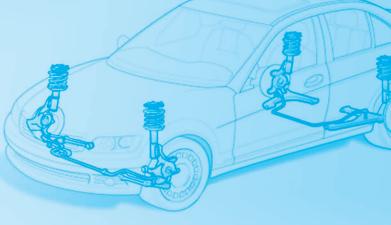


# Suspension Bearing



# Solutions for the suspension system

Suspension systems serve a dual purpose — contributing to the vehicle's road holding/handling and braking for good active safety and driving pleasure, and keeping vehicle occupants comfortable and reasonably well isolated from road noise, bumps, and vibrations, etc.

These goals are generally at odds, so the tuning of suspensions involves finding the right compromise. It is important for the suspension to keep the road wheel in contact with the road surface as much as possible, because all the road or ground forces acting on the vehicle do so through the contact patches of the tires. The suspension also protects the vehicle itself and any cargo or luggage from damage and wear. The design of front and rear suspension of a car may be different.

As a customer centered and solution oriented company, KML continuously develops its products range and is particularly active in automotive related components. With latest technology, KML is able to provide its customer with suspension bearings features better durability and reliability.

# Suspension bearing evolution









Metal sealed unit

Metal or plastic spring seat

Composite bearing

Seals and metallic spring seat

Seals and overmoulded spring seat

### Move toward integrated functions for a design capable of being:

Efficient: better use of material.

**Compact**: lower systems weight (no metal spring seat, plastic components, simpler top mount).

**Value optimized**: the right balance between cost and functions.

**Flexible**: to adapt easily to surrounding components.

Performance: KML special designed seal.

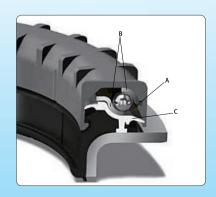
The different components of this bearing show the most relevant functions: the overall ball system hold by the cages (A), the balls roll inside the metal tracks (B) with the main scope of:

- Checking the direction of travel of the vehicle even if under load conditions
- Absorbing the load carried by the wheels and moving it into the vehicle chassis

The seals (C) isolate the bearing from water, mud and any other external contamination. The seat, where the shock absorber spring stands on, is made up of a metallic insert which is integrated into the bearing seat of composite material .

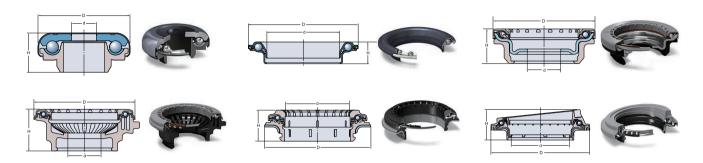
Each bearing design has been developed for a specific application in terms of:

- Loads
- · Geometry of housings
- Protection from environment



### Benefits:

- Robust, compact, light plastic bearing for heavy vehicles.
- Excellent load-carrying capacity.
- Excellent sealing performance thanks to contacting seal integrated in the ball set cage.
- Very compact and light angular contact bearing for light, medium and heavy vehicles.
- Inclined ball set to reduce bearing radial loads.



KML No.	Bore diameter d	Out diameter D	Height H	Weight g	Static capacity N	Vehicle/model
BDA-1020C	12.2	45.3	19.3	73	32000	Yaris,Witz,Swift
BDA-1020E	14.2	45.3	13.4	69	32000	Golf-Bora
BDA-1050	31.5	69.8	9.7	52	34500	MPV,CX-7,CX-9,Chariot
BDA-1032BB	35	107	36	381	44000	Ford Connect
BDA-1032BC	35	107	36	381	44000	Jaguar X-Type
BDA-1059AB	35	107	44	200.4	39000	C-MAX,Focus,Axela,Mazda 3
BDA-1057CC	35	108	39.3	489	86500	Mercedes Vito
BDA-1085AA	35	120	46.9	460.3	86500	Transit
BDA-1099BD	35	129	36.8	487.3	86500	Civic Europe
BDA-1127B	35	109	44	201	39000	Primacy,Biante
BDA-1129	35	122.1	60.4	250.1	39000	Mondeo,Smax Galaxy, XC60, XC70, V70,S80,Freelander
BDA-1141C	35	109	44	200.2	33000	
BDA-1144	57.5	97.35	16.8	99.6	55000	
BDA-1130AA	58	97.3	16.8	95.8	55000	Chevy Cobalt,Saturn Ion,Cruze,Opel Astra,Volt
BDA-1132A	60.5	103.6	31.8	128.3	33500	Cadillac BRX,Chevy Malibu,Pontiac G6,Saab 9-4X
BDA-1124AE	60.5	112	30.1	166	33500	Saab9-3,Opel Vectra
BDA-1132D	61.5	103.6	31.8	127.6	33500	
BD1B-351873D	62.1	86	12	92.6	58500	
BDA-1029	65.5	100	19.7	134.4	29000	Peugeot 208,308-Citroen C2,C3,C4,Picasson,Hyundai Verna
BDA-1074	68	112	25	208.5	39000	PQ24(Polo,Fabia)-PQ35(Golf)
BDA-1106AD	68.9	113.5	36.2	163.4	43000	Saturn Vue, Equinox, Captiva, Antarra, Torrent, Enclave, XL-7
BDA-1133	69.3	115	33.6	220.9	39000	
BDA-1133D	70	128	41.5	384.7	50000	Saturn Outlook,GMC Acadia&Yukon,Escalade,Tahoe&Travese
BDA-1136C	74.5	126.8	39	258	50000	
BDAB-447071CB	79.5	111.5	14	83.3	39000	Santa-Fe,Kia Carnival
BDA-1027A	61.6	88.2	12	66.6	44000	Lada Calina, Priora, 9.3
BDA-1116AC	98	140.4	29.6	350.8	58500	Laguna Ⅲ,SM7
BDAB-446757AC	108	144.5	17.8	218	39000	607



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