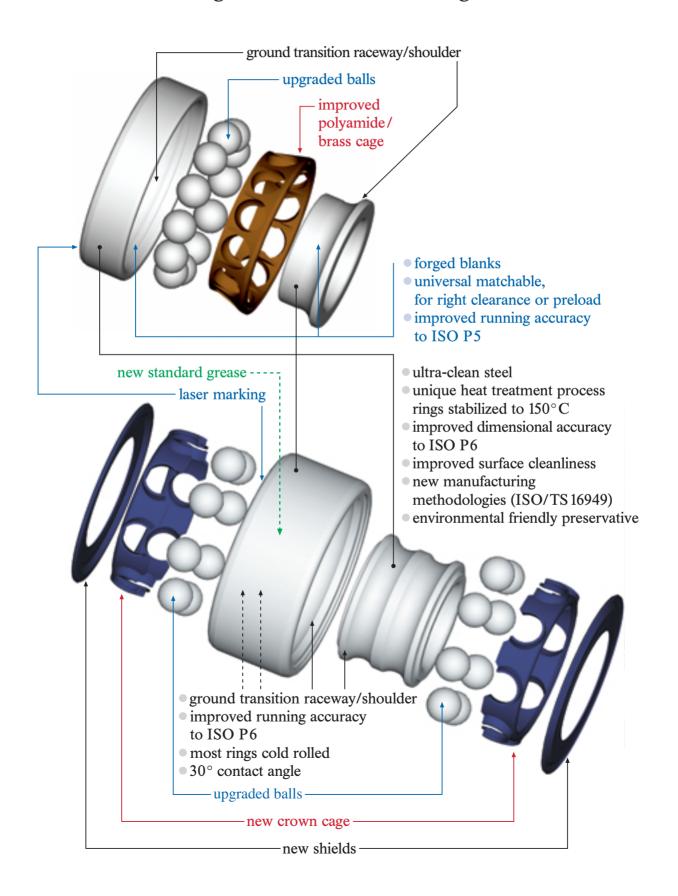
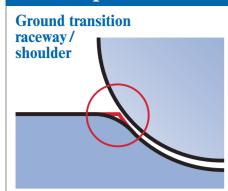


EXPLORER

Angular Contact Ball Bearings



SKF Explorer ACBB: Improved raceway shoulder contact



Product benefits

- Higher thrust load capability
- Lower contact stresses
- Reduced edge stresses

Customer benefits

- Increased power density higher load rating – increased thrust load capability
- Higher safety factor
- Extended service life

SKF Explorer ACBB: Upgraded balls

Upgraded balls

Balls of at least one ISO grade better



Product benefits

Improved running accuracy

Customer benefits

- Higher speed rating
- Reduced vibration
- Reduced noise
- Extended service life

SKF Explorer ACBB: Improved polyamide cage

Improved polyamide cage



Product benefits

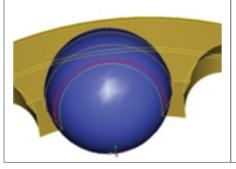
- Better ball guidance
- Lower friction
- Lower mass/lower inertia
- Stronger design
- Optimized number of balls

Customer benefits

- Lower heat generation
- Higher speed rating
- Higher acceleration
- Higher safety factor
- Extended service life

SKF Explorer ACBB: Improved machined brass cage

Improved machined brass cage



Product benefits

- Improved cage/ball contact
- Lower imbalance forces
- Better surface roughness, especially cage pockets
- Cleaner cage surface
- Smoother running

Customer benefits

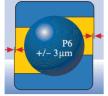
- Reduced vibration
- Reduced noise
- Lower heat generation
- Extended service life



SKF Explorer ACBB: Bearings for universal matching

Bearings for universal matching

CA, **CB**, CC, **GA**, GB, GC CB and GA are standard clearance and preloaded



Product benefits

- Two or more bearings can always be matched together
- Equal load sharing
- Fix predetermined clearance or preload

Customer benefits

- Easier and safer handling and mounting
- Reduced inventory
- Extended service life

SKF Explorer ACBB: Material development

Steel quality



Product benefits

- Extremely clean and homogenous steel
- Reduced oxygen level content
- Improved steel quality

Customer benefits

- Explorer bearings made of steel with an absolute minimum of inclusions
- Increased bearing performance life
- Reduced possibility of fatigue failure

SKF Explorer ACBB: New heat treatment

S0 standard heat treatment



Product benefits

- Maximum operating temperature of +150°C
- Minimum dimensional changes
- Constant predetermined clearance or preload also after 10 000 hours at 110°C

Customer benefits

- Increased safety factor at unchanged design
- Longer service intervals
- Increased machine uptime
- Increased power density
- Extended service life

SKF Explorer ACBB: New crown cage



Product benefits

- Better ball guidance
- Better lubrication film formation
- Lower friction

Customer benefits

- Higher speed rating
- Reduced vibration
- Reduced noise
- Higher safety factor
- Lower heat generation
- Extended service life



SKF Explorer ACBB: Improved running and dimensional accuracy

Improved running accuracy

SRACBB

Defined as ISO P5

DRACBB

Defined as ISO P6

Improved dimensional accuracy SR- and DRACBB

Defined as ISO P6

Product benefits

- Better precision class
- Narrower tolerances
- Reduction of the runout of about 30%

Customer benefits

- Reduced vibration
- Lower heat generation
- Longer service intervals
- Higher speed capability
- Extended service life

SKF Explorer ACBB: New shield

New shield



Product benefits

- Better shielding function, less dirt ingress
- Better grease retension
- Better performance on vertical shaft applications
- Improved anchorage

Customer benefits

- Less maintenance
- Lower heat generation
- Higher safety factor
- Reduced noise
- Extended service life

SKF Explorer Angular Contact Ball Bearings

The New Performance Class → Extended Service Life

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