

Unique product portfolio and problem-solving expertise in all industries

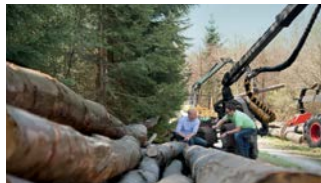
As a leading supplier in the field of mobile hydraulics, Bosch Rexroth takes a top position with its components, systems and extensive application know-how.

From its product range, which is the widest in the world, Bosch Rexroth offers standard products, application-related systems and customer-specific special solutions of high quality and reliability.

Whether you are after technology with low emissions for construction machinery, maximum efficiency for solid earnings with agricultural and forestry machines, or high precision to move heavy loads with material handling – Bosch Rexroth offers solutions tailored to the specific requirements of our customers.

Starting in the product development process, we attach great importance on satisfying customer requirements, a compact and modular design, as well as a best-possible interaction between the individual components and systems. Our customers can rely on the high quality and performance of Rexroth products.

With our technological know-how, our application experience and consulting expertise, we see ourselves as partners of our customers during the whole product life-cycle. Customer orientation and satisfaction is important to us. Worldwide.



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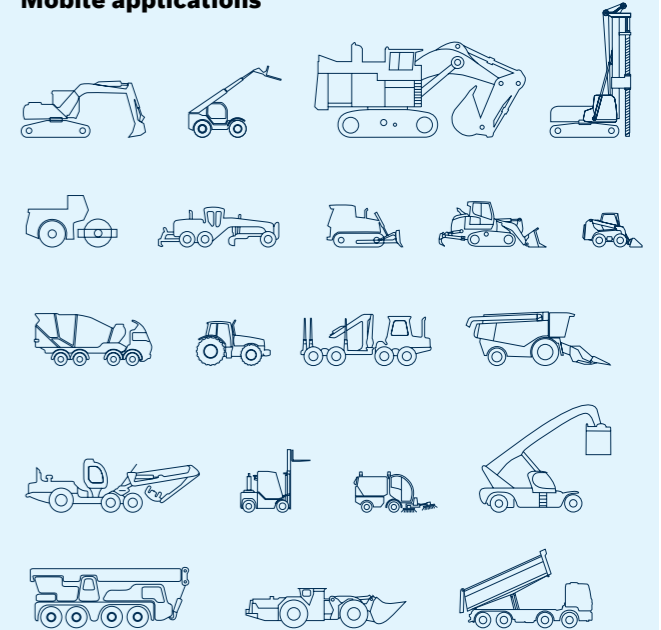
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Pumps, Motors and Transmission Units for Mobile Applications

Product overview



Mobile applications



The data and product features specified in this brochure only serve to provide a general overview of the product range “Pumps, Motors and Transmission Units for Mobile Applications” of Bosch Rexroth Corporation.

The overview does not include all technical data and variants and does not replace a technical data sheet. Detailed information on the individual products can be found in the corresponding data sheets.

No statements concerning a certain condition or suitability for a certain application can be derived from our information.




The information given does not release the user from the obligation of own judgment and verification.

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Pumps

Pumps	Axial piston fixed pumps			Axial piston variable pumps																			External gear pumps					
	Open circuit			Open circuit														Closed circuit					High performance	SILENCE	SILENCE PLUS	Electro-hydraulic		
Product type	A2FO series 70, 6x	A4FO series 3x, 10	A17FO/A17FNO series 10	A1VO series 10	A4V50 series 30	A7VO series 63	A8VO series 6x	A10VO series 31	A10VO series 32	A10VO series 5x	A10VOH series 60	A10VNO series 5x	A11VO series 1x	A15VO series 11	A18VO series 11	A20VO series 10	A28VO series 10	A4VG series 32	A4VG series 35	A4VG series 40	A10VGT series 11	A10VG series 10	A21VG series 10	A24VG series 10	AZPB /AZPF /AZPN /AZPG	AZPS /AZPT /AZPU	AZPJ	EHP
																												
Sizes	5 ... 1000	22 ... 500	23 ... 107 / 125	18 ... 35	355 ... 1000	28 ... 500	55 ... 225	18 ... 100	45 ... 180	10 ... 100	145	28 ... 85	40 ... 260	110 ... 280	55 ... 107	60 ... 520	130 / 280	28 ... 125	56 ... 90	110 ... 280	71 ... 115	18 ... 63	35, 45	85 ... 125	1 ... 100	4 ... 63	12 ... 28	1 ... 22.5
Data sheet number	91405 / 91401	91455	91520 / 91510	92650	92050	92202 / 92203	93010 / 93013	92701	92705	92703	92704	92735	92500	92511	92270 / 92280	93100	93105 / 93110	92003	92035	92004	92770	92750	93223	93240	10088 / 10089 / 10091 / 10093	10095 / 10092 / 10098	10094	10104
Features	Exact adjustment to the application	Low noise	For applications in commercial vehicles	Less fuel consumption	Excellent suction characteristics	Proven bent-axis design	Proven bent-axis design	Short response times	Large variety of controls	Short response times	High permissible drive speed	Alternative to the fixed pump	Large variety of controls	Optimized total efficiency	Application in commercial vehicles (drive of super-structures)	Double pump in back-to-back design	Variable double pump for application in excavators	Adjustable pressure cut-off	High-pressure pump	High efficiency	Application in concrete mixers (drum drive)	Integrated auxiliary pump	Variable double pump with two axial piston rotary groups	Variable double pump for applications with dual-circuit travel drives	Numerous configuration variants	Numerous configuration variants	Drive shafts (ISO, SAE) and customer-specific solutions	High efficiency
	High efficiency	Excellent suction characteristics	Low weight	Optimized efficiency	Low noise	Large variety of controls	Power take-off for mounting of further pumps	Low noise	Low noise	Suitable for high speeds	Low noise	Suitable for high speeds	Optional with charge pump	Optional with charge pump (A15VLO)	High efficiency	Large variety of controls	High efficiency	Integrated auxiliary pump	Integrated auxiliary pump	Integrated auxiliary pump	Integrated auxiliary pump	Suitable for medium pressure range	Capable of eEP control operation	High variability	Long service life	Low pulsation	Numerous configuration variants	Combination with different pumps possible
	Long service life	Long service life	Low noise	Long service life	Short response times	Long service life	Compact design	Long service life	High functional reliability	Low noise	Short control response time	Low noise	High speeds are possible with impeller pump version	Low noise	Low noise	Through drive for mounting of further pumps	High pressure level	Integrated boost valves and high-pressure relief valve	Integrated boost valve and high-pressure relief valve	Integrated boost valves and high-pressure relief valve	Integrated boost valves and high-pressure relief valve	Integrated boost valves and high-pressure relief valve	Common case drain for both pumps	Compact design	Slide bearings for heavy duty applications	Slide bearings for heavy duty applications	Low pulsation and low noise level	Low noise
	High power density	Through drive possibility	No case drain line necessary	Compact design	High pressure pump for applications in construction and mining machinery	Compact design	Variable double pump for applications in excavators, cranes and drilling rigs	Through drive possibility	Through drive possibility	Through drive possibility	High power density	Through drive possibility	Through drive possibility	Through drive possibility	Through drive possibility	Optimized weight and installation dimensions	Compact design	Short installation length	Large variety of controls	Compact design and high power density	High power density	Optional with coupling flange	Optional with pressure cut-off	Compact design	Suitable for applications with highest pressure demands	Drive shafts (ISO, SAE) and customer-specific solutions	Drive shafts (ISO, SAE) and customer-specific solutions	Slide bearings for heavy duty applications
Maximum pressure [bar]	up to 450	up to 450	400 / 300	280	400	400	400	350	350	315	420	250	400	420	400	up to 400	420	450	530	500	420	350	450	500	up to 280	up to 280	up to 280	up to 280
Nominal pressure [bar]	up to 400	up to 400	350 / 250	250	350	350	350	280	280	250	320	210	350	350	350	up to 350	380	400	400	450	–	300	420	450	–	–	–	–

Motors and Transmission Units

Motors and Transmission Units	Axial piston motors															External gear motors	Radial piston motors	Transmission units																								
	Fixed motors								Variable motors							High performance	High torque	Travel gears				Swing gears		Winch gears																		
Product type	A2FMN/A2FEN series 70	A2FMM/A2FEM series 70	A2FMH/A2FEH series 70	A2FM series 6x	A2FE series 6x	A4FM series 10, 3x	A10FM series 52	A10FE series 52	A6VM series 6x	A6VE series 6x	A6VM series 71	A6VE series 71	A10VM series 52	A10VE series 52	A10VER series 52	AZMB/AZMF/AZMN/AZMG	MCR-F/-W/-A/-H/-T/-S/-C/-D/-E/-R																									
Sizes	28 ... 107	23 ... 180	45 ... 125	5 ... 1000	160 ... 355	71 ... 500	18 ... 63	10 ... 63	28 ... 1000	28 ... 250	60 ... 280	60 ... 215	28 ... 85	28 ... 63	18 ... 45	2.5 ... 45	160 ... 3000	8105 ... 8190	GFT8150 w/ TIS	8120 ... 8150	160 ... 620	GFB 9 ... GFB 84	8110 ... 8195	160 ... 450	5110 ... 5190																	
Data sheet number	91071	91071	91071	91001	91008	91120	91172	91172	91604/91607	91606/91615	91610	91616	91703	91703	91706	14027/14028/14029/14030	15195/15196/15197/15198/15199/15200/15221/15226/15223	77117	79093	79082	77110	77201	79058	77502	77506																	
Features	Compact design	Compact design	Compact design	High power density	Integration in mechanical gearboxes	High total efficiency	High power density	High power density	Wide control range	Integration in mechanical gearboxes	Long service life	Integration in mechanical gearboxes	High power density	Integration in mechanical gearboxes	Short installation length	Numerous configuration variants	Application specific variants	Torque output 7 ... 130 kNm	Torque output 42 kNm	Torque output 15 ... 42 kNm	Torque output 160 ... 620 kNm	Torque output 4 ... 68.3 kNm	Torque output 4.5 ... 54 kNm	Torque output 140 ... 325 kNm	Torque output 7.5 ... 105 kNm																	
	Proven 40° bent-axis design	Proven 40° bent-axis design	Proven 40° bent-axis design	High total efficiency	High total efficiency	Long service life	Proven swashplate design	Integration in mechanical gearboxes	High torque	Easy to install	Excellent slow-running characteristics	Easy to install	Proven swashplate design	High power density	Compatibility for hydrostatic fan drives	Plain bearings for high loads	Smooth running at very low speeds	For travel drives in wheeled and tracked vehicles	For wheel-driven harvesters with single-whell	For travel drives in wheeled and tracked vehicles	For travel drives in wheeled and tracked vehicle	For the swing drive of the superstructure, e.g. of excavators, cranes, forestry machines, ship unloaders	For the swing drive of the superstructure, e.g. of excavators, cranes, forestry machines, ship unloaders	For direct installation in winch drums, e.g. for drilling rigs and cranes	For direct installation in winch drums, e.g. for drilling rigs and cranes																	
	High starting efficiency	High starting efficiency	High starting efficiency	High starting efficiency	High power density	High tolerance to torsional vibrations	Long service life	Long service life	Long service life	Wide control range	High starting efficiency	Suitable for high speeds	Long service life	Long service life	High efficiency of the fan drive	Long service life	High volumetric and mechanical efficiencies	Two- or three-stage planetary gearbox	Through the planetary gearbox implemented Tire Inflation System (TIS) solution	Three- or four-stage planetary gearbox	Three- or four-stage planetary gearbox	Two- or three-stage planetary gearbox	Two- or three-stage planetary gearbox	Three- or four-stage planetary gearbox	Two- or three-stage planetary gearbox																	
	Different housing variants (e.g. plug in version)	Different housing variants (e.g. plug in version)	Different housing variants (e.g. plug in version)	Large variety of graduated sizes	Easy to install	Well suited for applications with compact installation size	Suitable for high speeds	Suitable for high speeds	Suitable for high speeds	Suitable for high speeds	Suitable for high speeds	High starting efficiency	Suitable for high speeds	Suitable for high speeds	Suitable for high speeds	Integrated reversing function for cooler cleaning	Drive shafts (ISO, SAE) and customer-specific solutions	Bi-directional	Can be combined with Rexroth's extensive line of motors	Can be combined with Rexroth's extensive line of motors	Can be combined with Rexroth EMS1H and Bosch SMG electric motors, but also motors with similar power from other manufactures.	Can be combined with Rexroth's extensive line of fixed or variable motors	For use in all applications where precise positioning is necessary	For use in all applications where precise positioning is necessary	Can be combined with Rexroth's extensive line of fixed or variable motors	Can be combined with Rexroth's extensive line of fixed or variable motors																
Maximum pressure [bar]	350	450	500	up to 450	up to 450	400	350	350	up to 450	up to 450	500	500	350	350	350	up to 280	450	up to 500	—	—	up to 500	450	—	up to 500	up to 500																	
Nominal pressure [bar]	300	400	450	up to 400	up to 400	350	280	280	up to 400	up to 400	450	450	280	280	280	—	250	up to 450	—	—	up to 450	400	—	up to 450	up to 450																	