

# Wälzlager-Montage und Demontage

Werkzeuge · Geräte · Verfahren



Lagerbauart	Lagerbohrung	d [mm]	Einbau			Ausbau			Symbole
			thermisch	mechanisch	hydraulisch	thermisch	mechanisch	hydraulisch	
Rillenkugellager Kegelrollenlager Schrägkugellager Spindellager Vierpunktlager Pendelrollenlager Pendelkugellager Toroidalrollenlager	zylindrisch  80 – 200  >200 	<80	  	 			  	    	    
Zylinderrollenlager Nadellager	zylindrisch  80 – 200  >200 	<80	  	 		 	  	 	       
Axial-Rillenkugellager Axial-Schrägkugellager Axial-Zylinderrollenlager Axial-Pendelrollenlager	zylindrisch  80 – 200  >200 	<80	  	 			  	       	
Pendelkugellager Pendelkugellager mit Spannhülse Toroidalrollenlager Tonnenlager Tonnenlager mit Spannhülse Pendelrollenlager Pendelrollenlager mit Spannhülse Pendelrollenlager mit Abziehhülse Spannhülse Abziehhülse	kegelig  80 – 200  >200 	<80		  	 		  	    	       
Zylinderrollenlager, zweireihig	kegelig  80 – 200  >200 	<80		 	 		  	 	 

# Mounting of Rolling Bearings

Tools · Devices · Methods



Bearing type	Bearing bore	d [mm]	Mounting			Dismounting			Symbols
			Thermal	Mechanical	Hydraulic	Thermal	Mechanical	Hydraulic	
Deep groove ball bearings Tapered roller bearings Angular contact ball bearings Spindle bearings Four point contact bearings Self-aligning ball bearings	Cylindrical Cylindrical Cylindrical	<80 80 – 200 >200	 			 			Induction heating device Heating plate Heating cabinet Medium frequency technique Heating ring
Cylindrical roller bearings Needle roller bearings	Cylindrical Cylindrical	<80 80 – 200 >200	 						Hammer and mounting sleeve Mechanical and hydraulic presses Double hook wrench Nut and hook wrench Socket wrench
Axial deep groove ball bearings Axial angular contact ball bearings Axial cylindrical roller bearings Axial spherical roller bearings	Cylindrical Cylindrical Cylindrical	<80 80 – 200 >200							Mechanical and hydraulic presses Double hook wrench Nut and hook wrench Socket wrench
Self-aligning ball bearings Self-aligning ball bearings with adapter sleeve Toroidal roller bearings Barrel roller bearings Barrel roller bearings with adapter sleeve Spherical roller bearings Spherical roller bearings with adapter sleeve Spherical roller bearings with withdrawal sleeve Adapter sleeve  Withdrawal sleeve	Tapered Tapered Tapered	<80 80 – 200 >200		 					Nut and mounting screws End cap Withdrawal device
Cylindrical roller bearings, double row	Tapered Tapered Tapered	<80 80 – 200 >200							Hydraulic nut Hydraulic method