

Custom lead screw machining

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Customer name

Nanotec offers various types of machining for lead screws: Screw end with chamfer, width across flats, metric ISO thread, non-locating bearing seat, locating bearing seat and press fit as well as smooth screw ends. Please select the lead screw by thread code as well as the screw ends and fill in the screw length and the required number of pieces. You will find details and dimensions on the following pages.

For applications with extremely high demands in terms of service life, all lead screws are also optionally available with DLC coating. The protective coating made of carbon material improves the friction characteristics and thereby increases the service life of the nuts by approx. 100%.

No.	Thread code	Overall length (50-500 mm)	1st screw end	2nd screw end	Coating	Pcs
1						
2						
3						
4						
5						

Please note

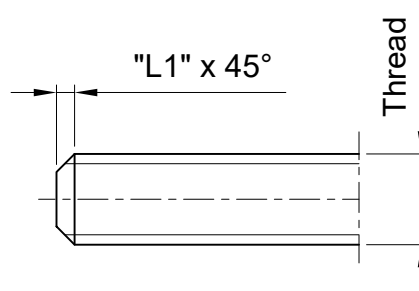
- The standard tolerance of the screw length is +3/+0 mm.
- If the lead screw is in stock, our delivery time is approximately one week for 1-24 pieces and approx. two weeks for 25 or more pieces. Please go to our website to check the stock availability of a screw.
- For larger quantities, other modifications are also possible. For further information please contact our sales department: info@us.nanotec.com
- During deburring, a chamfer with an undefined angle and size is created, ensuring the optimal entry of the screw and reducing the risk of injuries. If no specific selection is made, the screw end will be deburred. Deburring does not incur any additional processing costs, unlike a defined chamfer.

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Defined chamfer



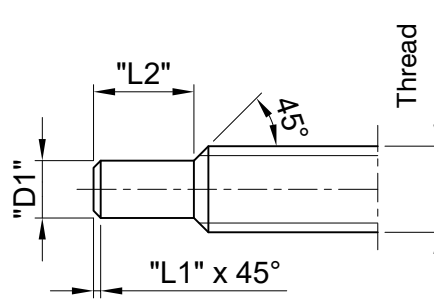
	Thread code	Ø Thread	Thread lead	L1 Chamfer length
NEMA 8	UEAI	3.50	0.30	0.8
	UEAP	3.50	0.61	0.8
	TDBA	3.50	1.00	0.8
	UEBF	3.50	1.22	0.8
	UECB	3.50	2.00	0.8
	UEEB	3.50	4.00	0.8
	UEIA	3.50	8.00	0.8
NEMA 11	UGAQ	4.76	0.64	1.0
	UGBG	4.76	1.27	1.0
	UGCN	4.76	2.54	1.0
	UGFC	4.76	5.08	1.0
	THCA	5.00	2.00	1.0
NEMA 14/17	UIAP	5.56	0.61	1.2
	UIBF	5.56	1.22	1.2
	UICL	5.56	2.44	1.2
	UIEV	5.56	4.88	1.2
	UIJS	5.56	9.75	1.2
	TJBA	6.00	1.00	1.2
	TJCA	6.00	2.00	1.2
	UKAS	6.35	0.79	1.2
	UKBN	6.35	1.59	1.2
	UKDE	6.35	3.18	1.2
NEMA 23	UKGI	6.35	6.35	1.2
	UQBG	9.53	1.27	2.2
	UQBN	9.53	1.59	2.2
	UQCD	9.53	2.11	2.2
	UQCN	9.53	2.54	2.2
	UQEG	9.53	4.23	2.2
	UQFC	9.53	5.08	2.2
	UQKE	9.53	10.16	2.2
	UQMS	9.53	12.70	2.2
	TSCA	10.00	2.00	2.2
	TSGA	10.00	6.00	2.2

All dimensions are in mm with general tolerances as per DIN ISO 2768-mK.

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Smooth screw end



	Thread code	Ø Thread	Thread lead	L1 Chamfer length	L2 Shoulder length	D1 Ø Shoulder
NEMA 8	UEAI*	3.50	0.30	0.2	3	1.5 h7
	UEAP	3.50	0.61	0.2	3	1.5 h7
	TDBA*	3.50	1.00	0.2	3	1.5 h7
	UEBF	3.50	1.22	0.2	3	1.5 h7
	UECB*	3.50	2.00	0.2	3	1.5 h7
	UEEB	3.50	4.00	0.2	3	1.5 h7
	UEIA	3.50	8.00	0.2	3	1.5 h7
NEMA 11	UGAQ*	4.76	0.64	0.4	7	2.5 h7
	UGBG	4.76	1.27	0.4	7	2.5 h7
	UGCN	4.76	2.54	0.4	7	2.5 h7
	UGFC*	4.76	5.08	0.4	7	2.5 h7
	THCA*	5.00	2.00	0.4	7	3 h7
NEMA 14/17	UIAP*	5.56	0.61	0.5	7	3.5 h7
	UIBF	5.56	1.22	0.5	7	3.5 h7
	UICL	5.56	2.44	0.5	7	3.5 h7
	UIEV*	5.56	4.88	0.5	7	3.5 h7
	UIJS	5.56	9.75	0.5	7	3.5 h7
	TJBA*	6.00	1.00	0.5	7	4 h7
	TJCA*	6.00	2.00	0.5	7	4 h7
	UKAS*	6.35	0.79	0.5	7	4 h7
	UKBN*	6.35	1.59	0.5	7	4 h7
	UKDE*	6.35	3.18	0.5	7	4 h7
	UKGI*	6.35	6.35	0.5	7	4 h7
	UQBG	9.53	1.27	0.8	12	5 h7
NEMA 23	UQBN*	9.53	1.59	0.8	12	5 h7
	UQCD	9.53	2.11	0.8	12	5 h7
	UQCN	9.53	2.54	0.8	12	5 h7
	UQEG	9.53	4.23	0.8	12	5 h7
	UQFC	9.53	5.08	0.8	12	5 h7
	UQKE*	9.53	10.16	0.8	12	5 h7
	UQMS	9.53	12.70	0.8	12	5 h7
	TSCA*	10.00	2.00	0.8	12	5 h7
	TSGA*	10.00	6.00	0.8	12	5 h7

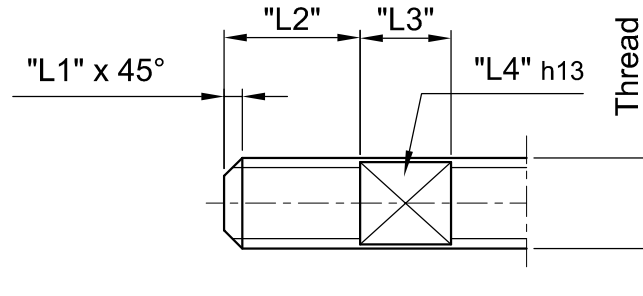
All dimensions are in mm with general tolerances as per DIN ISO 2768-mK.

* **Note:** There is no additional charge for one smooth screw end on screws 300 mm or shorter.

Custom lead screw machining

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Width across flats



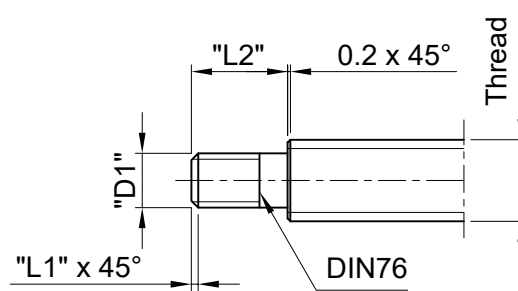
	Thread code	Ø Thread	Thread lead	L1 Chamfer length	L2 Width across flats position	L3 Width across flats length	L4 Width across flats
NEMA 8	UEAI	3.50	0.30	-	-	-	-
	UEAP	3.50	0.61	-	-	-	-
	TDBA	3.50	1.00	-	-	-	-
	UEBF	3.50	1.22	-	-	-	-
	UECB	3.50	2.00	-	-	-	-
	UEEB	3.50	4.00	-	-	-	-
	UEIA	3.50	8.00	-	-	-	-
NEMA 11	UGAQ	4.76	0.64	1.0	3	7	AF3 h13
	UGBG	4.76	1.27	1.0	3	7	AF3 h13
	UGCN	4.76	2.54	1.0	3	7	AF3 h13
	UGFC	4.76	5.08	1.0	3	7	AF3 h13
	THCA	5.00	2.00	1.0	3	7	AF3 h13
NEMA 14/17	UIAP	5.56	0.61	1.2	3	7	AF4 h13
	UIBF	5.56	1.22	1.2	3	7	AF4 h13
	UICL	5.56	2.44	1.2	3	7	AF4 h13
	UIEV	5.56	4.88	1.2	3	7	AF4 h13
	UIJS	5.56	9.75	1.2	3	7	AF4 h13
	TJBA	6.00	1.00	1.2	3	7	AF4 h13
	TJCA	6.00	2.00	1.2	3	7	AF4 h13
	UKAS	6.35	0.79	1.2	3	7	AF4 h13
	UKBN	6.35	1.59	1.2	3	7	AF4 h13
	UKDE	6.35	3.18	1.2	3	7	AF4 h13
NEMA 23	UKGI	6.35	6.35	1.2	3	7	AF4 h13
	UQBG	9.53	1.27	2.2	3	7	AF6 h13
	UQBN	9.53	1.59	2.2	3	7	AF6 h13
	UQCD	9.53	2.11	2.2	3	7	AF6 h13
	UQCN	9.53	2.54	2.2	3	7	AF6 h13
	UQEG	9.53	4.23	2.2	3	7	AF6 h13
	UQFC	9.53	5.08	2.2	3	7	AF6 h13
	UQKE	9.53	10.16	2.2	3	7	AF6 h13
	UQMS	9.53	12.70	2.2	3	7	AF6 h13
	TSCA	10.00	2.00	2.2	3	7	AF6 h13
	TSGA	10.00	6.00	2.2	3	7	AF6 h13

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ISO metric screw thread



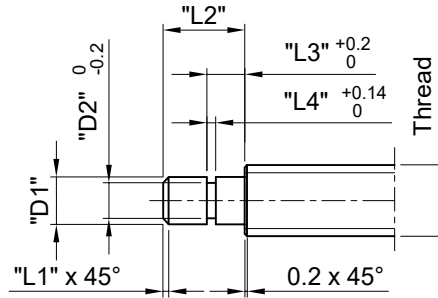
	Thread code	Ø Thread	Thread lead	L1 Chamfer length	L2 Shoulder length	D1 Thread
NEMA 8	UEAI	3.50	0.30	0.3	3	M2
	UEAP	3.50	0.61	0.3	3	M2
	TDBA	3.50	1.00	0.3	3	M2
	UEBF	3.50	1.22	0.3	3	M2
	UECB	3.50	2.00	0.3	3	M2
	UEEB	3.50	4.00	0.3	3	M2
	UEIA	3.50	8.00	0.3	3	M2
NEMA 11	UGAQ	4.76	0.64	0.4	7	M2.5
	UGBG	4.76	1.27	0.4	7	M2.5
	UGC�	4.76	2.54	0.4	7	M2.5
	UGFC	4.76	5.08	0.4	7	M2.5
	THCA	5.00	2.00	0.4	7	M3
NEMA 14/17	UIAP	5.56	0.61	0.4	7	M3.5
	UIBF	5.56	1.22	0.4	7	M3.5
	UICL	5.56	2.44	0.4	7	M3,5
	UIEV	5.56	4.88	0.4	7	M3,5
	UIJS	5.56	9.75	0.4	7	M3,5
	TJBA	6.00	1.00	0.5	7	M4
	TJCA	6.00	2.00	0.5	7	M4
	UKAS	6.35	0.79	0.5	7	M4
	UKBN	6.35	1.59	0.5	7	M4
	UKDE	6.35	3.18	0.5	7	M4
NEMA 23	UKGI	6.35	6.35	0.5	7	M4
	UQBG	9.53	1.27	0.7	12	M5
	UQBN	9.53	1.59	0.7	12	M5
	UQCD	9.53	2.11	0.7	12	M5
	UQCN	9.53	2.54	0.7	12	M5
	UQEG	9.53	4.23	0.7	12	M5
	UQFC	9.53	5.08	0.7	12	M5
	UQKE	9.53	10.16	0.7	12	M5
	UQMS	9.53	12.70	0.7	12	M5
	TSCA	10.00	2.00	0.7	12	M6
	TSGA	10.00	6.00	0.7	12	M6

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Non-locating bearing seat



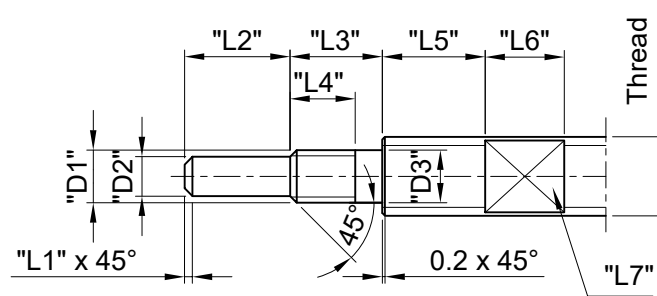
	Thread code	Ø Thread	Thread lead	L1 Chamfer length	L2 Shoulder length	L3 Washer position	L4 Groove width	D1 Ø Shoulder	D2 Ø Groove
NEMA 8	UEAI	3.50	0.30	-	-	-	-	-	-
	UEAP	3.50	0.61	-	-	-	-	-	-
	TDBA	3.50	1.00	-	-	-	-	-	-
	UEBF	3.50	1.22	-	-	-	-	-	-
	UECB	3.50	2.00	-	-	-	-	-	-
	UEEB	3.50	4.00	-	-	-	-	-	-
	UEIA	3.50	8.00	-	-	-	-	-	-
NEMA 11	UGAQ	4.76	0.64	-	-	-	-	-	-
	UGBG	4.76	1.27	-	-	-	-	-	-
	UGC�	4.76	2.54	-	-	-	-	-	-
	UGFC	4.76	5.08	-	-	-	-	-	-
	THCA	5.00	2.00	0.4	7	5.5	0.5	3 j6	2.8
NEMA 14/17	UIAP	5.56	0.61	0.5	7	5.5	0.5	3 j6	2.8
	UIBF	5.56	1.22	0.5	7	5.5	0.5	3 j6	2.8
	UICL	5.56	2.44	0.5	7	5.5	0.5	3 j6	2.8
	UIEV	5.56	4.88	0.5	7	5.5	0.5	3 j6	2.8
	UIJS	5.56	9.75	0.5	7	5.5	0.5	3 j6	2.8
	TJBA	6.00	1.00	0.5	7	5.5	0.5	4 j6	3.8
	TJCA	6.00	2.00	0.5	7	5.5	0.5	4 j6	3.8
	UKAS	6.35	0.79	0.5	7	5.5	0.5	4 j6	3.8
	UKBN	6.35	1.59	0.5	7	5.5	0.5	4 j6	3.8
	UKDE	6.35	3.18	0.5	7	5.5	0.5	4 j6	3.8
	UKGI	6.35	6.35	0.5	7	5.5	0.5	4 j6	3.8
	UQBG	9.53	1.27	0.8	8	6.7	0.7	5 j6	4.8
NEMA 23	UQBN	9.53	1.59	0.8	8	6.7	0.7	5 j6	4.8
	UQCD	9.53	2.11	0.8	8	6.7	0.7	5 j6	4.8
	UQCN	9.53	2.54	0.8	8	6.7	0.7	5 j6	4.8
	UQEG	9.53	4.23	0.8	8	6.7	0.7	5 j6	4.8
	UQFC	9.53	5.08	0.8	8	6.7	0.7	5 j6	4.8
	UQKE	9.53	10.16	0.8	8	6.7	0.7	5 j6	4.8
	UQMS	9.53	12.70	0.8	8	6.7	0.7	5 j6	4.8
	TSCA	10.00	2.00	0.8	8	6.7	0.7	5 j6	4.8
	TSGA	10.00	6.00	0.8	8	6.7	0.7	5 j6	4.8

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Locating bearing seat + press fit



	Thread code	Ø Thread	Thread lead	L1 Chamfer length	L2 Shoulder length	L3 Shoulder length	L4 Thread length	L5 Width across flats position	L6 Width across flats length	L7 Width across flats	D1 Thread	D2 Ø Shoulder	D3 Ø Shoulder
NEMA 8	UEAI	3.50	0.30	-	-	-	-	-	-	-	-	-	-
	UEAP	3.50	0.61	-	-	-	-	-	-	-	-	-	-
	TDBA	3.50	1.00	-	-	-	-	-	-	-	-	-	-
	UEBF	3.50	1.22	-	-	-	-	-	-	-	-	-	-
	UECB	3.50	2.00	-	-	-	-	-	-	-	-	-	-
	UEEB	3.50	4.00	-	-	-	-	-	-	-	-	-	-
NEMA 11	UEIA	3.50	8.00	-	-	-	-	-	-	-	-	-	-
	UGAQ	4.76	0.64	-	-	-	-	-	-	-	-	-	-
	UGBG	4.76	1.27	-	-	-	-	-	-	-	-	-	-
	UGC�	4.76	2.54	-	-	-	-	-	-	-	-	-	-
	UGFC	4.76	5.08	-	-	-	-	-	-	-	-	-	-
NEMA 14/17	THCA	5.00	2.00	0.2	3.5	11	6.5	3	7	AF3	M3	2 h7	3 j6
	UIAP	5.56	0.61	0.2	3.5	11	6.5	3	7	AF4	M3	2 h7	3 j6
	UIBF	5.56	1.22	0.2	3.5	11	6.5	3	7	AF4	M3	2 h7	3 j6
	UICL	5.56	2.44	0.2	3.5	11	6.5	3	7	AF4	M3	2 h7	3 j6
	UIEV	5.56	4.88	0.2	3.5	11	6.5	3	7	AF4	M3	2 h7	3 j6
	UIJS	5.56	9.75	0.2	3.5	11	6.5	3	7	AF4	M3	2 h7	3 j6
	TJBA	6.00	1.00	0.4	10	11	6.5	3	7	AF4	M4	3 h7	4 j6
	TJCA	6.00	2.00	0.4	10	11	6.5	3	7	AF4	M4	3 h7	4 j6
	UKAS	6.35	0.79	0.4	10	11	6.5	3	7	AF4	M4	3 h7	4 j6
	UKBN	6.35	1.59	0.4	10	11	6.5	3	7	AF4	M4	3 h7	4 j6
NEMA 23	UKDE	6.35	3.18	0.4	10	11	6.5	3	7	AF4	M4	3 h7	4 j6
	UKGI	6.35	6.35	0.4	10	11	6.5	3	7	AF4	M4	3 h7	4 j6
	UQBG	9.53	1.27	0.5	10	12	6.5	3	7	AF6	M5	4 h7	5 j6
	UQBN	9.53	1.59	0.5	10	12	6.5	3	7	AF6	M5	4 h7	5 j6
	UQCD	9.53	2.11	0.5	10	12	6.5	3	7	AF6	M5	4 h7	5 j6
	UQCN	9.53	2.54	0.5	10	12	6.5	3	7	AF6	M5	4 h7	5 j6
	UQEG	9.53	4.23	0.5	10	12	6.5	3	7	AF6	M5	4 h7	5 j6
	UQFC	9.53	5.08	0.5	10	12	6.5	3	7	AF6	M5	4 h7	5 j6
	UQKE	9.53	10.16	0.5	10	12	6.5	3	7	AF6	M5	4 h7	5 j6
	UQMS	9.53	12.70	0.5	10	12	6.5	3	7	AF6	M5	4 h7	5 j6
	TSCA	10.00	2.00	0.5	12	12.5	7	3	7	AF6	M6	4.5 h7	6 j6
	TSGA	10.00	6.00	0.5	12	12.5	7	3	7	AF6	M6	4.5 h7	6 j6

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