

Unique product portfolio and problem-solving expertise in all industries

Bosch Rexroth is your strong partner in hydraulics, electro-hydraulics, digitally networked solutions and electrification of Off-highway machines.

We're helping our customers to develop the next generations of Off-highway machines, which are more safe, efficient, powerful and intelligent. Explore more.

As a leading supplier in the field of mobile hydraulics, 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 solutions.

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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Mobile Hydraulic Configurators



A4VG/35
Configurator



A36
Configurator



A2F
Configurator



External Gear Units
Configurator



Electrohydraulic Pumps
Configurator

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Pumps, Motors

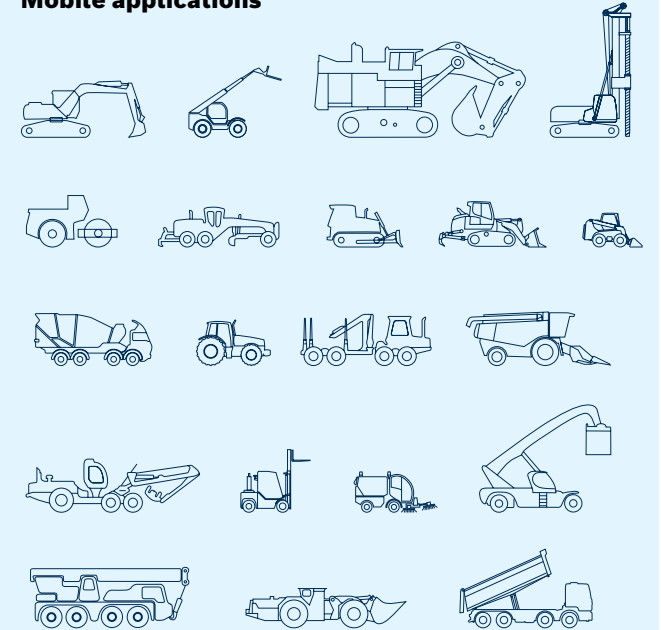
and Gearboxes

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 Gearboxes for Mobile Applications" of Bosch Rexroth.

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	A4VSO series 30	A7VO series 63	A8VO series 6x, 72	A10VO series 31	A10VO series 32	A10VO series 5x	A10VOH series 60	A10VNO series 5x	A11VO series 1x	A15VO series 11	A18VO/A18VLO 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	92053	92202 / 92203	93010 / 93013	92701	92705	92703	92704	92735	92500	92512	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	High pressure pump for applications in construction and mining machinery	Proven bent-axis design	Double pump for applications in excavators, cranes and drilling rigs	Through drive possibility	Large variety of controls	Suitable for high speeds	High permissible drive speed	Alternative to the fixed pump	Optional with charge pump (A11VLO)	Optional with charge pump (A15VLO)	Application in commercial vehicles (drive of super-structures)	Double pump in back-to-back design	Double pump for application in excavators	Adjustable pressure cut-off	High-pressure pump	High efficiency	Application in concrete mixers (drum drive)	Integrated auxiliary pump	Double pump with two axial piston rotary groups	High-pressure double pump for vehicles with two closed circuits	Numerous configuration variants	Numerous configuration variants	Numerous configuration variants	Combination with different pumps possible
	High efficiency	Through drive possibility	Low weight	Optimized efficiency	Excellent suction characteristics	Large variety of controls	Proven bent-axis design	Long service life	Through drive possibility	Through drive possibility	Excellent suction characteristics	Suitable for high speeds	Large variety of controls	Optimized efficiency	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	Suitable for applications with highest pressure demands	Slide bearings for heavy duty applications	Slide bearings for heavy duty applications	Slide bearings for heavy duty applications	High efficiency
	High power density	Excellent suction characteristics	No case drain line necessary	Long service life	Low noise	Long service life	Power take-off for mounting of further pumps	Low noise	High functional reliability	Low noise	Low noise	High power density	Through drive possibility	Through drive possibility	Low noise	Through drive for mounting of further pumps	High pressure level	Integrated boost valves 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	Integrated boost valves and high-pressure relief valve	Common case drain for both pumps	High variability	Drive shafts (ISO, SAE) and customer-specific solutions	Drive shafts (ISO, SAE) and customer-specific solutions	Drive shafts (ISO, SAE) and customer-specific solutions	Low noise
	Long service life	Long service life	Low noise	Compact design	Short response times	Compact design	Compact design	Short response times	Low noise	Short response times	Short control response time	Low noise	High speeds are possible with impeller pump version	Low noise	Optimized weight and installation dimensions	Compact design	Compact design	Large variety of controls	Compact design and high power density	High power density	Optional with coupling flange	Optional with pressure cut-off	Compact design	Compact design	Long service life	Low pulsation	Low pulsation and low noise level	Compact design
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 Gearboxes

Motors and Gearboxes	Axial piston motors															External gear motors	Radial piston motors	Planetary gearboxes							Spur gears
	Fixed motors							Variable motors								High performance	High torque	Travel gears			Swing gears		Winch gears		Central drives
Product type	A2FMN/A2FEN series 70	A2FMM/A2FEM series 70	A2FMH/A2FEH series 70	A2FMT series 70	A2FM/A2FE series 6x	A4FM series 10, 3x	A10FM/A10FE series 52	A6VM series 6x	A6VE series 6x	A6VM series 71	A6VE series 71	A36VM series 10	A10VM series 52	A10VE series 52	A10VER series 52	AZMB/AZMF/AZMN/AZMG	MCR-F/-W/-A/-H/-T/-S/-C/-D/-E/-R	GFT 8000 series 40	eGFT 8000 series 40	GFT Large series 20	GFB 8000 series 40	GFB	GFW 5000 series 40	GFT-W Large series 30	eGFZ9000 series 10
																									
Sizes	28 ... 107	23 ... 180	45 ... 125	56 ... 107	5...16, 200...1000	71 ... 500	10 ... 63	28 ... 1000	28 ... 250	60 ... 280	60 ... 215	125 ... 55	28 ... 85	28 ... 63	18 ... 45	2,5 ... 45	160 ... 3000	8105 ... 8190	8120 ... 8150	160 ... 620	8110 ... 8195	GFB 9 ... GFB 84	5110 ... 5190	160 ... 450	9125/9275
Data sheet number	91071	91071	91071	91072	91001	91120	91172	91604/91607	91606/91615	91610	91616	91650	91703	91703	91706	14027/14028/14029/14030	15195/15196/15197/15198/15199/15200/15221/15223/15226	77117	79082	77110	79058	77201	77506	77502	98768/98769
Features	Proven 40° bent-axis design	Proven 40° bent-axis design	Proven 40° bent-axis design	Application in concrete mixers (drum drive)	Integration in mechanical gear-boxes (A2FE)	Well suited for applications with compact installation size	Proven bent-axis design	High torque	Integration in mechanical gearboxes	Excellent slow-running characteristics	Integration in mechanical gearboxes	High-pressure motor for travel drives	Proven swashplate design	Integration in mechanical gearboxes	Compatibility for hydrostatic fan drives	Numerous configuration variants	Application specific variants	Torque output 7 ... 130 kNm	Torque output 15 ... 42 kNm	Torque output 160 ... 620 kNm	Torque output 4.5 ... 54 kNm	Torque output 4 ... 68.3 kNm	Torque output 7.5 ... 105 kNm	Torque output 140 ... 325 kNm	Torque output 3800 ... 7650 kNm
	Different housing variants (e.g. plug in version)	Different housing variants (e.g. plug in version)	Different housing variants (e.g. plug in version)	Compact design	Large variety of graduated sizes	High tolerance to torsional vibrations	Suitable for high speeds	Suitable for high speeds	Suitable for high speeds	Suitable for high speeds	Suitable for high speeds	Suitable for high speeds	Suitable for high speeds	Suitable for high speeds	Integrated reversing function for cooler cleaning	Plain bearings for high loads	Smooth running at very low speeds	For travel drives in wheeled and tracked vehicles	For travel drives in wheeled and tracked vehicles	For travel drives in wheeled and tracked vehicle	For the swing drive of the super-structure, e.g. of excavators, cranes, forestry machines, ship unloaders	For the swing drive of the super-structure, 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	Developed specifically for high speed electric motors
	High starting efficiency	High starting efficiency	High starting efficiency	High starting efficiency	High starting efficiency	Long service life	Integration in mechanical gear-boxes (A10FE)	Long service life	Easy to install	High starting efficiency	High starting efficiency	High starting efficiency	High power density	High power density	High efficiency of the fan drive	Drive shafts (ISO, SAE) and customer-specific solutions	High volumetric and mechanical efficiencies	Two- or three-stage planetary gearbox	Three- or four-stage planetary gearbox	Three- or four-stage planetary gearbox	Two- or three-stage planetary gearbox	Two- or three-stage planetary gearbox	Two- or three-stage planetary gearbox	Three- or four-stage planetary gearbox	eGFZ9000 2-speed spur gear drive
	Compact design	Compact design	Compact design	High total efficiency	High total efficiency	High total efficiency	Long service life	Wide control range	Wide control range	Long service life	Easy to install	Long service life	Long service life	Long service life	Short installation length	Long service life	Bi-directional	Can be combined with Rexroth's extensive line of motors	Can be combined with Rexroth EMS1H and Bosch SMG electric motors and others	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	Drive for off-highway vehicles
Maximum pressure [bar]	350	450	500	420	up to 450	400	350	up to 450	up to 450	up to 530	530	530	350	350	350	up to 280	up to 470								Plug and drive system
Nominal pressure [bar]	300	400	450	–	up to 400	350	280	up to 400	up to 400	450	450	450	280	280	280	–	–								Versatile output solutions
																									Preferable used with Rexroth EMS1H and Bosch SMG electric motors