



GEVAG KSG

Plastic Saw Thread Screws



GEVAG KSG

GEVAG screws with plastic saw threads have been specifically developed for direct fastening into light metals and high-strength plastics and have been used for many years for reliable direct assembly.

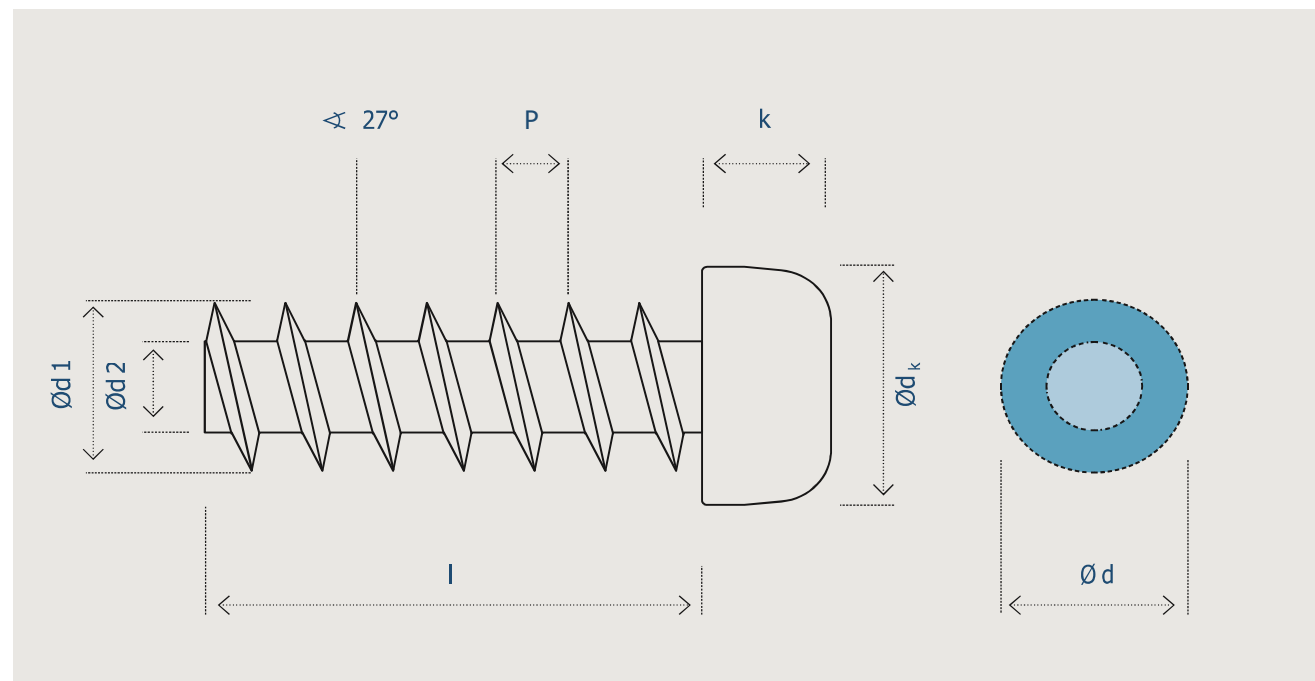
The special asymmetric thread geometry (sawtooth-like) is designed to absorb the forces generated during fastening.

The result: a secure screw connection.

These specialty screws are mounted into molded or drilled core holes and require only relatively low installation tightening torques.

This asymmetric thread shape, low thread pitch, and a flank angle of 27° , ensuring optimal fastening in high-strength plastics with high pullout resistance, characterize our KSG-thread screws.

The special thread geometry also helps prevent cracking or splitting during installation.



Advantages of GEVAG KSG

- Low installation tightening torque
- Excellent assembly performance for direct fastening
- High load capacity due to optimized thread design (parameters P , d_1 ...)
- Available in many different head styles and thread diameters
- Optionally available with scraping groove (DIN 4753 - SC)

Applications

- Household technology
- Mechanical engineering
- Medical technology
- Energy & electronics industry



Thread and Head Styles

Nominal Diameter d	Pitch P mm	Flanks \varnothing d_1 mm	Core \varnothing d_2 mm	Pan Head		Cheese Head		Countersunk head		Raised counter-sunk head	
				Head \varnothing d_k mm	height k mm	Head \varnothing d_k mm	height k mm	Head \varnothing d_k mm	height k mm	Head \varnothing d_k mm	height k mm
2.2	0.71	2.2 +0.14	~1.65	4.0	1.5			3.0	1.0		
2.5*	0.76	2.5 +0.14	~1.87	4.2	1.6	3.8	1.6	3.8	1.3	3.8	1.2
3.0	0.86	3.0 +0.14	~2.25	5.6	2.2	3.8	1.6	4.7	1.7	4.7	1.6
3.5	0.95	3.5 +0.18	~2.62	6.9	2.5	5.0	1.7	5.5	1.9	5.6	1.9
4.0	1.05	4.0 +0.18	~2.98	7.5	2.6	5.5	2.0	6.5	2.3	6.5	2.2
4.5*	1.14	4.5 +0.18	~3.36	7.8	3.0	6.0	2.2	7.5	2.4	7.5	2.5
5.0	1.23	5.0 +0.18	~3.72	8.2	3.2	7.0	2.6	9.3	3.0	9.2	3.0
6.0*	1.42	6.0 +0.18	~4.47	10.8	3.8	8.5	3.3	11.0	3.5	11.0	3.5

Heat Treatment: Casehardened - Surface Treatment: Available in all common finishes, optional sliding coating available.

Note: For countersunk screws, the head height k is included in the overall length.

*Additional thread dimensions and head styles available on request.

Drilling diameters depend on installation depth, torque, and material to be mounted.

Deviations may occur, especially due to varying properties of the base material.










We therefore recommend functional testing under actual conditions.

Lengths and tolerances

Nominal diameter d	Tolerance/ Length l mm															
	± 0.60		± 0.75		± 0.9						± 1.05		± 1.25			
	4	6	8	10	10	12	14	16	18	20	25	30	35	40	45	50
2.2	•	•	•	•	•	•	•	•	•	•	•					
2.5	•	•	•	•	•	•	•	•	•	•	•					
3.0	•	•	•	•	•	•	•	•	•	•	•					
3.5	•	•	•	•	•	•	•	•	•	•	•					
4.0		•	•	•	•	•	•	•	•	•	•	•				
4.5			•	•	•	•	•	•	•	•	•	•	•	•	•	•
5			•	•	•	•	•	•	•	•	•	•	•	•	•	•
6				•	•	•	•	•	•	•	•	•	•	•	•	•

Note: For countersunk screws, head height k is included in the total length.

Drives

				
Slotted	Phillips	Combination Phillips	Pozi	Combination Pozi
				
Hex socket	Torx	Combination Torx	Tri-Wing	

Gevag GmbH
Hasselstrasse 7a
58091 Hagen

Postfach 1180
58011 Hagen
Germany

Phone	+49 2331 4704-0
Fax	+49 2331 4704-18
Email	info@gevag.de
Internet	gevag.de