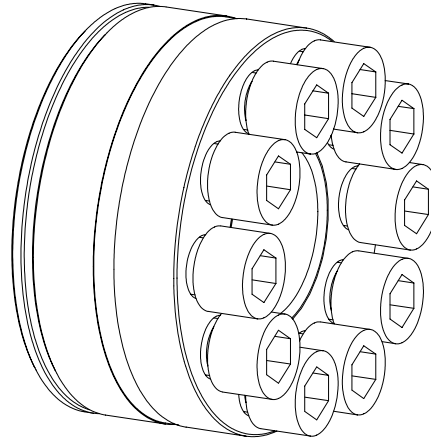
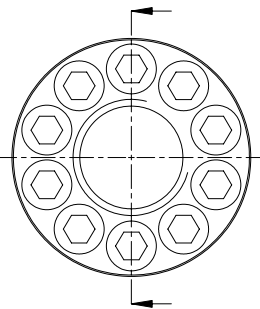
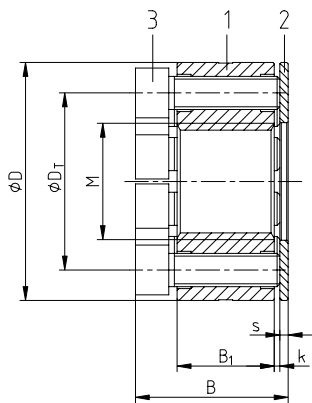




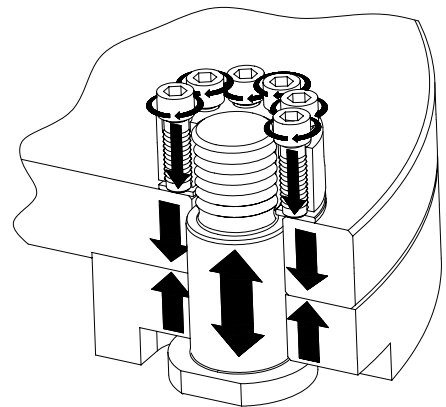
The **KTR clamping nut** produces a big screw prestress by tightening the pressure screws at a relatively small tightening torque.



Dimensions:



Functional principle:



The complete clamping nut consists of a nut (pos. 1), disc (pos. 2) and pressure screws (pos. 3).

Size *	Dimensions [mm]						Pressure screw pos. 3	
	D	D _T	B	B ₁	s	k	DIN EN ISO 4762 – 12.9	Quantity
M24	52	39	36	20	3	1 – 2	M8	8
M27	57	42	41	25	3	1 – 2	M8	9
M30	65	48	43	25	3	1 – 2	M10	8
M33	68	51	48	30	3	1 – 2	M10	9
M36	80	58	50	30	3	1 – 2	M12	8
M42	86	64	55	35	3	1 – 2	M12	10
M48	90	72	60	40	3	1 – 2	M12	11
M52	100	79	66,5	42	4,5	1 – 2	M12	13
M56	108	83	75,5	45	4,5	1 – 2	M16	9
M60	112	86	80,5	48	4,5	1 – 2	M16	10
M64	120	92	84	52	8	1 – 2	M16	11
M72	142	107	98	58	8	1 – 2	M20	10
M80	164	122	103	64	8	1 – 2	M20	12

* coarse and fine pitch thread

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	Geprüft:	27.05.10 Li	Ersetzt durch:	



General Hints

Please read through these mounting instructions carefully before you set the aggregate with obstructed clamping nut into operation. Please pay special attention to the safety instructions!
The mounting instructions are part of your product. Please keep them carefully.
The copyright for these mounting instructions remains with **KTR Kupplungstechnik GmbH**.

Safety and Advice Hints



DANGER!

Danger of injury to persons



CAUTION!

Damages on the machine possible



ATTENTION!

Pointing to important items

General Hints to Danger



DANGER!

With assembly, disassembly and maintenance of the clamping nut it has to be made sure that the aggregate is protected against unintentional engagement. You can be seriously hurt by rotating or falling parts. Please make absolutely sure to read through and observe the following safety instructions.

- All operations on and with the clamping nut have to be performed taking into account "safety first".
- Switch off the aggregate which the clamping nut is assembled on before you start with your operations.
- Protect the aggregate against unintentional engagement, e.g. by providing hints at the place of engagement or removing the fuse for current supply.
- Do not touch the operation area of rotating parts as long as they are in operation.
- Please protect rotating parts against unintentional touch. Please provide for the necessary protection devices and caps.
- Falling parts can lead to personal injury or damage to the machine. Secure the driving parts during assembly or disassembly.

Proper Use

You may only assemble, operate and maintain the coupling if you

- have carefully read through the mounting instructions and understood them
- had technical training
- are authorized to do so by your company

Unauthorized modifications on the clamping nut are not admissible. We do not take any warranty for resulting damages. To further develop the product we reserve the right for technical modifications.

The **KTR clamping nut** described in here corresponds to the technical status at the time of printing of these mounting instructions.

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Assembly of Clamping Nut

- Clean and degrease the thread of clamping nut und screw.



ATTENTION!

With the assembly of components including several clamping nuts (e. g. flange connections) each of the following processes has to be performed on every clamping nut before the next process can be started with.

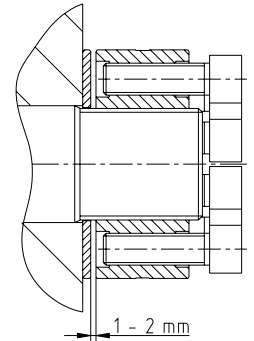
- Pressure screws (pos. 3) in the clamping nut must not jut out the pressure side (picture 1).
- Push on the disc (pos. 2) and afterwards screw on the nut (pos. 1) and tighten hand-tight.



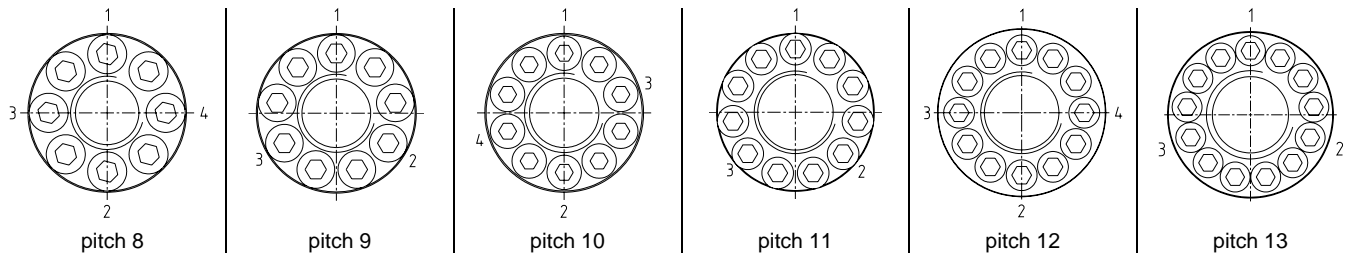
CAUTION!

All components must lay on each other without any gap.

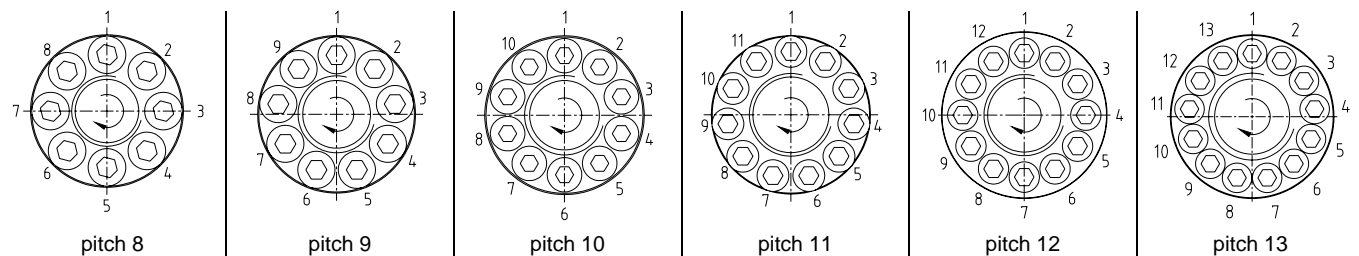
- Afterwards turn back the nut (pos. 1) until there is a gap of 1 – 2 mm (picture 1).
- Tighten the pressure screws marked in picture 2 hand-tight.
- Tighten these screws (picture 2) at half the tightening torque according to table 1 and afterwards at the full tightening torque according to table 1.
- Now tighten all pressure screws successively in several rotations until all screws have reached the full tightening torque (picture 3).



picture 1



picture 2: tightening of pressure screws

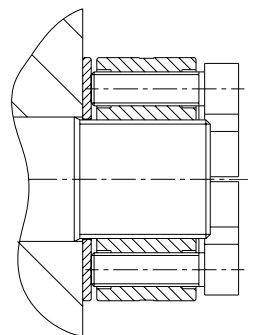


picture 3: tightening of pressure screws (one after another)



CAUTION!

The pressure screws must not bear on the heads after assembly (picture 4).



picture 4

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Assembly of Clamping Nut

Table 1:

Size	Property class 8.8 ¹⁾ Screw		Property class 10.9 ¹⁾ Screw	
	Tightening torque T_A [Nm] pressure screw Pos. 3	Screw prestress [kN]	Tightening torque T_A [Nm] pressure screw Pos. 3	Screw prestress [kN]
M24	21	174	30	249
M27	24	224	30	280
M30	41	274	60	401
M33	45	338	60	451
M36	71	396	105	586
M42	78	544	105	732
M48	94	721	105	806
M52	95	862	105	952
M56	210	1001	250	1192
M60	215	1139	250	1325
M64	225	1311	250	1457
M72	400	1696	490	2077
M80	420	2137	490	2493

1) the same or higher

Disassembly of Clamping Nut

- Untighten the pressure screws of the clamping nut with several revolutions by a quarter revolution until all screws are released from tension.



ATTENTION!

With the assembly of components including several clamping nuts (e. g. flange connections) every revolution (see above) has to be performed on every clamping nut one after the other before the next revolution can be started with. The clamping nuts must not be disassembled individually.



CAUTION!

Do not relieve and unscrew individual pressure screws completely in any case.

- Turn down the clamping nut and remove the disc.

Maintenance and Service



CAUTION!

After the startup of the machine the tightening torques of the pressure screws of the clamping nuts have to be inspected during the usual inspection intervals.

Customer Service Addresses

Contact addresses of the KTR partners for spare parts and orders can be obtained from the KTR homepage under www.ktr.com.

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