

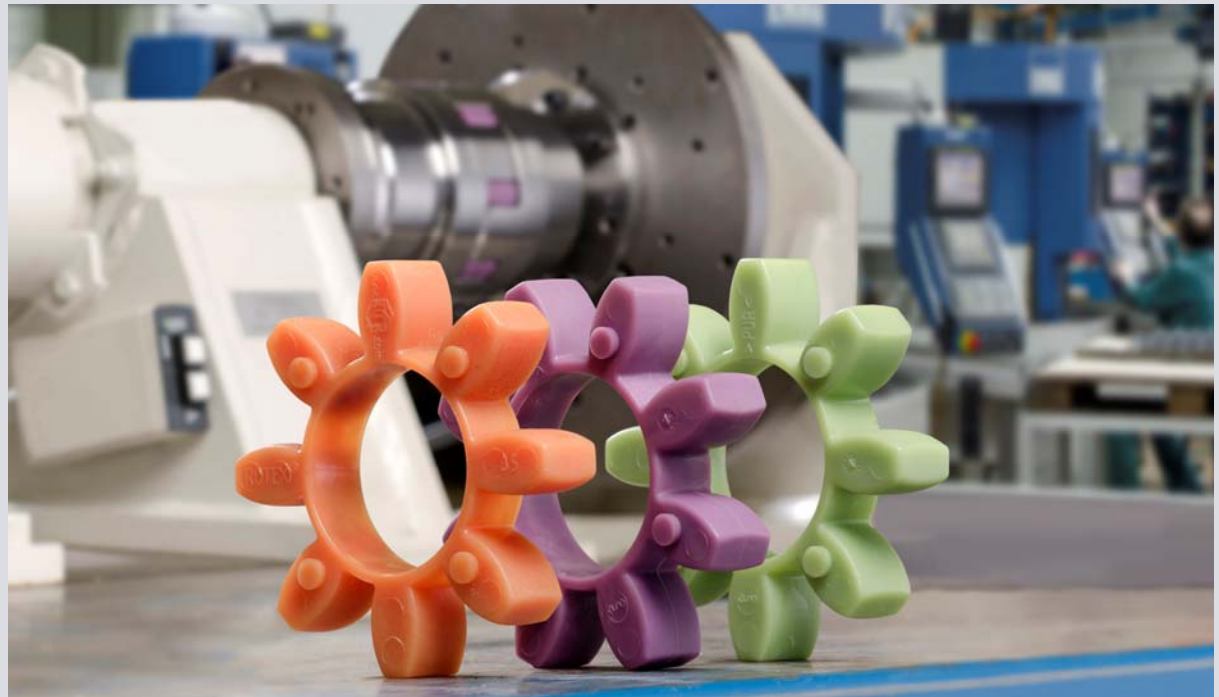


Better Components Make Better Drives



New spider generation T-PUR

Today's spider compounds have to face their limits with extreme applications. Therefore we have defined a new standard for the new heart of our ROTEX®: T-PUR.



- Extension of the temperature range (-50 °C to +120 °C, short-term up to 150 °C)
- Increase of the expected service life under extreme conditions
- Very good dynamic properties
- At the standard price!

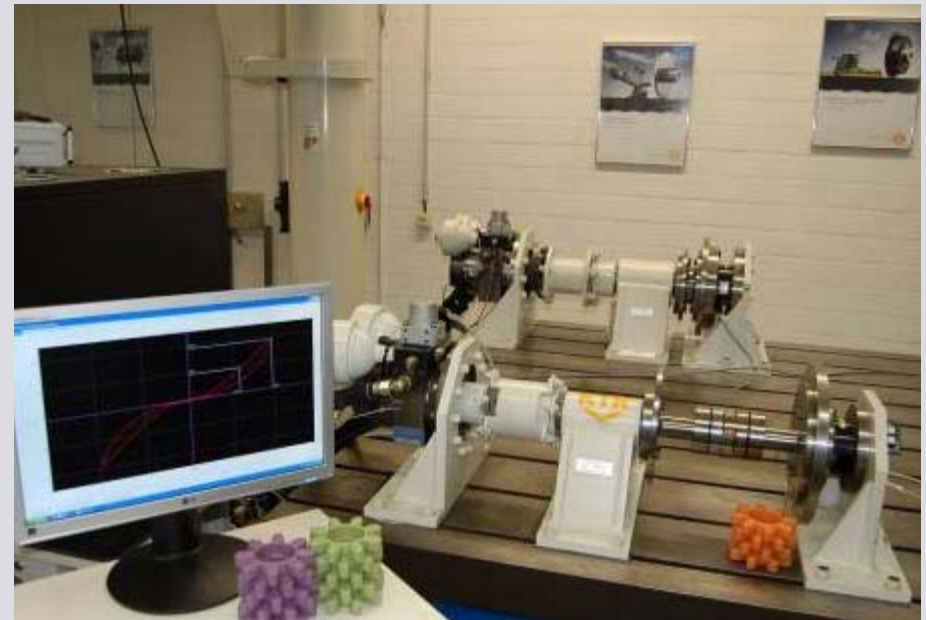
T-PUR – The new heart of ROTEX®

Excellent properties

With the new material significant improvements were realized specifically with regard to fatigue strength and temperature resistance, while maintaining all other positive technical characteristics such as damping and resistance to wear.

Thus, the new material can be used with temperatures from -50 °C to +150 °C.

The extended service life allows to reduce the maintenance intervals and as a consequence costs.



T-PUR – The new heart of ROTEX®

Visual Modifications



NEW

– 92 Shore A (T-PUR): **new: orange**



92 Shore A yellow



NEW

– 98 Shore A (T-PUR): **new: purple**



98 Shore A red



NEW

– 64 Shore D (T-PUR): **new: pale green**



64 Shore D white

T-PUR – The new heart of ROTEX®

Visual Modifications



NEW

– 92 Shore A (T-PUR): **new: orange**



94 Shore A-T blue



NEW




– 64 Shore D (T-PUR): **new: pale green**



64 Shore D-F white

T-PUR – The new heart of ROTEX®

Technical data and properties of spider 92 Shore A

			
Spider type (hardness shore)	92 Shore A (T-PUR)	DZ 92 Shore A (T-PUR)	92 Shore A
Size	14 to 90	100 to 180	14 to 90
Material	T-PUR		Polyurethane (PUR)
Perm. temperature range			
Continuous temperature	-50 °C to +120 °C		-40 °C to +90 °C
Max. temperature short time	-50 °C to +150 °C		-50 °C to +120 °C
Properties	<ul style="list-style-type: none"> – significantly longer service life – very good temperature resistance – improved damping of vibrations – good damping, average elasticity – suitable for all hub materials 		<ul style="list-style-type: none"> – good damping, average elasticity – suitable for all hub materials




Service factor temperature S_t

	-50 °C	-30 °C +30 °C	+40 °C	+50 °C	+60 °C	+70 °C	+80 °C	+90 °C	+100 °C	+110 °C	+120 °C
T-PUR	1,0	1,0	1,1	1,2	1,3	1,45	1,6	1,8	2,1	2,5	3,0
PUR	–	1,0	1,2	1,3	1,4	1,55	1,8	2,2	–	–	–

*Extract from the current KTR company catalogue.

T-PUR – The new heart of ROTEX®

Technical data and properties of spider 95/98 Shore A

			
Spider type (hardness shore)	98 Shore A (T-PUR)	DZ 95 Shore A (T-PUR)	98 Shore A
Size	14 to 90	100 to 180	14 to 90
Material	T-PUR		Polyurethane (PUR)
Perm. temperature range			
Continuous temperature	-50 °C to +120 °C		-30 °C to +90 °C
Max. temperature short time	-50 °C to +150 °C		-40 °C to +120 °C
Properties	<ul style="list-style-type: none"> – significantly longer service life – very good temperature resistance – improved damping of vibrations – transmission of high torques with average damping – recommended hub material: Steel, GJL and GJS 		<ul style="list-style-type: none"> – transmission of high torques with average damping – recommended hub material: Steel, GJL and GJS



Service factor temperature S_t

	-50 °C	-30 °C +30 °C	+40 °C	+50 °C	+60 °C	+70 °C	+80 °C	+90 °C	+100 °C	+110 °C	+120 °C
T-PUR	1,0	1,0	1,1	1,2	1,3	1,45	1,6	1,8	2,1	2,5	3,0
PUR	–	1,0	1,2	1,3	1,4	1,55	1,8	2,2	–	–	–

*Extract from the current KTR company catalogue.

T-PUR – The new heart of ROTEX®

Technical data and properties of spider 64 Shore D

			
Spider type (hardness shore)	64 Shore D (T-PUR)	DZ 64 Shore D (T-PUR)	64 Shore D
Size	14 to 90	100 to 180	14 to 90
Material	T-PUR		Polyurethane (PUR)
Perm. temperature range			
Continuous temperature	-50 °C to +120 °C		-30 °C to +110 °C
Max. temperature short time	-50 °C to +150 °C		-30 °C to +130 °C
Properties	<ul style="list-style-type: none"> – significantly longer service life – very good temperature resistance – improved damping of vibrations – transmission of very high torques with low damping – recommended hub material: Steel and GJS 		<ul style="list-style-type: none"> – transmission of very high torques with low damping – suitable for displacing critical speeds – resistant to hydrolysis – recommended hub material: Steel and GJS




Service factor temperature S_t

	-50 °C	-30 °C +30 °C	+40 °C	+50 °C	+60 °C	+70 °C	+80 °C	+90 °C	+100 °C	+110 °C	+120 °C
T-PUR	1,0	1,0	1,1	1,2	1,3	1,45	1,6	1,8	2,1	2,5	3,0
PUR	–	1,0	1,2	1,3	1,4	1,5	1,6	1,8	2,0	2,5	–

*Extract from the current KTR company catalogue.

T-PUR – The new heart of ROTEX®

Technical data and properties of special spider

			 NEW
Spider type	PA	PEEK	Spider from wire
Material	Polyamide	Polyetheretherketone	stainless steel
Perm. temperature range			
Continuous temperature	-20°C to +130 °C ¹⁾	to +180 °C (ATEX to +160 °C)	to +250 °C
Max. temperature short time	-30 °C to +150 °C ¹⁾	to +250 °C	–
Properties	<ul style="list-style-type: none"> – low twisting angles and high torsion spring stiffness – transmission of very high torques with very low damping – very good to good resistance to chemicals ¹⁾ – recommended hub material: Steel 	<ul style="list-style-type: none"> – low twisting angles and high torsion spring stiffness – transmission of very high torques with very low damping – highly temperature resistant, resistant to hydrolysis – good to good resistance to chemicals – recommended hub material: Steel 	<ul style="list-style-type: none"> – transmission of high torques with average damping – highly temperature resistant, resistant to hydrolysis – very good to good resistance to chemicals – recommended hub material: Steel, GJL and hard coated ALU – technical data according to 98 Sh A

¹⁾ Different properties depending on compound

Service factor temperature S_t

	-50 °C	-30 °C +30 °C	+40 °C	+50 °C	+60 °C	+70 °C	+80 °C	+90 °C	+100 °C	+110 °C	+120 °C	+180 °C
PA	–	1,0	1,15	1,25	1,4	1,6	1,9	2,3	3,0	–	–	–
PEEK	–	1,0	1,0	1,0	1,0	1,0	1,0	1,0	1,0	1,0	1,0	1,0
Spider from wire	–	1,0	1,0	1,0	1,0	1,0	1,0	1,0	1,0	1,0	1,0	1,0

*Extract from the current KTR company catalogue.