

# Heavy load drive shafts

Survey of the standard possibilities - more types and special design on request

The right type of heavy load drive shaft has to be sized ! Therefore needed: Md / n / β in use and maximum.

Series	Type	Md-Catalogue torque in Nm	Md-Maximum torque in Nm	Angle β	Possible Flanges	Form of Flange see attachment	Length S min	Length-extension X	Remarks			
<b>3102</b>	Tubular type version	28 000	36 000	max. 22°	250 mm 8 holes/18 mm	3	795	110	<i>S = minimum length, above you can choose the length in steps of 5 mm.</i>			
					285 mm 8 holes/20 mm	3						
					250 mm 8 holes/19 mm	11						
					225 mm 8 holes/16 mm	3						
					<i>cross-serrated</i> 200 mm 4 holes/15 mm	10						
<b>Reversing fatigue torque of series 3102 = 12.600 Nm</b>												
<b>3102</b>	Short type version	28 000	36 000	max. 22°	250 mm 8 holes/18 mm	3	650 - 770	80 - 110	<i>The length of a short type version you can choose in steps of 5 mm in the given range.</i>			
					285 mm 8 holes/20 mm	3						
					250 mm 8 holes/19 mm	11						
					225 mm 8 holes/16 mm	3						
					<i>cross-serrated</i> 200 mm 4 holes/15 mm	10						
<b>1102</b>	Fixed version	28 000	36 000	max. 22°	250 mm 8 holes/18 mm	3	560	---	<i>Fixed, without extension</i>			
					285 mm 8 holes/20 mm	3						
					250 mm 8 holes/19 mm	11						
					225 mm 8 holes/16 mm	3						
					<i>cross-serrated</i> 200 mm 4 holes/15 mm	10						
<b>3104</b>	Tubular type version	32 000	42 000	max. 18°	250 mm 8 holes/18 mm	3	900	140	<i>S = minimum length, above you can choose the length in steps of 5 mm.</i>			
					225 mm 8 holes/16 mm	3						
					250 mm 8 holes/19 mm	11						
					<b>Reversing fatigue torque of series 3104 = 14.400 Nm</b>							
					250 mm 8 holes/18 mm	13						
<b>3104</b>	Short type version	32 000	42 000	max. 18°	250 mm 8 holes/18 mm	3	650 - 895	40 - 140	<i>The length of a short type version you can choose in steps of 5 mm in the given range.</i>			
					225 mm 8 holes/16 mm	3						
					250 mm 8 holes/19 mm	11						
					225 mm 8 holes/17 mm	11						
					250 mm 8 holes/18 mm	13						
<b>1104</b>	Fixed version	32 000	42 000	max. 18°	250 mm 8 holes/18 mm	3	570	---	<i>Fixed, without extension</i>			
					225 mm 8 holes/16 mm	3						
					250 mm 8 holes/19 mm	11						
					225 mm 8 holes/17 mm	11						
					250 mm 8 holes/18 mm	13						

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Series	Type	Md-Catalogue torque in Nm	Md-Maximum torque in Nm	Angle $\beta$	Possible Flanges	Form of Flange see attachment	Length S min	Length-extension X	Remarks	
<b>3106</b>	Tubular type version	40 000	52 000	max. 18°	250 mm 8 holes/18 mm	3	855	140	<i>S = minimum length, above you can choose the length in steps of 5 mm.</i>	
					285 mm 8 holes/20 mm	3				
					250 mm 8 holes/19 mm	11				
					<b>Reversing fatigue torque of series 3106 = 18.000 Nm</b>	225 mm 8 holes/17 mm				11
					250 mm 8 holes/18 mm	13				
<b>3106</b>	Short type version	40 000	52 000	max. 18°	250 mm 8 holes/18 mm	3	620 - 850	40 - 70	<i>The length of a short type version you can choose in steps of 5 mm in the given range.</i>	
					285 mm 8 holes/20 mm	3				
					250 mm 8 holes/19 mm	11				
					225 mm 8 holes/17 mm	11				
					250 mm 8 holes/18 mm	13				
<b>1106</b>	Fixed version	40 000	52 000	max. 18°	250 mm 8 holes/18 mm	3	545	---	<i>Fixed, without extension</i>	
					250 mm 8 holes/19 mm	11				
					225 mm 8 holes/17 mm	11				
					250 mm 8 holes/18 mm	13				
					285 mm 8 holes/20 mm	3				
<b>3115</b>	Tubular type version	50 000	65 000	max. 15°	285 mm 8 holes/20 mm	3	935	140	<i>S = minimum length, above you can choose the length in steps of 5 mm.</i>	
					250 mm 8 holes/18 mm	3				
					285 mm 8 holes/21 mm	11				
					<b>Reversing fatigue torque of series 3115 = 22.500 Nm</b>	250 mm 8 holes/19 mm				11
					285 mm 8 holes/20 mm	13				
<b>3115</b>	Short type version	50 000	65 000	max. 15°	285 mm 8 holes/20 mm	3	800 - 930	45 - 110	<i>The length of a short type version you can choose in steps of 5 mm in the given range.</i>	
					250 mm 8 holes/18 mm	3				
					285 mm 8 holes/21 mm	11				
					250 mm 8 holes/19 mm	11				
					285 mm 8 holes/20 mm	13				
<b>1115</b>	Fixed version	50 000	65 000	max. 15°	285 mm 8 holes/20 mm	3	625	---	<i>Fixed, without extension</i>	
					250 mm 8 holes/18 mm	3				
					285 mm 8 holes/21 mm	11				
					250 mm 8 holes/19 mm	11				
					285 mm 8 holes/20 mm	13				

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Series	Type	Md-Catalogue torque in Nm	Md-Maximum torque in Nm	Angle β	Possible Flanges	Form of Flange see attachment	Length S min	Length-extension X	Remarks
3124	Tubular type version	80 000	104 000	max. 24°	315 mm 8 holes/22 mm	3	1150	140	<i>S = minimum length, above you can choose the length in steps of 5 mm.</i>
					285 mm 8 holes/20 mm	3			
					315 mm 10 holes/23 mm	11			
					285 mm 8 holes/21 mm	11			
<b>Reversing fatigue torque of series 3124 = 36.000 Nm</b>									
3124	Short type version	80 000	104 000	max. 15 / 24°	315 mm 8 holes/22 mm	3	745 - 1095	60 - 140	<i>The length of a short type version you can choose in steps of 5 mm in the given range.</i>
					285 mm 8 holes/20 mm	3			
					315 mm 10 holes/23 mm	11			
					285 mm 8 holes/21 mm	11			
1124	Fixed version	80 000	104 000	max. 24°	315 mm 8 holes/22 mm	3	690	---	<i>Fixed, without extension</i>
					285 mm 8 holes/20 mm	3			
					315 mm 10 holes/23 mm	11			<i>S = minimum length, above you can choose the length in steps of 5 mm.</i>
					285 mm 8 holes/21 mm	11			
3135	Tubular type version	110 000	143 000	max. 15°	350 mm 10 holes/22 mm	4	1235	140	<i>S = minimum length, above you can choose the length in steps of 5 mm.</i>
					350 mm 10 holes/23 mm	12			
					315 mm 10 holes/23 mm	12			
					350 mm 10 holes/23 mm	12			
					350 mm 10 holes/22 mm	14			
<b>Reversing fatigue torque of series 3135 = 50.000 Nm</b>									
3135	Short type version	110 000	143 000	max. 15°	350 mm 10 holes/22 mm	4	980 - 1230	90 - 140	<i>The length of a short type version you can choose in steps of 5 mm in the given range.</i>
					350 mm 10 holes/23 mm	12			
					315 mm 10 holes/23 mm	12			
					350 mm 10 holes/23 mm	12			
					350 mm 10 holes/22 mm	14			
1135	Fixed version	110 000	143 000	max. 15°	350 mm 10 holes/22 mm	4	835	---	<i>Fixed, without extension</i>
					350 mm 10 holes/23 mm	12			
					315 mm 10 holes/23 mm	12			<i>S = minimum length, above you can choose the length in steps of 5 mm.</i>
					350 mm 10 holes/23 mm	12			
					350 mm 10 holes/22 mm	14			

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Series	Type	Md-Catalogue torque in Nm	Md-Maximum torque in Nm	Angle β	Possible Flanges	Form of Flange see attachment	Length S min	Length-extension X	Remarks
<b>3140</b>	Tubular type version	110 000	143 000	max. 15°	350 mm 10 holes/22 mm	4	1275	170	<i>S = minimum length, above you can choose the length in steps of 5 mm.</i>
					315 mm 8 holes/22 mm	3			
					350 mm 10 holes/23 mm	12			
					315 mm 10 holes/23 mm	12			
<b>Reversing fatigue torque of series 3140 = 50.000 Nm</b>									
<b>3140</b>	Short type version	110 000	143 000	max. 10°	350 mm 10 holes/22 mm	4	875 - 975	60	<i>The length of a short type version you can choose in steps of 5 mm in the given range.</i>
					315 mm 8 holes/22 mm	3			
					350 mm 10 holes/23 mm	12			
					315 mm 10 holes/23 mm	12			
<b>3145</b>	Tubular type version	175 000	225 000	max. 20°	390 mm 10 holes/24 mm	4	1720	170	<i>S = minimum length, above you can choose the length in steps of 5 mm.</i>
					435 mm 10 holes/27 mm	4			
					350 mm 10 holes/22 mm	4			
					390 mm 10 holes/25 mm	12			
					350 mm 10 holes/23 mm	12			
<b>Reversing fatigue torque of series 3145 = 80.000 Nm</b>					435 mm 16 holes/28 mm	15			
<b>3145</b>	Short type version	175 000	225 000	max. 20°	390 mm 10 holes/24 mm	4	1400 - 1715	90 - 170	<i>The length of a short type version you can choose in steps of 5 mm in the given range.</i>
					435 mm 10 holes/27 mm	4			
					350 mm 10 holes/22 mm	4			
					390 mm 10 holes/25 mm	12			
					350 mm 10 holes/23 mm	12			
					435 mm 16 holes/28 mm	15			
<b>1145</b>	Fixed version	175 000	225 000	max. 20°	390 mm 10 holes/24 mm	4	1145	---	<i>Fixed, without extension</i>
					435 mm 10 holes/27 mm	4			
					350 mm 10 holes/22 mm	4			
					390 mm 10 holes/25 mm	12			
					350 mm 10 holes/23 mm	12			
					435 mm 16 holes/28 mm	15			<i>S = minimum length, above you can choose the length in steps of 5 mm.</i>

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Survey of the standard flange hole pattern (series 3102 to 3145) - Please see also column "Form of Flange"

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