

Precision gearbox brochure



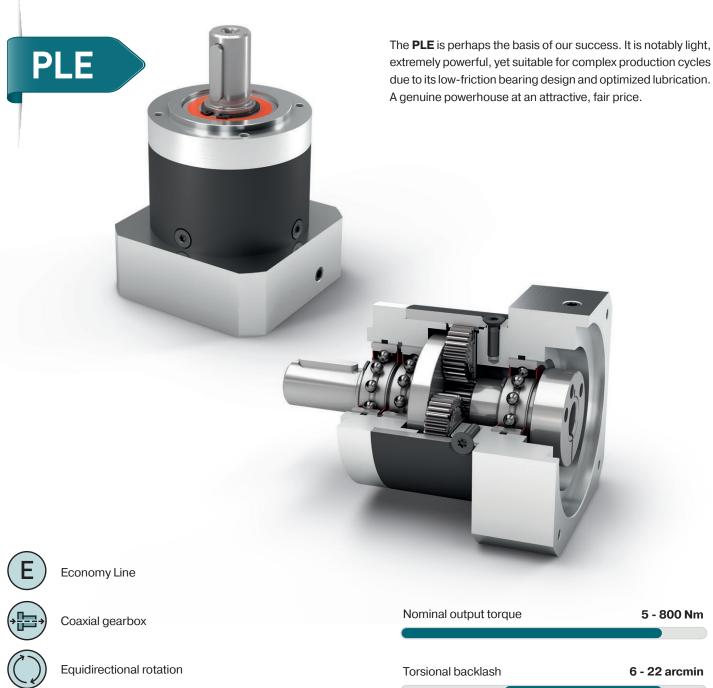




● For any mounting position

- Individual adaptation of the input flange to the motor
- Lifetime lubrication for maintenance-free operation
- Clamping systems with optimized mass moment of inertia
- High efficiency



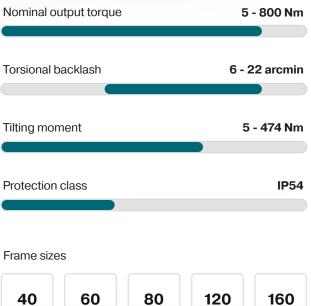


Spur gear

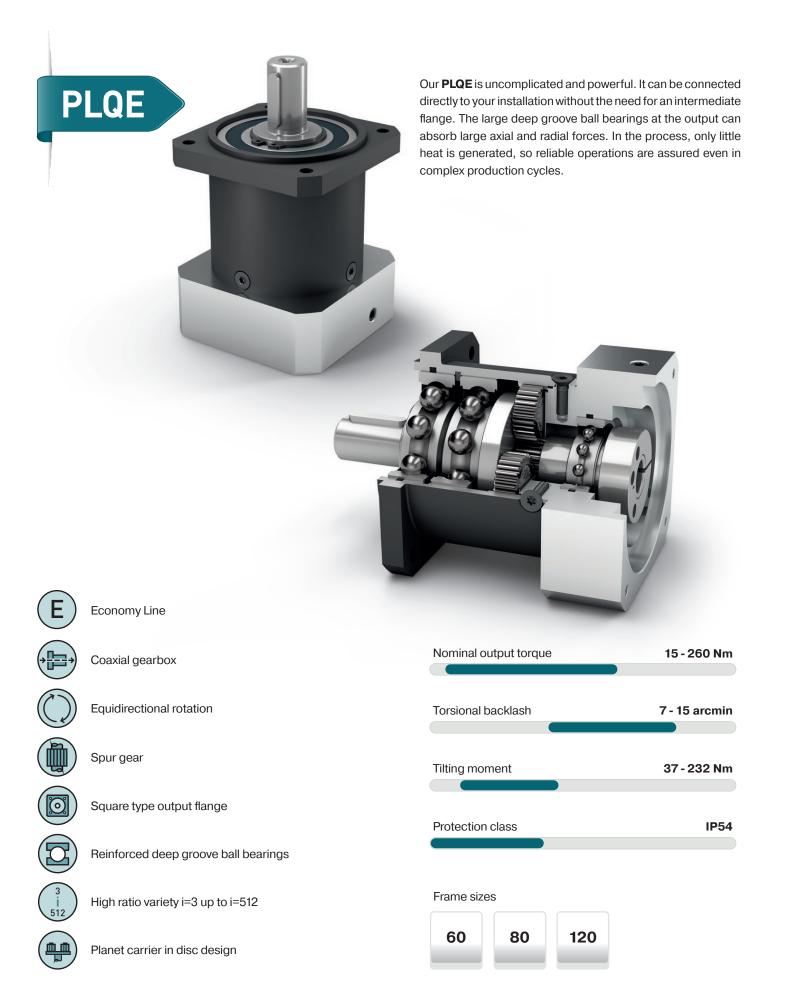
Round type output flange

Low-friction deep groove ball bearings

High ratio variety i=3 up to i=512













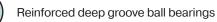
Economy Line

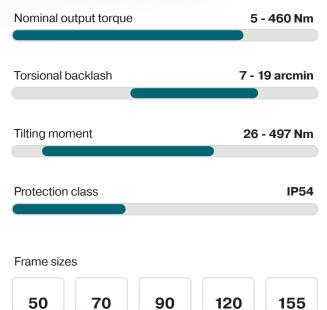
Coaxial gearbox

Equidirectional rotation

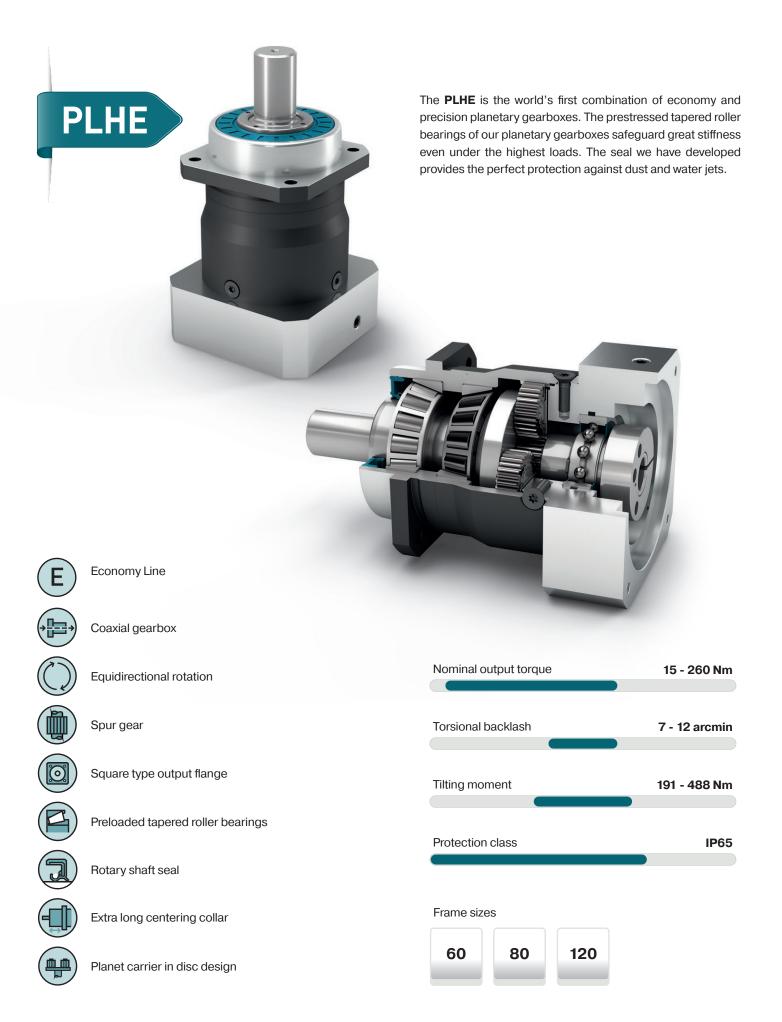
Spur gear

Round type output flange



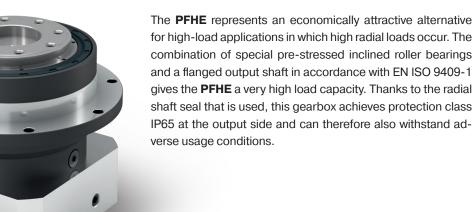






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Economy Line

Coaxial gearbox

Equidirectional rotation

Spur gear

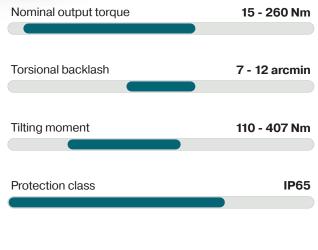
Extra large round type output flange

Preloaded angular contact roller bearings

Rotary shaft seal

Flange output shaft (ISO 9409)

Planet carrier in disc design



## Frame sizes

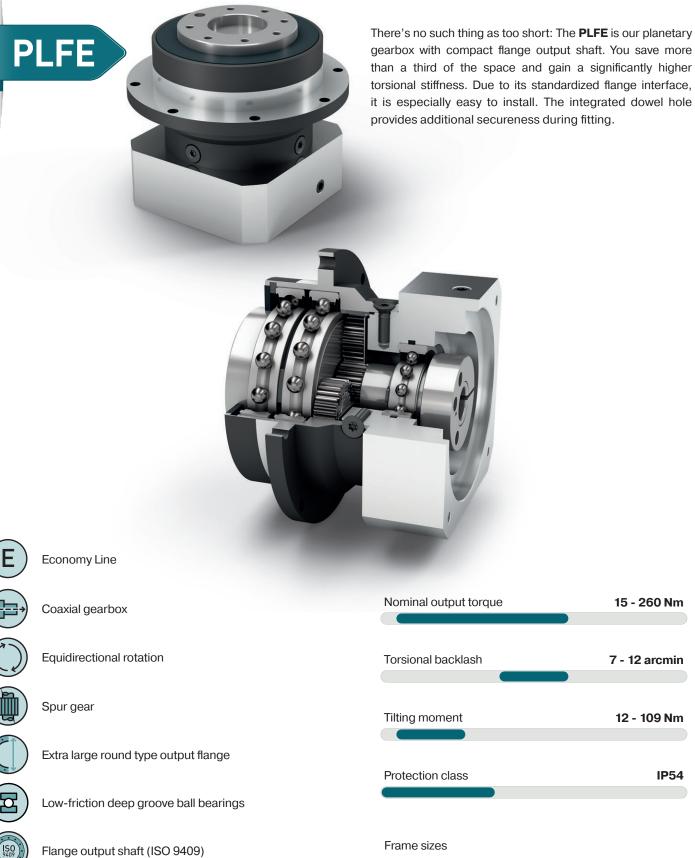




15 - 260 Nm

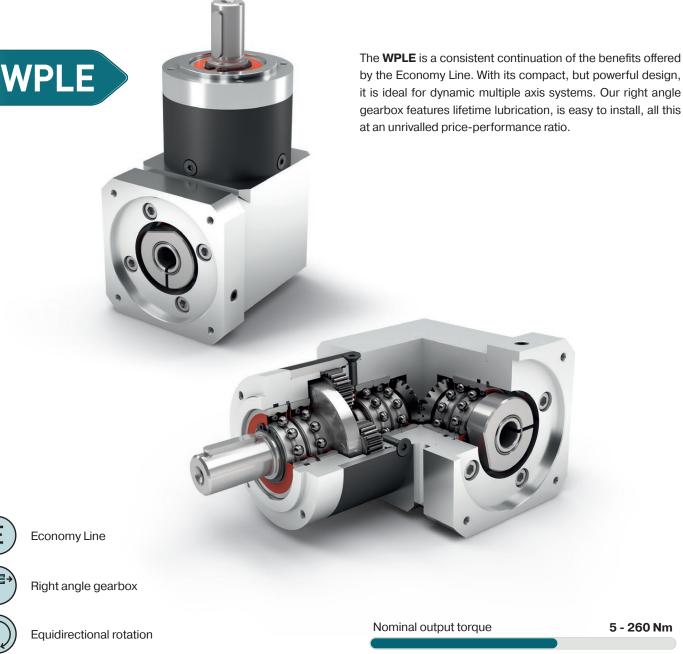
12 - 109 Nm

**IP54** 



64 90 110







Spur gear

Bevel gear right angle stage

Round type output flange

Low-friction deep groove ball bearings

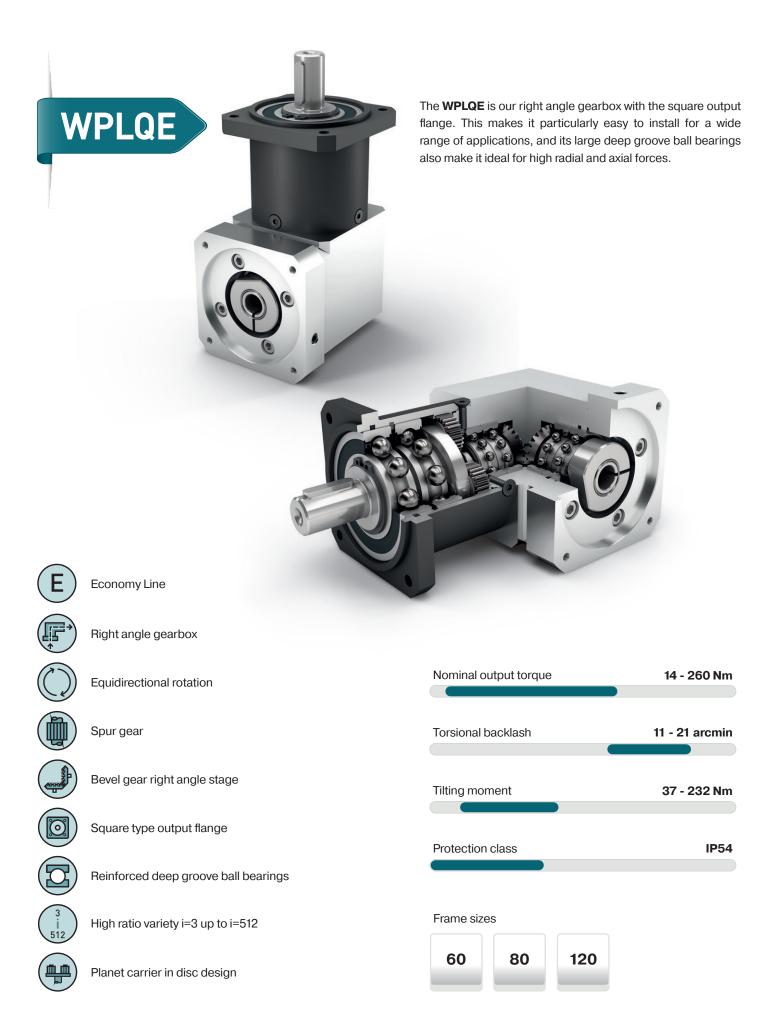
High ratio variety i=3 up to i=512

Planet carrier in disc design

Nominal output torque	5 - 260 Nm
Torsional backlash	11 - 28 arcmin
Tilting moment	5 - 101 Nm
Protection class	IP54
Frame sizes	

40

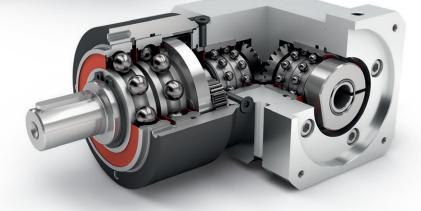








The **WPLPE** is the smart right angle solution from our Economy Line: Space-saving, and yet powerful at an attractive price. You install your drive elements directly on the output shaft and extract the maximum flexibility from your application.





Economy Line

Right angle gearbox

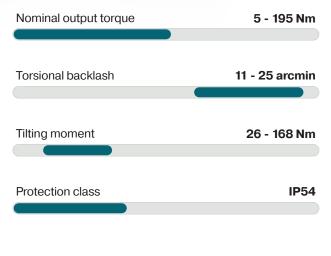
Equidirectional rotation

Spur gear

Bevel gear right angle stage

Round type output flange



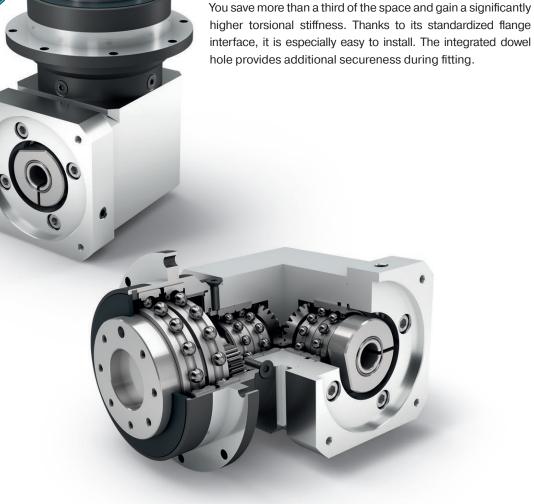






**WPLFE** 





Economy Line

Right angle gearbox

Equidirectional rotation

Spur gear

Bevel gear right angle stage

Extra large round type output flange

Low-friction deep groove ball bearings

Flange output shaft (ISO 9409)

Planet carrier in disc design

Nominal output torque	14 - 260 Nm
Torsional backlash	11 - 18 arcmin
<del></del>	
Tilting moment	12 - 109 Nm
Protection class	IP54

Thinking around corners even in tight spaces. The WPLFE is our

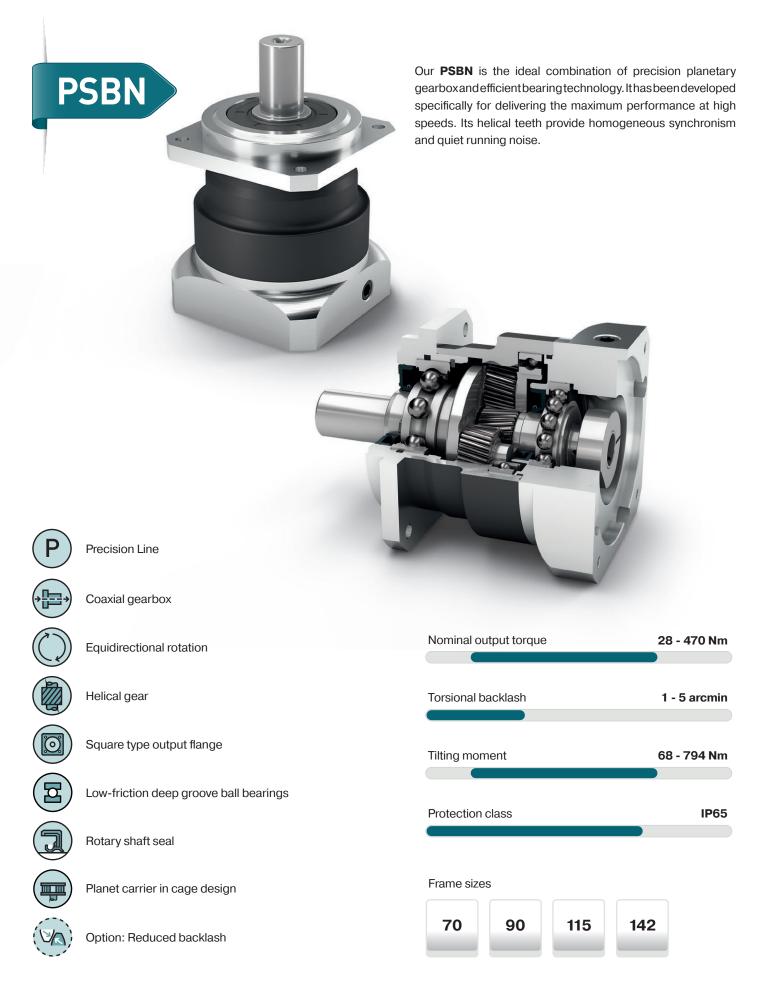
right angle planetary gearbox with compact flange output shaft.

## Frame sizes

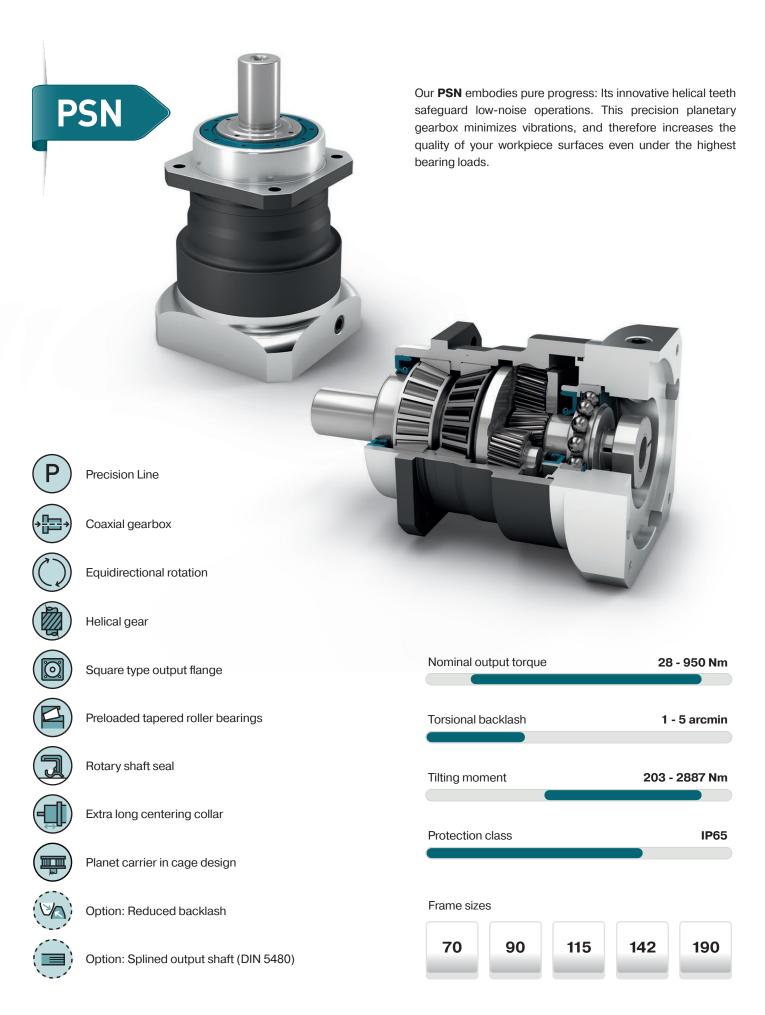


12

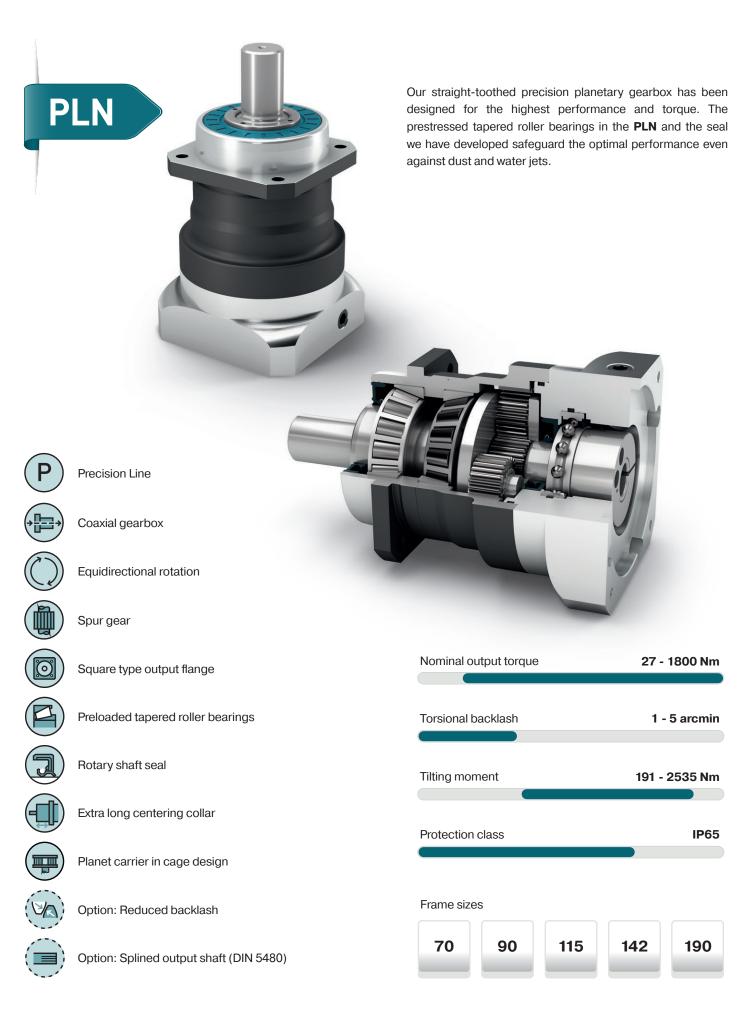




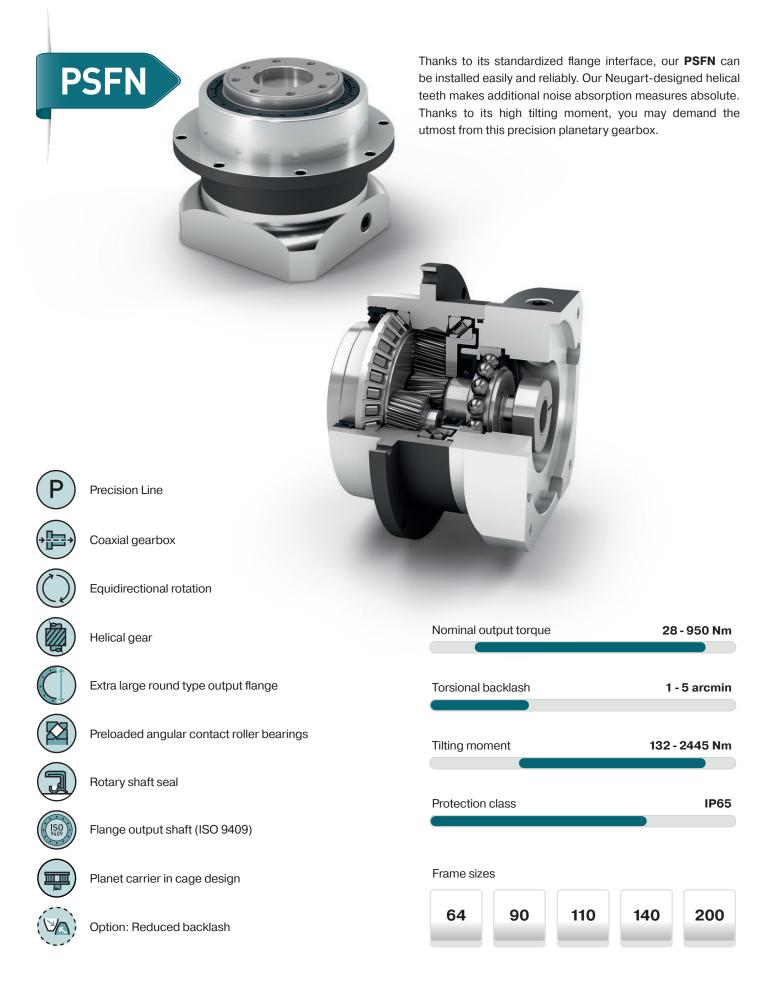






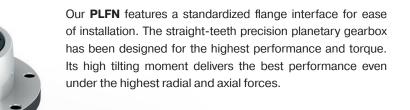






PLFN





**Precision Line** 

Coaxial gearbox

Equidirectional rotation

Spur gear

Extra large round type output flange

Preloaded angular contact roller bearings

Rotary shaft seal

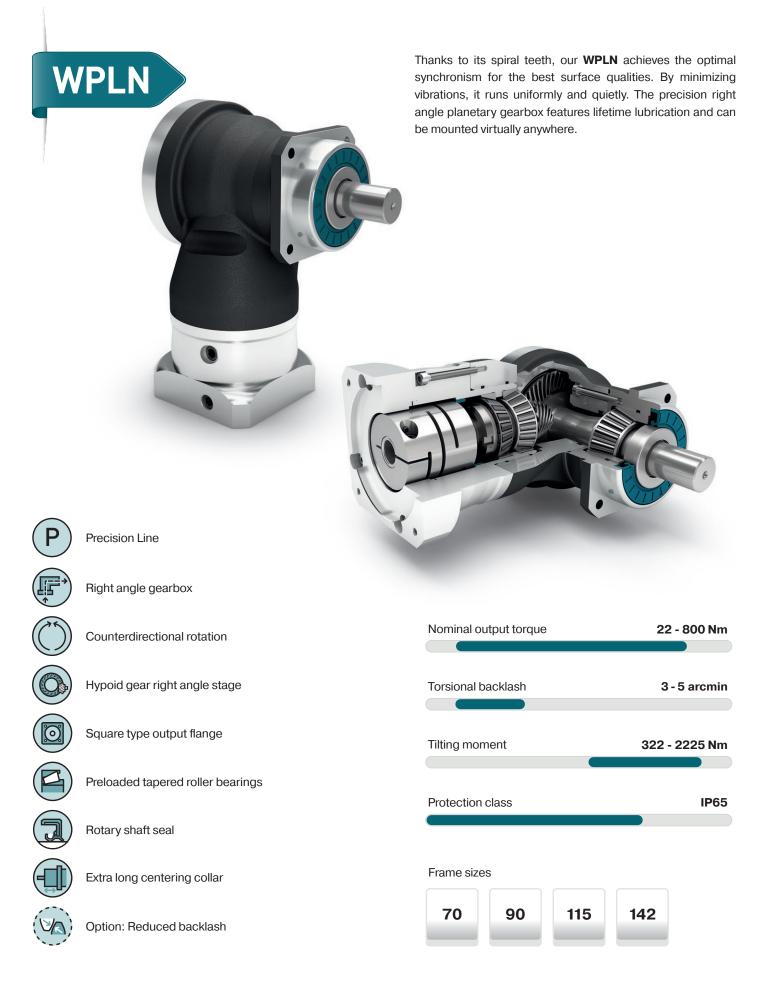
Flange output shaft (ISO 9409)

Planet carrier in cage design

Option: Reduced backlash

Nominal output t	orque	27 - 1800 Nm							
Torsional backlas	sh	1 - 5 arcmin							
Tilting moment	132 -	4957 Nm							
Protection class		IP65							
Frame sizes									
64 9	0 110	140	200						





**WPSFN** 

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**Precision Line** 

Right angle gearbox

Rotary shaft seal

Hollow shaft

Counterdirectional rotation

Hypoid gear right angle stage

Flange output shaft (ISO 9409)

Option: Reduced backlash

Extra large round type output flange

Preloaded angular contact roller bearings

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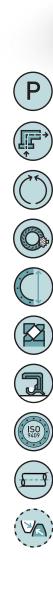
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64

90



 Nominal output torque
 22 - 625 Nm

 Torsional backlash
 3 - 5 arcmin

 Tilting moment
 132 - 1989 Nm

 Protection class
 IP65

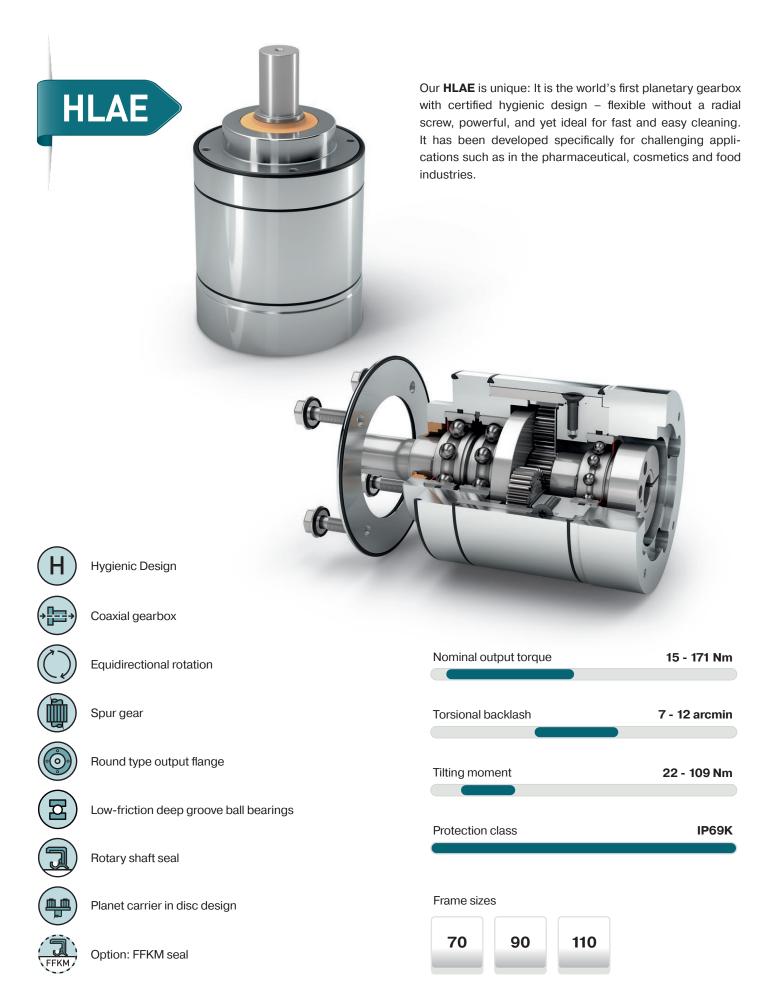
110

140









# Performance classes



Economy ge	arboxes	Nominal output torque	Backlash	Bearing load	Protection class	Running noise	Input speeds	Torsional stiffness	Wide range of ratios
PLE									
PLQE									
PLPE									
PLHE			••==						
PFHE	TCO								
PLFE	TO								
WPLE									
WPLQE									
WPLPE									
WPLFE	To								

Precision gearboxes		Nominal output torque	Backlash	Bearing load	Protection class	Running noise	Input speeds	Torsional stiffness	Wide range of ratios
PSBN	I Co								
PSN									
PLN		<b></b>							
PSFN	10								
PLFN	<b>X</b> O								
WPLN									
WPSFN									
WGN									
Hygienic De	esign gearbox	Nominal output torque	Backlash	Bearing load	Protection class	Running noise	Input speeds	Torsional stiffness	Wide range of ratios
HLAE									

Custom made gearboxes





# Innovative and individual: Our custom made gearboxes.

Compact form and high performance, special construction requirements, food grade certification or individual design: We fulfill even your most complex requirements – in all sectors of machine building.

The qualified specialists of our engineering department design gearbox solutions and systems. According to your performance, price and quality needs.

Your benefit from innovation: We utilize our experience and at the same time take advantage of new developments, integrating them into our customer solutions.

Using modern design and development tools, applications from all areas of system design (for instance, printing presses, handling systems, die-cast machines and robot painting systems), medical engineering and model building are realized. For new perspectives.



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