

Special high-precision bearings

High-speed bearings with increased load capacity, designed and tested for endothermic racing engines.

Special high-speed precision bearings, reinforced for increased load and heavy applications, with oversize balls, carbonitrided inner rings, steel and polyamide cages. The co-operation of Malossi technicians with the company SKF allowed to obtain an important technical result for the fine-tuning of high-quality racing engines.






Above all, we would like to point out bearing **art. 6614105EA**, since it features - besides the carbonitrided ring - reinforced load capacity, polyamide cage and reduced outer ring tolerance.

This last modification was made by Malossi technicians to achieve a better lubrication of the ball guides. In order to check the suggested application, please see the below chart, based on the results of severe tests performed by Malossi technicians both on the test bench and on race tracks.

The column of technical specifications bears an abbreviation which indicates the main technical features of each bearing.



CRANKSHAFT BEARINGS

	SIZE	TYPE	Ø BALL	CLEARANCE	CAGE	ART. NR.	
MINARELLI AM 3 - 4 - 5 - 6 MOTO							
1 BEARING	17x47x14	BALLS	9,525	C3	POLYAM.	6614423B	
2 BEARINGS						6614423E	
DERBY 50 MOTO							
1 BEARING	20x47x14	BALLS	9,525	C3H	POLYAM.	6611566B	
2 BEARINGS						6611566E	
2 BEARINGS	20x47x14	BALLS	9,525	C4H	POLYAM.	6615137E	
1 BEARING <i>Clutch SIDE</i>	20x47x14	BALLS	7,938	C4	POLYAM.	6616065B	
2 BEARINGS						6616065E	
MINARELLI - YAMAHA 50 SCOOTERS							
1 BEARING <i>Clutch SIDE</i>	20x47x14	BALLS	7,938	C4	POLYAM.	6616065B	
2 BEARINGS						6616065E	
1 BEARING	20x47x14	BALLS	9,525	C3H	POLYAM.	6611566B	
2 BEARINGS						6611566E	
PIAGGIO 50 AUTOMATIC SCOOTERS							
2 BEARINGS	20x52x10-12 <i>K</i>	BALLS	7,938	C3M	POLYAM.	6614105EA	
2 BEARINGS	20x52x12	BALLS	7,938	C3M	POLYAM.	6614105E	
PIAGGIO - CIAO - BRAVO - SI - BOXER 50							
1 BEARING	15x35x11	BALLS	6	STD	STEEL	66 4678B	
2 BEARINGS						66 4678E	

K = Anello interno carbonitruato, sfere maggiorate e anello esterno ridotto speciale.



CRANKSHAFT BEARINGS

	SIZE	TYPE	Ø BALL	CLEARANCE	CAGE	ART. NR.	
PK 50 - PK HP 50 - PK XL 50 / SPECIAL 50 - PIAGGIO APE 50							
1 BEARING <i>Flywheel</i> SIDE	20x47x14	BALLS	9,525	C3H	POLYAM.	6611566B	
1 BEARING <i>Clutch</i> SIDE	17x47x14	BALLS	9,525	C3	POLYAM.	6614423B	
BEARING SET						6615669	

ET3 / PK . 125 (1st series)							
1 BEARING <i>Flywheel</i> SIDE	20x47x14	ROLLER	7,5	C3	POLYAM.	6615711B	
1 BEARING <i>Clutch</i> SIDE	17x47x14	BALLS	9,525	C3	POLYAM.	6614423B	
BEARING SET						6615712	

ETS / PK XL . 125							
1 BEARING <i>Flywheel</i> SIDE	25x38x15	ROLLER	-	STD	POLYAM.	6615445B	
1 BEARING <i>Clutch</i> SIDE	17x47x14	BALLS	9,525	C3	POLYAM.	6614423B	
BEARING SET						6615670	

COSA 125 > 200 / PX 80 > 200 - LML Star 125-150							
1 BEARING <i>Flywheel</i> SIDE	25x38x15	ROLLER	-	STD	POLYAM.	6615445B	
1 BEARING <i>Clutch</i> SIDE	25x62x12	BALLS	10,319	C4	POLYAM.	6615463B	
BEARING SET	SPORT					6615466	
1 BEARING <i>Flywheel</i> SIDE	25x38x15	ROLLER	-	STD	POLYAM.	6615445B	
1 BEARING <i>Clutch</i> SIDE	25x62x12 <i>W</i>	BALLS	10,319	C4	POLYAM.	6615384B	
BEARING SET	MHR					6615467	

T5 125							
1 BEARING <i>Flywheel</i> SIDE	25x52x15	ROLLER	9	C3	POLYAM.	6615990B	
1 BEARING <i>Clutch</i> SIDE	25x62x12	BALLS	10,319	C4	STEEL	6615463B	
BEARING SET	SPORT					6616003	
1 BEARING <i>Flywheel</i> SIDE	25x52x15	ROLLER	9	C3	POLYAM.	6615990B	
1 BEARING <i>Clutch</i> SIDE	25x62x12 <i>W</i>	BALLS	10,319	C4	STEEL	6615384B	
BEARING SET	MHR					6616004	

GEAR SHAFT BEARINGS

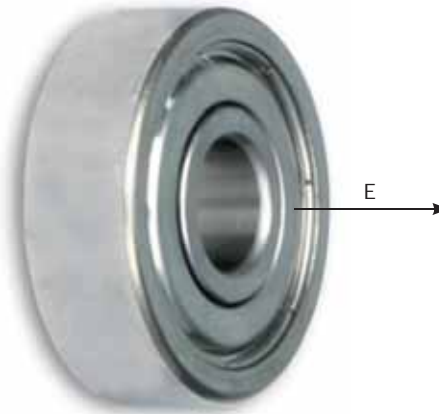
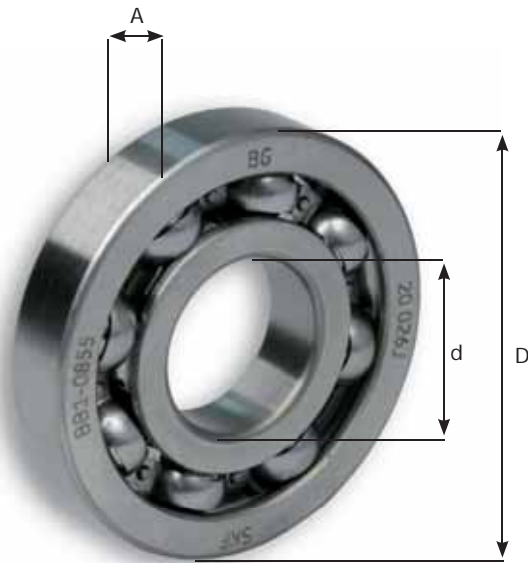
	SIZE	TYPE	Ø BALL	CLEARANCE	CAGE	ART. NR.	
ET3 125 / ETS 125 / PK 50 > 125 / SPECIAL 50							
1 BEARING	25x47x8	BALLS	5	STD	STEEL	6615714B	

VESPA 50 > 200 - PIAGGIO APE 50 - LML Star 125-150							
1 BEARING <i>gearbox output</i>	10x30x9	BALLS	4,762	STD	POLYAM.	6615713B	
1 ROLLER SLEEVE <i>Flywheel</i> SIDE	16x22x12	ROLLER	3	STD	STEEL	6615717B	

W = Carbonitrided inner ring and oversize balls.

Bearings

Technical specifications according to size



SIZE		TYPE	Ø BALL	CLEARAN- CE	SHIELDED	CAGE	ART. NR.		
d	D								A
7	19	6	BALLS	3	STD	YES	STEEL	66 6758B	S
8	24	8	BALLS	3,968	STD	YES	STEEL	6614373B	S
10	30	9	BALLS	4,762	STD	-	POLYAMIDE	6615713B	S
12	24	6	BALLS	3,175	STD	YES	STEEL	66 8835B	S
15	32	8	BALLS	4,762	STD	-	STEEL	6614144B	S
15	32	9	BALLS	4,762	STD	YES	STEEL	6611856B	S
15	32	9	BALLS	4,762	STD	-	STEEL	6611735B	S
15	35	11	BALLS	6	STD	-	STEEL	66 4678B	S
16	22	12	ROLLER	2	STD	-	STEEL	6615717B	S
17	35	10	BALLS	4,762	STD	YES	POLYAMIDE	6611518B	S
17	40	12	BALLS	6,747	C3	-	STEEL	66 6517B	S
17	47	14	BALLS	9,525	C3	-	POLYAMIDE	6614423B	S
20	42	12	BALLS	6,35	C3	-	POLYAMIDE	6614630B	S
20	42	12	BALLS	6,35	STD	-	STEEL	6611855B	S
20	47	14	BALLS	9,525	C3H	-	POLYAMIDE	6611566B	S
20	47	14	BALLS	9,525	C4H	-	POLYAMIDE	6615137E	C
20	47	14	BALLS	7,938	C4	-	POLYAMIDE	6616065B	S
20	47	14	ROLLER	7,5	C3	-	POLYAMIDE	6615711B	S
20	52	12	BALLS	7,938	C3M	-	POLYAMIDE	6614105E	C
20	52	10-12 K	BALLS	7,938	C3M	-	POLYAMIDE	6614105EA	C
24	32	16	ROLLER	2,5	STD	-	POLYAMIDE	6614581B	S
25	38	15	ROLLER	2,5	STD	-	POLYAMIDE	6615445B	S
25	47	8	BALLS	5	STD	-	STEEL	6615714B	S
25	47	12	BALLS	6,747	STD	-	STEEL	6611519B	S
25	52	15	ROLLER	9	C3	-	POLYAMIDE	6615990B	S
25	62	12	BALLS	10,319	C4	-	STEEL	6615463B	S
25	62	12 W	BALLS	10,319	C4	-	STEEL	6615384B	S

W = Carbonitrided inner ring and oversize balls.

K = Carbonitrided inner ring, oversize balls and special reduced outer ring.

S = Single.

C = Pair.