DELTA® HOISTING EQUIPMENT

DELTALOCK®

LIFTING INSTRUCTIONS| LIFTING POINTS

 [YE.8.030]	 [YE.8.031]	 [YE.8.032]
 [YE.8.033]	 [YE.8.034]	 [YE.8.057/058]
 [YE.8.081]		**GRADE 80 COMPONENTS ACCORDING TO EN 1677** CE

NOTE:	All of the information reported herein is based on data available at the moment of printing. We reserve the right to modify our own products at any moment without notice. Please read the operating instructions carefully before using this product. Always keep a copy of this instruction manual at hand. Failure to read and comply with the contents of this manual can result in serious body injury or death, and property damage.
⚠	**THIS IS THE SAFETY ALERT SYMBOL. WHEN YOU SEE THIS SYMBOL ON YOUR PRODUCTS OR IN THIS MANUAL, BE ALERT FOR DANGEROUS SITUATIONS. FOLLOW RECOMMENDED AND SAFE OPERATING INSTRUCTIONS AT ALL TIMES.**

CONTENT	

General information
➢ Always check local guidelines and country specifications.
➢ Always choose a suitable a safe lifting method, which can safeguard the safety of the user and its environment.
➢ If you have any doubts when choosing, advise a professional in order to make a case study of the lifting purpose.
➢ Lifting point mays only be used by designated and trained personnel of age, whom are qualified. For instance, who are qualified welders.
➢ Always wear protective clothing, shoes or any other additional attributes.
➢ Inspect the lifting points regularly and before each use for tightness, corrosion, wear, deformation, or any other kind of damage.
➢ Determine the location of the lifting point with respect to design with adequate raw material strength so that applied force will be absorbed without causing deformations. If you have any doubts, please contact an professional for a case study, in order to select the correct WLL and material.
➢ Never exceed the working load limit. (see tables)
➢ When lifting points are only used for lashing, the working load limit (safe working load) can be doubled: Lashing capacity LC = 2 x WLL.
➢ Never stand, walk or work under the suspended load. Always stay clear from the load.
➢ Lifting points may not be used for transporting or lifting people.

Installation information

⚠ DANGER/WARNING

Improper installation can result to dangerous situations and even deadly injuries.

- Always calculate and measure the weight of the load and make sure that it does not exceed the rated capacity. Always include a safety factor.
- Always choose a suitable a safe lifting method, which can safeguard the safety of the user and its environment.
- Always visually check the lifting points/equipment on the following: wear, cracks, deformation or corrosion.
- Keep in mind the capacity factor at different angles.
- Never swing the load.

1-leg chain:

- Install the lifting point in the centre of gravity of the load.

2-leg chain:

- For 2-leg chains, the lifting points must be equally divided to/or above the load's center of gravity.

3 /4 leg chain:

- For 3 / 4 chains, the lifting points must be placed symmetrically around the center of gravity.

When attaching the load, avoid any risk of rotation or sliding of the load. The load must stay together. Always perform the following test before actually start the lifting procedure: Lift until the load clears the ground and check load distribution. Also make sure that the lifting equipment keeps the load.

Never detach any lifting equipment, when load is not fully lowered. Always make sure that it is tension free.

If you have any other question, please contact your supplier or a professional.

Surroundings:

⚠ DANGER/WARNING

*temperature affects capacity of lifting points.

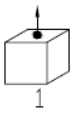
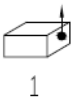
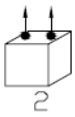
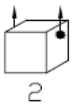
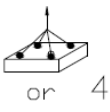
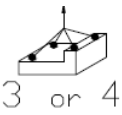
Temperature	Reduction	Temperature
- 40 to + 100℃	0 %	-40°F to 212°F
+ 100 to + 200℃	- 15 %	212°F to 392°F
+ 200 to + 250℃	- 20 %	392°F to 482°F
+ 250 to + 350℃	- 25 %	482°F to 662°F

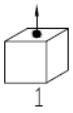
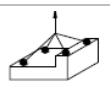
* Temperatures above 350°C (662°F) are not permitted.

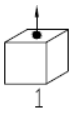
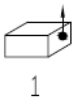
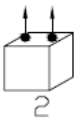
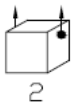
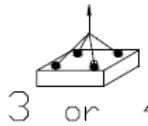
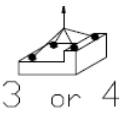
Lifting points may not be used under chemical influence such as acids, alkaline solutions and vapors such as e.g. pickling bath or heat plants.

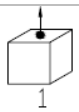
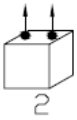
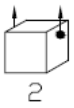
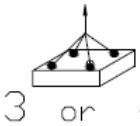
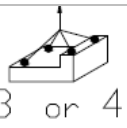
The place where the lifting points are to be mounted must be clearly marked with a contrasting color.

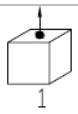
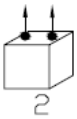
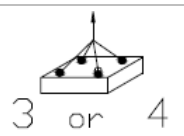
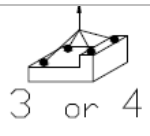
Inspection & Storage
Inspection must be done according to the local guidelines.
If needed, inspection by a professional at least once a year.
Check the following regularly:
➢ The lifting point must be complete.
➢ Check if lifting points is still strictly secured
➢ If necessary, check any welds.
➢ The working load limit and manufacturers stamp must be clear.
➢ Check bolts and nuts for deformation or damage.
➢ Check surface of lifting bolts on any kind of deformation, cracks and nicks. Especially load bearing areas.
➢ Check for any signs of corrosion.
➢ Wear may not be more than 10% of the cross-section diameter.
Storage:
➢ Lifting equipment should be stored at a constant temperature, dry. This will avoid corrosion.
➢ Correct storage will ensure a longer lifetime of your lifting equipment.
➢ Damaged or worn equipment must be reported and taken out of use. Also it needs to be discarded in a proper way according to environmental regulations.

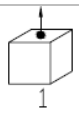
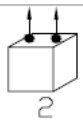
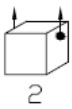
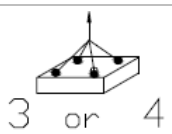
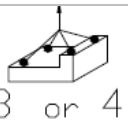
Lifting table [YE.8.030 & YE.8.031 series]									
Loading Method	 1	 1	 2	 2	 2		 3 or 4		 3 or 4
Inclination	0º	90º	0º	90º	0-45º	45-60º	0-45º	45-60º	Asymetric
Working Load	WLL (T)	WLL (T)	WLL (T)	WLL (T)	WLL (T)	WLL (T)	WLL (T)	WLL (T)	WLL (T)
Safety Factor	4	4	4	4	4	4	4	4	4
Loading factor		1.0		2.0	1.4	1.0	2.1	1.5	1.0
Thread size									
M6	0.40	0.15	0.80	0.30	0.21	0.15	0.32	0.23	0.15
M8	0.80	0.40	1.60	0.80	0.56	0.40	0.84	0.60	0.40
M10	1.00	0.40	2.00	0.80	0.56	0.40	0.84	0.60	0.40
M12	2.00	0.75	4.00	1.50	1.05	0.75	1.58	1.13	0.75
M14	3.00	1.00	6.00	2.00	1.40	1.00	2.10	1.50	1.00
M16	4.00	1.50	8.00	3.00	2.10	1.50	3.15	2.25	1.00
M18	5.00	2.00	10.00	4.00	2.80	2.00	4.20	3.00	2.00
M20	6.00	2.30	12.0	4.60	3.22	2.30	4.83	3.45	2.30
M22	7.00	2.80	14.00	5.60	3.92	2.80	5.88	4.20	2.80
M24	8.00	3.20	16.00	6.40	4.48	3.20	6.72	4.80	3.20
M27	10.00	4.00	20.00	8.00	5.60	4.00	8.40	6.00	4.00
M30	12.00	4.50	24.00	9.00	6.30	4.50	9.50	6.80	4.50
M36	16.00	7.00	32.00	14.00	9.80	7.00	14.70	10.50	7.00
M42	24.00	9.00	48.00	18.00	12.60	9.00	18.90	13.50	9.00
M48	32.00	12.00	64.00	24.00	16.80	12.00	25.20	18.00	12.00

Lifting table [YE.8.032 series]									
Loading Method									
Inclination	0º	90º	0º	90º	0-45º	45-60º	0-45º	45-60º	Asymetric
Working Load	WLL (T)	WLL (T)	WLL (T)	WLL (T)	WLL (T)	WLL (T)	WLL (T)	WLL (T)	WLL (T)
Safety Factor	4	4	4	4	4	4	4	4	4
Loading factor	2.0	1.0	4.0	2.0	1.4	1.0	2.1	1.5	1.0
Thread size									
M8	0.60	0.30	1.20	0.60	0.42	0.30	0.63	0.45	0.30
M10	1.00	0.50	2.00	1.00	0.70	0.50	1.05	0.75	0.50
M12	1.00	0.50	2.00	1.00	0.70	0.50	1.05	0.75	0.50
M14	2.24	1.12	4.48	2.24	1.57	1.12	2.35	1.68	1.12
M16	2.24	1.12	4.48	2.24	1.57	1.12	2.35	1.68	1.12
M20	4.00	2.00	8.00	4.00	2.80	2.00	4.20	3.00	2.00
M24	6.30	3.15	12.60	6.30	4.41	3.15	6.62	4.73	3.15
M27	6.30	3.15	12.60	6.30	4.41	3.15	6.62	4.73	3.15
M30 (5T)	10.60	5.3	21.20	10.60	7.42	5.30	11.13	7.95	5.30
M36	12.80	8.00	25.60	16.00	11.20	8.00	16.80	12.00	8.00
M39	12.80	8.00	25.60	16.00	11.20	8.00	16.80	12.00	8.00
M42	16.00	10.00	32.00	20.00	14.00	10.00	21.00	15.00	10.00
M48	16.00	10.00	32.00	20.00	14.00	10.00	21.00	15.00	10.00
M56	24.00	15.00	48.00	30.00	21.00	15.00	31.50	22.50	15.00
M64	24.00	15.00	48.00	30.00	21.00	15.00	31.50	22.50	15.00

Lifting table [YE.8.033 series]									
Loading Method									
Inclination	0º	90º	0º	90º	0-45º	45-60º	0-45º	45-60º	Asymetric
Working Load	WLL (T)	WLL (T)	WLL (T)	WLL (T)	WLL (T)	WLL (T)	WLL (T)	WLL (T)	WLL (T)
Safety Factor	4	4	4	4	4	4	4	4	4
Loading factor	1.0	1.0	2.0	2.0	1.4	1.0	2.1	1.5	1.0
Thread size									
M8	0.30	0.30	0.60	0.60	0.42	0.30	0.63	0.45	0.30
M10	0.63	0.63	1.26	1.26	0.88	0.63	1.32	0.95	0.63
M12	1.00	1.00	2.00	2.00	1.40	1.00	2.10	1.50	1.00
M14	1.20	1.20	2.40	2.40	1.68	1.20	2.52	1.80	1.20
M16	1.50	1.50	3.00	3.00	2.10	1.50	3.15	2.25	1.20
M18	2.00	2.00	4.00	4.00	2.80	2.00	4.20	3.00	2.00
M20	2.50	2.50	5.00	5.00	3.50	2.50	5.25	3.75	2.50
M24	4.00	4.00	8.00	8.00	5.60	4.00	8.40	6.00	4.00
M27	4.00	4.00	8.00	8.00	5.60	4.00	8.40	6.00	4.00
M30	5.00	5.00	10.00	10.00	7.00	5.00	10.50	7.50	5.00
M36(7T)	7.00	7.00	14.00	14.00	9.80	7.00	14.70	10.50	7.00
M36 (8T)	8.00	8.00	16.00	16.00	11.20	8.00	16.80	12.00	8.00
M42(10T)	10.00	10.00	20.00	20.00	14.00	10.00	21.00	15.00	10.00
M42(15T)	15.00	15.00	30.00	30.00	21.00	15.00	31.50	22.50	15.00
M48	20.00	20.00	40.00	40.00	28.00	20.00	42.00	30.00	20.00

Lifting table [YE.8.034 series]									
Loading Method									
Inclination	0º	90º	0º	90º	0-45º	45-60º	0-45º	45-60º	Asymetric
Working Load	WLL (T)	WLL (T)	WLL (T)	WLL (T)	WLL (T)	WLL (T)	WLL (T)	WLL (T)	WLL (T)
Safety Factor	4	4	4	4	4	4	4	4	4
Loading factor	2.6	1.0	5.2	2.0	1.4	1.0	2.1	1.5	1.0
Thread size									
M8	0.80	0.30	1.60	0.60	0.42	0.30	0.63	0.45	0.30
M10	1.00	0.40	2.00	0.80	0.56	0.40	0.84	0.60	0.40
M12	2.00	0.75	4.00	1.50	1.00	0.75	1.58	1.10	0.75
M16	4.00	1.50	8.00	3.00	2.10	1.50	3.15	2.20	1.50
M20	6.00	2.30	12.00	4.60	3.20	2.30	4.83	3.40	2.30
M24	8.00	3.20	16.00	6.40	4.50	3.20	6.72	4.80	3.20
M30	12.00	4.50	24.00	9.00	6.30	4.50	9.45	6.70	4.50
M36	18.00	7.00	36.00	14.00	9.80	7.00	14.7	10.50	7.00

Lifting table [YE.8.057 & YE.8.058 series]									
Loading Method									
Inclination	0º	90º	0º	90º	0-45º	45-60º	0-45º	45-60º	Asymetric
Working Load	WLL (T)	WLL (T)	WLL (T)	WLL (T)	WLL (T)	WLL (T)	WLL (T)	WLL (T)	WLL (T)
Safety Factor	4	4	4	4	4	4	4	4	4
Loading factor	1.0	1.0	2.0	2.0	1.4	1.0	2.1	1.5	1.0
Capacity (T)									
1.12	1.12	1.12	2.24	2.24	1.57	1.12	2.35	1.68	1.12
2.00	2.00	2.00	4.00	4.00	2.80	2.00	4.20	3.00	2.00
3.15	3.15	3.15	6.30	6.30	4.41	3.15	6.62	4.73	3.15
5.30	5.30	5.30	10.60	10.60	7.42	5.30	11.13	7.95	5.30
8.00	8.00	8.00	16.00	16.00	11.20	8.00	16.80	12.00	8.00
12.5	12.5	12.5	25.00	25.00	17.50	12.50	26.25	18.75	12.50
15	15	15	30.00	30.00	21.00	15.00	31.50	22.50	15.00
20	20	20	40.00	40.00	28.00	20.00	42.00	30.00	20.00

Lifting table [YE.8.081 series]									
Loading Method									
Inclination	0º	90º	0º	90º	0-45º	45-60º	0-45º	45-60º	Asymetric
Working Load	WLL (T)	WLL (T)	WLL (T)	WLL (T)	WLL (T)	WLL (T)	WLL (T)	WLL (T)	WLL (T)
Safety Factor	4	4	4	4	4	4	4	4	4
Loading factor	1.0	1.0	2.0	2.0	1.4	1.0	2.1	1.5	1.0
Capacity (T)									
1.00	1.00	1.00	2.00	2.00	1.40	1.00	2.10	1.50	1.00
2.00	2.00	2.00	4.00	4.00	2.80	2.00	4.20	3.00	2.00
3.00	3.00	3.00	6.00	6.00	4.20	3.00	6.30	4.50	3.00
5.00	5.00	5.00	10.00	10.00	7.00	5.00	10.50	7.50	5.00
8.00	8.00	8.00	16.00	16.00	11.20	8.00	16.80	12.00	8.00
10.00	10.00	10.00	20.00	20.00	14.00	10.00	21.00	15.00	10.00
12.50	12.00	12.50	25.00	25.00	17.50	12.50	26.25	18.75	12.50
20.00	20.00	20.00	40.00	40.00	28.00	20.00	42.00	30.00	20.00

9. Copy of derived certificate of test & CE Declaration of conformity

DELTALOCK®

AFGELEID TEST CERTIFICAAT & CE CONFORMITEITSVERKLARING

Hiermede verklaren wij dat het hieronder vermelde product zorgvuldig geïnspecteerd en beproefd is en dat de volgende beproevings en inspectiegegevens overeenstemmen met de specificaties van ons technisch dossier.

Omschrijving:

Model:

Serienummer:

Maximale last (W.L.L.):

Minimum breeklast (M.B.L.):

Fabricage proefbelasting (M.P.F.):

Wij verklaren dat het bovengenoemde product is getest volgens de veiligheidsfactor en overige veiligheidseisen van de Europese Norm 1677.

DERIVED CERTIFICATE OF TEST & DECLARATION OF CE CONFORMITY

This is to certify that the under-mentioned product has been thoroughly inspected and tested and that the following data of inspection and test is in conformity with the requirements of our technical file.

:Description

:Type

:Serial number

:Working Load Limit (W.L.L.)

:Minimum Break Load (M.B.L.)

:Manufacturing proof force (M.P.F.)

We declare that the above-mentioned product is tested according to the safety factor and further safety requirements in conformity with the European Norm 1677.

Handtekening / Signature: M.F. Stam

Functie / Position: Directeur / Director

Datum / Date: 27-03-2023

Factuur nr. / Invoice no.: INV/2020/0001

DELTA HOISTING EQUIPMENT ZAANDAM

DELTA® HOISTING EQUIPMENT

Address:

Uiterdijk 6-7
1505 GW Zaandam
The Netherlands

SE&O