

Technical sheet No 164GM/KAR

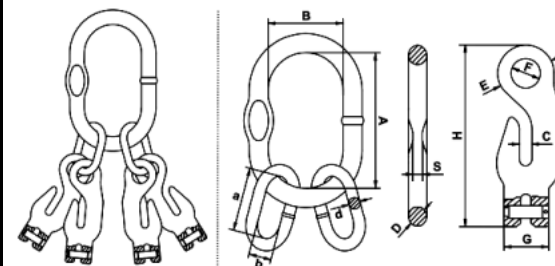
1. Supplier name: **GÓRALMET Sp. z o.o.**

Supplier address: **ul. Krakowska 68, 32-860 Czychów, tel/fax 014 6635260**

2. Product name: **GM-4C10 Shortening master link**

3. Description and use: Grade 10 master link assembly with built-in four shortening hooks for slings and lifting purposes. For use within technical parameters given in point 5 and the Directive 2006/42/EC.



4. The sizes of GM-4C10 links are given as a number which refers to the use of the link in grade 10 chain slings and means size code of a three-leg or four-leg sling working with an "2,1" safety factor for which the link can be used. Working load limits are given for the normal working conditions. Usage in extreme conditions is not allowed without supplier agreement. It is not allowed to directly connect GM-4C10 links with additional components other than lifting chain. In two-leg sling operation mode working with "1,4" or "1,0" safety factor, shall be load one shortening hook per each of two intermediate links. Storage, installation and usage - according to instruction manual for lifting accessories.



5. Technical parameters:

No	Size [mm]	Nominal dimensions [mm]													Weight [kg/pc]	WLL Working load [t]	MPF Proof force [kN]	BF Breaking force [min.kN]	Material	Coatings	Product code No
		A	B	D	S	a	b	d	H	G	C	E	F	Pin [Ø]							
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
1	6	135	75	20	10	54	25	13	106	30,5	8,5	36	18	8,2	2,475	3	73,6	117,7	Grade 10 steel: Cr >= 0,40 % Ni >= 0,40 % Mo >= 0,15 % Al >= 0,025 % S <= 0,025 % P <= 0,025 %	Paint	6
2	8	160	90	23	12	70	34	16	150	37	11	48	24	10,5	5,522	5,3	129,9	207,9			8
3	10	180	100	29,5	14,5	85	40	20	195	48	13,5	60	31	13,4	10,034	8	196,1	313,8			10
4	13	200	110	35	18	115	50	23	247	56	16,5	74	36,5	16,7	19,478	14	343,2	549,2			13

6. Additional informations:

- Safety factor - 4
- $MPF = 2,5 \times g \times WLL$, $BF = 4,0 \times g \times WLL$ where g - acceleration of gravity in m/s² (i.e. 9,80665)
- Manufacturer and product identification code: GM-4C10
- Traceability code: a four-digit number by formula - YYMM (YY = year of production, MM = month of production)
- Markings: manufacturer's symbol – GMG;  ; TITANOBOA; manufacturer and product identification code; traceability code; product code No; class No – 10
- Marking of pins of 13 mm in diameter and larger: GMG; 10
- Additional informations – label:  ; product name; product code No (size); WLL...T; quantity; order No; manufacturer's data and website address.