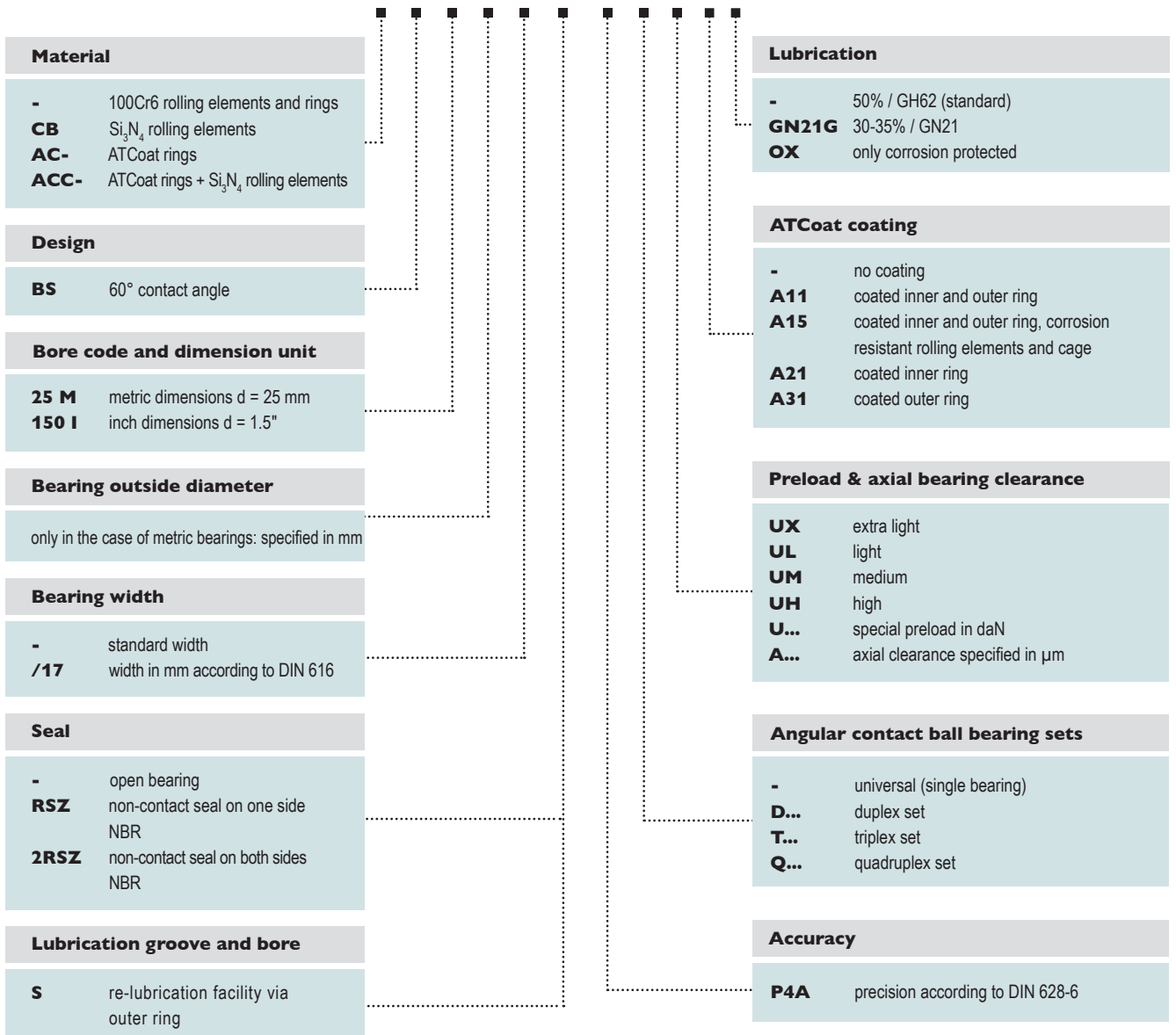


7. IBC Single Row Precision 60° Ball Screw Support Bearings

Designation system



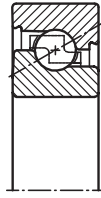
Examples: CB BS 75 M 110 .S .P4A .D UM .OX
 BS 30 M 62 /16 .2RSZ .P4A .UM
 AC- BS 50 M 100 .P4A .Q UM
 BS 25 M 62 /17 .P4A .D UM .A15 .GH62G



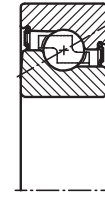
IBC Single Row Precision 60° Ball Screw Support Bearings

Manufacturing overview

BS... M...



BS... M...



...2RSZ...

x51-218

d mm	Production series						
	BS...M...	D mm	B mm	d mm	BS...I	D mm	B mm
17	BS 17M47	47	15	20	BS 078 I	47	15,875
20	BS 20M47	47	15	23,838	BS 093 I	62	15,875
20	BS 20M47/14*	47	14	38,1	BS 150 I	72	15,875
20	BS 20M52	52	15	44,475	BS 175 I	76,2	15,875
25	BS 25M52	52	15				
25	BS 25M62	62	15				
25	BS 25M62/17*	62	17				
30	BS 30M62	62	15				
30	BS 30M62/16*	62	16				
30	BS 30M72	72	15				
30	BS 30M72/19*	72	19				
30	BS 30M90	90	20				
35	BS 35M72	72	15				
35	BS 35M72/17*	72	17				
35	BS 35M100	100	20				
40	BS 40M72	72	15				
40	BS 40M90	90	20				
40	BS 40M90/23*	90	23				
40	BS 40M100	100	20				
45	BS 45M75	75	15				
45	BS 45M100	100	20				
50	BS 50M90	90	20				
50	BS 50M100	100	20				
55	BS 55M90	90	15				
55	BS 55M100	100	20				
55	BS 55M120	120	20				
60	BS 60M120	120	20				

*Do not use in new designs.

Unilaterally effective precision ball screw support bearings only absorb axial forces in the direction in which the rolling elements are loaded as a result of pressure brought to bear between the high shoulders of the inner and outer ring. In most cases, these bearings are set against each other in pairs. A common type of application is the bearing of a ball screw.

Ball screw support bearings are universally face ground. They can be mounted in a flexible manner at each bearing location, either as a single bearing or as a bearing set put together during manufacture; sets may be arranged according to the customer's needs. Sets put together during manufacture display an overall V-mark across the outer rings of the bearings. This V-mark spans the entire set of ball screw support bearings.

The customer benefits from these bearings because they are easy to install, have a long service life without needing maintenance and allow for the possibility of being provided with for life grease lubrication or circulating oil lubrication. Additional benefits include high positioning accuracy and low energy consumption during operation; the bearings also operate safely during fast acceleration and high rotational speeds of the ball screw. The use of ceramic rolling elements or of bearing rings coated with ATC thin dense chromium coating are further options if you want to achieve even higher rotational speeds. In addition to 60° ball screw support bearings that are open, we also offer versions that have seals on both sides. The sealed versions help to achieve good operational safety even in difficult environments.