

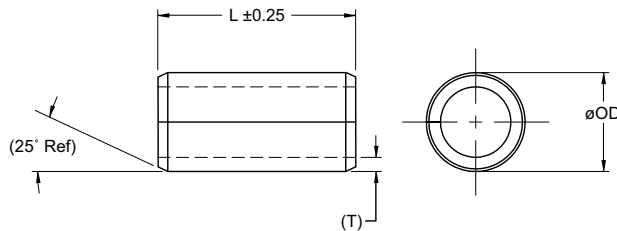
SPIROL®

GROUND HOLLOW DOWELS

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



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



- Precision ground outside diameters maintain critical alignment within 20µm.
- A 0.8µm 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.

METRIC SPECIFICATIONS

STANDARD MATERIAL	STANDARD FINISH
F Low Carbon Steel	K Plain Oil

Nominal OD	OD		Recommended Hole Size		T	Length*								
	Min.	Max.	Min.	Max.		8	10	12	16	20	24	30	32	
8	8.006	8.015	7.987	8.000	1.2									
10	10.006	10.015	9.987	10.000	1.6									
12	12.007	12.018	11.985	12.000	1.8									
16	16.007	16.018	15.985	16.000	2.2									

* Dowels in intermediate and longer lengths, and smaller and larger diameters are available on request and feasibility review. Inch sizes available upon special request.

To Order: SPCR, Nominal Dowel Size x Length, Material, Finish, Series
Example: SPCR 8 x 16 FK GD100



Application Engineering



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.



Challenge Us!

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

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ISO/TS 16949:2002 Certified
ISO 9001:2000 Certified