

Customized gear drives for high-volume series
based on a modular system

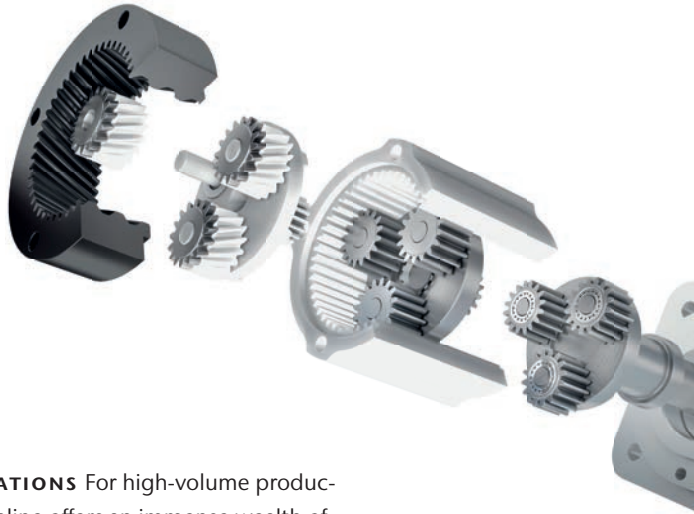
Planetary Gears IMS.techline



Gear Technology. Worldwide.

IMS:GEAR

Planetary gears from IMS.techline are the solution for high-volume production runs. Well over 10,000 configuration options as well as tool-saving adapter components for motor connection and output end deliver an immense wealth of possible combinations for virtually every field of application.



Philosophy

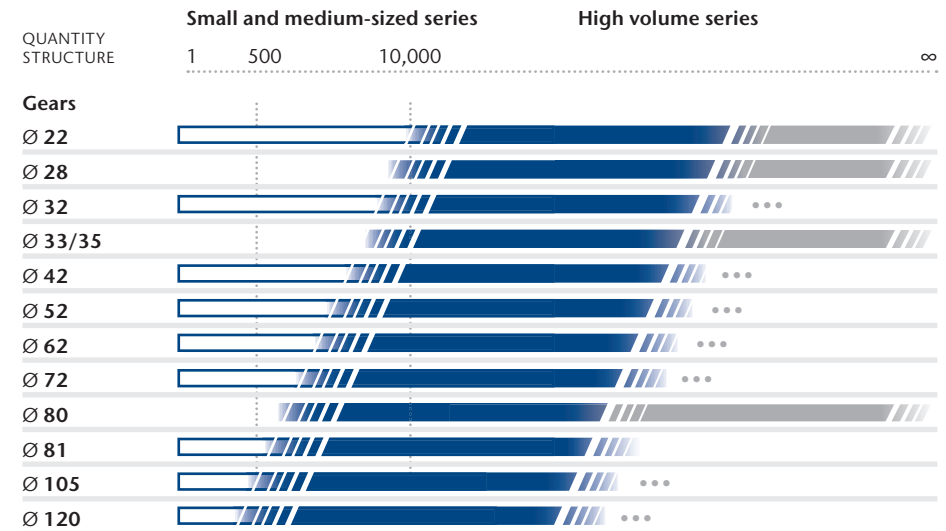
OPEN TO ADAPTATIONS For high-volume production runs, IMS.techline offers an immense wealth of possible combinations from its modular design system for metal and plastic components, suitable for a vast array of fields of application.

As well as adaptations for the motor and output end, examples being motor pinions, flanges or output shafts, IMS.techline can offer a varied range of reduction gears, diameter variants and material combinations involving the use of metal and plastic that extend to more than 10,000 possible combinations.

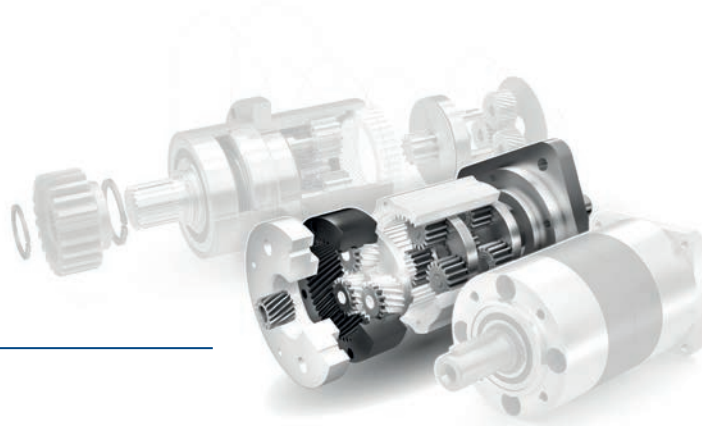
As well as the product-related performance capabilities of IMS.techline, we can if so desired provide a comprehensive and individual package of service and consultancy support that is tailored to suit individual customer needs.

Always the optimum

	IMS.baseline	IMS.techline	IMS.SDIline
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



Interaction

Fast and uncomplicated - into high-volume production

IMS.SDline

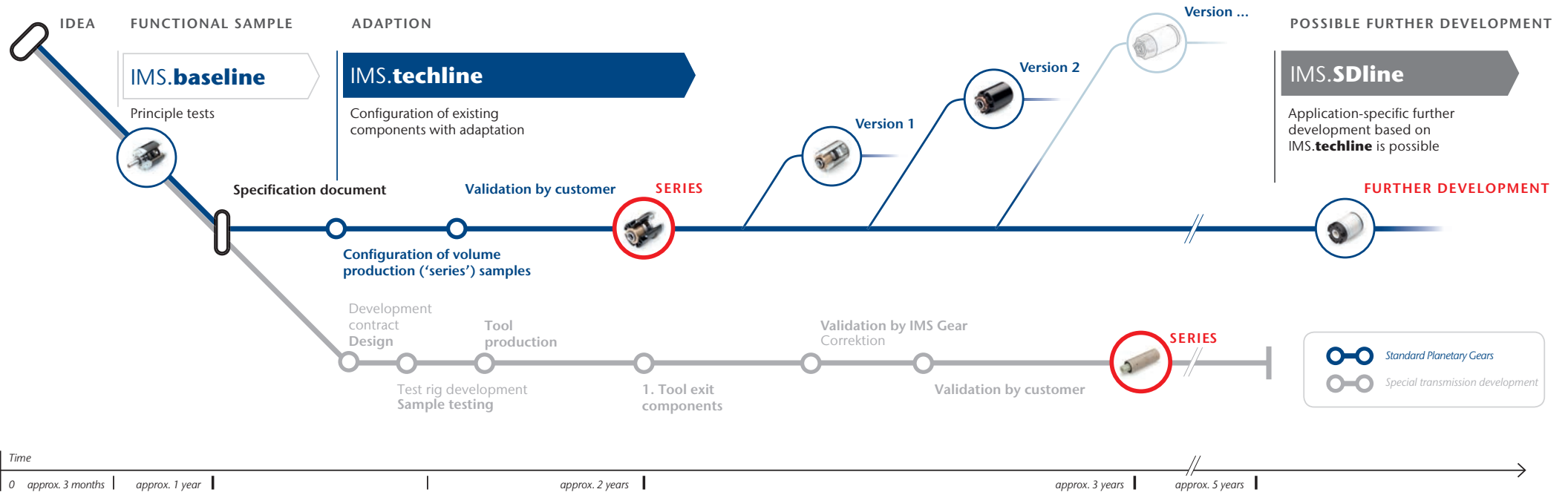
IMS.techline

IMS.baseline

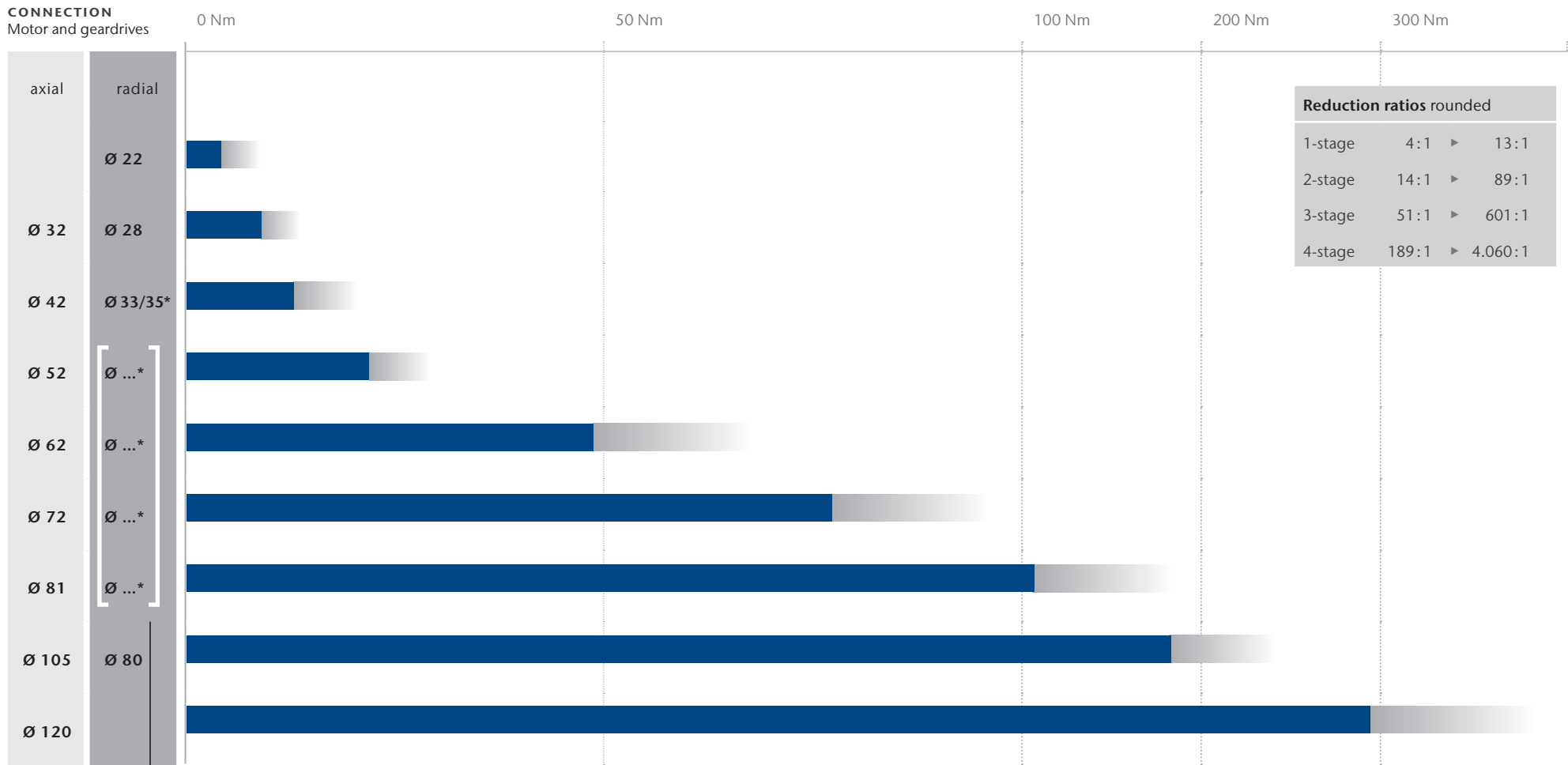
BASED ON EACH CUSTOMER SPECIFICATION, IMS Gear can tailor an appropriate high-volume production solution from its modular design system for planetary gears.

taking the fast lane to high-volume production. In contrast to a custom solution, there are no development costs in the configuration of IMS.techline, and this approach involves only a fraction of the tool costs otherwise incurred. Additionally it is not necessary to predetermine special technical specifications early in the process, which grants greater flexibility for further changes or developments.

Validation takes place on the customer's premises in the context of each specific application. That assures full functional compliance and saves time and money. There is then nothing to prevent our customers from



Maximum modularity in diameter, reduction ratio, output torque and material mix










* REDUCED OUTSIDE DIAMETER (OD) WITH RADIAL CONNECTION ON REQUEST

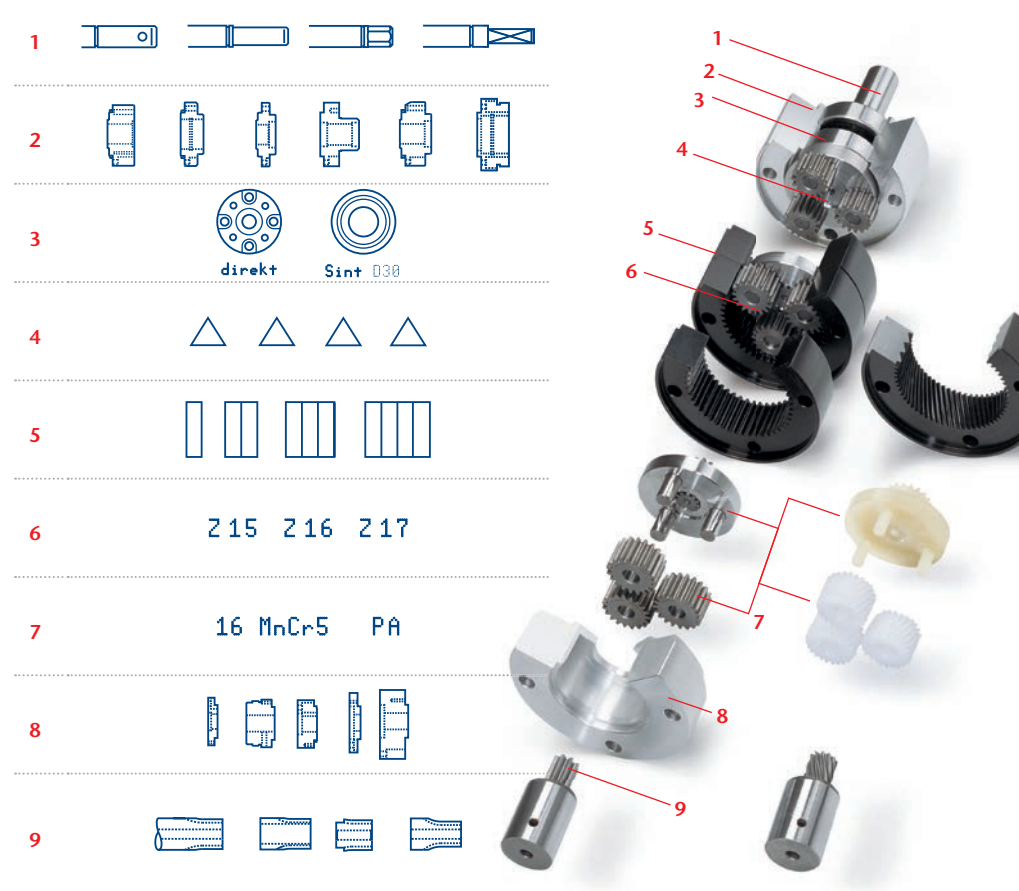
Modular diversity


Components and combinations

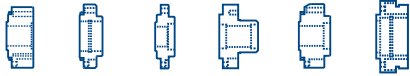
The output end can be adapted to suit your application.


Output shaft	Customer-specific adjustments/designs are possible (material, design, hardness).	
Mounting flange	Customer-specific adjustments/designs are possible (aluminum, plastic, pressure die-casting).	
Bearing	Ball, sinter or direct mounting	
Grease lubrication	A choice of several grades of grease (e.g. also for food applications)	
Gear stages	Up to four stages available (also metal-plastic combinations)	
Number of gear teeth	A versatile range of reduction ratios can be obtained by employing different numbers of teeth in each gear stage.	Z 14
Variations	Optional variations involving plastic, metal or material-mix version	POM
Motor flange	Individual adaptations/design to suit the motor of your choice.	
Motor pinion/bearing-mounted input shaft	Various build designs: Short pinion, bush + pinion, pot pinion, splined shaft	


IMS Gear Planetary Gears can be flange-mounted to all motors worldwide.





1 


2 


3  direkt Sint 038


4 

5 

6  Z 15 Z 16 Z 17

7  16 MnCr5 PA

8 

9 

Examples of configurations

PM 35 LN

Ø-reduction from 42 to 35 mm

Radial pinning



Technical features

- 2-stage
- 45:1
- approx. 7,5 Nm*
- Material mix

PK 33 LN

Ø-reduction from 42 to 33 mm

Radial welded gear housing



Direct mounting on plastic motor shield

Modified output flange fitting into a tube

Technical features

- 3-stage
- 150:1
- approx. 4 Nm*
- Material mix

PK 22

Radial welded gear housing



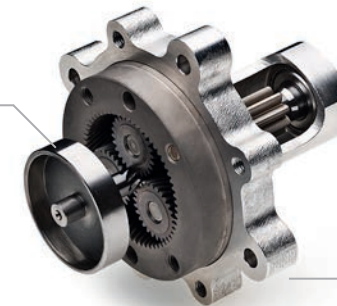
Modified output side with hollow shaft

Technical features

- 2-stage
- 22:1
- approx. 0,9 Nm*
- Material mix

PM 72 LN

Specific motor shaft



Special modified output flange and shaft

Technical features

- 1-stage
- 9:1
- approx. 8 Nm*
- Metal

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

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