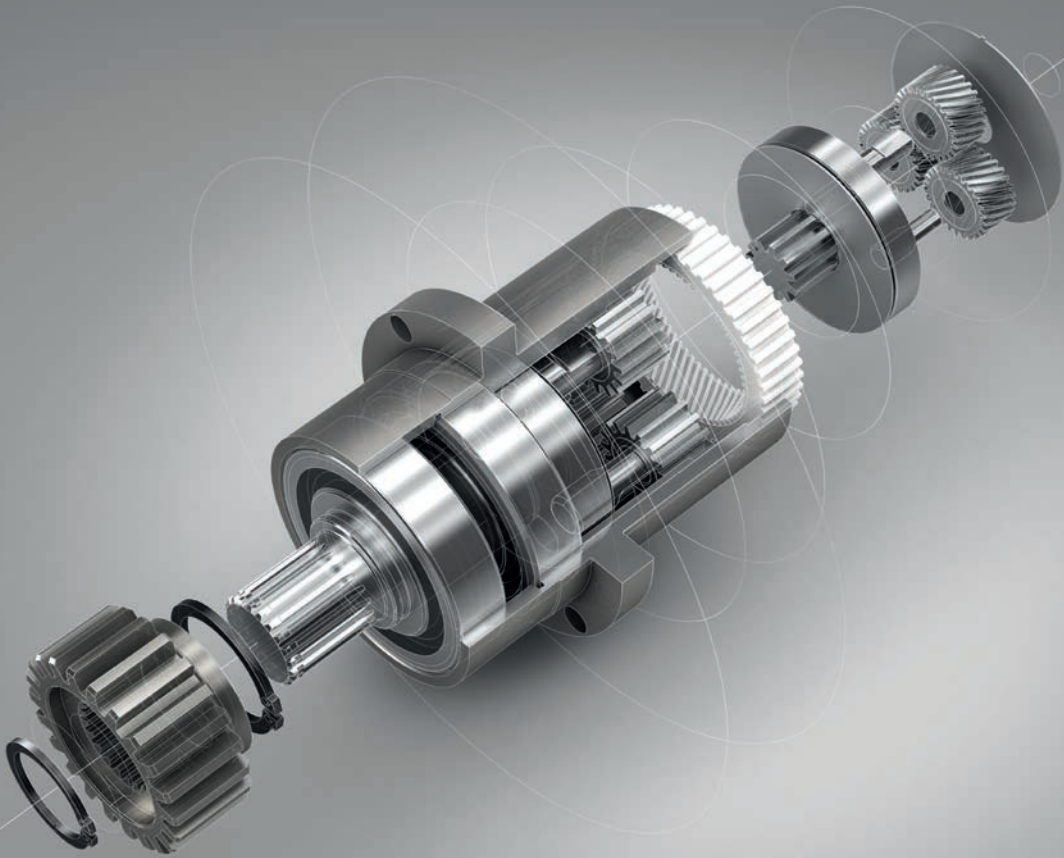


Specific optimized solutions for interbranch applications

# Planetary Gears IMS.**SD**line



Gear Technology. Worldwide.

**IMS:GEAR**



The IMS.SDline (SD = Special Design) is the specifically optimized solution for entire fields of application in the gear technology sector, and is in all respects the equal of any conventional customized development.

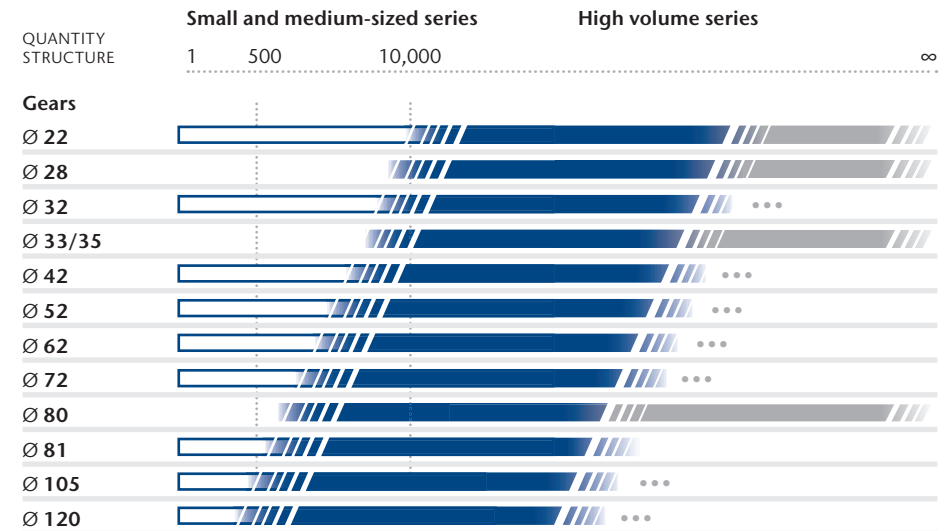
## Philosophy

**ATTENTION FOCUSED ON ENTIRE FIELDS OF APPLICATION** The IMS.SDline stands for specifically optimized solutions developed by IMS Gear for interbranch applications.

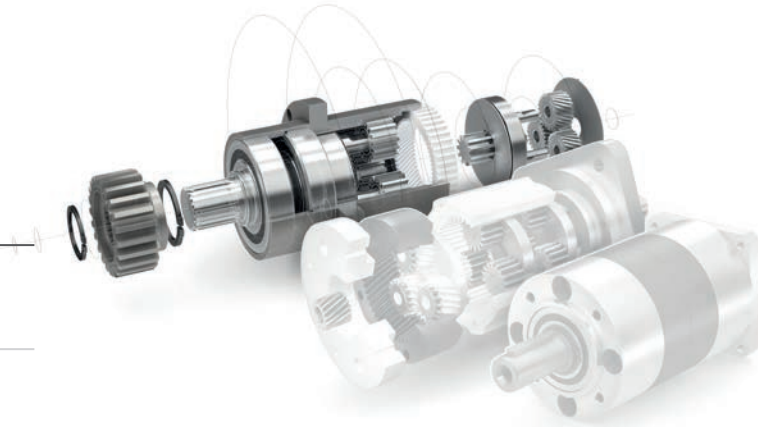
**IN CONTRAST TO** the modular systems of IMS.baseline and IMS.techline, the IMS.SDline system also enables the design of gear components to be modified, for example to reflect the changing needs of component geometry or materials. This makes it possible, while retaining an unmodified gear tooth profile, to achieve the highest possible levels of individualization.

## Always the optimum

	IMS.baseline	IMS.techline	IMS.SDline
MODIFICATION OPTIONS: —/✓			
Motor-/output end	✓	✓	✓
Geardrive diameter	—	✓	✓
Material mix	—	✓	✓
Reduction ratio	—	✓	✓
Geometry of toothed parts	—	—	✓
Material of toothed parts	—	—	✓
Tooth shape	—	—	—



**All figures are approximate values.** Variations are possible and may arise for example due to non-standardized inspection and measurement methods. For more detailed information, please contact us directly. The company always reserves the right to make technical modifications. For current status, please consult our website [www.imsgear.com](http://www.imsgear.com)



# Interaction

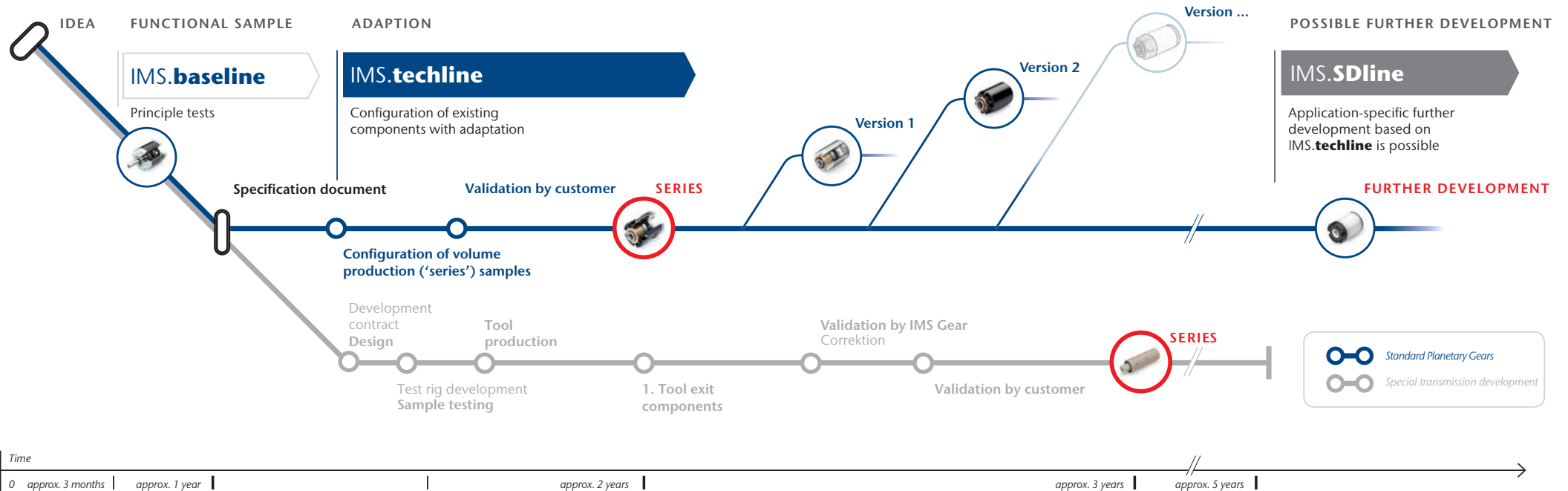
## The alternative to customized solutions

**WITH** IMS.SDline, IMS Gear is developing gear drive solutions for interbranch applications. These further developments are always worth considering whenever a product based on the IMS.techline modular system has been on the market for several years and technical requirements have become established in the application field.

IMS.SDline

IMS.techline

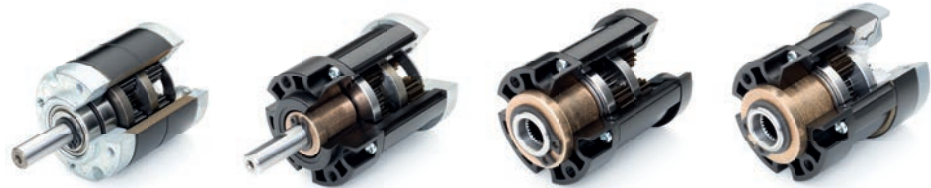
IMS.baseline



# Development of a spindle drive

## IMS.baseline

## IMS.techline



START VERSION Sample → VERSION 02 Sample → VERSION 03 Advance development → VERSION 04 in volume prod.

<b>PM 32</b> Initial functional samples	<b>PK 32</b> Optimization of price-performance ratio through the use of plastic	<b>PK 32</b> Customer-specific design of motor end and output end	<b>PK 32 LN</b> Optimization of acoustic properties through the use of 'low noise' components in the 1st stage
--------------------------------------------	------------------------------------------------------------------------------------	----------------------------------------------------------------------	-------------------------------------------------------------------------------------------------------------------

Motor-/output end	✓	✓	✓
Geardrive diameter	-	✓	✓
Material mix	-	✓	✓
Ratio	-	✓	✓
Geometry of toothed parts	-	-	-
Material of toothed parts	-	-	-
Tooth shape	-	-	-

VOLUME < 100

## IMS.SDline



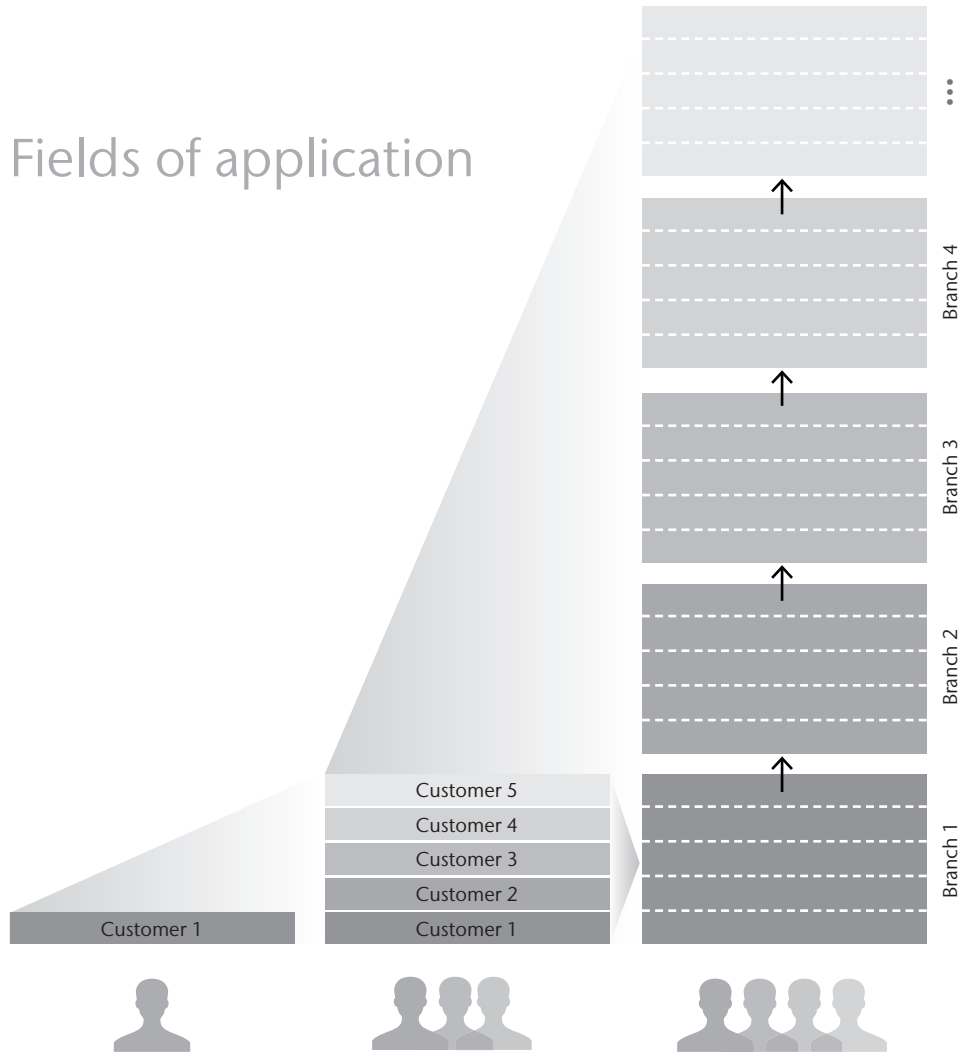
VERSION 05 in volume prod. → VERSION 06 in volume prod. → VERSION 07 in volume prod. → VERSION 08 New development

<b>PM 28 LN</b> Optimization of installation space through reduction of diameter to Ø 28	<b>PM 28 LN</b> Planetary gear carrier out of plastic	<b>PK 28 LN</b> Plastic Gear housing	<b>PK 28 LN-SD</b> IMS Gear development influenced by market and branch experiences like: • entirely plastic output • geometrically optimized gear components • specialist materials
---------------------------------------------------------------------------------------------	----------------------------------------------------------	-----------------------------------------	--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

✓	✓	✓	✓
✓	✓	✓	✓
✓	✓	✓	✓
✓	✓	✓	✓
-	-	-	✓
-	-	-	✓
-	-	-	-

> SEVERAL 1,000 PER VARIANT AND YEAR

## Fields of application



### IMS.baseline

Customer specific solution for function samples and small-volume series

### IMS.techline

Application specific solutions for high-volume series and different customers, for example spoiler-adjustment

### IMS.SDline

Specific optimized solutions for interbranch applications for example PK33 SD:

- spoiler-adjustment
- bed-adjustment
- roof window control
- ...

## The new freedoms with IMS.SDline

With its IMS.SDline, IMS Gear bridges the gap between the capabilities of IMS.techline and bespoke development of a customer-specific ‘special’ gear head.

That is achieved through the additional levels of freedom afforded by IMS.SDline in respect of:

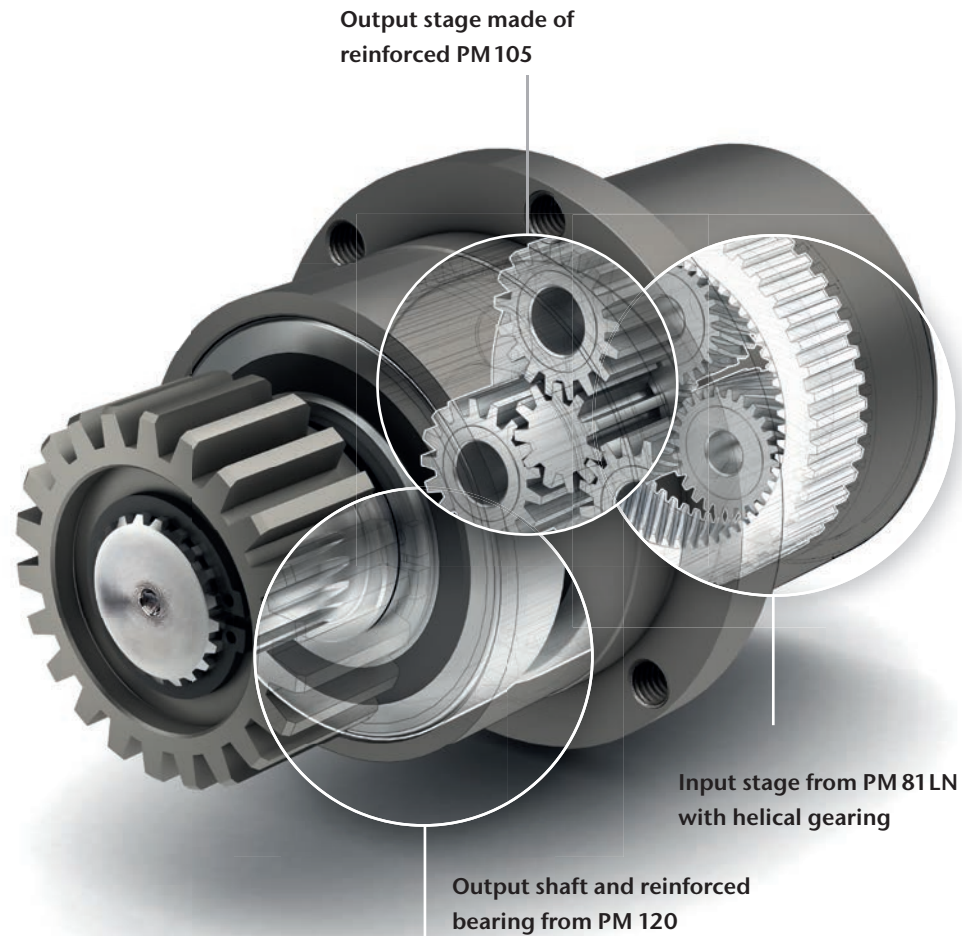
- Adaptation of geometry to suit gear components (e.g longer or shorter planetary gears, thicker bearing bolts, etc.)
- Extended choice of materials (e.g. thermoplastic elastomers, or high-temperature plastics)
- Combination of different product line diameters within a single transmission (e.g. PM 81 components in the 1st stage and PM 105 transmission components in the 2nd stage)

That enables IMS.SDline to eliminate the remaining module restrictions faced by IMS.techline. With one exception: The market-proven, special-purpose IMS Gear designs of gearing can also be used in IMS.SDline.

In this way, IMS.SDline gearing solutions provide an innovative response to the continuously rising expectations on price and performance of a global market for high-volume solutions aimed at a broad spread of market sectors:

- Great adaptability, comparable to bespoke or customized ‘special’ gear head development
- Short ‘time to market’ implementation lead times
- Low levels of investment through further development of the IMS.techline modules
- Proven IMS Gear designs for gear components

# PM 80 LN-SD

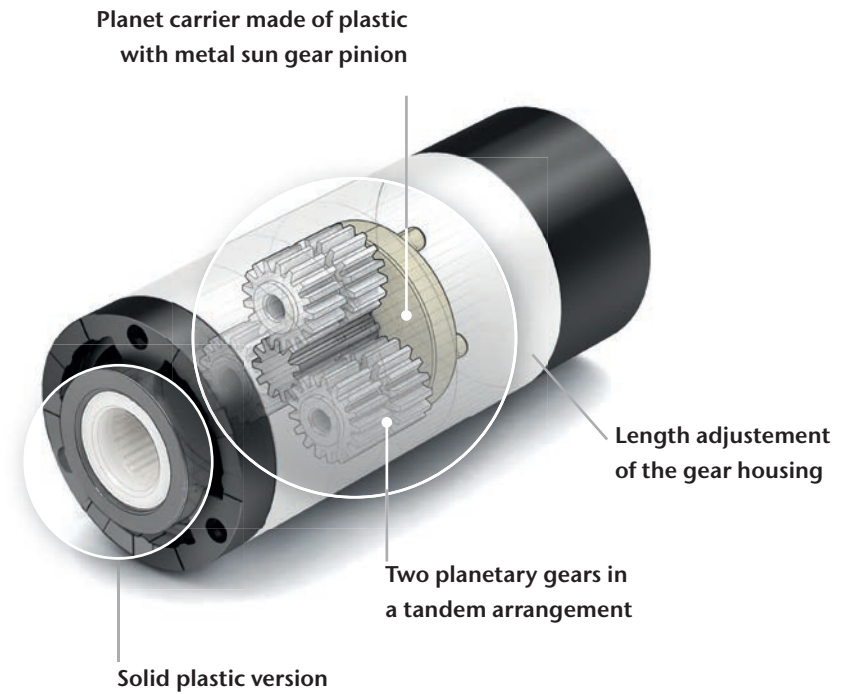


**Technical features**

- 2-stage
- 45:1
- approx. 105 Nm\*
- Material mix

\* The acceptable output torque for IMS.SDline gear drives is depending on the configuration and life time expectations.

# PK 22 SD



**Technical features**

- 2-stage
- 29:1
- approx. 1,8 Nm\*
- Material mix

## Our international locations

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