



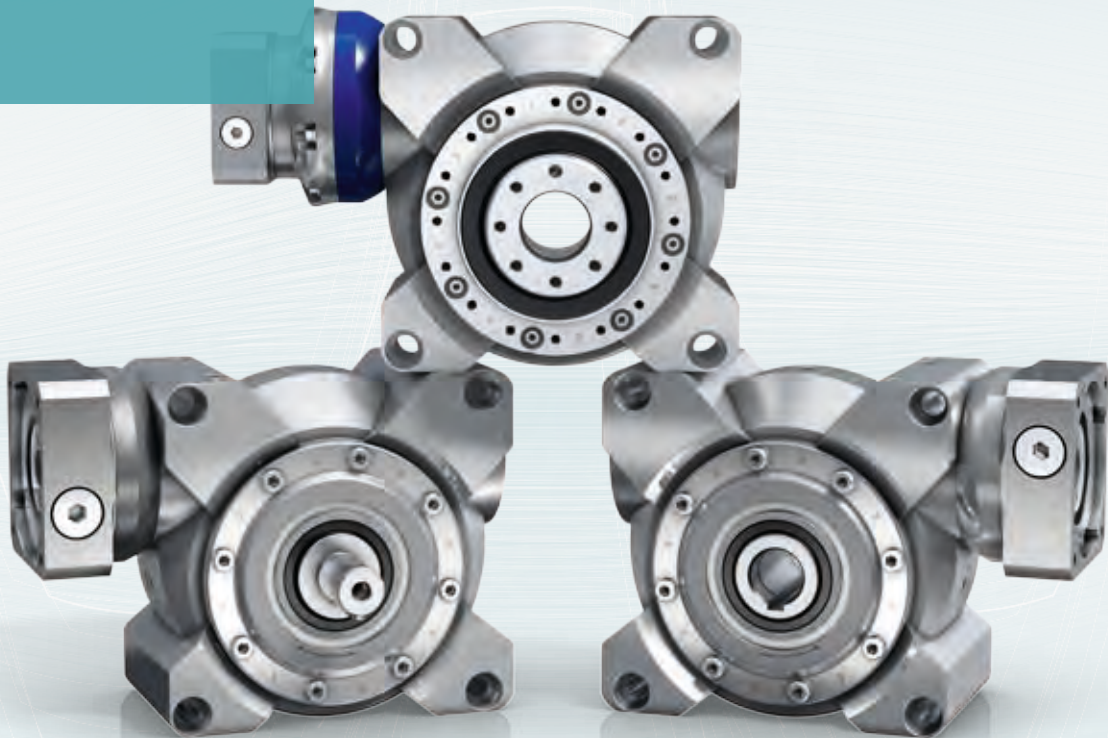
WITTENSTEIN

alpha

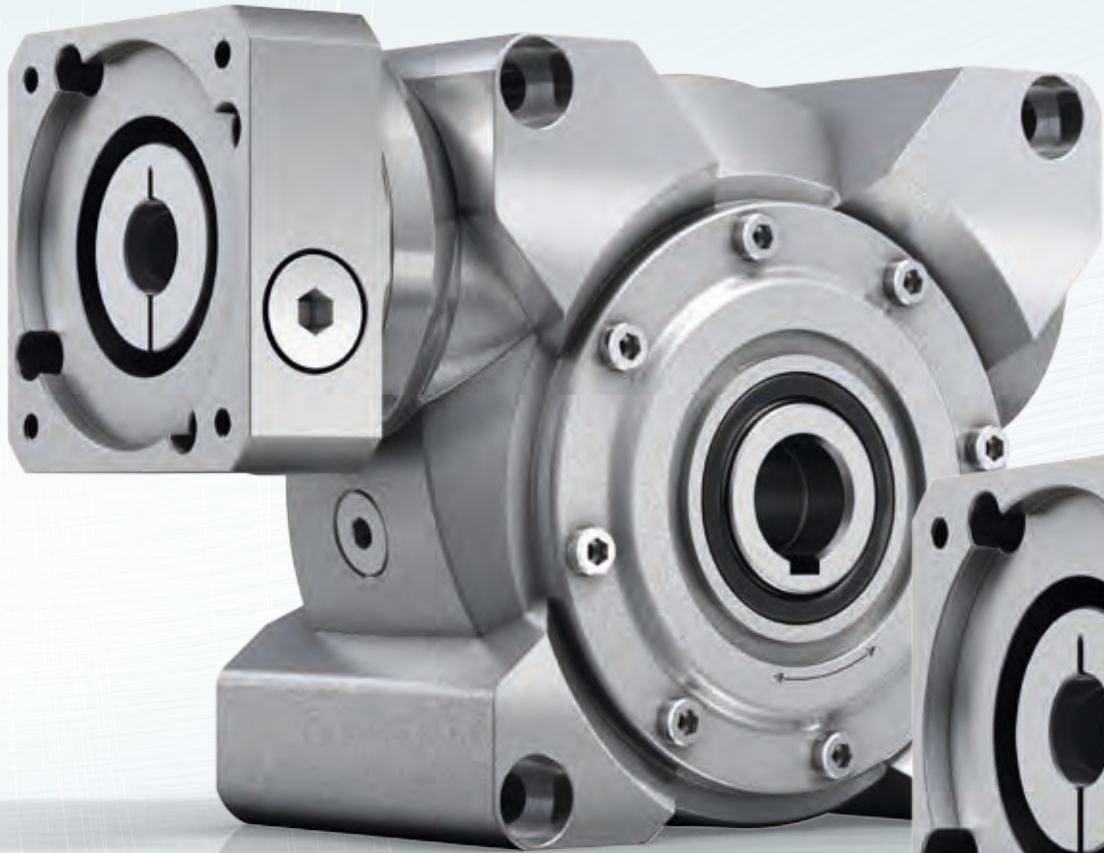
V-Drive

We drive the Performance

Maximum power density
Constant torsional backlash
Supreme smooth running



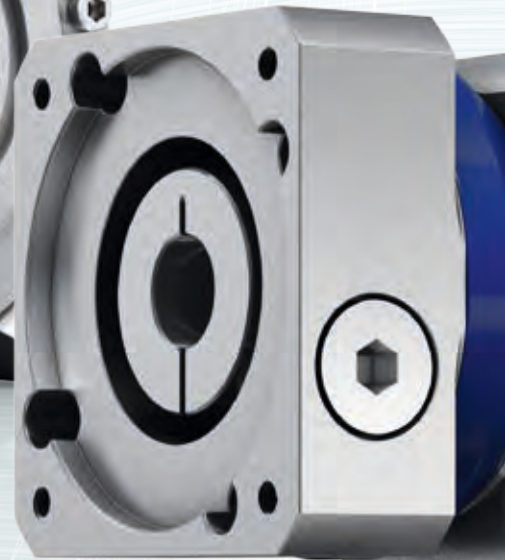
efficiency
engineering



V-Drive Basic

– The quiet endurance runner

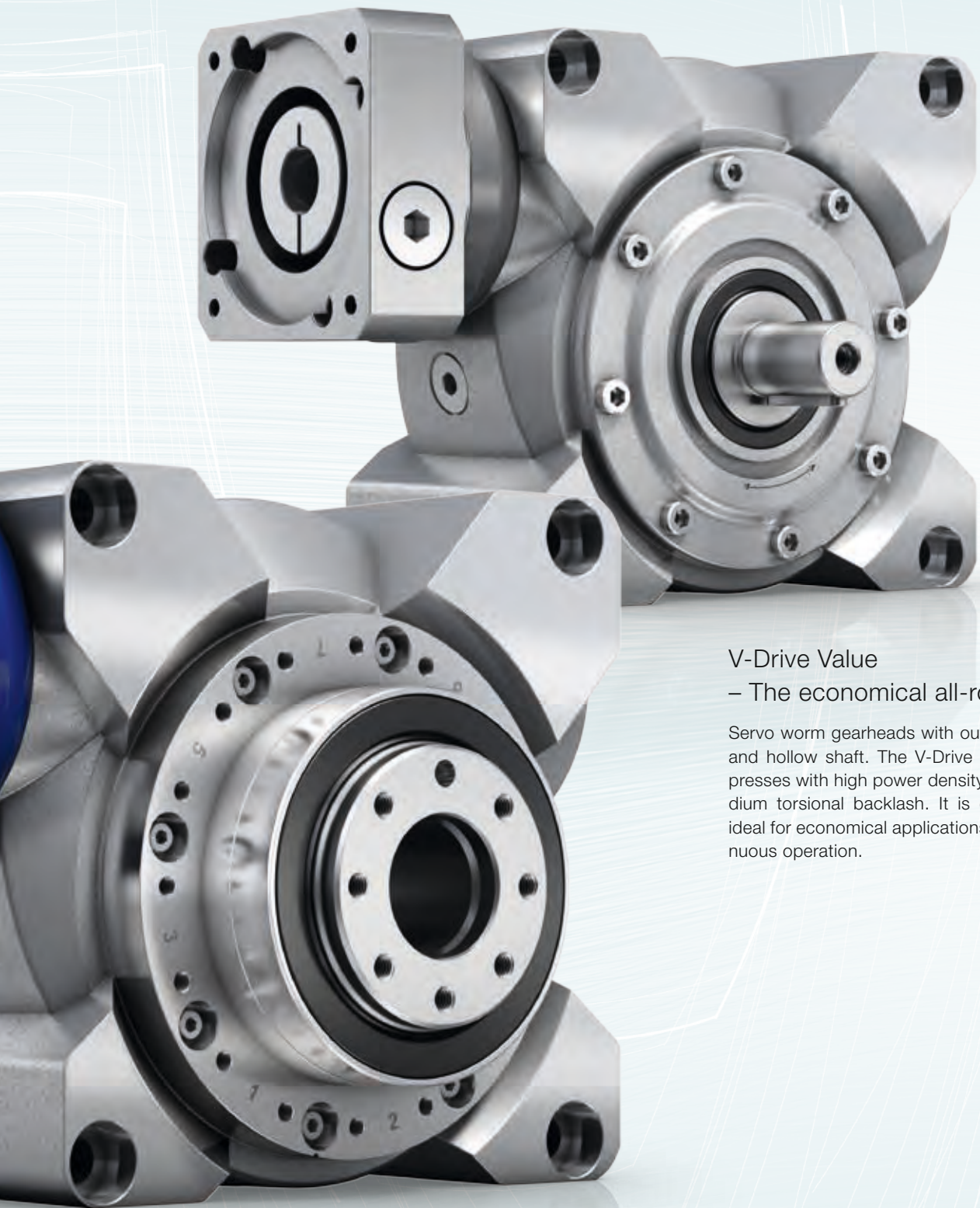
Servo worm gearheads with output shaft and hollow shaft. The gearing of the V-Drive Basic was specifically developed to minimize the noise level in S1 operation. It also convinces with optimal value for money and short delivery times.



V-Drive Advanced

– The flexible powerhouse

Powerful servo worm gearheads with flexible output configurations. In addition to a very high power density, the V-Drive Advanced achieves a constant, low torsional backlash throughout its lifespan. It is suitable for both cyclic and continuous duty applications.



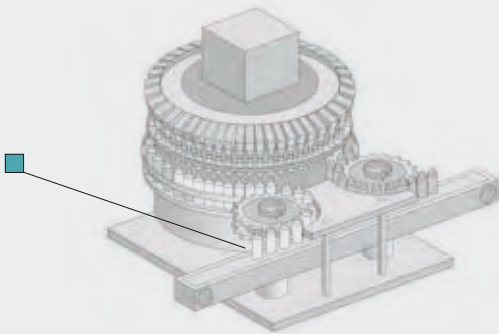
V-Drive Value

– The economical all-rounder

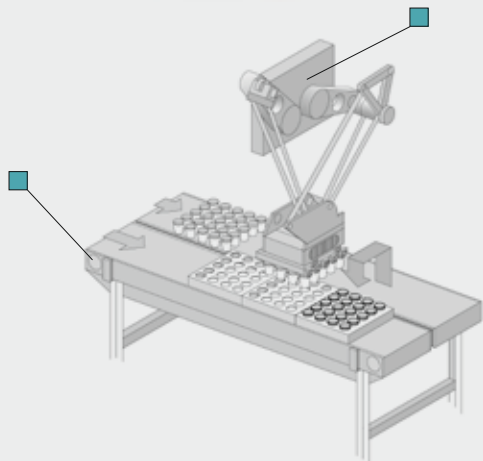
Servo worm gearheads with output shaft and hollow shaft. The V-Drive Value impresses with high power density and medium torsional backlash. It is especially ideal for economical applications in continuous operation.

Typical applications

Food processing and packaging machinery

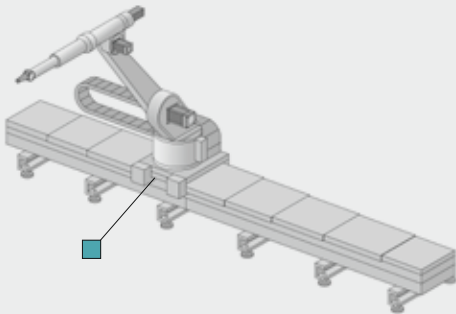


- Transport axes (belt and chain drives)
- Star drives
- Product feeding
- Swivel conveyors
- Carton feeding and erecting



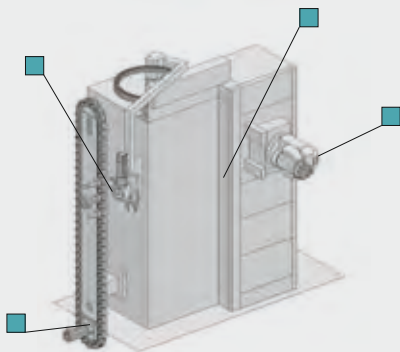
Materials handling

- Transport axes (belt and chain drives)
- Two-axis handling modules
- Loading systems in transfer axes



Robotics and automation

- Linear motions in the 7th axis
- Rotary and swivel axes
- Feed axes



Machine tools

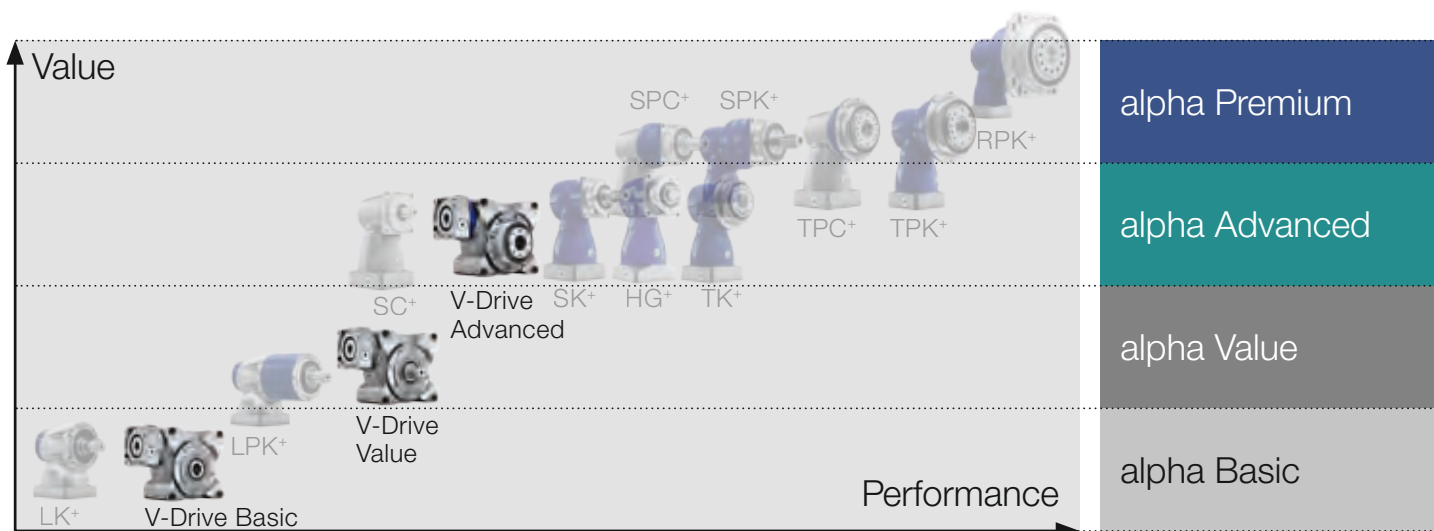
- Tool changers
- Turntables
- Travel axes

We drive the Performance

V-Drive servo worm gearheads

WITTENSTEIN alpha's worm gearhead family has been given a thorough facelift: apart from a new look, the gearheads also impress with maximum performance in a very small space – and are fully compatible with the existing series. The newly developed **V-Drive Basic** complements the **V-Drive Advanced** and the **V-Drive Value**, rounding off our extensive and flexible portfolio for all performance ranges.

High-performance worm gearheads: the V-Drive series



Best-in-class precision

Tailored precision up to ≤ 2 arcminutes for a variety of applications.

Rapid availability

Short delivery times set a new standard – even with high volumes.

Optimal reliability

Perfect for continuous operation – premium quality made by WITTENSTEIN.

Extremely smooth running

Supreme smooth running and synchronization quality thanks to superior gearing technology.

Maximum economy

Maximum economy throughout a life-span of more than 15,000 hours.

High efficiency

Ideal contact conditions and high quality lubricants guarantee more than 95% efficiency at full load.

Gearhead overview

Features		alpha Advanced			alpha Value		alpha Basic	
Power density		•••			••		•	
Positioning accuracy		•••			••		•	
Torsional rigidity		•••			•••		••	
Absorption of external forces		•••			•••		••	
Smooth-running		•••			•••		••	
Products		VT ⁺	VH ⁺	VS ⁺	NVH	NVS	CVH	CVS
Sizes	040		•		•	•	•	•
	050	•	•	•	•	•	•	•
	063	•	•	•	•	•	•	•
	080	•	•	•				
	100	•	•	•				
Ratio	one stage	4 - 40			4 - 40		7 - 40	
	with pre-stage	12 - 400			12 - 400		-	
Max. torsional backlash [arcmin]	standard	≤ 3			≤ 6		≤ 15	
	reduced	≤ 2			-		-	
Max. torque [Nm]	from	62	31	62	31	31	26	26
	to	1505	1505	1505	365	365	301	301
Max. input speed [rpm]		6000			6000		6000	
Service life [h]		≥ 20000			≥ 20000		≥ 15000	
Output type								
Smooth output shaft				•		•		•
Keywayed output shaft				•		•		•
Output shaft with involute toothing				•		•		
Smooth hollow shaft			•		•		•	
Keyed hollow shaft			•		•		•	
Flanged hollow shaft		•						
Shaft on both sides				•		•		•
Type								
Food-grade lubrication		•	•	•	•	•	•	•
Corrosion resistant		•	•	•	•	•		

Flexible output versions



WITTENSTEIN

alpha

V-Drive Advanced



Smooth hollow shaft



Keyed hollow shaft



Output shaft



Flanged hollow shaft

V-Drive Value



Smooth hollow shaft



Keyed hollow shaft



Output shaft

V-Drive Basic



Smooth hollow shaft



Keyed hollow shaft



Output shaft

The optimum gearhead in a matter of seconds

Are you looking for a quick and easy route to the optimum drive solution?

Our [Sizing Assistant](#) suggests the most suitable gearhead from the WITTENSTEIN alpha portfolio based on your application data or the required motor.

Benefits for you

- Efficient online sizing in a matter of seconds
- No need to log in
- Convenient and intuitive user interface
- Automatic comparison of the motor and gearhead geometry
- Dimension drawing and CAD data with a single click
- User friendly comparison function
- Quotation requested directly when you select the product

Available from 2017



Optional: With integral planetary input stage

Ideal for space-saving applications involving high input speeds or reduction ratios $> i = 40$.

Benefits for you

- Higher input speeds
- Higher ratios
- Compact design



SIZING ASSISTANT
YOUR GEARHEAD WITHIN SECONDS

www.sizing-assistant.com



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WITTENSTEIN alpha – intelligent drive systems

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