

HA® Master Link OS+ Zinc-Tough

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The HA master link OS+ Zinc-Tough is a fundamental component used in a wide range of lifting and rigging applications. It is typically used in wire rope, chain and synthetic sling assemblies, acting as the connection point between the sling legs below and the lifting machine above. More specifically, having received DNV type approval, our HA master link OS+ Zinc-Tough range is recognised and specified globally by operators, contractors and rigging shops for use in offshore rigging and DNV 2.7-1 container lifting sets. The HA master link OS+ Zinc-Tough range is manufactured from grade 8 triple alloy steel which is supplemented by a specialist zinc thermal diffusion treatment - trademarked as Zinc-Tough - providing superior protection from hydrogen embrittlement and corrosion. This makes the HA master link OS+ Zinc-Tough range an optimal solution for lifting and rigging in the harshest offshore environments.

DNV type approved: certified by DNV pursuant to Type Approval No. TAS00003J4 Rev. 1 and Type Approval No. TAS0000333 Rev. 3 in accordance with DNV-ST-E271, DNV-ST-E273, BSEN ISO 10855-2, EN1677-4, ASME B30.26 and API-2CCU-2017-08.

Additional standards: in addition to the standards covered by the DNV type approvals above, this product is designed and manufactured in accordance with AS3776:2015.

Product sizes: available in diameters from 22mm to 75mm and working load limits from 7.0 tonnes to 100.0 tonnes.

Temperature: operational temperature range of - 40°C to + 200°C without reduction in working load limit.

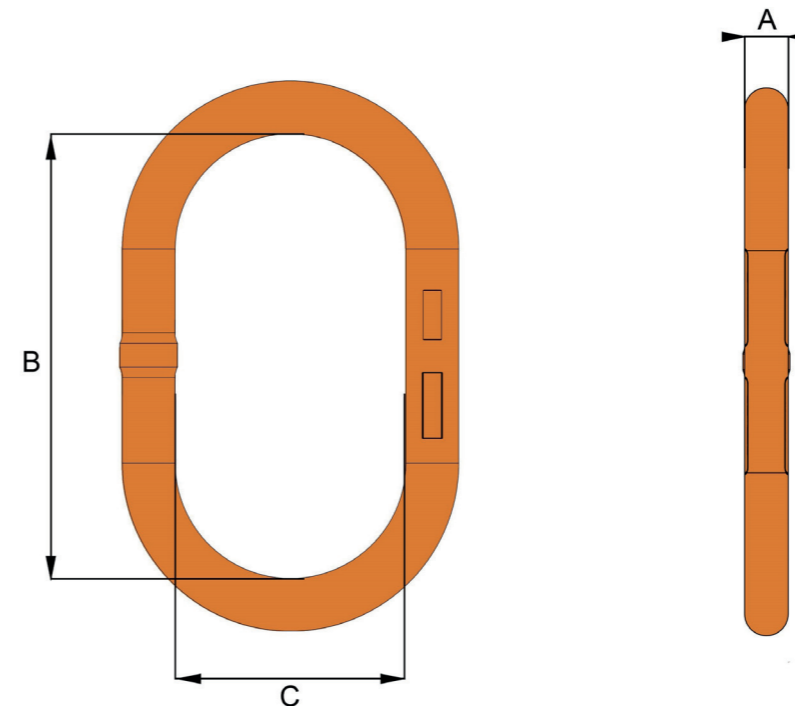
Material & hardness: manufactured from grade 8 triple alloy steel with Zinc-Tough treatment, and with a hardness range of 34 to 36 HRC.

Average impact energy (Charpy): 42 Joules minimum impact resistance at -40°C (up to 50mm diameter sizes).

Testing: individually proof load tested to 2.5 times working load limit, and 100% MPI tested.

Embossing: includes product description (i.e., "HA22ML OS+ ZT") and batch number.

Safety factor: 5 : 1.



Specifications

Part Code	Description	A inch	B inch	C inch	WLL lbs	MPF lbs	MBL lbs	Mass lbs
330.220+ZT	HA22ML OS+ ZT	7/8	10-3/4	5-5/8	15432	38667	77109	5.03
330.250+ZT	HA25ML OS+ ZT	1	10-3/4	5-5/8	20503	51481	102512	6.86
330.280+ZT	HA28ML OS+ ZT	1-1/8	10-3/4	5-5/8	31967	80031	159838	8.33
330.320+ZT	HA32ML OS+ ZT	1-1/4	10-3/4	5-5/8	41887	104760	209521	11.07
330.360+ZT	HA36ML OS+ ZT	1-7/16	10-3/4	5-5/8	57320	143427	286630	14.29
330.400+ZT	HA40ML OS+ ZT	1-9/16	11	6	67240	168381	336313	18.65
330.450+ZT	HA45ML OS+ ZT	1-3/4	12-3/4	7	88184	220537	441074	26.85
330.500+ZT	HA50ML OS+ ZT	2	14	7-3/4	112436	281235	562470	36.46
330.650+ZT	HA65ML OS+ ZT	2-9/16	16-1/8	8-5/8	165347	413647	827070	72.80
330.750+ZT	HA75ML OS+ ZT	3	18	10	220462	551455	1102685	108.00