZER also provides calculations regarding performance and the load-dependent energy requirement. First-time users of the tool can take a guided tour and browse numerous help functions as well as comprehensive physical and technical background knowledge. Simply try it out. You can get to know more at www.siemens.com/sizer

Flexible, customized and user-friendly – SIZER WEB ENGINEERING

With the web-based drive engineering tool, you can quickly find the solution for your particular drive application: Menu-prompted workflows specifically guide you when you are selecting and dimensioning products and drive systems – including accessories. Via an integrated query function, SIZER WEB ENGINEERING can also provide you with customized special solutions for applications that cannot be addressed using “Standard Products”, i.e. where the focus is on flexibility and a customized solution. In addition to low-voltage products, you can also engineer high-voltage motors, medium-voltage systems and DC inverters. Comprehensive documentation such as data sheets, starting calculations, dimension drawings, quotation documentation – to name just a few – are a fixed component of this tool. The result: customized solutions for your drive tasks. You can access this tool at www.siemens.com/sizer-we



Energy efficiency in the future

In machine and plant construction, energy efficiency is a topic that is becoming increasingly more important: on the one hand, because energy is becoming an essential and increasing cost factor for manufacturing industries – and on the other hand, because at the domestic and international level, increasingly more stringent standards and legislation must be complied with. We can offer you everything that is required for a focused energy management:

Products and systems that play a decisive role in significantly reducing operating costs, and at the same time reducing the stress on our climate and environment. As a continuous process, our well-conceived concept ensures continuous reduction of the energy requirement. Our energy management is based on the phases identify, evaluate and realize. We offer the perfect solutions for each one of these phases.

Get to know more:

siemens.com/ids

Experience how
Integrated Drive
Systems can boost
the competitiveness
of production plants
and entire companies
in every sector.

The advantages
of Integrated
Drive Systems
at a glance



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Siemens offers products and solutions with industrial security functions that support the secure operation of plants, solutions, machines, equipment and/or networks. They are important components in an integrated and seamless industrial security concept. Siemens products and solutions are being continually developed with this perspective in mind. Siemens recommends that you regularly inform yourself about product updates.

For secure operation of Siemens products and solutions it is necessary to take suitable protective measures (e.g. a cell protection concept) and to integrate every component into a seamless and integrated industrial security concept that represents state-of-the-art technology. When doing this, products used from other manufacturers should be taken into account. You can find additional information about industrial security at <http://www.siemens.com/industrialsecurity>.

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