

SEALED ROLLER BEARING BITS

Throop Rock Bit Company manufactures a line of sealed roller bearing bits for use in a variety of applications where, historically, bearing life has been the limiting factor in bit performance. Throop sealed roller bearing bits, available in both steel tooth and tungsten carbide designs, offer extended bearing life to utilize the full life of the cutting structure.



The lubrication system for Throop sealed roller bearing bits consists of a grease reservoir with passages to the bearings, a synthetic rubber diaphragm and a steel reservoir cap. The lubrication system equalizes the internal and external pressure across the seal, which serves to increase seal life. A special factory applied lubricant fills the bearing area, and the grease reservoir in the leg of the bit supplies additional grease to the bearings as needed.

The bearings are sealed using specially designed "O" Ring seals, made of Highly Saturated Nitrile (HSN) for maximum bearing protection and life. These seals are very effective in preventing the intrusion of the drilling fluid into the bearing system.

SEALED ROLLER BEARING BITS AVAILABILITY

SIZE	STND. PIN SIZE	MODEL & IADC CODE RANGE											
		TR51S	TR52S	TR53S	TR61S	TR63S	TR64S	TR71S	TR74S	TR3S	TR2S	TR1S	TR1HS
		514	524	534	614	634	644	714	744	114-134	214-224	234-314	324
		515	525	535	615	635	645	715	745	115-135	215-225	235-315	325
3 1/2"	2 3/8" API	•	•	•	•	•	•	•	•	•	•	•	•
3 5/8"	2 3/8" API	•	•	•	•	•	•	•	•	•	•	•	•
3 7/8"	2 3/8" API	•	•	•	•	•	•	•	•	•	•	•	•
4"	2 3/8" API	•	•	•	•	•	•	•	•	•	•	•	•
4 1/8"	2 3/8" API	•	•	•	•	•	•	•	•	•	•	•	•
4 1/4"	2 3/8" API	•	•	•	•	•	•	•	•	•	•	•	•
4 3/8"	2 3/8" API	•	•	•	•	•	•	•	•	•	•	•	•
4 1/2"	2 3/8" API	•	•	•	•	•	•	•	•	•	•	•	•
4 5/8"	2 7/8" API	•	•	•	•	•	•	•	•	•	•	•	•
4 3/4"	2 7/8" API	•	•	•	•	•	•	•	•	•	•	•	•
4 7/8"	2 7/8" API	•	•	•	•	•	•	•	•	•	•	•	•
5"	2 7/8" API	•	•	•	•	•	•	•	•	•	•	•	•
5 1/8"	2 7/8" API	•	•	•	•	•	•	•	•	•	•	•	•
5 1/4"	2 7/8" API	•	•	•	•	•	•	•	•	•	•	•	•
5 1/2"	2 7/8" API	•	•	•	•	•	•	•	•	•	•	•	•
5 5/8"	3 1/2" API	•	•	•	•	•	•	•	•	•	•	•	•
5 3/4"	3 1/2" API	•	•	•	•	•	•	•	•	•	•	•	•
5 7/8"	3 1/2" API	•	•	•	•	•	•	•	•	•	•	•	•
6"	3 1/2" API	•	•	•	•	•	•	•	•	•	•	•	•
6 1/8"	3 1/2" API	•	•	•	•	•	•	•	•	•	•	•	•
6 1/4"	3 1/2" API	•	•	•	•	•	•	•	•	•	•	•	•

Available in regular circulation or jet circulation with replaceable nozzles.
IADC codes ending in "4" come with TCI inserts on shirrtail as a standard feature.

Throop Rock Bit Company also offers a line of **Fixed Cutter Bits** and a line of **Junk Mill Bits**. Please contact one of Throop's sales representatives for details, availability, and pricing.