

PLANET GEAR SG.AL

The gears of the series **SG.AL** offer the designer a compact, economic and precise conversion of speed and torque in the machine.

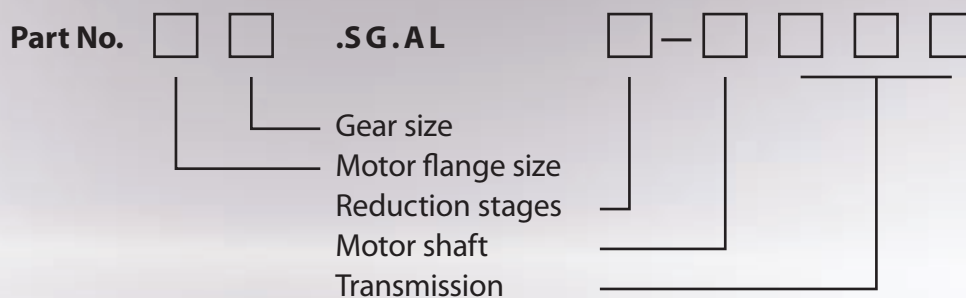
The design contains actual 4 sizes in 1 - and 2-step structure with rated output torque upto 100 Nm. The large reduction range permits an optimal adaption of motor and speed.

- high reliability and high overload security in series
- large gear ratio $i = 3 \dots 100$
- lifetime lubrication, maintenance-free
- small operating noises
- optimal efficiency $> 95 \%$
- output shaft with featherkey
- simple, direct motor connection, applicable for

DYNAMIC Line I and II



The economic gear in compact design!



Planet gears **SG.AL** AL with hardened, integrated gearing, high strength and precision at minimum dimensions offer furthermore:

Universal motor connection

to **DYNAMIC LINE** motors **I** and **II** with prepared motor flanges and clamping hubs.

Maintenance-free operation

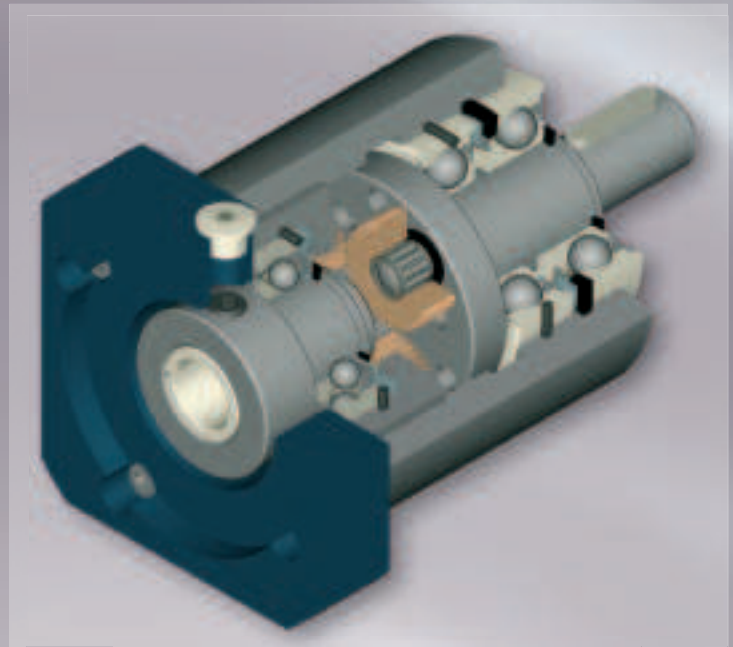
by lifetime grease packing means:
no service necessary!

Balanced properties

by precise, simple design mean good torsional backlash quality at smallest costs.

Reinforced output bearing

designed for high axial and radial force at small mounting location.



Mechanical allocation table servomotors / planetary gear

Motor sizes					Gear sizes			
Dynamic Line I	Flange Ø	Shaft	Hole circle Ø	Recess Ø				
A1 .. A4. SM.	55	9 x 20	63	40	A1.SG.AL	—	—	—
B1 .. B3. SM.0	70	11 x 23	75	60	B1.SG.AL	B2.SG.AL	—	—
C1 .. C4. SM.0	92	14 x 27	100	80	—	C2.SG.AL	C3.SG.AL	—
D1 .. D4. SM.0	110	19 x 30	115	95	—	—	D3.SG.AL	D4.SG.AL
E1 .. E4. SM.0	140	24 x 50	165	130	—	—	—	E4.SG.AL
Dynamic Line II	Flange Ø	Shaft	Hole circle Ø	Recess Ø				
A1 .. A4. SM.	55	9 x 20	63	40	A1.SG.AL	—	—	—
B1 .. B3. SM.0	90	14 x 23	100	80	—	C2.SG.AL	C3.SG.AL	—
C1 .. C4. SM.0	102	19 x 30	115	95	—	—	D3.SG.AL	D4.SG.AL
D1 .. D4. SM.0	140	24 x 40	165	130	—	—	—	E4.SG.AL

[Measures in mm]