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HOPE TITANIUM BOTTOM BRACKET

HOPEs' philosophy is to design and manufacture a product of excellent quality, lightweight and fully serviceable with no compromise in strength or reliability.

All parts are machined in house, using aerospace quality materials on the latest CNC (computer numerical control) machines under the strict quality control of HOPEs' skilled engineers.

A Bottom Bracket was considered a natural progression for HOPE's product range. After using many inferior bottom brackets over the years HOPE's designers decided that there were several improvements that could be made. One of the major problems usually associated with titanium axles is that annoying creak with every pedal stroke. Following extensive research the primary source of this noise has been traced back to the quality of location of the cranks on the tapers, although general tolerances throughout the bottom bracket also contribute to this problem.

To alleviate this problem HOPE have produced an axle with an extremely accurate 2 degree taper and a much wider and longer flat than traditional bottom brackets. This allows any design of crank to be fitted with the minimum of 'wobble'. The longer taper also allows worn cranks to be tightened before reaching the end of the taper. At the end of these tapers is a large radius to prevent any breakages occurring due to stress which can be created by sharp corners in titanium. The axle is machined from 6Al/4V aerospace grade titanium to exacting tolerances of less than 2 microns (0.002mm).

This precision titanium axle rotates on two high quality deep groove bearings which feature full contact double seals to prevent any ingress of water or dirt. These are standard, easy to replace and also inexpensive.

In the course of development other bearing types were tested such as needle roller and double ball race bearings but it was found they were both very susceptible to dirt and very expensive to replace, with no increase in bearing life.

Two 7075 T6 aluminium cups are pressed onto the bearings with a central aluminium tube to prevent any side loading of the bearings and stop any contamination entering from inside the frame. All aluminium parts are anodised, even the central tube, to prevent any corrosion and allowing easy removal.

Weight:	109 = 168g
Colours:	Silver, Blue, Purple, Red, Black
Axle length:	103, 109, 113, 117, 121, 125, 129 (117 and above include lockrings)
Shell length:	68/70, 73
Threads:	English (BSA), Italian

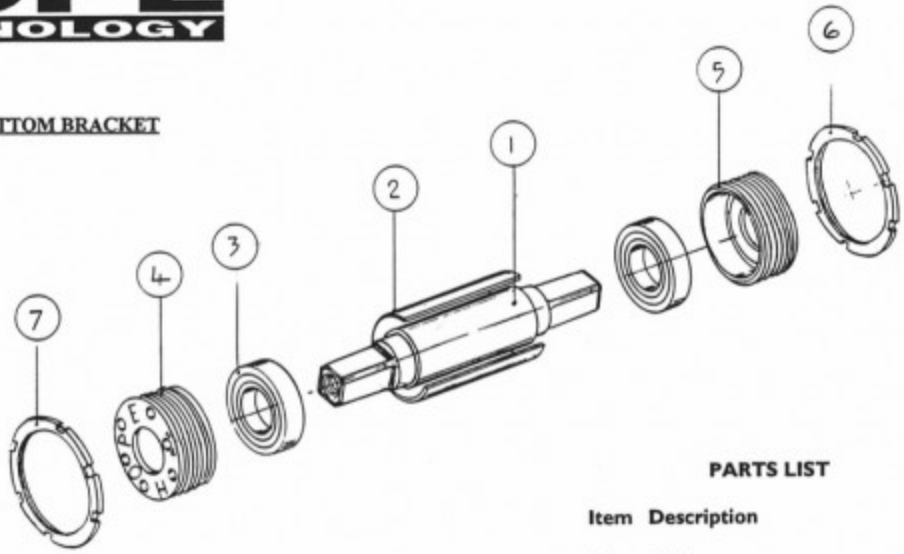


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PARTS LIST

Item	Description	Qty.
1.	Axle	1
2.	Spacer	1
3.	Bearing	2
4.	Bearing Cup R.H. thread	1
5.	Bearing Cup L.H. thread	1
6.	* Lockring L.H. thread	1
7.	* Lockring R.H. thread	1

* Not fitted on bracket with axle lengths 103, 109 or 113mm