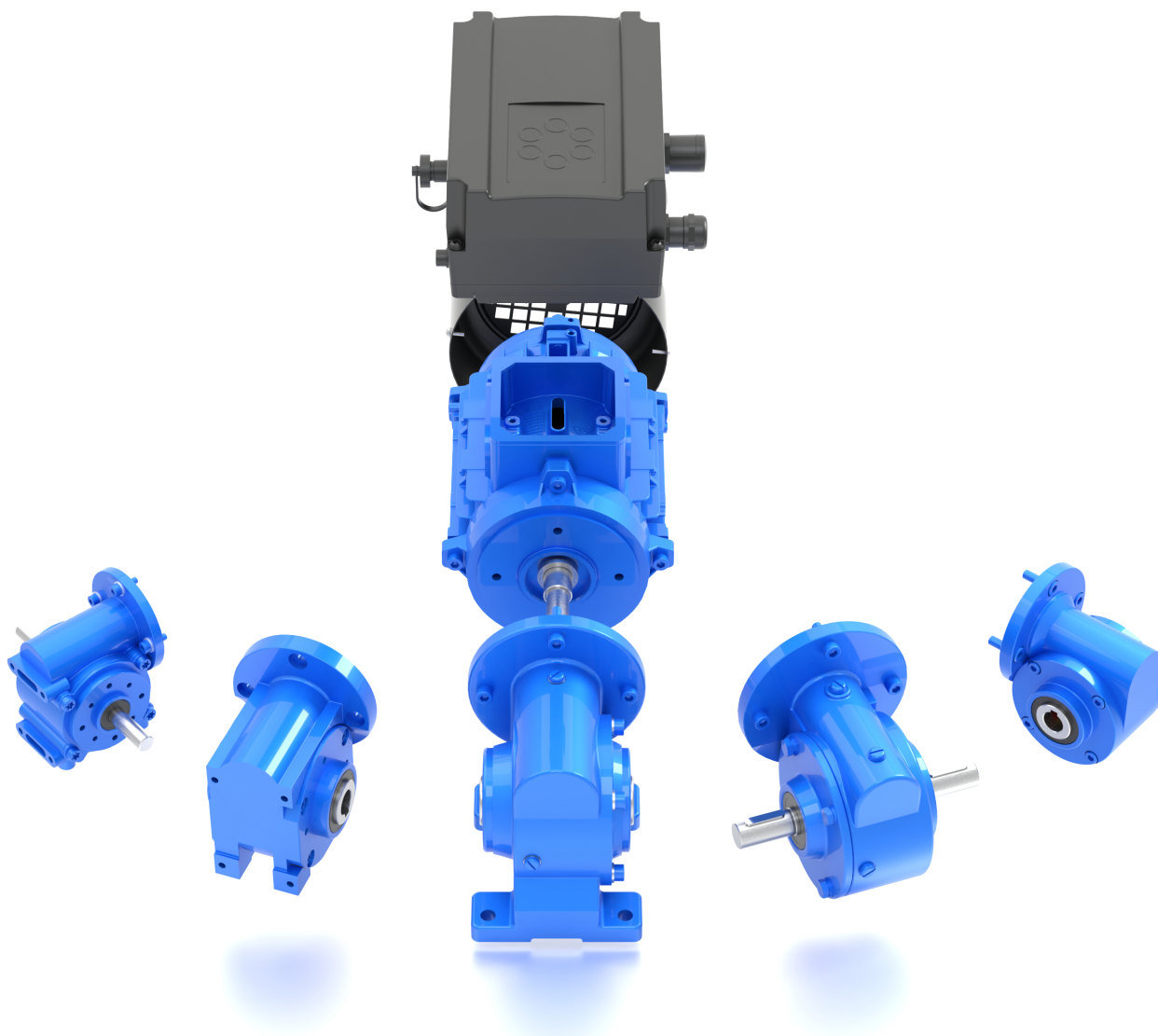
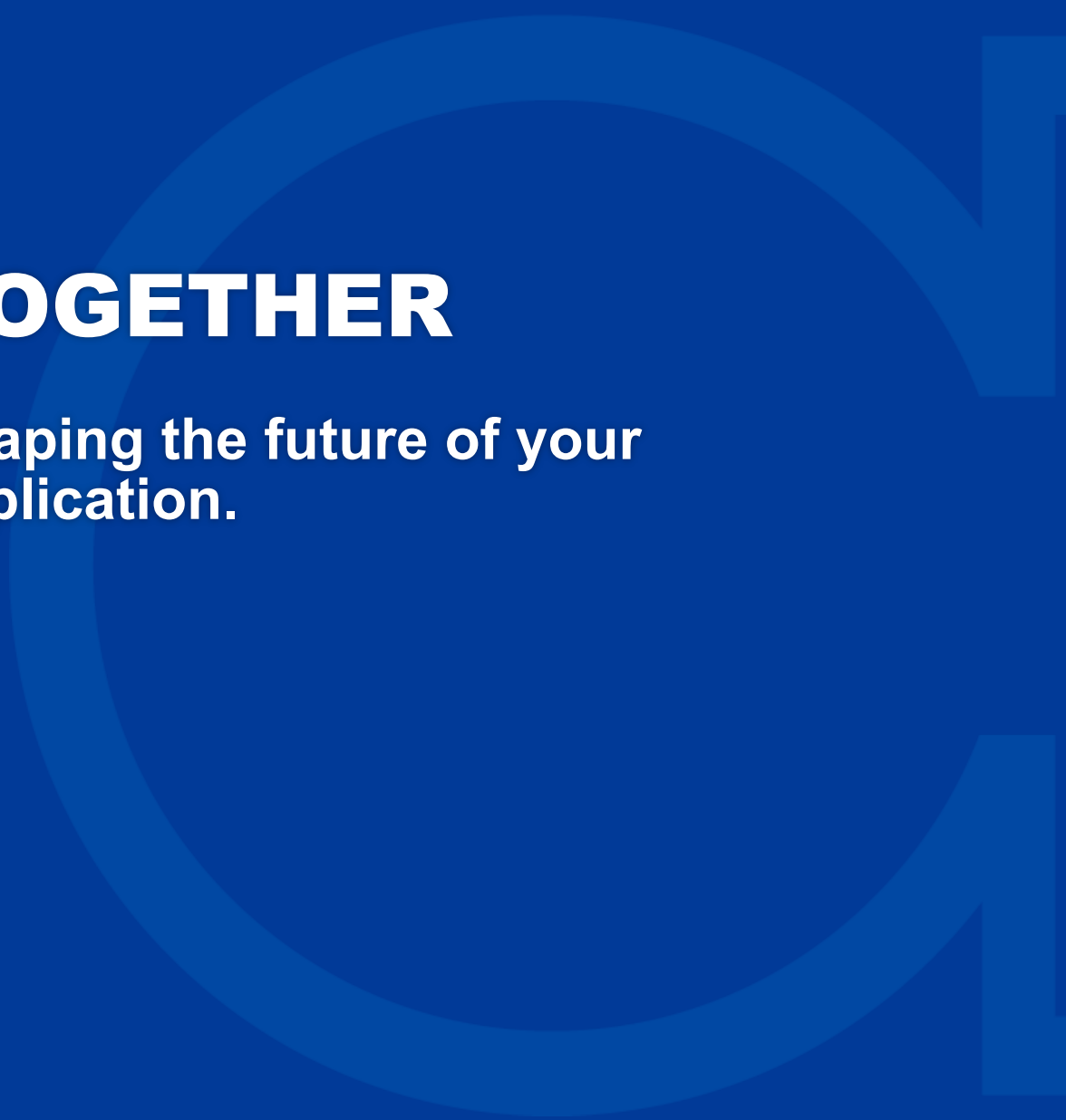




Gearbox and geared motors

Product overview 2023

Drive the Future
03082023-Z03EN

A large, stylized blue gear graphic is centered on the page. It has a thick, rounded outer ring and a smaller inner circle. The gear is positioned behind the main text.

TOGETHER

**Shaping the future of your
application.**

YOUR DRIVING FORCE | RUHRGETRIEBE

Gearboxes & geared motors

Our extensive selection of solo gearboxes has been specially developed for optimum matching with various motors. You can adapt them to your individual needs by using our flexible modular system. Various options such as special shafts and flange options are available to meet the requirements.

GEARING TYPES



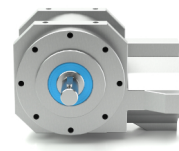
Worm gear



Planetary gear



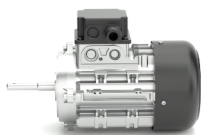
Helical gear



ENEX-gear

Series		17 Standard series 77 Gearbox variants	RPS-Series RPL-Series	11 Standard series	1 Standard series Modular mounting dimensions
Nominal torques	Nm	2 - 288	7 - 92	15 - 380	25
Ratios	i	2,5 - 167:1 (1-stage) 7:1 - 8000:1 (2-stage)	3 - 512	1,14 - 372,35	15 / 24 / 55
Motor mounting		Special dimensions	IEC standard	IEC standard	IEC standard

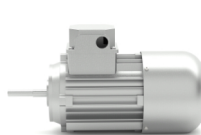
MOTOR TYPES



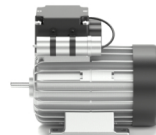
**Three-phase
Asynchronous
motors**



**Brush & Brushless DC
Motors**



**DC shunt-wound
motors**



**Single-phase
asynchronous motors**



**Smooth-bore
motors**

Power range	kW	0,032 - 1,50	0,028 - 0,093	0,12 - 0,55	0,032 - 1,10	0,09 / 0,20
Mains frequency		230/400 V 50 Hz 277/480 V 60 Hz	24 V	180/200 V	230 V	230/400 V 50 Hz
Protection classes		IP54 - IP65	IP40 - IP55	IP44 - IP55	IP54 - IP55	IP56
Designs		B3 / B14	B3 / B14	B3 / B14	B3 / B14	B3 / B14
Versions		Customer-specific + IEC standard	Customer-specific	Customer-specific	Customer-specific + IEC standard	Customer-specific

CONTROLS



Smart-Series



**Integrated control
electronics**



**Thyristor control
units**

Type	Motor mounted frequency inverter	Motor integrated control	External control electronics
Power range	0,09 - 1,50 kW	0,03 - 0,30 kW	0,12 - 0,37 kW
Properties	Manual / automated engine control	Motor integrated 1Q or 4Q controller	Speed control via potentiometer
Range of application	Three-phase asynchronous motors	Brushless DC motors	DC shunt-wound motors



SERIES

SN15

	Flange gearbox	Gear foot	Motor foot	Output shaft	Hollow shaft	Max. permissible torques [Nm]	Worm gearbox 1-stage	Asynchronous motor	DC motor (brushed)	DC shunt-wound motor	Single-phase motor	Smooth-bore motor
							Gearbox ratios					
SN15	(X)	X		X		2 - 4	110, 68, 40, 30, 21, 15, 10.5, 7, 3		X			
SN15H	(X)	X			X	2 - 4	110, 68, 40, 30, 21, 15, 10.5, 7, 3		X			

SN5

SN5			X	X		5 - 15	167, 100, 75, 55, 50, 38, 30, 24, 20, 18, 15, 12, 10, 8, 7, 5, 4, 2.5	X		X	X	X
SN5FL	X			X		5 - 15	167, 100, 75, 55, 50, 38, 30, 24, 20, 18, 15, 12, 10, 8, 7, 5, 4, 2.5	X	X	X	X	X
SN5FR	X			X		5 - 15	167, 100, 75, 55, 50, 38, 30, 24, 20, 18, 15, 12, 10, 8, 7, 5, 4, 2.5	X	X	X	X	X
SN5BH	(X)		X		X	5 - 15	167, 100, 75, 55, 50, 38, 30, 24, 20, 18, 15, 12, 10, 8, 7, 5, 4, 2.5	X	X	X	X	X
SN5VH	(X)	X			X	5 - 15	167, 100, 75, 55, 50, 38, 30, 24, 20, 18, 15, 12, 10, 8, 7, 5, 4, 2.5	X	X	X	X	X
SN5FLH	X				X	5 - 15	167, 100, 75, 55, 50, 38, 30, 24, 20, 18, 15, 12, 10, 8, 7, 5, 4, 2.5	X	X	X	X	X
SN5FRH	X				X	5 - 15	167, 100, 75, 55, 50, 38, 30, 24, 20, 18, 15, 12, 10, 8, 7, 5, 4, 2.5	X	X	X	X	X

SN18

SN18	(X)	X		X		5 - 15	167, 100, 75, 55, 50, 38, 30, 24, 20, 18, 15, 12, 10, 8, 7, 5, 4, 2.5	X	X	X	X	X
SN18H	(X)	X			X	5 - 15	167, 100, 75, 55, 50, 38, 30, 24, 20, 18, 15, 12, 10, 8, 7, 5, 4, 2.5	X	X	X	X	X

SN14

SN14	X	X		X		5 - 15	167, 100, 75, 55, 50, 38, 30, 24, 20, 18, 15, 12, 10, 8, 7, 5, 4, 2.5	X		X	X	X
SN14H	X	X			X	11 - 17	75, 56, 50, 38, 32, 30, 28, 24, 20, 17, 15, 12, 11, 7, 5	X		X	X	X

SN3

SN3B			X	X		11 - 17	75, 56, 50, 38, 32, 30, 28, 24, 20, 17, 15, 12, 11, 7, 5	X		X	X	
SN3B4		X		X		11 - 17	75, 56, 50, 38, 32, 30, 28, 24, 20, 17, 15, 12, 11, 7, 5	X	X	X	X	X
SN3S		X		X		11 - 17	75, 56, 50, 38, 32, 30, 28, 24, 20, 17, 15, 12, 11, 7, 5	X	X	X	X	X
SN3F	X			X		11 - 17	75, 56, 50, 38, 32, 30, 28, 24, 20, 17, 15, 12, 11, 7, 5	X	X	X	X	X
SN3FL	X			X		11 - 17	75, 56, 50, 38, 32, 30, 28, 24, 20, 17, 15, 12, 11, 7, 5	X	X	X	X	X
SN3VH	(X)	X			X	11 - 17	75, 56, 50, 38, 32, 30, 28, 24, 20, 17, 15, 12, 11, 7, 5	X	X	X	X	X
SN3BH			X		X	11 - 17	75, 56, 50, 38, 32, 30, 28, 24, 20, 17, 15, 12, 11, 7, 5	X		X	X	
SN3BFH	X				X	11 - 17	75, 56, 50, 38, 32, 30, 28, 24, 20, 17, 15, 12, 11, 7, 5	X	X	X	X	X
SN3BHFL	X				X	11 - 17	75, 56, 50, 38, 32, 30, 28, 24, 20, 17, 15, 12, 11, 7, 5	X	X	X	X	X
SN3FH	X				X	11 - 17	75, 56, 50, 38, 32, 30, 28, 24, 20, 17, 15, 12, 11, 7, 5	X	X	X	X	X
SN3FLH	X				X	11 - 17	75, 56, 50, 38, 32, 30, 28, 24, 20, 17, 15, 12, 11, 7, 5	X	X	X	X	X

SN9

SN9B			X	X		23 - 36	80, 75, 70, 60, 50, 44, 40, 30, 25, 20, 15, 12, 10, 8, 7	X		X	X	
SN9BN			X	X		23 - 36	80, 75, 70, 60, 50, 44, 40, 30, 25, 20, 15, 12, 10, 8, 7	X		X	X	
SN9SH		X		X		28 - 45	80, 75, 70, 60, 50, 44, 40, 30, 25, 20, 15, 12, 10, 8, 7	X		X	X	
SN9SV		X		X		28 - 45	80, 75, 70, 60, 50, 44, 40, 30, 25, 20, 15, 12, 10, 8, 7	X		X	X	
SN9F	X			X		23 - 36	80, 75, 70, 60, 50, 44, 40, 30, 25, 20, 15, 12, 10, 8, 7	X		X	X	
SN9VH	(X)	X			X	23 - 36	80, 75, 70, 60, 50, 44, 40, 30, 25, 20, 15, 12, 10, 8, 7	X		X	X	
SN9BH			X		X	23 - 36	80, 75, 70, 60, 50, 44, 40, 30, 25, 20, 15, 12, 10, 8, 7	X		X	X	
SN9BFH	X				X	23 - 36	80, 75, 70, 60, 50, 44, 40, 30, 25, 20, 15, 12, 10, 8, 7	X		X	X	
SN9FH	X				X	23 - 36	80, 75, 70, 60, 50, 44, 40, 30, 25, 20, 15, 12, 10, 8, 7	X		X	X	
SN9SHH		X			X	28 - 45	80, 75, 70, 60, 50, 44, 40, 30, 25, 20, 15, 12, 10, 8, 7	X		X	X	
SN9SVH		X			X	23 - 36	80, 75, 70, 60, 50, 44, 40, 30, 25, 20, 15, 12, 10, 8, 7	X		X	X	

SN8

SN8SH		X		X		67 - 141	75, 60, 50, 38, 30, 25, 21, 15, 10, 7, 5	X		X	X	
SN8SV		X		X		67 - 141	75, 60, 50, 38, 30, 25, 21, 15, 10, 7, 5	X		X	X	
SN8F	X			X		54 - 113	75, 60, 50, 38, 30, 25, 21, 15, 10, 7, 5	X		X	X	
SN8FH	X				X	54 - 113	75, 60, 50, 38, 30, 25, 21, 15, 10, 7, 5	X		X	X	
SN8BFH	X				X	54 - 113	75, 60, 50, 38, 30, 25, 21, 15, 10, 7, 5	X		X	X	
SN8DSH	Torque support				X	54 - 113	75, 60, 50, 38, 30, 25, 21, 15, 10, 7, 5	X		X	X	



SERIES

SN10

	Flange gearbox	Gear foot	Motor foot	Output shaft	Hollow shaft	Max. permissible torques [Nm]	Worm gearbox 2-stage	Asynchronous motor	DC motor (brushed)	DC shunt-wound motor	Single-phase motor	Smooth-bore motor
							Gearbox ratios					
SN10SH		X		X		151 - 288	75, 66, 50, 36, 28, 20, 13, 6	X		X	X	
SN10SV		X		X		151 - 288	75, 66, 50, 36, 28, 20, 13, 6	X		X	X	
SN10F	X			X		151 - 288	75, 66, 50, 36, 28, 20, 13, 6	X		X	X	
SN10SHH		X			X	151 - 288	75, 66, 50, 36, 28, 20, 13, 6	X		X	X	
SN10SVH		X			X	151 - 288	75, 66, 50, 36, 28, 20, 13, 6	X		X	X	
SN10BFH	X				X	151 - 288	75, 66, 50, 36, 28, 20, 13, 6	X		X	X	
SN10FH	X				X	151 - 288	75, 66, 50, 36, 28, 20, 13, 6	X		X	X	

SN4

SN4		X		X		6 - 7	1500, 1250, 750, 400, 250, 125, 100, 70, 50, 25, 12.5, weitere	X	X	X	X	
SN4B			X	X		6 - 7	1500, 1250, 750, 400, 250, 125, 100, 70, 50, 25, 12.5, weitere	X		X	X	
SN4F	X			X		6 - 7	1500, 1250, 750, 400, 250, 125, 100, 70, 50, 25, 12.5, weitere	X	X	X	X	

SN6

SN6			X	X		11 - 15	1520, 1140, 900, 720, 570, 450, 360, 300, 225, 150, 100, 50, weitere	X		X	X	
SN6F	X			X		11 - 15	1520, 1140, 900, 720, 570, 450, 360, 300, 225, 150, 100, 50, weitere	X		X	X	
SN6FH	X				X	11 - 15	1520, 1140, 900, 720, 570, 450, 360, 300, 225, 150, 100, 50, weitere	X		X	X	

SN2

SN2		X		X		19 - 25	3570, 2200, 1250, 600, 400, 300, 240, 200, 125, 67, 42, 25, weitere	X		X	X	X
SN2F	X			X		19 - 25	3570, 2200, 1250, 600, 400, 300, 240, 200, 125, 67, 42, 25, weitere	X		X	X	X

SN12

SN12		X		X		25	835, 500, 375, 250, 190, 150, 120, 100, 90, 75, 60, 50, 42, 35, 25, 21, 12.5	X	X	X	X	X
SN12F	X			X		25	835, 500, 375, 250, 190, 150, 120, 100, 90, 75, 60, 50, 42, 35, 25, 21, 12.5	X	X	X	X	X
SN12X		X		X		29 - 35	740, 443, 332, 222, 168, 133, 106, 89, 80, 66, 53, 44, 37, 31, 22, 19, 11.1	X	X	X	X	X
SN12FX	X			X		29 - 35	740, 443, 332, 222, 168, 133, 106, 89, 80, 66, 53, 44, 37, 31, 22, 19, 11.1	X	X	X	X	X
SN12FH	X				X	25	835, 500, 375, 250, 190, 150, 120, 100, 90, 75, 60, 50, 42, 35, 25, 21, 12.5	X	X	X	X	X
SN12FHX	X	X			X	29 - 35	740, 443, 332, 222, 168, 133, 106, 89, 80, 66, 53, 44, 37, 31, 22, 19, 11.1	X	X	X	X	X

SN11

SN11		X		X		35 - 36	2250, 1500, 1140, 750, 500, 380, 300, 200, 100, 50, weitere	X		X	X	
SN11F	X			X		35 - 36	2250, 1500, 1140, 750, 500, 380, 300, 200, 100, 50, weitere	X		X	X	

SN13

SN13		X		X		39 - 50	591, 443, 325, 295, 225, 177, 142, 118, 106, 89, 71, 59, 49,41 30, 25, 15	X		X	X	
SN13F	X			X		39 - 50	591, 443, 325, 295, 225, 177, 142, 118, 106, 89, 71, 59, 49,41 30, 25, 15	X		X	X	
SN13H		X			X	62 - 70	428, 319, 217, 182, 171, 160, 137, 114, 97, 86, 65, 40, 29, 20	X		X	X	
SN13FH	X				X	62 - 70	428, 319, 217, 182, 171, 160, 137, 114, 97, 86, 65, 40, 29, 20	X		X	X	

SN7

SN7		X		X		72 - 113	2500, 1520, 1050, 750, 570, 450, 360, 276, 225, 150, 105, 70, weitere	X		X		
SN7F	X			X		72 - 113	2500, 1520, 1050, 750, 570, 450, 360, 276, 225, 150, 105, 70, weitere	X		X		
SN7S		X		X		140	2500, 1520, 1050, 750, 570, 450, 360, 276, 225, 150, 105, 70, weitere	X				

SN19

SN19		X		X		139 - 150	394, 370, 345, 296, 247, 217, 197, 148, 123, 99, 74, 59, 49, 39, 33	X		X		
SN19F	X			X		139 - 150	394, 370, 345, 296, 247, 217, 197, 148, 123, 99, 74, 59, 49, 39, 33	X		X		
SN19H		X			X	139 - 150	394, 370, 345, 296, 247, 217, 197, 148, 123, 99, 74, 59, 49, 39, 33	X		X		
SN19FH	X				X	139 - 150	394, 370, 345, 296, 247, 217, 197, 148, 123, 99, 74, 59, 49, 39, 33	X		X		

SN17

SN17 A		X		X		5 - 15	100, 75, 55, 50, 38, 30, 24, 20, 18, 15, 12, 10, 8, 7, 5, 4, 2, 5	Solo gearbox Gearbox without motor				
SN17 B		X		X		11 - 17	75, 56, 50, 38, 32, 30, 24, 20, 17, 15, 12, 11, 7, 5					



SERIES

RPS

	Flange gearbox	Gear foot	Motor foot	Output shaft	Hollow shaft	Max. permissible torques [Nm]	Planetary gearbox 1-stage	Asynchronous motor	DC motor (brushed)	DC shunt-wound motor	Single-phase motor	Smooth-bore motor
RPS040	X			X		14 - 16	8, 7, 5, 4	X	X		X	
RPS060	X			X		26 - 30	8, 7, 5, 4, 3	X	X		X	
RPS080	X			X		64 - 92	8, 7, 5, 4, 3	X	X		X	

RPL

RPL050	X			X		7	10, 7, 5	X	X		X	
RPL070	X			X		23 - 24	10, 7, 5, 3	X	X		X	
RPL090	X			X		37 - 60	10, 7, 5, 3	X	X		X	

Planetary gearbox 2-stage

RPS

RPS040	X			X		14 - 16	64, 56, 49, 40, 35, 32, 28, 25, 20, 16	X	X		X	
RPS060	X			X		26 - 39	64, 56, 49, 40, 32, 25, 20, 16, 15, 12	X	X		X	
RPS080	X			X		64 - 92	64, 56, 49, 40, 32, 25, 20, 16, 15, 12	X	X		X	

RPL

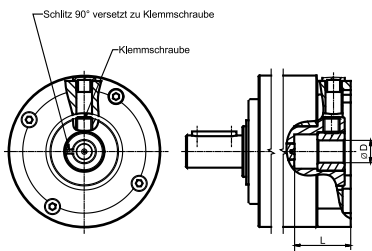
RPL050	X			X		7	100, 70, 50, 35, 30, 25	X	X		X	
RPL070	X			X		23 - 24	100, 70, 50, 35, 30, 25, 15	X	X		X	
RPL090	X			X		37 - 60	100, 70, 50, 35, 30, 25, 15	X	X		X	

Planetary gearbox 3-stage

RPS

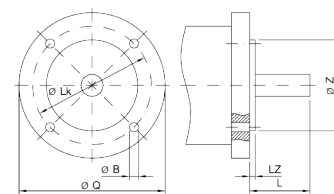
RPS060	X			X		27 - 39	512, 256, 200, 160, 125, 100, 80	X	X		X	
RPS080	X			X		64 - 92	512, 256, 200, 160, 125, 100, 80	X	X		X	

REDUCING SLEEVES

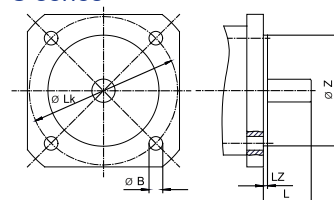


MOTOR FLANGE

IEC series



S series



GEARBOX + MOTOR



A well coordinated team



SERIES

HG

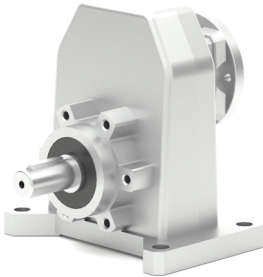
	Flange gearbox	Gear foot	Motor foot	Output shaft	Hollow shaft	Max. permissible torques [Nm]	Helical gearbox 1-stage	Asynchronous motor	DC motor (brushed)	DC shunt-wound motor	Single-phase motor	Smooth-bore motor
							Gearbox ratios					
141	X	X	X	X		15 - 30	1.29, 2.33, 2.79, 3.40, 4.24, 4.79, 5.47, 7.46, 8.17	X			X	
191	X	X	X	X		20 - 50	1.26, 2.23, 2.73, 3.22, 4.11, 4.71, 5.47, 7.82, 9.78	X			X	
241	X	X	X	X		20 - 50	1.26, 2.23, 2.73, 3.22, 4.11, 4.71, 5.47, 7.82, 9.78	X			X	
281	X	X	X	X		40 - 108	1.14, 1.56, 2.29, 2.83, 3.38, 3.84, 4.41, 5.57, 7.36	X			X	
381	X	X	X	X		92 - 138	1.63, 2.29, 3, 3.38, 4.11, 4.75, 5.57, 7.36, 10.40	X			X	

Helical gearbox Multi-stage

HG

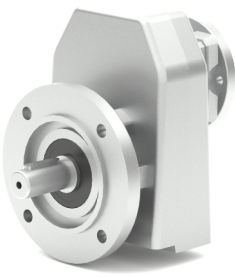
162	X	X	X	X		37 - 71	3.70, 5.10, 7.11, 7.62, 9.80, 11.95, 14.63, 16.47, 20.74, 24.59, 25.51, 28.57, 35.14, 42.67, 52.48	X			X	
202A	X	X	X	X		52 - 108	3.81, 4.66, 5.49, 6.46, 7.75, 8.57, 9.92, 11.67, 14, 15.48, 18.01, 21.19, 25.43, 28.13, 31.71, 37.31, 44.77, 49.52, 54.2, 60.43	X			X	
252A	X	X	X	X		96 - 206	3.70, 4.33, 5.02, 5.92, 6.47, 7.88, 8.93, 9.41, 10.53, 11.51, 14.01, 16.42, 19.35, 21.16, 25.75, 31.27, 36.86, 40.29, 19.04, 53.95, 61.33, 67.47	X			X	
253A	X	X	X	X		179 - 206	63.09, 74.36, 81.29, 98.94, 108.83, 120.15, 141.61, 154.81, 188.42, 207.26	X			X	
302A	X	X	X	X		155 - 349	3.78, 4.40, 5.20, 6.27, 7.76, 8.75, 10.18, 12.03, 14.50, 17.95, 19.58, 22.80, 26.94, 32.45, 40.18, 44.06, 46.59, 53.08, 57.69, 65.72	X			X	
303A	X	X	X	X		320 - 380	64.91, 75.58, 89.31, 107.61, 125.53, 133.23, 146.18, 172.72, 181.40, 208.12, 249.59, 300.74, 372.35	X			X	

TYPE P



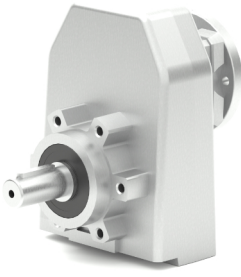
Gearbox with foot

TYPE NF



Gearbox with flange

TYPE N



Motor with foot

IEC mounting dimensions

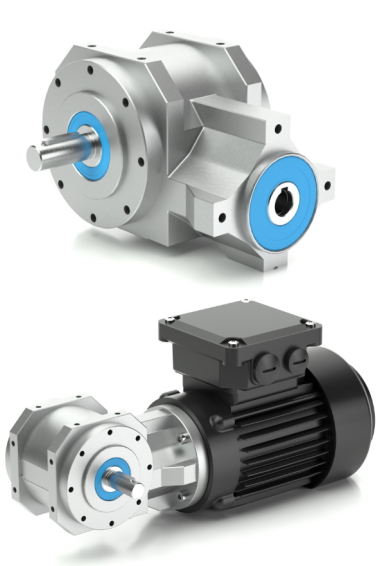
ENEX-LINE

SMART. MODULAR. HIGHLY EFFICIENT

SERIES

	Flange gearbox	Gear foot	Motor foot	Output shaft	Hollow shaft	Max. permissible torques [Nm]	ENEX gearbox		Asynchronous motor	DC motor (brushed)	DC shunt-wound motor	Single-phase motor	Smooth-bore motor
							Gearbox ratios						
ENEX													
15	X	X		X		25	49, 24, 15		X			X	

Special adjustments possible on request



HIGH TORQUE

HIGH EFFICIENCY

LOW NOISE

PROTECTION CLASS

LONG TERM LUBRICATION

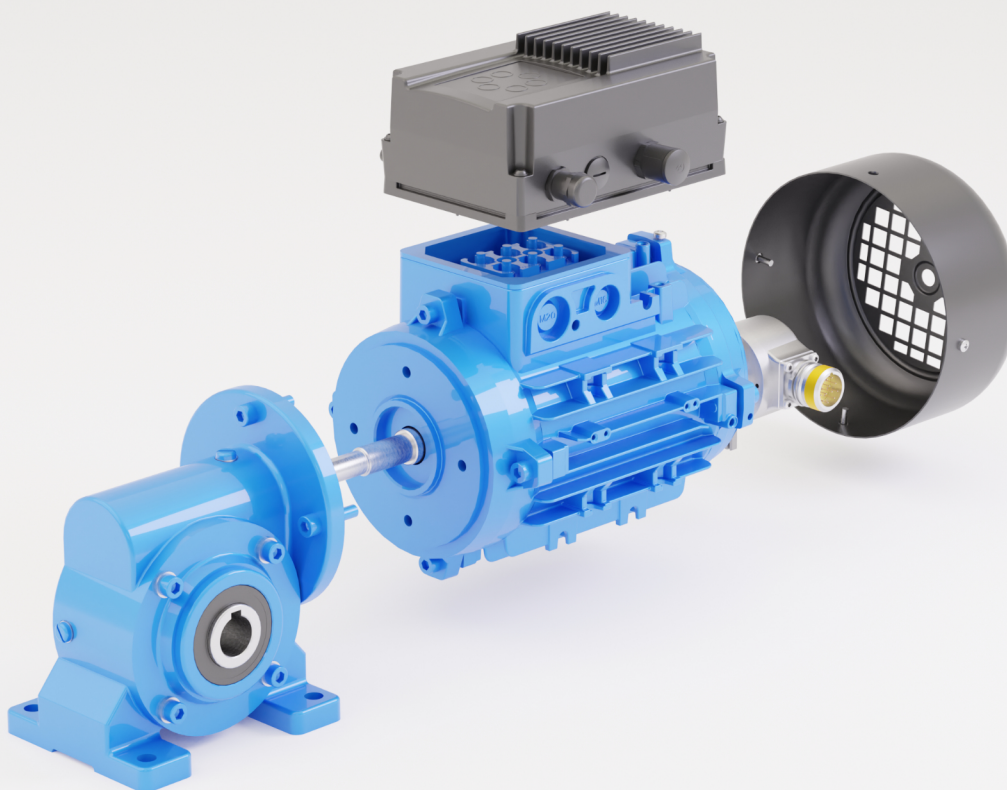
ENERGY-SAVING

Supported by:

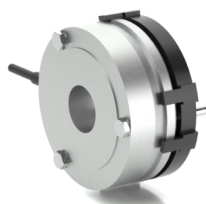
Federal Ministry
for Economic Affairs
and Energy

ZIM
Zentrales
Innovationsprogramm
Mittelstand

on the basis of a decision
by the German Bundestag



ADDITIONAL OPTIONS AND EXTENSIONS



Motor brakes



Incremental encoder



Certifications



Energy efficiency classes

Type	Disc or spring-applied brakes	Optical	Country or industry specific certifications	Energy-efficient electric motors above the minimum legal requirements
Power range	0,09 - 1,5 kW	0,03 - 1,5 kW	0,09 - 1,5 kW	0,12 - 1,5 kW
Properties	230 / 24 V	100 - 2500 Impulse	UL/CSA, CCC LRS	IE3, IE4
Range of application	Three-phase asynchronous motors, DC motors, single- phase motors	Three-phase asynchronous motors, DC motors, single- phase motors	Three-phase current -Asynchronous motors	Three-phase asynchronous motors Synchronous motors (ENEX, IE5)

Other extensions and accessories on request.

SPECIAL GEARBOXES

Gearbox solutions according to your requirements.

Learn more at: www.ruhrgetriebe.de

Moving the innovations of tomorrow together.

Our strength: We have been active in the world of drive technology as a manufacturer of efficient drive solutions since 1953, and our passion for geared motors has brought many machines to life with the help of our customised special gearboxes.

Engineering partner for drives: The most diverse requirements demand individual solutions.

Our special gearboxes are designed specifically for the application.

Fast and accurate drive identification: Get all the important information you need with the Product.ID

With the help of the Product.ID you can easily view all the information - for the clear identification of your desired drive unit. A look at the type plate of your drive unit and entering the ID number enables 100% identification.

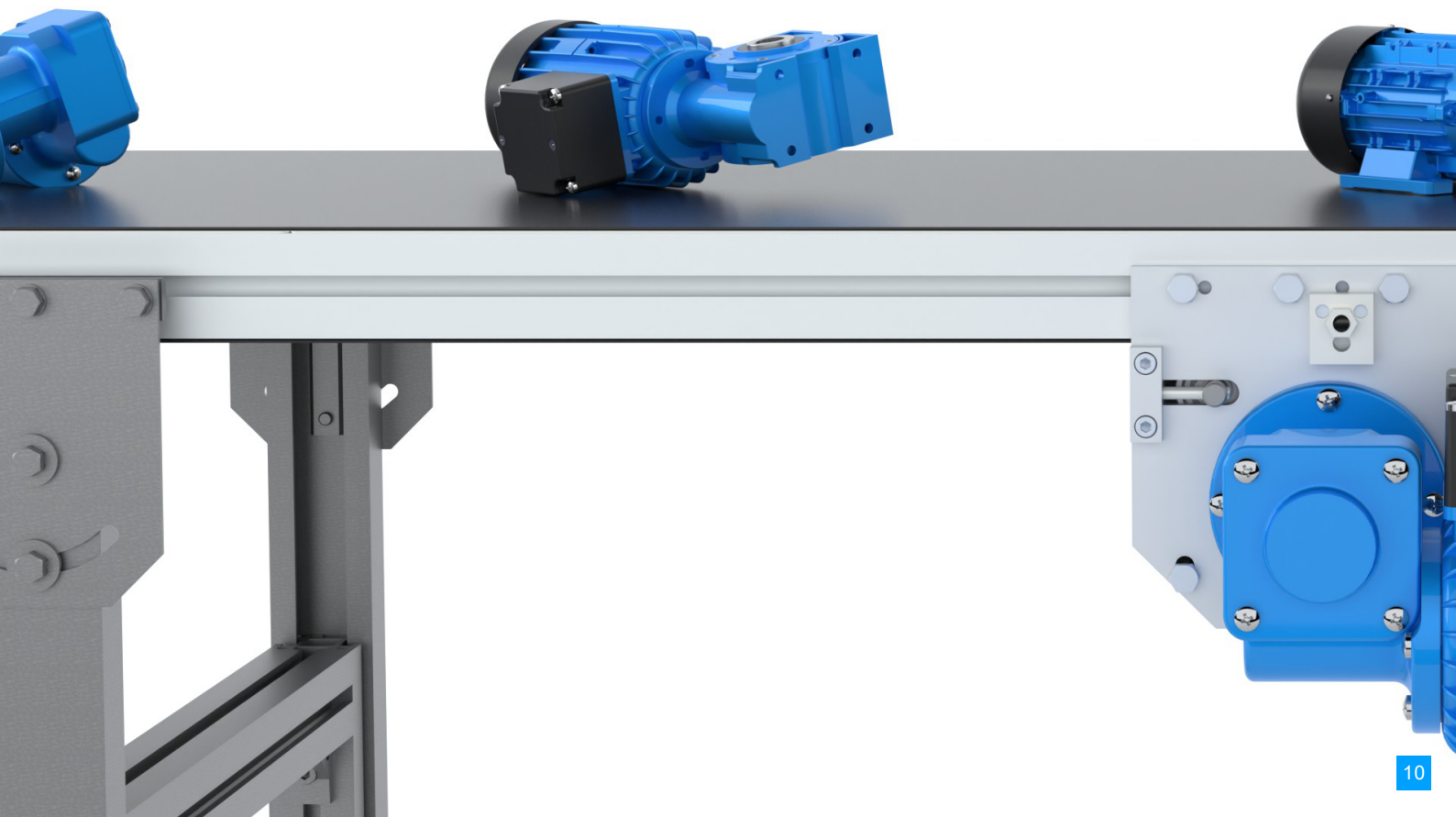
This allows you to view all gearbox-related information and documentation digitally.

Online. Simple. Secure.

PRODUCT.ID

Digital nameplate

Learn more at: www.productid.ruhrgetriebe.de





PRODUCT FINDER

Find the right product solution with just a few clicks

Learn more at: www.ruhrgetriebe.de/produktfinder

Smart drive matching: Discover our digital product finder

Are you looking for a guided tour through our entire standard product portfolio or do you need CAD data of our standard geared motors?

Discover our digital product finder for geared motors - the ideal solution for finding the right option for your requirements from a wide range of drive options.

Find the perfect drive solution: Use our digital product finder for our modular geared motors

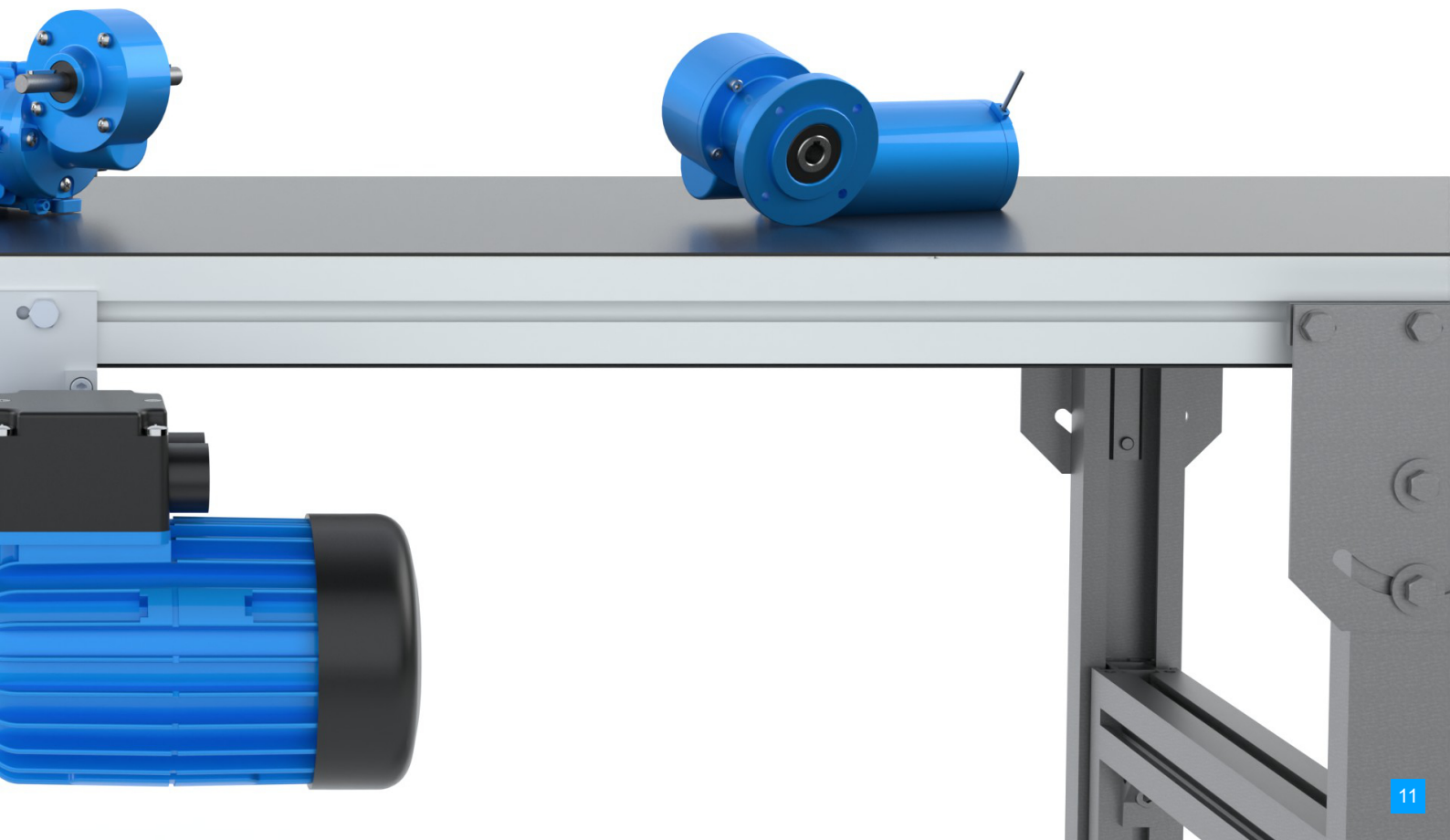
Thanks to an intuitive user interface and user-friendly functions, you can enter the desired parameters such as power, speed, gear type and much more. The product finder then automatically searches our extensive database to select the appropriate geared motors that meet your requirements.

The results are clearly presented and provide you with detailed information on each selected geared motor, including technical data sheets, CAD drawings and other

relevant documentation. This allows you to make informed decisions and ensure that you get the perfect drive solution for your application.

Our digital product finder thus not only offers you a time-saving way to find the right geared motor, but also gives you a comprehensive insight into the technical features of our products. Benefit from a precise and efficient selection and find the ideal drive solution for your project with ease.

Experience our digital product finder today and simplify your selection process for geared motors. Discover the variety of options and make informed decisions for optimal performance of your applications.





RUHRGETRIEBE

YOUR DRIVING FORCE.

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Worm gearbox
Planetary gearbox
Helical gearbox
SpeeroX gearbox

