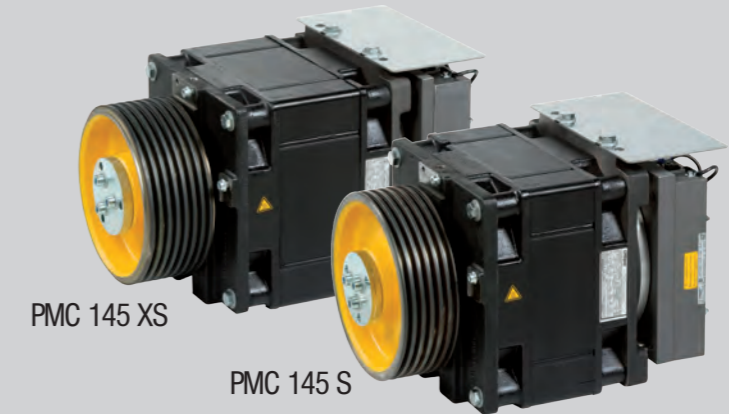
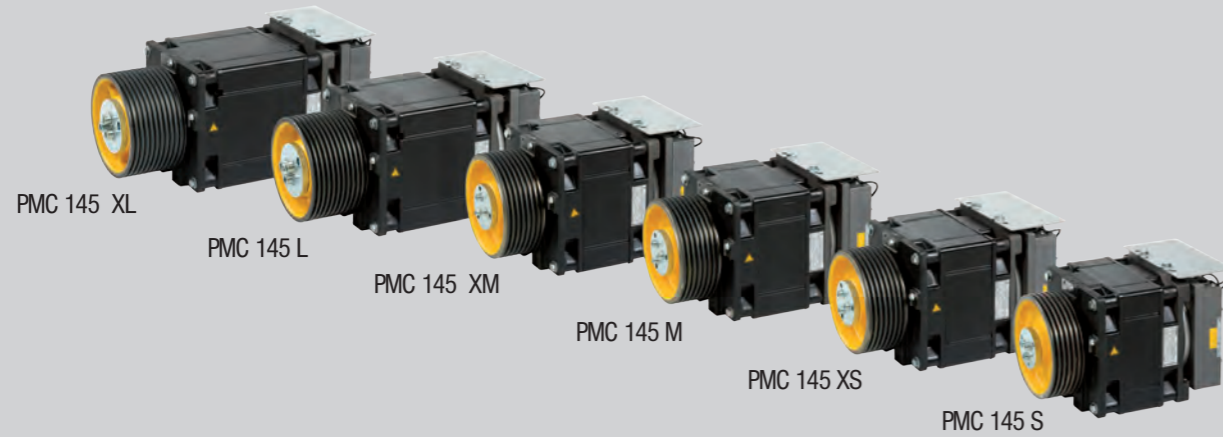


# Gearless Drives



**Drive Technology for MRL  
and Modernisation**



## Drives which move you SAFELY

### Efficient

Our PMC 145 synchronous gearless series are the world's most compact drives in terms of application and energy efficiency for new lifts and modernisation.

### Safety

At LiftEquip dual circuit safety brakes are fitted as standard to our Gearless machines. Our brakes are certified for uncontrolled up-ward movement to EN81-1/9.10.

### Compact

An important advantage of the PMC 145 is in the planning stage of your new lift or modernisation is the compact structural shape of the machine. Only the length is the differentiating factor the width and height remains the same throughout the range.

### Flexibility

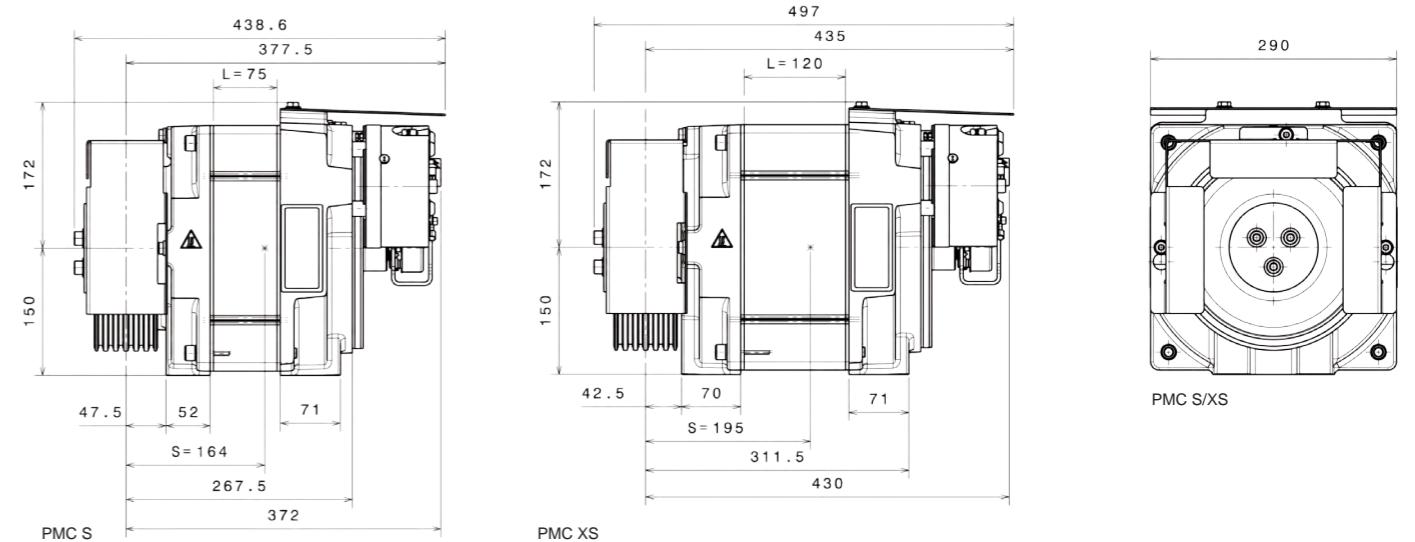
With our gearless machine we can offer the respectively matched frequency drive, in which all necessary drive parameters and motor maps are provided. This ensures the installation and set-up time in minimised. Optional plug and play versions are available which includes the main contactors.

### Complete

Brake release lever and handwinding option provides a flexible solution for installation with or without machine rooms. This can eliminate having to provide a UPS.

### Smooth

Our traction sheave are manufactured with hardened seated grooves, precisely balanced to deliver extremely smooth ride quality with low vibration and a guaranteed long working life.



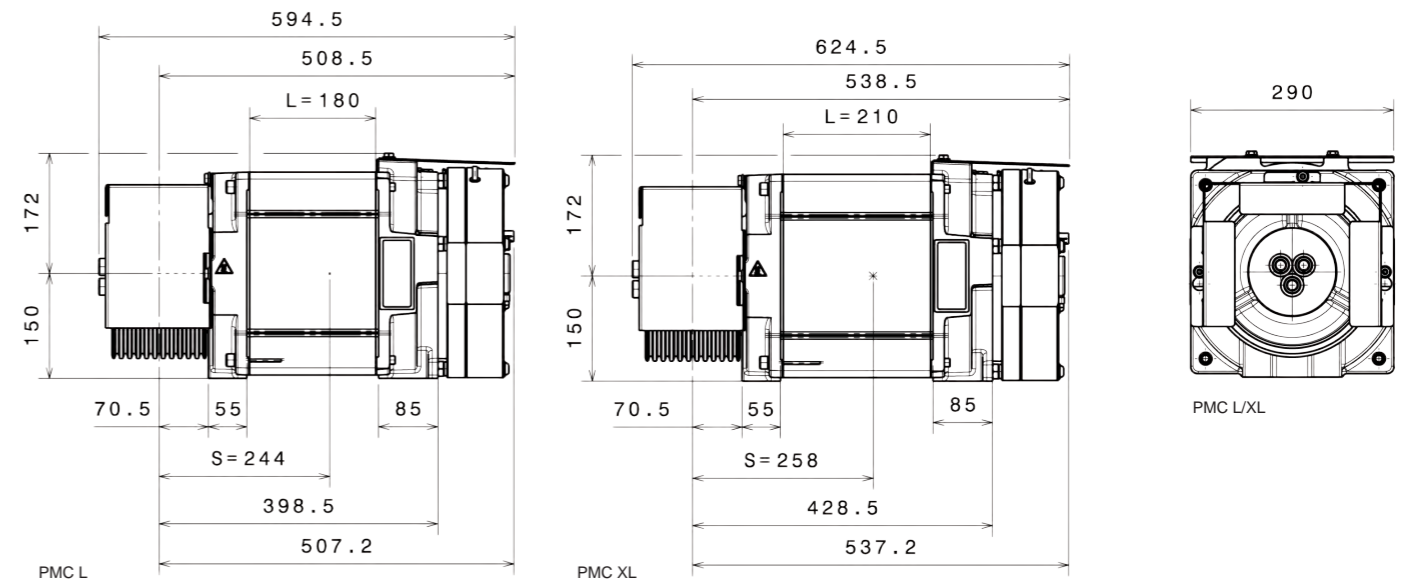
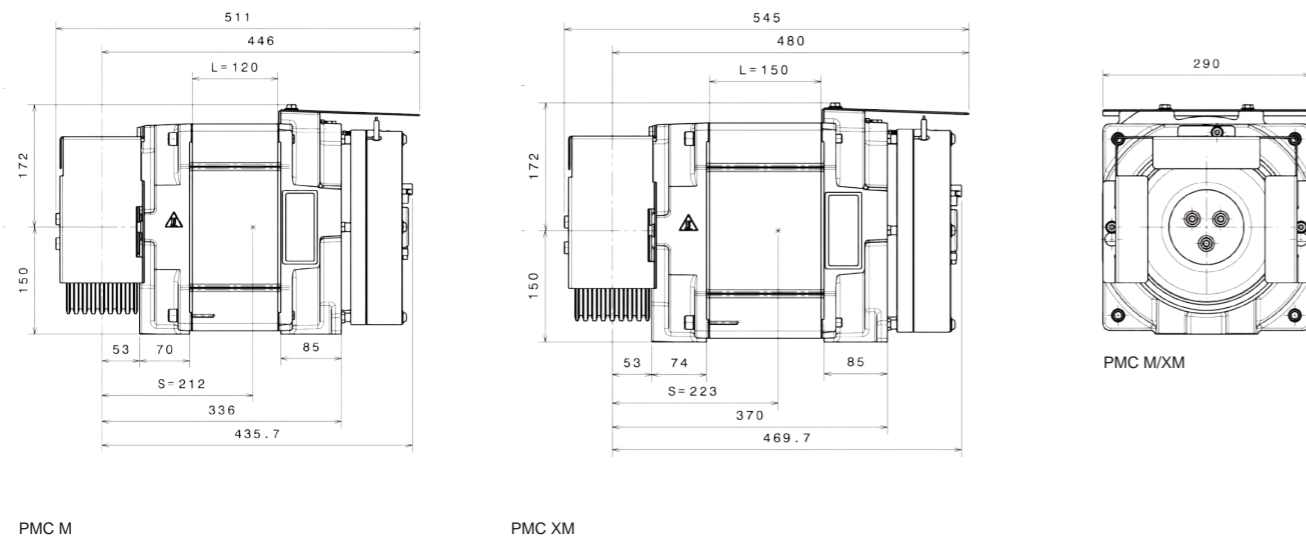
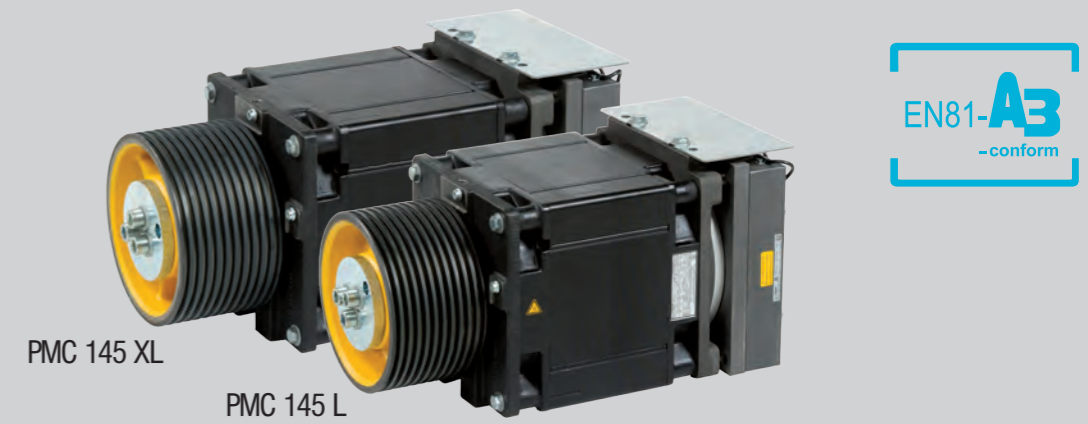
Technical Data			
Type of machine		PMC145 S 103	
Suspension	r	1:1	2:1
Rated Load	Q [kg]	275	450
Rated Speed max.	v [m/s]	1,0	1,6
Diameter of Traction Sheave	DT [mm]	240	
Diameter of Ropes *	d [mm]	6	
Number of Grooves max.	z	7	
Type of Groove		seat groove	
Rated Power	PN [kW]	1,59	2,8
Rated Torque	MN [Nm]	190	170
permitted radial Shaft Load	[kN]	23	23
Weight	[kg]	154	174
Number of Switching Operations		120	
Duty Cycle	%	50	
Rated Current	IN [A]	7,8	9,3
Output Factor	cos φ	0,90	0,97
Version of Brake		2-surface disc brake	
Brake Monitoring		Release monitoring (microswitch) per brake circuit	
Protection Class		IP 21	

\* we advise following ropes:  
 Wolf-ropes: 6 mm, 819 W - IWRC MK  
 Drako-ropes: 6 mm, DRAKO 6 x 19 W

# PMC 145 M/XM



# PMC 145 L/XL

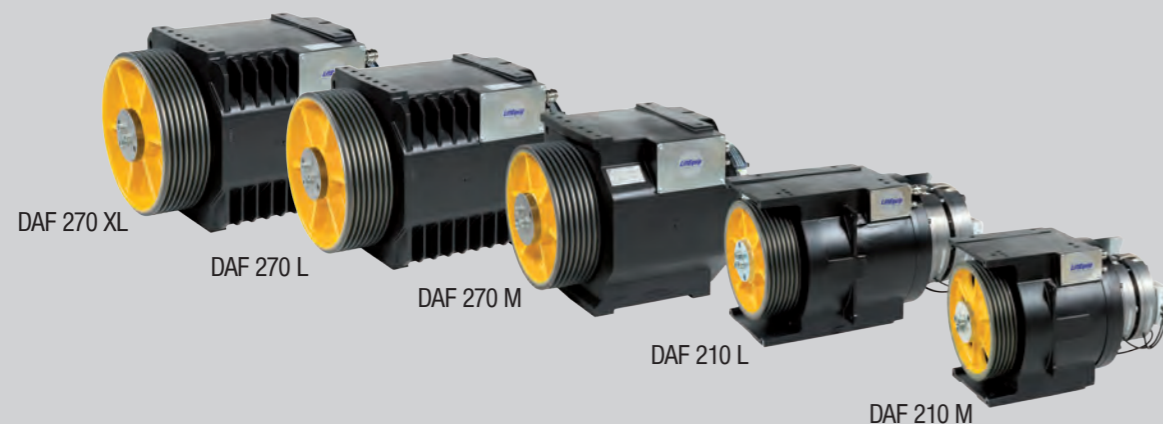


Technical Data						
Type of Machine		PMC145 M 102			PMC145 XM 105	
Suspension	r	1:1			2:1	
Rated Load	Q [kg]	400			630	
Rated Speed max.	v [m/s]	1,0	1,2	1,0	1,6	1,75
Diameter of Traction Sheave	DT [mm]	240				
Diameter of Ropes *	d [mm]	6				
Number of Grooves max.	z	9				
Type of Groove		seat groove				
Rated Power	PN [kW]	2,38	2,86	3,91	6	6,9
Rated Torque	MN [Nm]	285	285	235	225	236
permitted radial Shaft Load	[kN]	29			29	
Weight	[kg]	185			205	
Number of Switching Operations		180				
Duty Cycle	%	40			50	
Rated Current	IN [A]	11,7	11,7	9,4	14,5	15
Output Factor	cos φ	0,89	0,89	0,92	0,97	0,97
Version of Brake		2-surface disc brake				
Brake Monitoring		Release monitoring (microswitch) per brake circuit				
Protection Class		IP 21				

\* we advise following ropes:  
 Wolf-ropes: 6 mm, 819 W - IWRC MK  
 Drako-ropes: 6 mm, DRAKO 6 x 19 W

Technical Data						
Type of Machine		PMC145 L 101			PMC145 XL 104	
Suspension	r	1:1			2:1	
Rated Load	Q [kg]	630			1000	
Rated Speed max.	v [m/s]	1,0	1,2	1,0	1,6	
Diameter of Traction Sheave	DT [mm]	240				
Diameter of Ropes *	d [mm]	6				
Number of Grooves max.	z	13				
Type of Groove		seat groove				
Rated Power	PN [kW]	3,69	4,42	6	9,4	
Rated Torque	MN [Nm]	285	285	235	225	
permitted radial Shaft Load	[kN]	35,5			34,5	
Weight	[kg]	242			263	
Number of Switching Operations		180				
Duty Cycle	%	40			50	
Rated Current	IN [A]	17,6	17,6	14,3	22,8	
Output Factor	cos φ	0,93	0,93	0,93	0,96	
Version of Brake		2-surface disc brake				
Brake Monitoring		Release monitoring (microswitch) per brake circuit				
Protection Class		IP 21				

\* we advise following ropes:  
 Wolf-ropes: 6 mm, 819 W - IWRC MK  
 Drako-ropes: 6 mm, DRAKO 6 x 19 W



## Drives which always KEEP OUR PROMISES

### Maintenance free

Through their elaborated construction, our DAF series needs only a low quantity of mechanical parts. This has a most positive impact on the working life and the maintenance.

### Safety

At LiftEquip duel circuit safety brakes are fitted as standard to our Gearless machines. Our brakes are certified for uncontrolled up-ward movement to EN81-1/9.10

### Flexibility

With our gearless machine we can offer the respectively matched frequency drive, in which all necessary drive parameters and motor maps are provided. This ensures the installation and set-up time in minimised. Optional plug and play versions are available which includes the main contactors.

### Complete

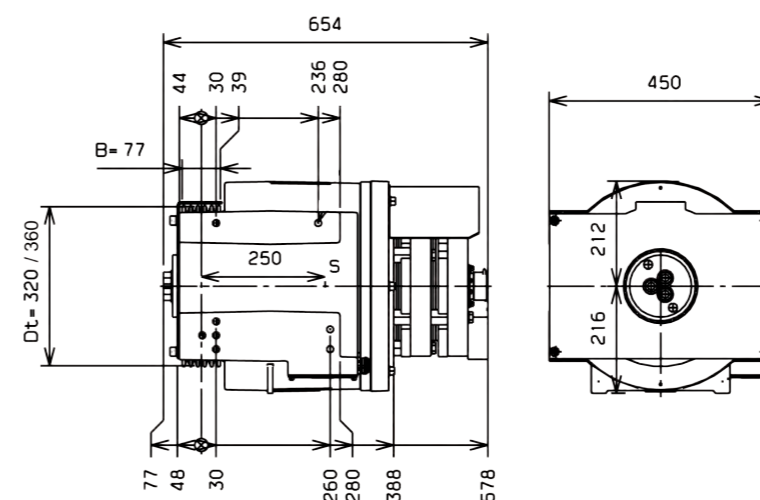
Brake release lever and handwinding option provides a flexible solution for installation with or without machine rooms. This can eliminate having to provide a UPS.

### Component set

You can use our component sets for machine-room-less installations. These are especially matching to our DAF series and cover the complete range of performance.

### Smooth

Our traction sheave are manufactured with hardened seated grooves, precisely balanced to deliver extremely smooth ride quality with low vibration and a guaranteed long working life.



Technical Data							
Type of Machine		DAF 210 M					
Suspension	r	1:1		2:1			
Rated Load	Q [kg]	450			630		
Rated Speed max.	v [m/s]	1,0	1,6	1,0	1,6	1,75	2,0
Diameter of Traction Sheave	DT [mm]	320			360		
Diameter of Ropes	d [mm]	8			8-9		
Number of Grooves max.	z	5			4-5		
Type of Groove		seat / vee groove					
Rated Power	PN [kW]	2,83	4,3	4,2	6,8	7,2	8,0
Rated Torque	MN [Nm]	450	430	378	382	370	360
permitted radial Shaft Load	[kN]	37					
Weight	[kg]	250					
Number of Switching Operations		240	180	240			
Duty Cycle	%	50	60	50			
Rated Current	IN [A]	8,2	12,0	10,5	16,2	15,4	17,2
Output Factor	cos φ	0,94	0,94	0,95	0,95	0,95	0,95
Version of Brake		2-surface disc brake					
Brake Monitoring		Release monitoring (microswitch) per brake circuit					
Protection Class		IP 54					

# DAF 210 L

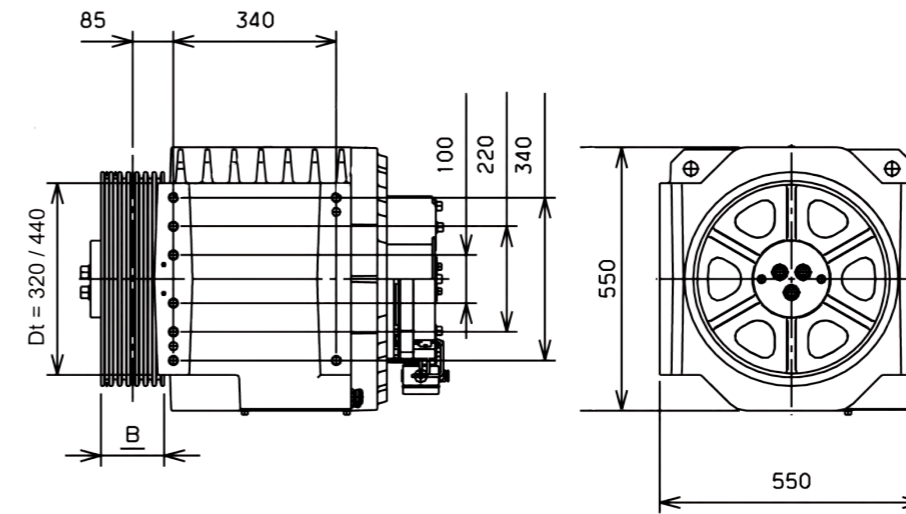
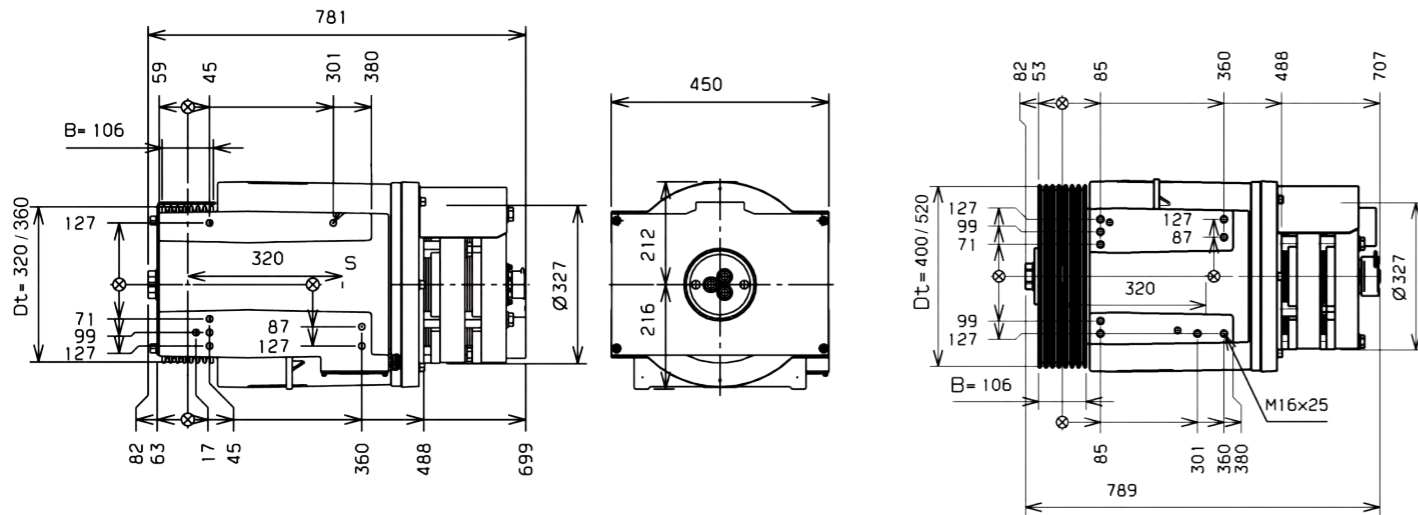


DAF 210 L

# DAF 270 M



DAF 270 M



## Technical Data

		DAF 210 L								
Type of Machine										
Suspension	r	1:1				2:1				
Rated Load	Q [kg]	630	630/900/1000	630/900/1000	1000					
Rated Speed max.	v [m/s]	1,0	1,6	1,0	1,6	1,75	2,0			
Diameter of Traction Sheave	DT [mm]	320	520/400/360	520/400/360	360					
Diameter of Ropes	d [mm]	8	8-13							
Number of Grooves max.	z	7	5-8							
Type of Groove		seat / vee groove								
Rated Power	PN [kW]	4,10	5,75	4,7/5,9/6,6	7,4/9,5/10,5	11,3	12,5			
Rated Torque	MN [Nm]	650	575	610/590/586	600/595/590	580	563			
permitted radial Shaft Load	[kN]	for traction sheave Ø 320, Ø 360 and Ø 400 → 46 kN, for traction sheave Ø 520 → 41kN								
Weight	[kg]	320/325/330								
Number of Switching Operations		240								
Duty Cycle	%	50								
Rated Current	IN [A]	10,5	14,0	15,4/15,0/15,2	23,4/23,2/23,0	25,7	25,0			
Output Factor	cos φ	0,94	0,95	0,96/0,94/0,95	0,96/0,95/0,95	0,95	0,96			
Version of Brake		2-surface disc brake								
Brake Monitoring		Release monitoring (microswitch) per brake circuit								
Protection Class		IP 54								

## Technical Data

		DAF 270 M							
Type of Machine									
Suspension	r	1:1				2:1			
Rated Load	Q [kg]	800/1000	800/1000	1600/2000	1600	1350			
Rated Speed max.	v [m/s]	1,0	1,6	1,0	1,6	1,75	2,0	2,5	
Diameter of Traction Sheave	DT [mm]	440/320	440/320	440	440	440	440	440	
Diameter of Ropes	d [mm]	8-10							
Number of Grooves max.	z	7-10							
Type of Groove		seat vee groove							
Rated Power	PN [kW]	5,4/7,4	7,8/10,6	10,7/11,4	15,3/14,9	16,3	18,2	19,5	
Rated Torque	MN [Nm]	1200/1175	1075/1050	1175/1250	1050/1025	1025	1000	860	
permitted radial Shaft Load	[kN]	for traction sheave Ø 320 → 43,5 kN, for traction sheave Ø 440 → 58 kN							
Weight	[kg]	550/570							
Number of Switching Operations		240							
Duty Cycle	%	60							
Rated Current	IN [A]	24,5/24	22/30	24/25,5	30/35	35	38	41,5	
Output Factor	cos φ	0,94/0,94	0,93/0,95	0,94/0,94	0,95/0,94	0,95	0,96	0,95	
Version of Brake		2-surface disc brake 2x1250 / 2x1700							
Brake Monitoring		Release monitoring (microswitch) per brake circuit							
Protection Class		IP21							

# DAF 270 L

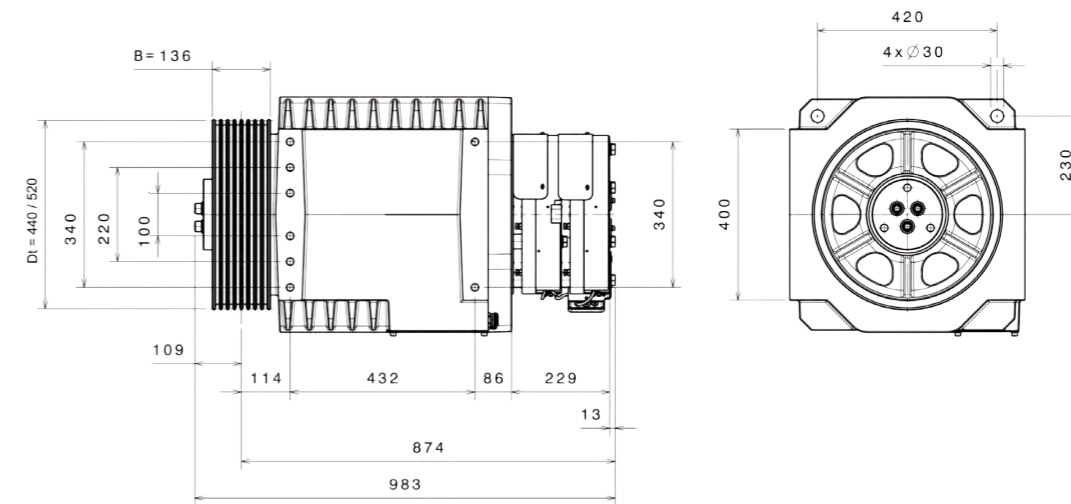
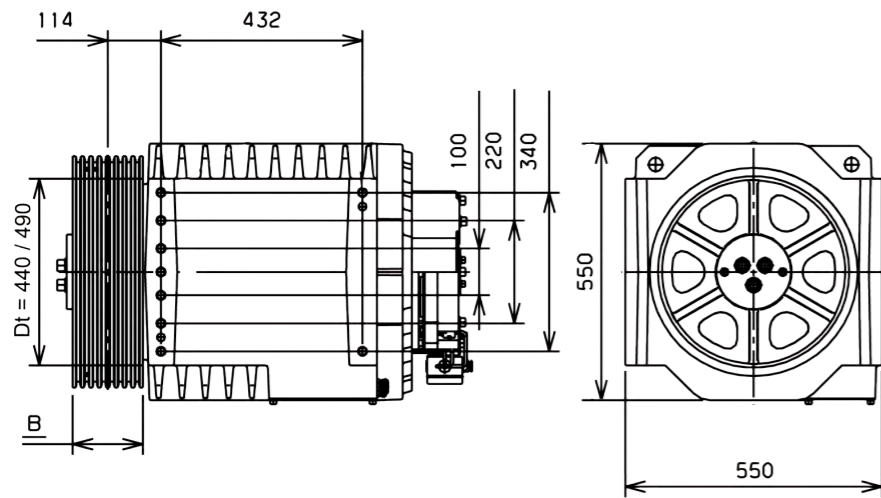


DAF 270 L

# DAF 270 XL



DAF 270 XL



Technical Data				
Type of Machine	DAF 270 L			
Suspension	r	2:1	3:1	
Rated Load	Q [kg]	2250	1800	3000
Rated Speed max.	v [m/s]	1,0/1,6	2,5	1,0/1,6
Diameter of Traction Sheave	DT [mm]	440	490	
Diameter of Ropes	d [mm]	8-13		
Number of Grooves max.	z	6-10		
Type of Groove		seat / vee groove		
Rated Power	PN [kW]	12.8/20.4	26,5	17/27
Rated Torque	MN [Nm]	1400/1400	1300	1385/138
permitted radial Shaft Load	[kN]	58		
Weight	[kg]	730/740		
Number of Switching Operations		240		
Duty Cycle	%	60		
Rated Current	IN [A]	36/43,5/36	58/40	35/56
Output Factor	cos φ	0,96/0,95	0,96	0,96/0,97
Version of Brake		2-surface disc brake 2x1700		
Brake Monitoring		Release monitoring (microswitch) per brake circuit		
Protection Class		IP21		

Technical Data					
Type of Machine	DAF 270 XL				
Suspension	r	1:1	2:1	4:1	
Rated Load	Q [kg]	1100/1000	2000/1800	2500	5000
Rated Speed max.	v [m/s]	1,0/1,6	1,0/1,6	1,0	0,5
Diameter of Traction Sheave	DT [mm]	440	520	440	440
Diameter of Ropes	d [mm]	8			
Number of Grooves max.	z	6-9			
Type of Groove		seat / vee groove			
Rated Power	PN [kW]	6.6/10.1	12,2/17,3	14,6	14,6
Rated Torque	MN [Nm]	1475	1600/1400	1600	1600
permitted radial Shaft Load	[kN]	73			
Weight	[kg]	ca. 780			
Number of Switching Operations		240			
Duty Cycle	%	60			
Rated Current	IN [A]	26/24,5	28/35	41/28	41/28
Output Factor	cos φ	0,96/0,96	0,95/0,96	0,95	0,95
Version of Brake		2-surface disc brake 2x2200			
Brake Monitoring		Release monitoring (microswitch) per brake circuit			
Protection Class		IP21			

Version 06/2012

The details quoted in this Product Information can only be viewed as binding when confirmed expressly in writing. Reproduction, reprint and storage only with authorisation of the editor.

**LiftEquip GmbH Elevator Components**

Bernhaeuser Strasse 45  
73765 Neuhausen a.d.F., Germany  
Tel.: +49 (0) 71 58 12 - 2929  
Fax: +49 (0) 71 58 12 - 2971  
E-Mail: [kontakt@liftequip.de](mailto:kontakt@liftequip.de)  
Internet: [www.liftequip.de](http://www.liftequip.de)

***LiftEquip***<sup>®</sup>  
ELEVATOR COMPONENTS