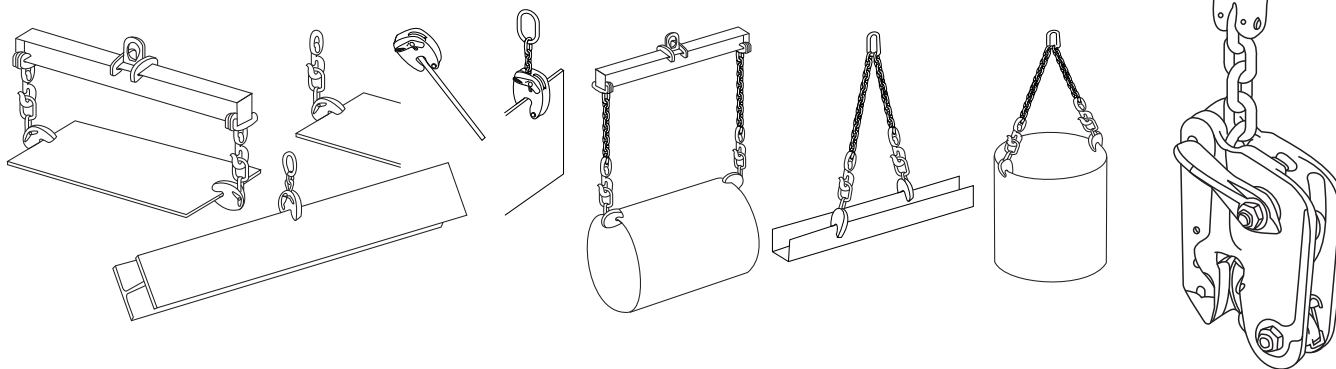


Applications

The NK is designed for heavy duty applications for lifting and revolving of plates, profiles, fabricated assemblies, and steel frames in the harshest environments.



Description

Clamps fitted with a safety spring mechanism for a permanent contact of the cam onto the piece to be lifted, even when it is being put down. This model also offers an automatic grasping mechanism, causing the clamp's locking when the plate is correctly positioned ie. at the back of the clamp's throat. The locking lever does not stick out so that the clamp may be used on the bare ground. The chain enables the revolving and makes the clamp's positioning easier. The corrugated cam only marks one side of the load.

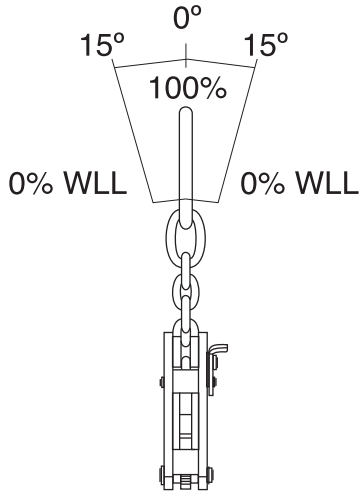
Functioning

To open the clamp's cam, push the locking lever downwards, until the trigger activates ; the lever remains in a down position. When the load is driven home at the back of the clamp's throat, the trigger activates and the clamp locks itself automatically. The corrugated cam penetrates into the load's material. Lifting causes proportional clamping, thus avoiding marking the load excessively. To release the clamp, push down the locking lever completely, until it locks in the open position. The clamp may also be used without the automatism being activated. To do so, use the manual opening and closing thanks to the lever without bringing it to its limit stop (trigger not activated). Loads may be grasped horizontally or vertically and revolved in inverse position (90 or 180°).

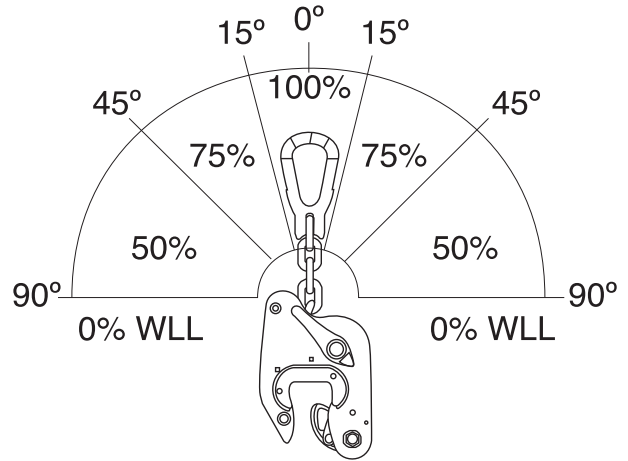
Important instructions

- Do not use for fragile loads.
- Using a NK marks the load.
- The plate or piece to be lifted must always be driven home into the throat of the clamp.
- Load maximum surface hardness 330 HB and minimum tensile strength 20daN/mm² (29000psi).
- Some stainless steels are particularly abrasive ; in this case the condition of the cam's teeth has to be checked at each use.
- To avoid injury, ensure the clamps are always unlocked when not in use (closed cam).
- The minimum weight of lifting load should be equal to 5% of the clamp's WLL (eg if clamps WLL is 1000 kg, then minimum weight is 50 kg). This value is given for a clamp in good working order and respecting Tractel Inc. conditions of use and recommendations. Consult Tractel in case of loads with weight inferior to the minimum recommended value.
- Lifting clamps are not suitable for creating permanent joints.
- Never lift more than one plate at a time.
- Apply the downgradation if necessary.
- Working temperature: -20° to +100°C. (-4 to 212F).

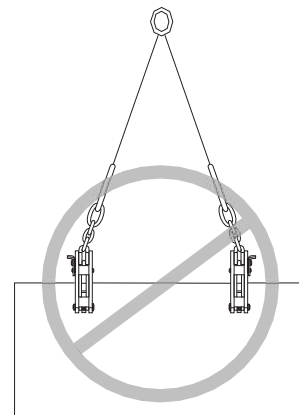
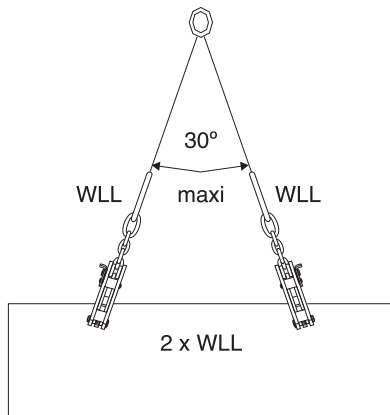
- *Lifting function:* do not exceed the allowable 15° angle between the chain and the flanges' plane.



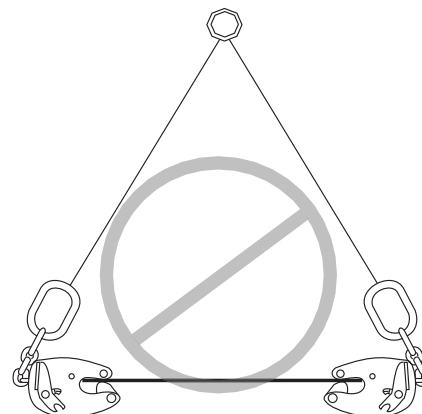
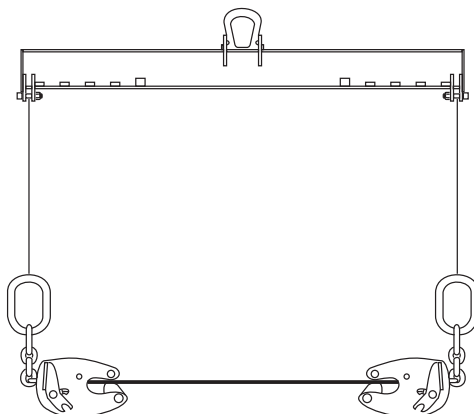
- *Turning function:* for this application, the clamp's working load limit is divided by 2.



- *Function lifting of loads in a vertical position with 2 clamps and no lifting beam:* do not exceed the 30° sling angle.



- *Function lifting of loads in a horizontal position using 2 clamps at least and a lifting beam:* the working load limit of each clamp is divided by 2.



General characteristics

- Manufactured without load bearing welds.
- Hot epoxy coating.
- Safety factor: 3 in accordance with ANSI B30.20.
- Product delivered with instructions for use.
- Every clamp is tested twice the working load limit.
- 1 year warranty against any defect of fabrication.

Dimensional characteristics

Ref.	Item Number	WLL lbs. (t) kg.	Opening		A*		B	C	D	E	F	G	H	I	J	K	L	Weight
			min	max	min	max												
			in./mm		in./mm		in./mm		in./mm		in./mm		in./mm		in./mm		lb./kg.	
NK1-0-20	50288	3300 (1.5)	0	3/4	17 1/8	18 1/2	7 9/32	4 23/32	1 3/16	5/16	2 3/4	2 11/16	4 1/3*	5/8	2 3/8*	11/32	3 1/4	8.80
		1 500	0	20	435	470	185	120	30	8	68	82.5	110*	16	60*	10.5	82	4
NK1-20-40	50298	3300 (1.5)	7/8	1 1/2	17 5/8	19 3/8	8 13/16	5 15/16	1 3/4	5/16	3 3/16	3 1/4	4 1/3*	5/8	2 3/8*	11/32	3 13/16	12.76
		1 500	20	40	448	493	224	151	44	8	81	82.6	110*	16	60*	10.6	97	5.8
NK1-40-60	50308	3300 (1.5)	1 5/8	2 5/16	18 1/4	20	9 25/32	6 3/4	1 3/4	5/16	3 3/4	3 1/4	4 1/3*	5/8	2 3/8*	11/32	4 13/32	13.2
		1 500	40	60	463	508	250	171	44	8	96	82.7	110*	16	60*	10.7	112	6
NK2-0-30	50318	6600 (3)	0	1 1/8	23 3/8	25 13/32	10 15/16	7 1/2	2 1/4	1/2	3 3/4	4 13/16	4 5/8	7/8	2 11/16	13/16	4 23/32	26.40
		3 000	0	30	594	645	278	190	58	13	95	122	117	22	68	20.5	120	12
NK2-30-60	50328	6600 (3)	1 3/16	2 5/16	23 15/16	26 1/6	12 3/16	8 1/4	2 1/2	1/2	4 7/16	4 13/16	4 5/8	7/8	2 11/16	13/16	5 19/32	33.0
		3 000	30	60	608	662	310	210	65	13	113	122	117	22	68	20.6	142	15
NK2-60-90	50338	6600 (3)	2 3/8	3 1/2	24 7/8	26 3/4	9 21/32	2 3/4	1/2	5	4 13/16	4 5/8	7/8	2 11/16	13/16	6 3/16	37.40	
		3 000	60	90	631	680	338	245	70	13	128	122	117	22	68	20.7	157	17
NK3-0-40	50348	9900 (4.5)	0	1 1/2	25 3/8	28	14 1/4	9 27/32	2 19/32	1/2	5 5/16	5 1/2	4 5/8	7/8	2 11/16	13/16	6 7/16	55.0
		4 500	0	40	645	711	362	250	66	13	135	140	117	22	68	20.8	163	25
NK3-40-80	50358	9900 (4.5)	1 5/8	3	25 13/16	28 5/16	15 9/16	10 5/8	3 5/32	1/2	6 1/3	5 29/32	4 5/8	7/8	2 11/16	13/16	7 13/32	57.2
		4 500	40	80	655	719	395	270	80	13	160	150	117	22	68	20.9	188	26
NK3-80-120	50368	9900 (4.5)	3 3/16	4 5/8	27 7/16	29 15/16	14 5/8	12 1/4	3 1/4	1/2	7 3/32	5 29/32	4 1/2	7/8	2 19/32	25/32	8 3/16	59.4
		4 500	80	120	696	760	371	312	82	13	180	145	115	22	66	20.10	208	27
NK5-0-50	50378	16500 (7.5)	0	2	39 1/8	43 5/8	15 25/32	12 27/32	3 7/8	23/32	5 29/32	9 1/4	8 1/16	1 3/8	3 15/16	1	7 7/8	93.06
		7 500	0	50	993	1108	402	326	98	18	150	235	205	35	100	25	200	42.3
NK5-50-100	50388	16500 (7.5)	2	3 7/8	41 1/4	45 3/4	17 11/16	13	3 3/4	23/32	8 3/32	9 1/4	8 1/16	1 3/8	3 15/16	1	9 5/8	110.00
		7 500	50	100	1048	1162	449	330	95	18	205	235	205	35	100	25	244	50
NK5-100-150	50398	16500 (7.5)	4	5 5/8	42 1/2	46 3/4	18 11/16	15 9/16	4 1/8	23/32	9 1/16	9 1/4	8 1/16	1 3/8	3 15/16	1	10 1/2	132.00
		7 500	100	150	1080	1188	474	395	105	18	230	235	205	35	100	25	267	60

