

MAKING THE DECISIVE MOVE.



PLN, the new *NEUGART* high precision servo-gearhead

Replacing the Neugart PLS, PLV, PLS-HP

Note: as of Dec. 31 2009, PLS, PLV, PLS-HP will be made available only as a high quantity custom solution.



MAKING THE DECISIVE MOVE.

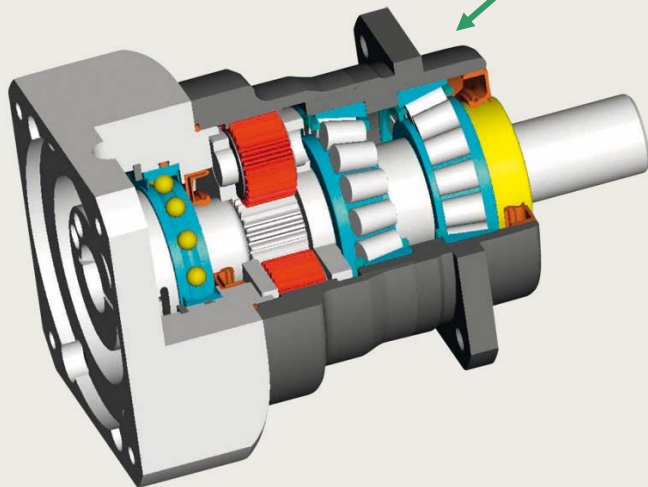
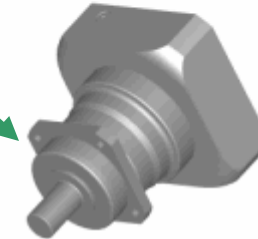
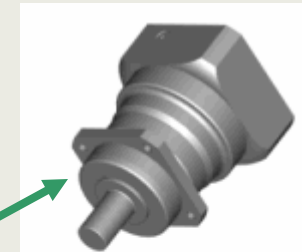
PLN main design features



Round body with two optional output faces:

Long piloted output (industry standard)

OP 14 option current
PLS style output



Neugart PLN offers a drop in compatibility for the previous Neugart PLS, PLV, PLS-HP units as well as compatibility to many competitors gearboxes

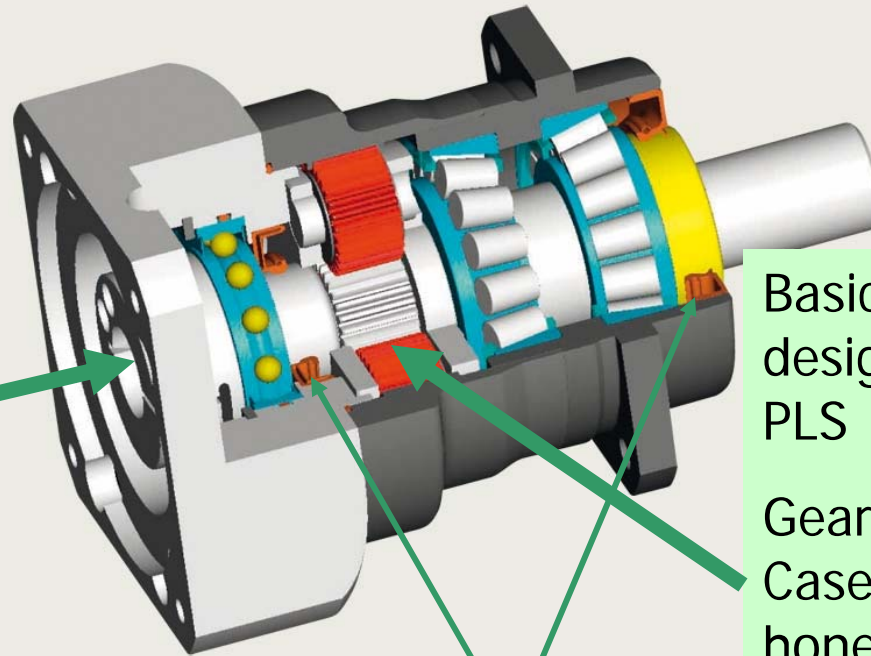


MAKING THE DECISIVE MOVE.

PLN main design features



One piece integrated motor shaft clamping arrangement - PCS-2- (not a separate clamping ring)



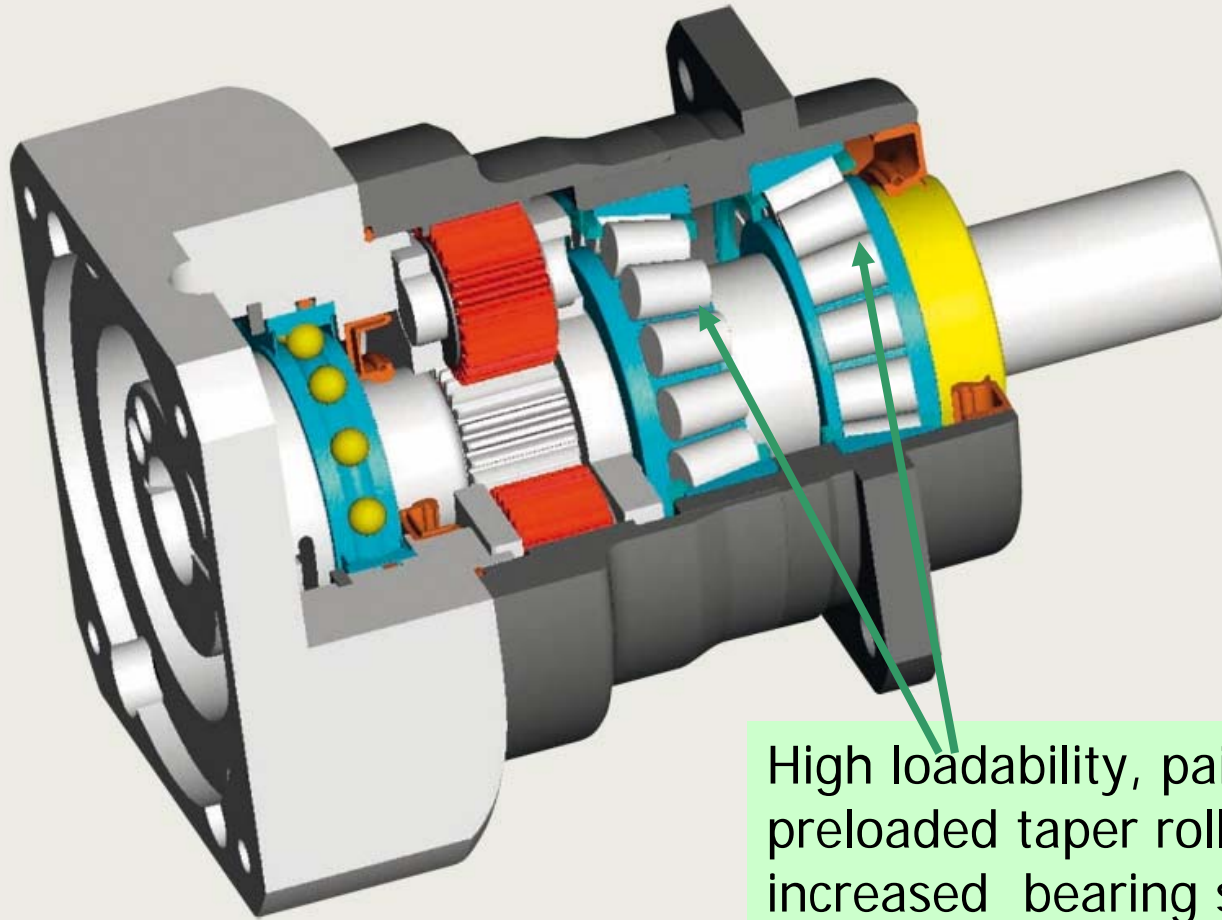
Double lip shaft seals;
Viton is standard

Basic internal design same as PLS

Gears:
Case hardened & honed, zero helix angle, increased face width , optimized crowning and tip relief

MAKING THE DECISIVE MOVE.

PLN main design features

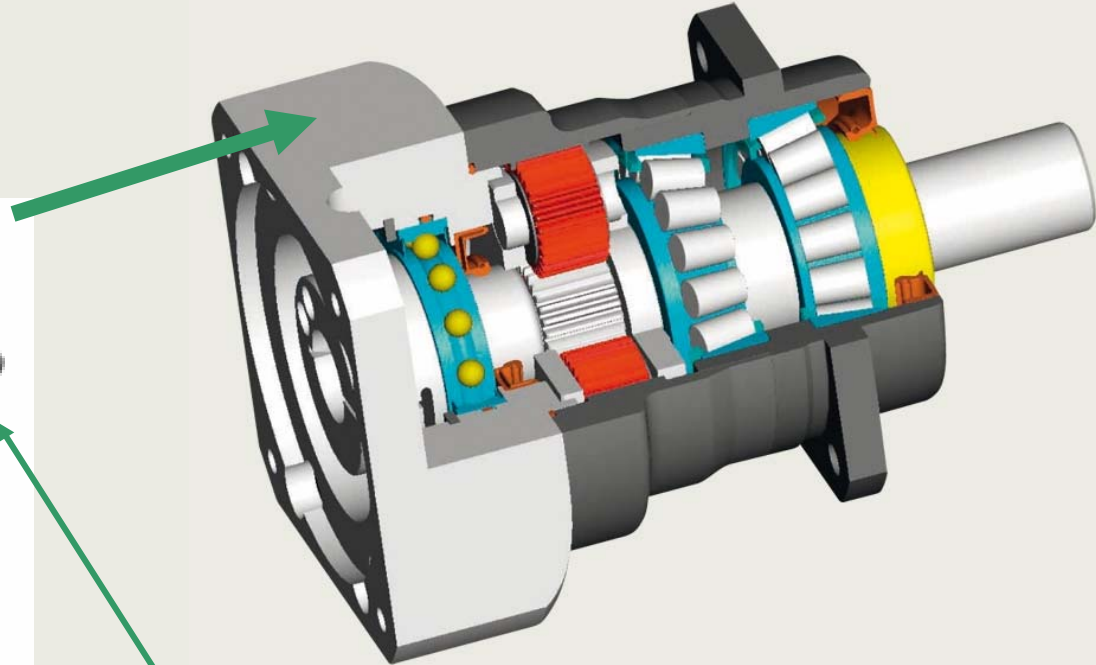
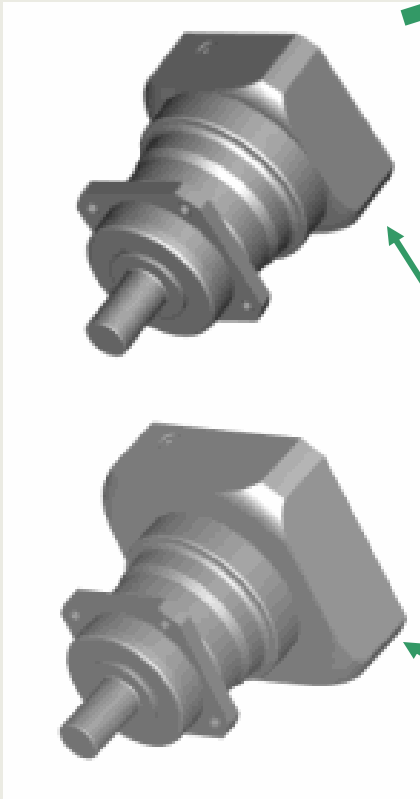


High loadability, paired set of preloaded taper roller bearings, increased bearing span, bearing in O - arrangement

MAKING THE DECISIVE MOVE.



PLN main design features



2 optional input sizes

for standard motor shaft diameters
and
for oversized motor shaft diameters

MAKING THE DECISIVE MOVE.



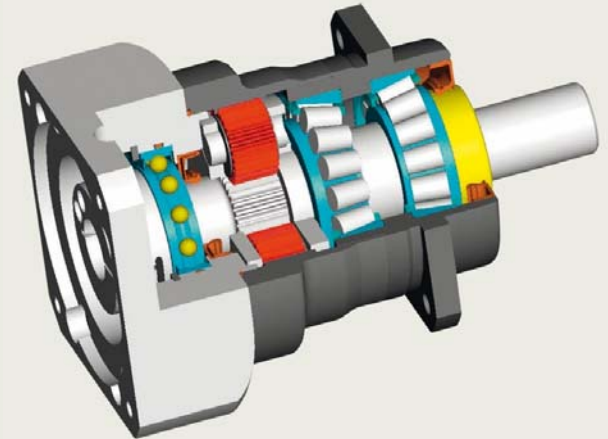
PLN main design features



Synthetic Oil lubricated for life
Oil filling for any mounting position
Optional oil change is possible

Gearbox modules are designed to facilitate an extra precise assembly procedure

Magnetic oil plug traps metallic particles

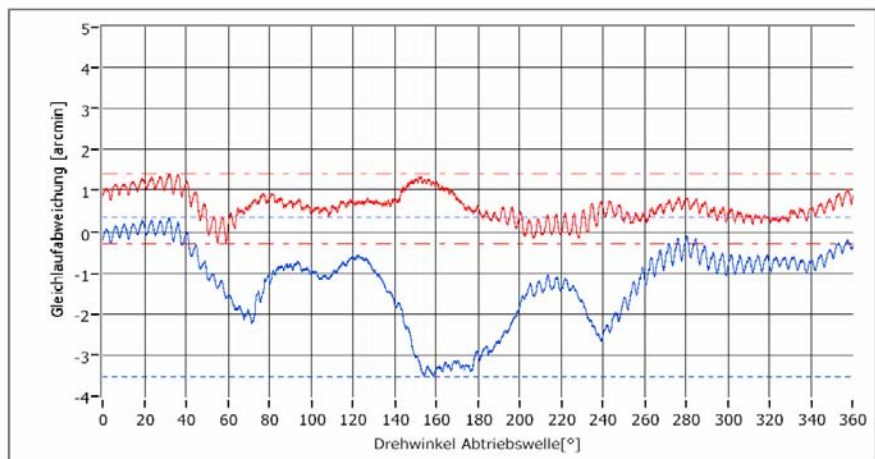


MAKING THE DECISIVE MOVE.



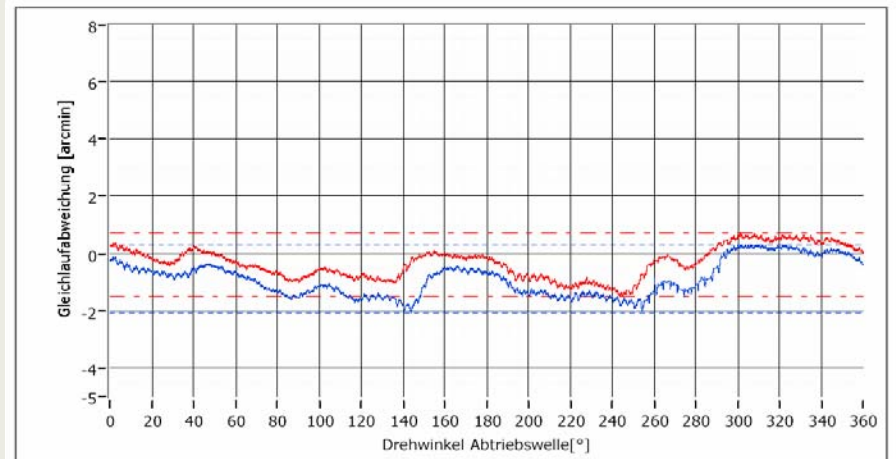
transmission error

Thanks to gear honing and enhanced assembly process
the transmission error is greatly reduced



Gleichlaufabweichung Hochlauf 3,9 arcmin Gleichlaufabweichung Runterlauf 1,69 arcmin

PLS



Gleichlaufabweichung Hochlauf 2,4 arcmin Gleichlaufabweichung Runterlauf 2,2 arcmin

PLN



MAKING THE DECISIVE MOVE.

enhanced performance features

Smoother run - lower noise and greatly reduced transmission error – due honed precision to more precise assembly

Reduced weight - due to round instead of square housing

Increased torque rating - thanks to optimized gears wider face width gears

Increased mounting flexibility – input available for standard and extra large motor shafts

Higher output shaft loadability / increased bearing life - increased bearing span

Dimensional compatibility with PLS/PLV/PLS-HP and most competitors units

MAKING THE DECISIVE MOVE.



some data and comparisons

available in 5 sizes (70/90/115/142/190)

same ratios as the PLS:

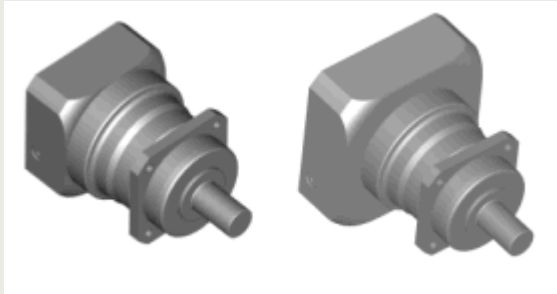
3, 4, 5, 8, 10, 12, 15, 16, 20, 25, 32, 40, 64, 100 :1

- up to 15% lower weight than PLS gerboxes
- up to 25% higher rated torque than the PLS; 40% higher than competitors comparable size units
- 50% lower transmission error
- higher input speeds
- accepts larger motor shafts
- easier motor mounting
- increased value (price / performance ratio)

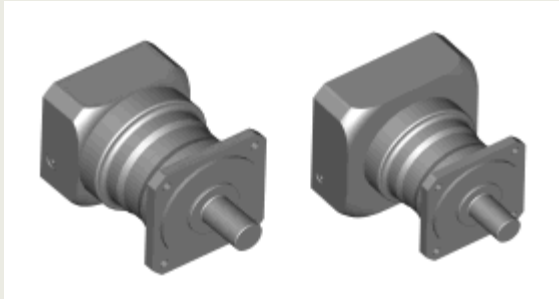
MAKING THE DECISIVE MOVE.



some options



- Outputshaft smooth-standard
- Keyed output shaft OP7-Option
- Custom output shaft OP8 –Option
- Long Piloted output flange
- Neugart classic PLS style output
- Motor input shaft standard diameter
- Motor shaft extra large diameter



Following PLS options are not (or not yet) available for PLN :

OP1-free standing input shaft

OP3- housing mounting

OP4- Foot mounting

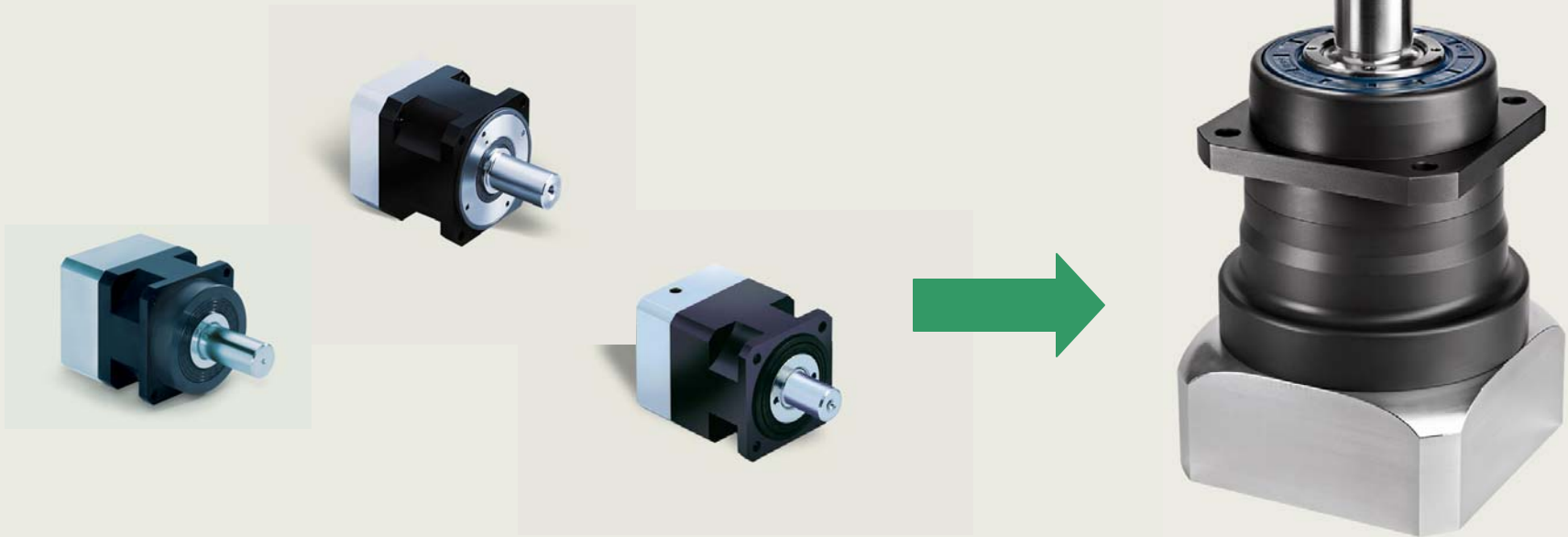
OP10-NIEC



MAKING THE DECISIVE MOVE.

PLS, PLS HP and PLV available until the end of
2009

PLN is replacing PLS, PLV, PLS-HP



**Note: as of Dec 31. 2009; PLS, PLV, PLS-HP will be made available only
as a high quantity custom solution.**

