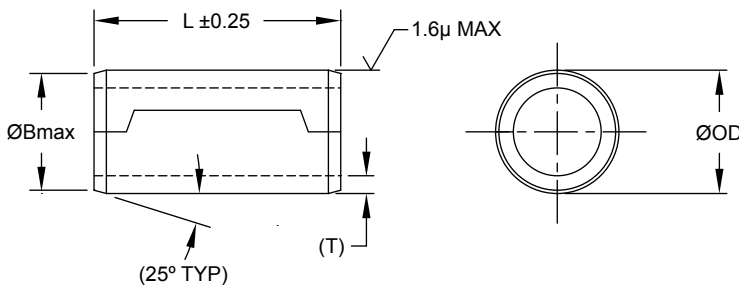


SPIROL®

GROUND HOLLOW DOWELS

Design-in SPIROL's Series GD100 Ground Hollow Dowels for Precision Alignment and Substantial Cost Savings

SPIROL Ground Hollow Dowels are designed to be direct replacements for standard Ground Solid Dowels per ISO 8734. They are used where centerline tolerancing and precision alignment are required.



- Precision ground outside diameters maintain critical alignment within 20µm.
- A 1.6µm surface finish and well-defined chamfers prevent shaving or scraping during installation.
- The roll-formed design yields substantial cost savings over Solid Dowels.
- The hollow feature offers weight savings over Solid Dowels and clearance for bolts, fluids, or gases.

TECHNICAL SPECIFICATIONS

STANDARD MATERIAL	STANDARD FINISH
F Low Carbon Steel	K Plain, Oiled

NOMINAL DIAMETER	ØOD (m6)		WALL THICKNESS T	ØB MAX.	RECOMMENDED Ø HOLE SIZE ¹ (M7)		RECOMMENDED Ø HOLE SIZE ² (H7)	
	MIN.	MAX.			MIN.	MAX.	MIN.	MAX.
6	6.004	6.012	0.9	5.80	5.988	6.000	6.000	6.012
8	8.006	8.015	1.2	7.80	7.985	8.000	8.000	8.015
10	10.006	10.015	1.6	9.75	9.985	10.000	10.000	10.015
12	12.007	12.018	1.8	11.75	11.982	12.000	12.000	12.018
16	16.007	16.018	2.2	15.70	15.982	16.000	16.000	16.018

NOMINAL DIAMETER	LENGTH							
	6	8	10	12	15	20	25	30
6								
8								
10								
12								
16								

- Maximum recommended interference fit for primary retention of Dowel.
 - Recommended transitional fit in mating component.
- All dimensions in millimeters.
 - T refers to strip thickness prior to forming & grinding.
 - Refer to ISO 286 for dimensional and fit specifications.
 - Special lengths and sizes available upon request.

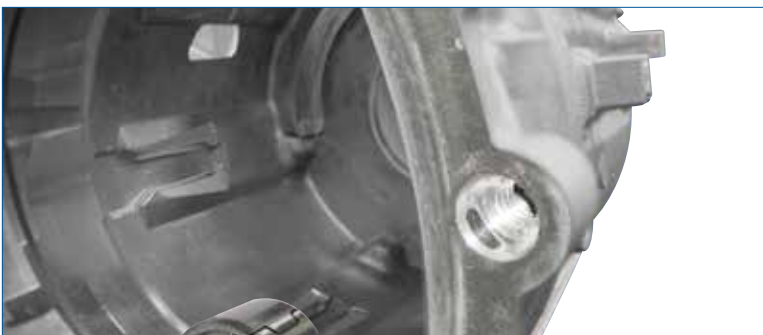
To Order: GHDL, Nominal Dowel Size x Length, Material, Finish, Series

Example: GHDL 8 x 15 FK GD100



An OEM was using a 16mm OD Ground Solid Dowel to locate the transmission to the back of the engine. This particular application was more demanding than most due to the weight of the two components to be aligned and the method of joining them together. The customer approached **SPIROL** for cost-reduction suggestions.

SPIROL's **Series GD100 Ground Hollow Dowels** offered a perfect solution for this application. The standard M16 diameter fit the existing hole size and was easily incorporated into the assembly equipment and fixtures without modification. The customer was able to attain a 30% cost savings, and the function of the assembly remained consistent with the previous product.



To validate your design, **SPIROL** Application Engineers will review your application needs and work with your design team to recommend the best solution. To start the process, select **Alignment Applications** in our **Optimal Application Engineering** portal at www.SPIROL.com.

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