

art.GBA/Kit

art.GBI/Kit

KIT WITH STEEL LOCKING RING “GBA” per barre for TR10/80 bars.

KIT WITH STAINLESS STEEL LOCKING RING “GBI” for TR10/80 bars.

The GBA/GBI locking rings, as previously mentioned, can be used with KM certified rings for guaranteed loads that combined with locking washer MB form a kit with high load bearing capacity as well as doubling security against unscrewing. This kit, complete with support washer, is mainly used for vertical movements in safety in that, other than the technical characteristics of the GBA/GBI rings already described, additional sustainable load bearing is added by the ring KM with security against unscrewing given by the locking washer MB. The technical lower table below illustrates the load capacity of each GBA/GBI ring with locking torque and resistance to unscrewing. **The table below shows the correct GBA/GBI ring kit required for each specific threaded bar code.**



Kit with correct assembly sequence for horizontal and vertical use where ring KM and docking washer MB are mounted in the final phase to totally guarantee grip and prevent unscrewing. To tighten the locknut KM use the same pin wrench as in the “GHA” ring table on the following page whilst for GBA/GBI the sizes are shown below in the CH column.

In particularly demanding cases a second KM ring and MB locking washer can be added for triple security. Both the second KM ring and MB locking washer should be ordered separately in addition to the standard kit and specifying if in stainless steel. **Example for ordering: Certified ring KM4 – M20x1** (or stainless steel ring KM4 – M20x1), **Locking washer MB4 - Ø20** (or stainless steel locking washer MB 4 - Ø20).

• CODIFICATION AND SIZING

Use of GBA/kit and GBI /kit in reference to the type of threaded bar				Technical data and dimensions of GBA/GBI ring kits										
FC* series threaded bar (shank side machine with sufficient space for ring)	IF/BIØ** series bar (TR threaded side machined to the core diameter)	GBA KIT CODE R80 steel	Usable ring art.GBA Kit (steel)	GBI KIT CODE Stainless steel AISI 303	Usable ring art.GBI kit (stainless steel)	M	D	L	H KM ring + MB washer	RDA support washer	L kit	CH wrench GBA/GBI	V 2 hex cap screws	Kit Weight Kg
* TR10-12	TR16	A02AK10	GBA/kit 10	A02IK10	GBI/kit 10	M10x0,75	25	10	5	1,5	16,5	25/28	M3x6	0,030
TR14	TR18	A02AK12	GBA/kit 12	A02IK12	GBI/kit 12	M12x1	30	14	5	2	21	30/32	M4x8	0,063
TR16	TR20-22	A02AK15	GBA/kit 15	A02IK15	GBI/kit 15	M15x1	35	15	6	2,5	23,5	34/36	M4x10	0,105
TR18-20	TR24-25	A02AK17	GBA/kit 17	A02IK17	GBI/kit 17	M17x1	40	16	6	3	25	40/42	M4x10	0,137
TR22-24-25	TR26-28-30	A02AK20	GBA/kit 20	A02IK20	GBI/kit 20	M20x1	45	16	7	3	26	45/50	M5x10	0,180
TR26-28-30	TR32-35-36	A02AK25	GBA/kit 25	A02IK25	GBI/kit 25	M25x1,5	50	16	8,5	3	27,5	45/50	M5x10	0,222
TR32-35-36	TR40	A02AK30	GBA/kit 30	A02IK30	GBI/kit 30	M30x1,5	55	16	8,5	4	28,5	52/55	M5x10	0,250
TR40	TR45-46	A02AK35	GBA/kit 35	A02IK35	GBI/kit 35	M35x1,5	60	16	9,5	4	29,5	58/62	M5x10	0,310
TR45-46	TR50-55	A02AK40	GBA/kit 40	A02IK40	GBI/kit 40	M40x1,5	70	18	10,5	4	32,5	68/75	M5x12	0,470
TR50	TR60	A02AK45	GBA/kit 45	A02IK45	GBI/kit 45	M45x1,5	80	20	11,5	4	35,5	80/90	M6x12	0,675
TR55	TR65	A02AK50	GBA/kit 50	A02IK50	GBI/kit 50	M50x1,5	80	23	12,5	5	40,5	80/90	M6x14	0,730
TR60	TR70	A02AK55	GBA/kit 55	A02IK55	GBI/kit 55	M55x2	90	25	12,5	5	42,5	80/90	M6x16	0,985
TR65	TR80	A02AK60	GBA/kit 60	A02IK60	GBI/kit 60	M60x2	100	28	12,5	5	45,5	95/100	M6x20	1,335

* To use the GBA 10 kit ring on the shank side FC series threaded bar TR10 a stop needs to be created by inserting CCA TR10 nut at the end of the thread and pinning or blocking it. The following components of the “Kits” shown above are also available singularly on request: **KM ring in steel** (certificated) - **KM in stainless steel** - **MB locking washer zinc coated** - **MB locking washer stainless steel** - **RDA washer stainless steel**.

• TECHNICAL DATA RELATING TO THE MECHANICAL STRENGTH OF THE RINGS

Table of the load capacity of the rings with torque on the Hex Socket Cap Screws (V) and relative resistance to unscrewing.									
GBA Ring R80 steel	Static load capacity (Kg)	Max tightening torque on Hex cap socket screws (V) (Nm)	Resistance of GBA ring to unscrewing (Nm)	Static load capacity KM .ring. “SKF” (Kg)	GBI Ring Stainless steel (AISI 303)	Static load capacity (Kg)	Max tightening torque on Hex cap socket screws (V) (Nm)	Resistance of GBI ring to unscrewing (Nm)	Static load Capacity KM ring stainless steel (Kg)
GBA 10	1,497	1,2 ÷ 2	4	KM 0 - Kg 998	GBI 10	838	1 ÷ 1,5	3	559
GBA 12	2,705	3 ÷ 3,5	9	KM 1 - Kg 1,202	GBI 12	1,515	2,5 ÷ 3	7	673
GBA 15	3,274	3 ÷ 3,5	13	KM 2 - Kg 1,488	GBI 15	1,833	2,5 ÷ 3	10	833
GBA 17	4,393	3 ÷ 3,5	15	KM 3 - Kg 1,997	GBI 17	2,460	2,5 ÷ 3	12	1,118
GBA 20	4,476	6 ÷ 7	20	KM 4 - Kg 2,446	GBI 20	2,506	5 ÷ 5,5	16	1,370
GBA 25	5,041	6 ÷ 7	22	KM 5 - Kg 3,211	GBI 25	2,823	5 ÷ 5,5	18	1,798
GBA 30	5,840	6 ÷ 7	24	KM 6 - Kg 3,720	GBI 30	3,270	5 ÷ 5,5	20	2,083
GBA 35	6,370	6 ÷ 7	28	KM 7 - Kg 5,096	GBI 35	3,567	5 ÷ 5,5	22	2,854
GBA 40	8,406	6 ÷ 7	35	KM 8 - Kg 6,320	GBI 40	4,707	5 ÷ 5,5	28	3,539
GBA 45	9,541	10 ÷ 11	67	KM 9 - Kg 7,951	GBI 45	5,342	8 ÷ 9	54	4,452
GBA 50	12,685	10 ÷ 11	76	KM 10 - Kg 9,327	GBI 50	7,104	8 ÷ 9	60	5,223
GBA 55	14,457	10 ÷ 11	86	KM 11 - Kg 9,327	GBI 55	8,096	8 ÷ 9	68	5,223
GBA 60	17,623	10 ÷ 11	96	KM 12 - Kg 9,683	GBI 60	9,869	8 ÷ 9	76	5,422