



William Hackett

The UK's leading provider of chain products and lifting systems solutions

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HA Master Links – Type Approval No. TAS000013Z

Certified to: DNV2.7-1, DNV2.7-3, EN12079-2, EN1677-4

The HA range of master links and quad assemblies is the most complete range of links available today, in diameters from 16mm up to 120mm and working load limits up to 250 tonnes. The links are manufactured from triple alloy steel in accordance with EN1677, they are individually proof load tested to 2.5 times working load limit in accordance with EN1677 and they are all supplied with charpy impact values of in excess of 42 Joules at -40°C. The links are suitable for use in a temperature range of -40°C up to 200°C without reduction in working load limit.

The HA range of links are widely used in lifting sets for offshore containers and they are type approved to DNV 2.7-1 under approval number TAS000013Z.

MPF = Manufacturing Proof Force = 2.5 x 9.81 x Working Load Limit (kN) (min.)

BF = Break Force = WLL x Factor of Safety

WLL = Working Load Limit (tonne) @ 45° to vertical

Factor of Safety = 5 : 1

Embossing - As per Description column and Batch Number

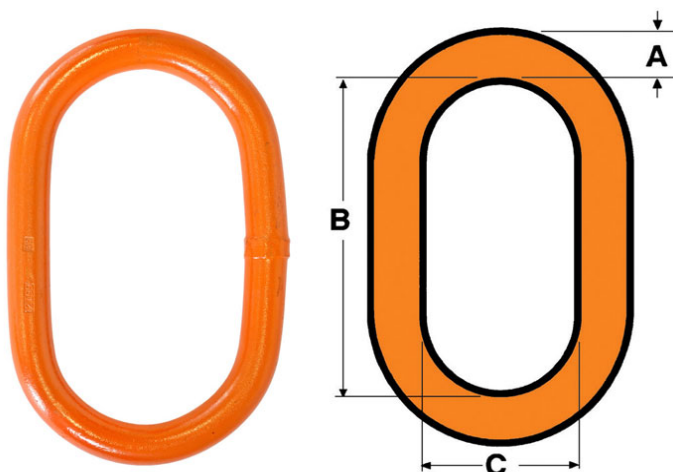
Manufactured in accordance with EN1677-4

Design air temperature -40° min. Average impact energy (charpy) 42 Joules up to 50mm diameter

DNV type approval No. TAS000013Z

Operational temperature range is -40° C to + 200°C

*Certified on a batch basis to the requirements of DNV 2.7-1



SPECIFICATIONS

Part Code	Description	A mm	B mm	C mm	WLL t	Mass Kg
330.160	HA16ML	16	150	75	4.1	0.7
330.22S	HA22MS	22	162	90	8.83	1.5
330.220	HA22ML	22	270	140	5.8	2.3
330.250	HA25ML	25	270	140	8.83	2.7
330.28S	HA28MS	28	200	110	14.5	3.0
330.280	HA28ML	28	270	140	14.5	3.8
330.320	HA32ML	32	270	140	17.1	5.1
330.360	HA36ML	36	270	140	23.0	6.5
330.400	HA40ML	40	280	155	28.1	8.5
330.450	HA45ML	45	320	175	38.3	12.2
330.500	HA50ML	50	350	195	45.0	16.6
330.600	HA60ML	60	410	220	65.0	29.2
330.700	HA70ML	70	450	250	85.0	44.3
330.900	HA90ML*	90	500	300	150.0	86.0
330.1200	HA120ML*	120	610	410	250.0	197.0



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