

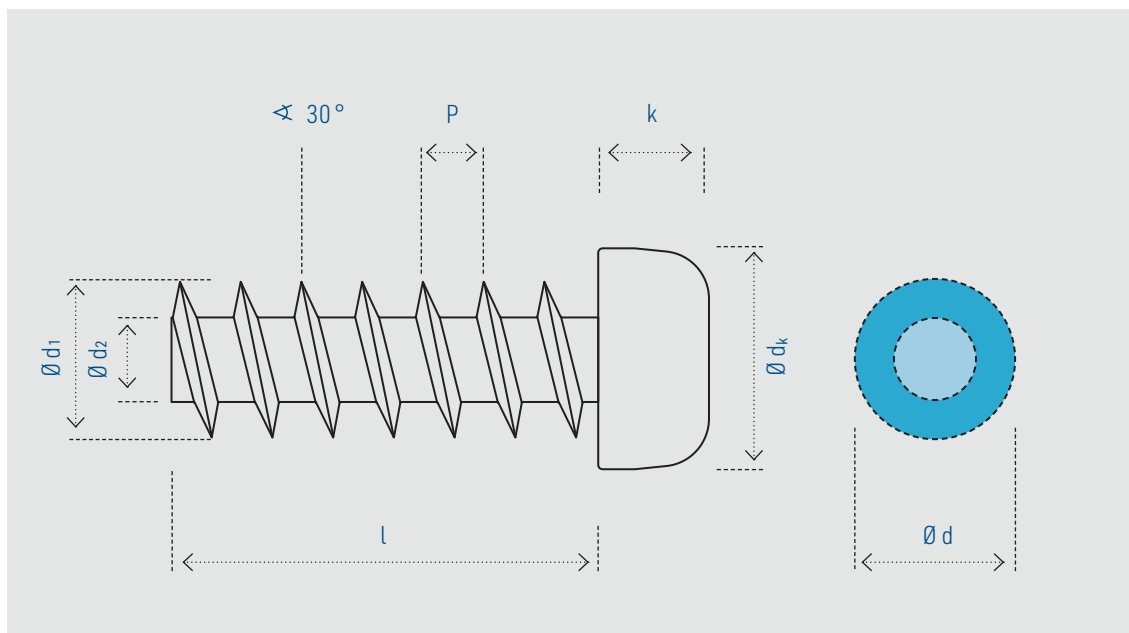
GEVAG KUNST

Thread-forming screws
for secure fastening in
thermoplastics.

GEVAG KUNST

The proven Gevag KUNST thread-forming screws have been specifically developed for self-forming joints in thermoplastics and have been used for many years for reliable direct assembly. Unlike thread-cutting screws, which cut the thread into the material, these thread-forming screws utilize the ductility of the thermoplastic material, form it without cutting and solidify it in the process. The result: a particularly secure screw joint.

These specialist products are screwed into injection molded or drilled core holes using relatively low torque. In terms of design, our KUNST screws are characterized by a large pitch, their small core diameter and a flank angle of 30°. This ensures optimal screwing with high pull-out strength and without damaging the material. Thanks to the small core diameter, cracking and bulging are avoided.



Advantages of Gevag KUNST





- Small radial forces – low radial extension
- Low screwing-in torque
- Tremendous resilience thanks to high thread bearing strength
- No damages to the material
- Individually configurable and available in many different head shapes and thread diameters (1.8 – 6 mm)

Industry use

- Household appliances
- Medical engineering
- Energy industry
- Automotive



Threads and head shapes

Nominal diameter d ISO	Pitch P mm	Flanks \varnothing d_1 mm	Core \varnothing d_2 mm	 Pan head	Head \varnothing d_k mm	Head height k mm	 Cheese head	Head \varnothing d_k mm	Head height k mm	 Countersunk head ¹	Head \varnothing d_k mm	Head height k mm	 Raised counter- sunk head ¹	Head \varnothing d_k mm	Head height k mm
1,8	0,8	$1,8 + 0,14$	1,1		3,2	1,2				3,0	1,0				
2,2	0,98	$2,2 + 0,14$	1,3		4,0	1,5		3,8	1,6	3,8	1,3		3,8	1,2	
2,5	1,12	$2,5 + 0,14$	1,45		4,2	1,6		3,8	1,6	4,7	1,7		4,7	1,6	
3	1,34	$3,0 + 0,14$	1,8		5,6	2,2		5,0	1,7	5,5	1,9		5,6	1,9	
3,5	1,57	$3,5 + 0,18$	2,0		6,9	2,5		5,5	2,0	6,5	2,3		6,5	2,2	
4	1,79	$4,0 + 0,18$	2,5		7,5	2,6		6,0	2,2	7,5	2,4		7,5	2,5	
5	2,24	$5,0 + 0,18$	2,95		8,2	2,9		7,0	2,6	9,3	3,0		9,2	3,0	
6	2,6	$6,0 + 0,18$	3,35		10,8	3,8		8,5	3,3	11,0	3,5		11,0	3,5	

Heat treatment: Case-hardened and tempered - Surface protection available in all standard versions. Anti-friction coatings optional.

¹ Note! For countersunk head screws, the head height k is included in the length.

Further head shapes and dimensions on request.

The screw hole diameters depend on the screw-in depth, the screw torques and the materials to be joined. There may be further deviations and special features, particularly with regard to the properties of the screw-in material. In such cases, a functional test is beneficial.

Lengths and tolerances

Nominal diameter d ISO	Tolerance / Length l mm															
	$\pm 0,60$		$\pm 0,75$		$\pm 0,9$						$\pm 1,05$		$\pm 1,25$			
	4	6	8	10	10	12	14	16	18	20	25	30	35	40	45	50
1,8	•	•	•	•	•	•	•	•	•	•	•					
2,2	•	•	•	•	•	•	•	•	•	•	•					
2,5	•	•	•	•	•	•	•	•	•	•	•					
3	•	•	•	•	•	•	•	•	•	•	•					
3,5		•	•	•	•	•	•	•	•	•	•	•				
4			•	•	•	•	•	•	•	•	•	•	•	•	•	•
5			•	•	•	•	•	•	•	•	•	•	•	•	•	•
6				•	•	•	•	•	•	•	•	•	•	•	•	•

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Drives

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

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