

More power, more compact design

4 June 2008

RADEX[®]-N and RIGIFLEX[®]-N with a better lamina design

RADEX[®]-N:

The design engineers of KTR Kupplungstechnik GmbH have developed an improved lamina design for the torsionally rigid coupling series RADEX[®]-N and RIGIFLEX[®]-N. Up to now the bigger types of laminae have been combined by screwings with six pins. Meanwhile a screwing with eight pins is used for the higher performance range.

RADEX[®]-N: Higher performance range up to 280.000 Nm

For RADEX[®]-N the lamina designs are as follows:

Size 20 – 50: 4-hole lamina

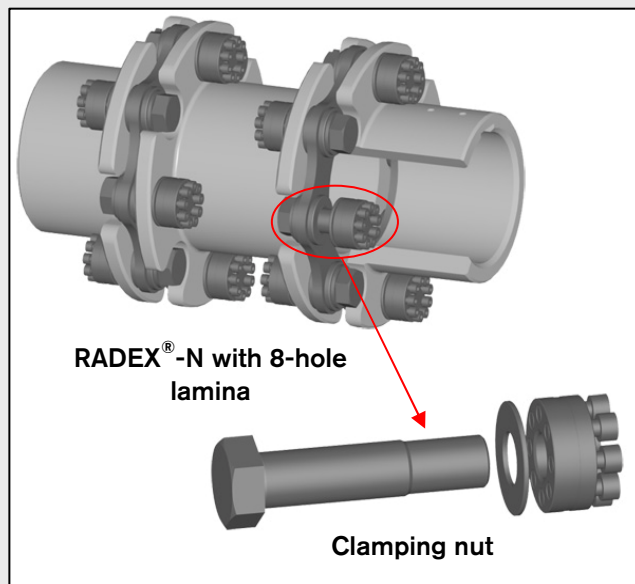
Size 60 – 135: 6-hole lamina

Size 138 – 338: 8-hole lamina

Using the 8-hole lamina the torque is increased. Apart from that the external diameter is reduced, compared to the former 6-hole laminae. Subject to the extension of the coupling series for the higher performance range rated torques of 23.000 to 280.000 Nm can be realized.

Benefits in expenses by a reduced quantity of material

At the same time the new lamina design allows a more economic production: The considerably reduced material costs result in benefits in expenses for the design with eight pins compared to the design with six pins. Another benefit in expenses is achieved by the economy of scale: Since the new 8-hole laminae are used both for RADEX[®]-N and RIGIFLEX[®]-N, a higher quantity is produced resulting in a reduction of unit costs.



Easy assembly

The use of KTR clamping nuts assures an easy assembly. Commercial dynamometric screwdrivers (up to approx. 100 Nm) are sufficient even for large threads like, for example, M42 threads. One result are benefits in expenses for the users, since special tools are not required and the couplings can be assembled quickly and easily. While the couplings are in operation the screws are loaded optimally, because they are subject to tensile stress only. This is a feature for safety creating the condition for a long service life even with high-performance applications. Moreover, RADEX[®]-N with the 8-hole lamina is available with customized spacers that are adjusted to the different mounting conditions by the KTR engineers individually.

RIGIFLEX®-N

RIGIFLEX®-N: From size 168 with 8-hole lamina
With RIGIFLEX®-N which was developed particularly for pump drives the new 8-hole lamina is used from size 168 which means that the programme is subdivided as follows:

Size 65: 4-hole lamina

Size 75 – 160: 6-hole lamina

Size 168 – 408: 8-hole lamina

It goes without saying that the benefits of the screwing with 8 pins – saving costs and a higher performance range with a smaller outside diameter – apply for RIGIFLEX®-N, too. The 8-hole version of this coupling system corresponds to the standards of API 610; optionally versions in accordance with API 671 are available, too.

Pre-assembled laminae, hubs and flanges

In contrast to RADEX®-N RIGIFLEX®-N is supplied in pre-assembled assemblies. The assembly of spacers consists of the actual spacer, the lamina set and flanges and is assembled as a unit by the manufacturer. The customer only has to combine the coupling hubs with the overall assembly of spacers. This can be done by means of the usual cap screws. It is obvious that this coupling series is extremely easy to assemble, too.

The intermediate shaft dimensions (distance dimension E) are variable and can be produced on request of the customer. It goes without saying that standard spacer lengths are on stock.

If you want to know further details about

RADEX®-N and RIGIFLEX®-N:

Click [here](#) to find some technical details of the series. You can also call us directly!

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