



SIEMENS SIMOGEAR GEARED MOTORS

A new day has come for motion systems



The SIMOGEAR range

SIMOGEAR Helical geared motors

- 8 sizes
- Z19 & Z29 : 2-stage
D19 & D29 : 3-stage
- Torque -> 140 Nm
- Rated power -> 3 kW
- Transmission ratio from 3,49 to 217,89 /1
- Aluminium housing
> **Reduced weight**
- Extremely compact

- Z39 & Z189 : 2-stage
- Torque -> 1680 Nm
- Rated power -> 15 kW
- Transmission ratio from 3,43 to 57,36 /1
- Cast iron housing

- D39 & D189 : 3-stage
- Torque -> 1680 Nm
- Rated power -> 15 kW
- Transmission ratio from 41,43 to 311,6 /1
- Cast iron housing

- Common features**
- 1 shaft Ø in standard version
 - Foot- or flange-mounted designs (tapped or plain holes)
 - 100% suitable with the main European manufacturer
 - IEC and NEMA motors suitable

SIMOGEAR Parallel shaft geared motors

- 8 sizes
- FZ29 : 2-stage
FD29 : 3-stage
- Torque -> 150 Nm
- Rated power -> 3 kW
- Transmission ratio from 4,00 to 298,58 /1
- Aluminium housing
> **Reduced weight**
- Extremely compact

- FZ39 & FZ189 : 2-stage
FD39 & FD189 : 3-stage
- Torque -> 1850 Nm
- Rated power -> 15 kW
- Transmission ratio from 46,36 to 357,00 /1
- Cast iron housing

- Common features**
- Hollow shaft, output solid shaft, Shrink disk or splined shaft
 - Foot- or flange-mounted designs (tapped or plain holes) or torque arm
 - 100% suitable with the main European manufacturer
 - IEC and NEMA motors suitable

SIMOGEAR Bevel geared motors

- 10 sizes
- B29, B39, B49 : 2-stage
- Torque -> 450 Nm
- Rated power -> 7,5 kW
- Transmission ratio from 3,47 to 59,28/1
- Aluminium housing
> **Reduced weight**
- Extremely compact

- 10 K39 & K189 : 3-stage
- Torque -> 130 Nm
- Rated power -> 15 kW
- Transmission ratio from 5,17 to 244,25/1
- Cast iron housing

- Common features**
- Hollow shaft, output solid shaft, Shrink disk or splined shaft
 - Foot- or flange-mounted designs (tapped or plain holes) or torque arm
 - Reduced noise
 - Suitable with the most European manufacturer
 - IEC and NEMA motors suitable

SIMOGEAR Worm geared motors

- 5 sizes
- C29
- Torque -> 95 Nm
- Rated power -> 1,5 kW
- Transmission ratio from 6,48 to 265,2/1
- Aluminium housing
> **Reduced weight**
- Extremely compact

- C39 & C89 : 3-stage
- Torque -> 1410 Nm
- Rated power -> 9,2 kW
- Transmission ratio from 6,48 to 363,00/1
- Cast iron housing

- Common features**
- Hollow shaft, output solid shaft or Shrink disk
 - Foot- or flange-mounted designs (tapped or plain holes) or torque arm
 - Suitable with the most European manufacturer
 - IEC and NEMA motors suitable

Relevant assets in Portfolio

- Additional sizes and well rounded scheduling to minimize disparities between different shaft heights
> **More accurate sizing**
- High efficiency: 96% efficiency for 2-stage gearbox – from this point of view the best level available on the market
- Reduced noise by peripheral speed reducing in the first stage
- Easily integrable due to compatibility with the IEC norms (flanges, torques, shafts heights and diameter, 100% identical fittings)
- Ease of use by compact form and reduces weight, even in small areas
- Modular system optimised with less components
- Improved tightness on output shafts according to the different applications
- High efficiency motorisation from IE2 class

OUR ASSETS

- Improved rated torque for unchanged size
- Transmittable power from 0.09 to 15Kw
- 100% suitable conception with main constructors
- Modular design
- Certified Siemens Assembly- and Repair-Center; Belgian exclusivity
- Engine overhaul and repair; at your location or ours; by our qualified technicians
- Exclusive access to the Siemens tools
- Motor- and transmission spare parts distribution
- Technical support of:

SIEMENS

GOOD TO KNOW...

Look at our product sheets about MOTOX geared motors; transmission (belts, pulleys, sprockets, taper-bushes, couplings) and our geared motors workshop capabilities.

Visit us at www.abm-tecna.be



« GEARED MOTOR » INTEGRATED WORKSHOP

Motor and geared motor revisions



ABM TECNA, certified Siemens Assembly Center

Our SIMOGEAR mounting table

Type	Size	39		49		59		69		79		89		109		129		149		169		189	
		D x L	D x L	D x L	D x L	D x L	D x L	D x L	D x L	D x L	D x L	D x L	D x L	D x L	D x L	D x L	D x L	D x L	End 2015	2016			
Helical	Z/D	Solid shaft : 25x50		30x60		35x70		35x70		40x80		50x100		60x120		70x140		90x170		110x210		90x170	
		Solid shaft : 25x50		30x60		35x70		35x70		40x80		50x100		60x120		70x140		90x170		110x210		90x170	
Z/D F		Flange : 120 or 160 or 200		140 or 160 or 200		160 or 200 or 250		200 or 250		250 or 300		300 or 350		350 or 450		350 or 450		450 or 550		450 or 550		550 or 660	
		Hollow shaft : 30		35				40		40		50		60		70		90		100		120	
Parallel	FZAD	Torque arm : ✓		✓				✓		✓		✓		✓		✓		✓		✓		✓	
		Solid shaft : 25x50		30x60				35x70		40x80		50x100		60x120		70x140		90		110x210		120x210	
Bevel	KF	Solid shaft : 25x50		30x60				35x70		40x80		50x100		60x120		70x140		90		110x210		120x210	
		Flange : 160		200				250		250		300		350		450		450		550		660	
KAD		Hollow shaft : 30		35				40		40		50		60		70		90		100		120	
		Torque arm : ✓		✓				✓		✓		✓		✓		✓		✓		✓		✓	
KAF (axis & flange)		Hollow shaft : 30		35				40		40		50		60		70		90		100		120	
		Flange : 160		200				250		250		300		350		450		450		550		660	
Worm	C	Solid shaft : 25x50		20x30				35x70				45x90											
	CA	Hollow shaft : 25 or 30		30 or 35				40 or 45				50 or 60											
CF		Solid shaft : 25x50		30x60				35x70				45x90											
		Flange : 160		200				200				250											
CAD		Hollow shaft : 25 or 30		30 or 35				40 or 45				50 or 60											
		Torque arm : ✓		✓				✓				✓											
CAF		Hollow shaft : 25 or 30		30 or 35				40 or 45				50 or 60											
		Flange : 160		200				200				250											

K4-Adaptor (size)	112	132	132	132	160	180	225	250	250	280	315
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Oil	Standard mineral ISO VG220, Synthetique ISO VG460, Food industry										
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* Contact us

Motors

Motor revisions does enclose following standard operations :

- Unity identification: characteristics control, brand, type, serial number, power, speed, tension, mounting position, protection class, accessories,...) ;
- Dismantling, electrical- mechanical- and metrological controls ;
- Bearings tolerance check on the shaft and on the flanges ;
- Seal and bearings replacement ;
- Winding control and cleaning ;
- F-Class insulation ;
- Reassembly, re-connection, complete check and tests ;
- Painting and finishing.

Various services we also offer :

- Mounting or changing of B5 and B14 flanges ;
- Mounting of: forced cooling; special bearings, temperature thermistors, pulse tachos, ... ;
- Shaft Ø modification ;
- Terminal block remove and cable output, epoxy treatment,...

Geared motors

Geared Motor revisions does enclose following standard operations:

- Unity identification: motor and gear unit characteristics control, brand, type, serial number, power, speed, tension, mounting position, protection class, reduction factor, accessories,...) ;
- Dismantling and global revision of motor (see previous) ;
- Dismantling of gear unit ;
- Mechanical checks and bearing extraction
- Housing control, oil change and cleaning ;
- Bearings seat and tolerance check on the shaft and on the flanges ;
- Pinions, bearings and winding control
- Reassembly of the gear unit ;
- Test bench control ;
- Global revision reporting including general statement of the unit, performed operations, ...

OUR ASSETS

- ABM TECNA supplies, fits and revises
- “A la carte” contracts possibilities: supplying, revisions, tests, reassembly, laser alignment, end-to-end fleet management
- Experienced and continuous trained staff; able to work in our or in your facilities
- Certified Siemens Assembly- and Repair-Centre; Belgian exclusivity
- Technical support of our partners !

GOOD TO KNOW...

Look at our product sheets about motors, variators, geared motors, transmission components (belts, pulleys, sprockets, taper-bushes, couplings) and our geared motors workshop capabilities.

Visit us at www.abm-tecna.be



SIMOGEAR accessories portfolio witch can be mounted at ABM TECNA

MOTORS :	Couple		Torque		Brake	
	103	180	103	180	L4/1.4	L4/1.4
LE250-4	55					
LE225-4	45					
LE200-4	30					
LE180-4	22					
LE160-4	15					
LE132-4	9.2					
LE112-4	4					
LE100-4	3					
LE90-4	1.5					
LE80-4	0.75					
LA71-4	0.37					
LA63-4	0.18					
	0.09					
		1.4				
		2.0				
		3.0				
		4.0				
		5.0				
		3.0				
		4.0				
		5.0				
		6.3				
		8.0				
		10.0				
		8.0				
		10.0				
		13.0				
		16.0				
		20.0				
		14.0				
		18.0				
		23.0				
		32.0				
		40.0				
		25.0				
		38.0				
		50.0				
		60.0				
		80.0				
		100.0				
		60.0				
		80.0				
		100.0				
		125.0				
		150.0				
		100.0				
		145.0				
		180.0				
		200.0				
		240.0				
		260.0				

MOTORS :	Couple		Torque		Brake	
	103	180	103	180	L4/1.4	L4/1.4
LE250-4	55					
LE225-4	45					
LE200-4	30					
LE180-4	22					
LE160-4	15					
LE132-4	9.2					
LE112-4	4					
LE100-4	3					
LE90-4	1.5					
LE80-4	0.75					
LA71-4	0.37					
LA63-4	0.18					
	0.09					
		1.4				
		2.0				
		3.0				
		4.0				
		5.0				
		3.0				
		4.0				
		5.0				
		6.3				
		8.0				
		10.0				
		8.0				
		10.0				
		13.0				
		16.0				
		20.0				
		14.0				
		18.0				
		23.0				
		32.0				
		40.0				
		25.0				
		38.0				
		50.0				
		60.0				
		80.0				
		100.0				
		60.0				
		80.0				
		100.0				
		125.0				
		150.0				
		100.0				
		145.0				
		180.0				
		200.0				
		240.0				
		260.0				

IEC - B5 Flange mounted motors - IE2 1LA9/1LE10 - 1500Tr/min

CODE	MOTORS :	OPTION
1LA9/1LE10	1LA9	Manual brake release lever - H
	1LA9	Manual brake release lever with locking mechanism - A
	1LA9	Backstop
	1LA9	PTC thermostat for disconnection
	1LA9	Winding thermostat for disconnection
	1LA9	External fan
	1LA9	Canopy
	1LE10	PTC thermostat for disconnection
	1LE10	Winding thermostat for disconnection
	1LE10	230v anti-condensation heating
	1LE10	External fan
	1LE10	Canopy

■	> Available
□	> Not available at the time
-	> Does not exist

Situation at 04/08/2015 : our offer continually evolves ! Contact us in case of lack of availability