

Find the right drive for your application

The selection tables show standard drives for line-fed operation (400 V, 50 Hz) for typical speeds. Drives for inverter operation, other or higher speeds on request.

To find the right drive for your application, proceed as follows:

- determine the total mass to be moved
- select the size, travel wheel design and number of travel wheels (consider the maximum load capacity of each LRS)
- determine the drive type:
 - individual or central drive arrangement
 - the total mass is driven by one drive on a four-wheel carriage with a central drive arrangement
 - half of the total mass is driven by one drive on a four-wheel carriage with single-drive arrangements
- The drive combinations (11-65) corresponding to the required travel speed and mass can be read from the tables. Simply use this number to find the selected combination in the order list (see page 17).

* Figures in brackets indicate the low travel speed of the pole-changing motor
 ** Central drive arrangement not possible



Drives for spheroidal-graphite cast-iron wheels with flanges

LRS 200 A, Ø 175 mm, $R_{max} = 2500$ kg

		Speed v in m/min		
		12.5 (3.1)*	40 (10)*	80 (20)*
Mass per drive in kg	...	11**	13**	15
	3000			
	4000			
	5000	12	14	
	6000			
	7000			
	8000			
	9000			
	10000			
	11000			
	12000			
	13000			
	14000			
15000				
16000				

Drive combination	Gearbox	Motor
11	AMK 20 TD	ZBF 63 A 8/2
12	AMK 30 TD	ZBF 71 A 8/2
13	AMK 20 TD	ZBF 80 A 8/2
14	AMK 30 DD	ZBF 90 B 8/2
15	AMK 30 DD	ZBF 100 A 8/2

Drives for travel wheels with Hydropur tyres

LRS 200 F, Ø 200 mm, $R_{max} = 1200$ kg

		Speed v in m/min		
		12.5 (3.1)*	40 (10)*	80 (20)*
Mass per drive in kg	...	21	22**	24
	1000			
	1500			
	2000	21	22**	25
	2500			
	3000			
	3500			
	4000			
	4500			
	5000			
	5500			
	6000			
	6500			
7000				

Drive combination	Gearbox	Motor
21	AMK 30 TD	ZBF 63 A 8/2
22	AMK 20 TD	ZBF 71 A 8/2
23	AMK 30 DD	ZBF 90 B 8/2
24	AMK 30 DD	ZBF 90 B 8/2
25	AMK 30 DD	ZBF 100 A 8/2

LRS 250 A, Ø 220 mm, R_{max} = 3500 kg

		Speed v in m/min		
		12.5 (3.1)*	40 (10)*	80 (20)*
Mass per drive in kg	...	31**	33**	35**
	3000			
	4000			
	5000			
	6000			
	7000			
	8000			
	9000	32	34	
	10000			
	11000			
	12000			
	13000			
	14000			
	15000			
16000				
Drive combination	Gearbox	Motor		
31	AMK 30 TD	ZBF 63 A 8/2		
32	AMK 40 TD	ZBF 71 A 8/2		
33	AMK 30 DD	ZBF 90 B 8/2		
34	AMK 40 DD	ZBF 100 A 8/2		
35	AMK 30 DD	ZBF 100 A 8/2		

LRS 350 A, Ø 315 mm, R_{max} = 6500 kg

		Speed v in m/min		
		12.5 (3.1)*	40 (10)*	80 (20)*
Mass per drive in kg	...	52	54	55
	9000			
	10000			
	11000			
	1200			
	13000			
	14000			
	15000			
	16000			
	17000			
	18000			
	19000			
	20000			
	21000			
22000				
Drive combination	Gearbox	Motor		
52 / 52B	ADK 50 TD	ZBF 80 A 8/2		
54 / 54B	ADK 50 DD	ZBF 100 A 8/2		
55 / 55B	ADK 50 DD	ZBF 132 A 8/2		

B = Drive combination for pin connection

LRS 250 F, Ø 250 mm, R_{max} = 1700 kg

		Speed v in m/min		
		12.5 (3.1)*	40 (10)*	80 (20)*
Mass per drive in kg	...	41**	43**	45**
	1000			
	1500			
	2000			
	2500			
	3000			
	3500			
	4000	42	44	
	4500			
	5000			
	5500			
	6000			
	6500			
	7000			
Drive combination	Gearbox	Motor		
41	AMK 30 TD	ZBF 63 A 8/2		
42	AMK 40 TD	ZBF 71 A 8/2		
43	AMK 30 DD	ZBF 80 A 8/2		
44	AMK 40 DD	ZBF 90 B 8/2		
45	AMK 30 DD	ZBF 100 A 8/2		

LRS 350 F, Ø 350 mm, R_{max} = 3000 kg

		Speed v in m/min		
		12.5 (3.1)*	40 (10)*	80 (20)*
Mass per drive in kg	...	62	64	65
	5000			
	5500			
	6000			
	6500			
	7000			
	7500			
	8000			
	8500			
	9000			
	9500			
	10000			
	10500			
	11000			
Drive combination	Gearbox	Motor		
62 / 62B	ADK 50 TD	ZBF 80 A 8/2		
64 / 64B	ADK 50 TD	ZBF 90 B 8/2		
65 / 65B	ADK 50 DD	ZBF 132 A 8/2		

B = Drive combination for pin connection