

TMCR/TMCRE Series

Hydraulic Motor
Frame Sizes: 03, 05, 10



Index	Page No
• TMCR03/TMCRE03 Series Hydraulic Motor	02
• Ordering Code TMCR03/TMCRE03	02
• Unit Dimensions TMCR03/TMCRE03	03
• Motor Applications TMCR03/TMCRE03	03
• Motor Specifications TMCR03/TMCRE03	03
• TMCR05/TMCRE05 Series Hydraulic Motor	04
• Ordering Code TMCR05/TMCRE05	04
• Unit Dimensions TMCR05/TMCRE05	05
• Motor Applications TMCR05/TMCRE05	05
• Motor Specifications TMCR05/TMCRE05	05
• TMCR10/TMCRE10 Series Hydraulic Motor	06
• Ordering Code TMCR10/TMCRE10	06
• Unit Dimensions TMCR10/TMCRE10	07
• Motor Applications TMCR10/TMCRE10	07
• Motor Specifications TMCR10/TMCRE10	07



TMCR03/TMCRE03 Series Hydraulic Motor



Ordering Code TMCR03/TMCRE03

TMCR-03	TMCRE-03						
Displacement Code	Displacement Code						
7, 0, 1, 2	0, 1, 2						
Variable Motor							
Single displacement		= 1					
Dual displacement distributor symmetrical		= A					
Dual displacement ratio 2 (clockwise)		= D					
Dual displacement ratio 2 (counter clockwise)		= G					
Mounting							
Shaft Motor		= 1					
Wheel Motor		= 2					
Oil port Specifications							
1 1/16 -12 SAE				= A			
BSPT G3/4				= 1			
M22x1.5				= 2			
Brake							
Without Brake					= A03		
With Brake					= B02		
Output type							
Shaft motor							
NFE2214 splines					= 2A10		
Cylindrical key					= 2A40		
DIN5480 splines					= 2A50		
Wheel motor							
5xØ18.Ø140					= 1120		
Hydrobase					= 0000		
Special Demand							
Without Options Adaptations						= 0	
Fluorinated elastomer seals						= 1	
Predisposition for speed sensor						= 8	
Reinforced sealing						= E	
Reinforced bearing stop						= J	
High speed						= M	

Technical drawings of the 18SAE and 14SAE models. The left drawing is a top view of the 18SAE model, showing a circular flange with 10 mounting holes (10-ø14) and 10-ø14 holes. The right drawing is a side view of the 14SAE model, showing dimensions and mounting details. Both drawings include weight information: 20 kg (46 lb) for the 18SAE and 27 kg (60 lb) for the 14SAE.

Mining Machinery: Coal Winning Machine, Road Header, Scraper, Heavy Duty Handling Car, Coal Mine Drill
Construction Machinery: Skid Steer Loader, Down the hole drill, Rotary Drill, Mini and Midi Excavator, Mixer Truck, Cutting Machine
Marine Machinery: Gantry Crane

Code	TMCR03				TMCRE03		
Displacement group	7	0	1	2	0	1	2
Displacement (ml/r)	160	225	255	280	325	365	400
Theoretical torque at 10 Mpa (Nm)	254	357	405	445	516	580	636
Rated Speed (r/min)	250	160	160	125	160	125	125
Rated Pressure (MPa)	25	25	25	25	25	25	25
Rated torque (Nm)	635	892	1012	1112	1290	1450	1590
Max. Pressure (MPa)	31.5	31.5	31.5	31.5	31.5	31.5	31.5
Max. torque (Nm)	650	910	1030	1130	1310	1470	1620
Speed range (r/min)	0-670	0-475	0-420	0-385	0-330	0-295	0-270
Max. power (kW)	18	18	18	18	22	22	22



TMCR05/TMCRE05 Series Hydraulic Motor

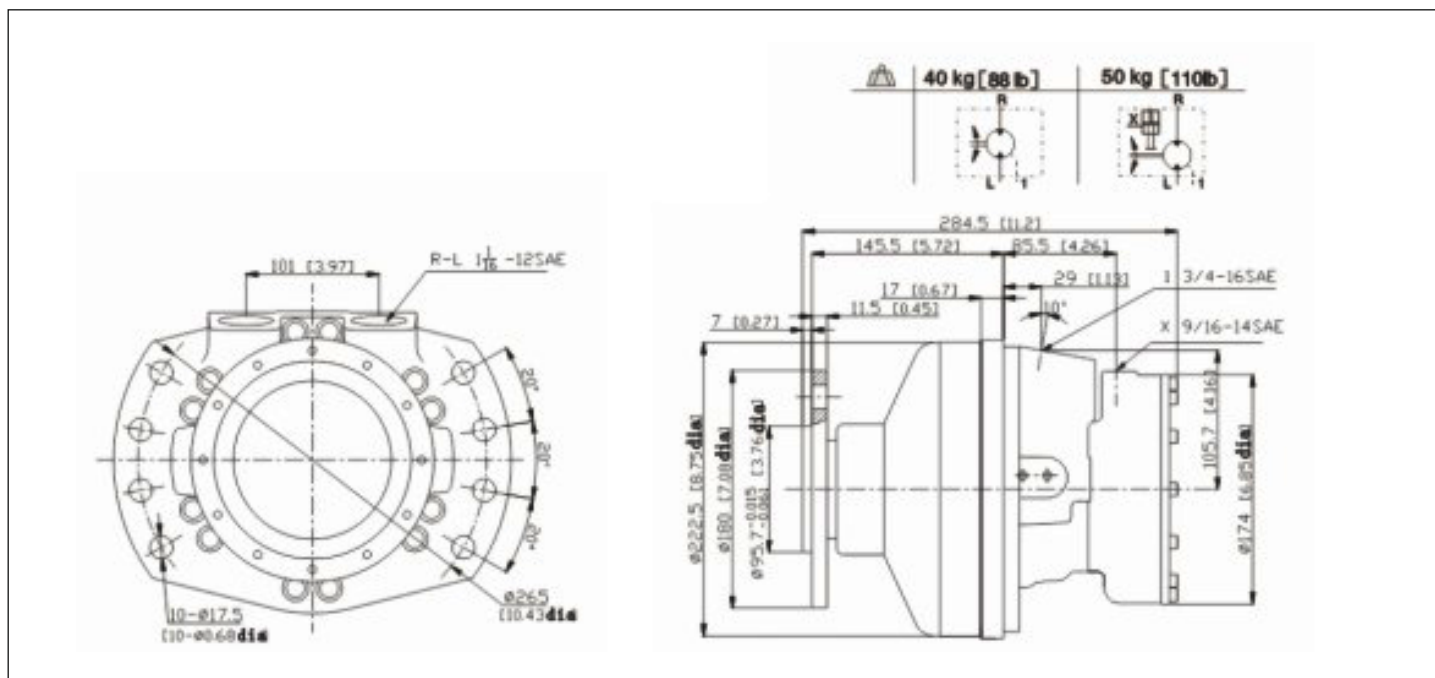


Ordering Code TMCR05/TMCRE05

TMCR-05	TMCRE-05						
Displacement Code	Displacement Code						
8, 0, 1, 2	9, 0, 1, 2						
Variable Motor							
Single displacement		= 1					
Dual displacement distributor symmetrical		= A					
Dual displacement ratio 2 (clockwise)		= D					
Dual displacement ratio 2 (counter clockwise)		= G					
Mounting							
Shaft Motor		= 1					
Wheel Motor		= 2					
Horseshoe		= 3					
Oil port Specifications							
1 1/16 -12 SAE				= A			
BSPT G3/4				= 1			
M27x2				= 2			
Brake							
Without Brake					= A03		
With Brake					= B02		
Brake					= B04		
Output type							
Shaft motor							
NFE2214 splines					= 2A10		
Cylindrical key					= 2A40		
DIN5480 splines					= 2A50		
Wheel motor							
10xØ18.Ø140					= 1120		
Hydrobase					= 0000		
Special Demand							
Without Options Adaptations						= 0	
Fluorinated elastomer seals						= 1	
Predisposition for speed sensor						= 8	
Reinforced sealing						= E	
Reinforced bearing stop						= J	
High speed						= M	



Unit Dimensions TMCR05/TMCRE05



Motor Applications TMCR05/TMCRE05

Mining Machinery: Coal Winning Machine, Road Header, Heavy Duty Handling Car, Coal Mine Drill
Construction Machinery: Skid Steer Loader, Break Machine

Motor Specifications TMCR05/TMCRE05

Code	TMCR05				TMCRE05			
Displacement group	8	0	1	2	9	0	1	2
Displacement (ml/r)	380	470	520	565	620	680	750	820
Theoretical torque at 10 Mpa (Nm)	604	747	826	890	985	1080	1192	1302
Rated Speed (r/min)	160	125	125	125	125	100	100	100
Rated Pressure (MPa)	25	25	25	25	25	25	25	25
Rated torque (Nm)	1510	1867.5	2065	2225	2462.5	2770	2980	3225
Max. Pressure (MPa)	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5
Max. torque (Nm)	1540	1900	2100	2290	2510	2750	3040	3320
Speed range (r/min)	0-475	0-385	0-350	0-320	0-290	0-265	0-240	0-220
Max. power (kW)	29	29	29	29	35	35	35	35



TMCR10/TMCRE10 Series Hydraulic Motor

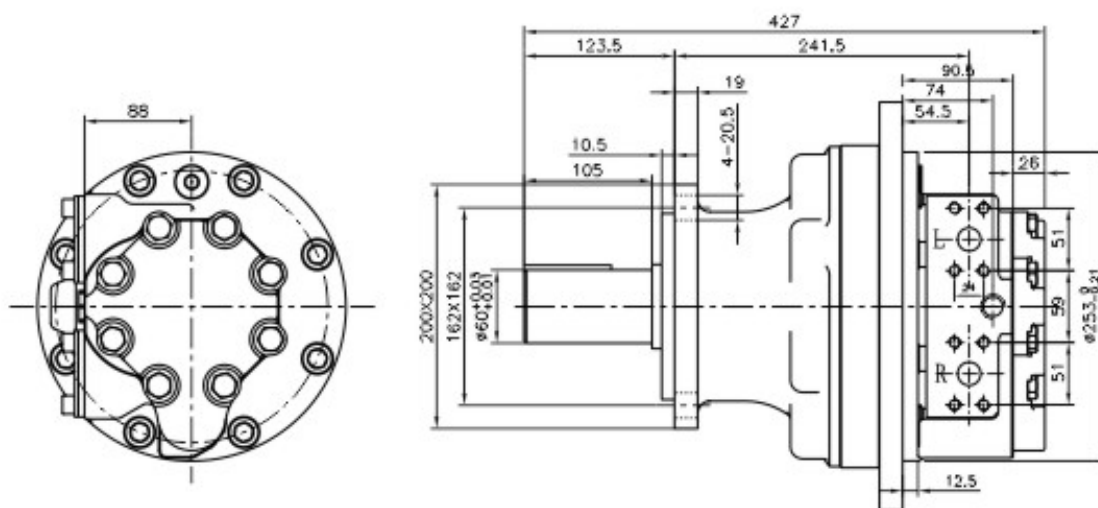


Ordering Code TMCR10/TMCRE10

TMCR-10	TMCRE-10						
Displacement Code	Displacement Code						
0, 1, 2	0, 1, 2						
Variable Motor							
Single displacement		= 1					
Dual displacement distributor symmetrical		= A					
Dual displacement ratio 2 (clockwise)		= D					
Dual displacement ratio 2 (counter clockwise)		= G					
Mounting							
Shaft Motor		= 1					
Wheel Motor		= 2					
Oil port Specifications							
1 1/16 -12 SAE				= A			
BSPT G3/4				= 1			
M27x2				= 2			
Brake							
Without Brake					= R10		
With Brake					= B02		
Brake					= B04		
Output type							
Shaft motor							
NFE2214 splines					= 2A10		
Cylindrical key					= 2A40		
DIN5480 splines					= 2A50		
Wheel motor							
6xØ20.Ø205					= 1120		
Hydrobase					= 0000		
Special Demand							
Without Options Adaptations						= 0	
Fluorinated elastomer seals						= 1	
Predisposition for speed sensor						= 8	
Reinforced sealing						= E	
Reinforced bearing stop						= J	
High speed						= M	



Unit Dimensions TMCR10/TMCRE10



Motor Applications TMCR10/TMCRE10

Mining Machinery: Coal Winning Machine, Road Header, Heavy Duty Handling Car, Coal Mine Drill

Construction Machinery: Skid Steer Loader, Break Machine

Motor Specifications TMCR10/TMCRE10

Code	TMCR10			TMCRE10		
Displacement group	0	1	2	0	1	2
Displacement (ml/r)	780	860	940	1120	1250	1340
Theoretical torque at 10 Mpa (Nm)	1240	1367	1494	1780	1987	2130
Rated Speed (r/min)	125	100	100	100	80	80
Rated Pressure (MPa)	25	25	25	25	25	25
Rated torque (Nm)	3100	3417.5	3735	4450	4967.5	5325
Max. Pressure (MPa)	31.5	31.5	31.5	31.5	31.5	31.5
Max. torque (Nm)	3160	3480	3810	4540	5060	5430
Speed range (r/min)	0-215	0-195	0-180	0-150	0-135	0-125
Max. power (kW)	44	44	44	50	50	50

