

Systems engineering in agriculture



About us



Klettgau, Germany



Frutigen, Switzerland



Neuheim, Switzerland



Rixheim, France



Reggio Emilia, Italy

Bucher Hydraulics has been a leading provider of innovative solutions for hydraulic drives and control systems for over forty years.

Bucher Hydraulics works closely with its customers in developing very advanced machines that feature exacting technical demands and stringent quality standards. Even at the initial concept stage, we can offer valuable support for the product optimisation process by drawing on our many years of experience in hydraulic systems engineering.

Today, Bucher Hydraulics is a business with over 1,000 employees and specialises in hydraulic systems and components for use in mobile and industrial machines.



Mini-tractors



Modern mini-tractors are very quiet, convenient, powerful and manoeuvrable. The operator benefits from significant advantages.



Bucher Hydraulics supplies the following equipment for the high-performance hydraulic system:

- gear pumps to generate flow and pressure
- proportional directional valves to give precision control of the main hydraulic functions

- load sensing system for the hydraulic steering
- seated directional valves for leak-free operation of the hydraulic cylinders
- intelligent electronics that facilitate effortless operation



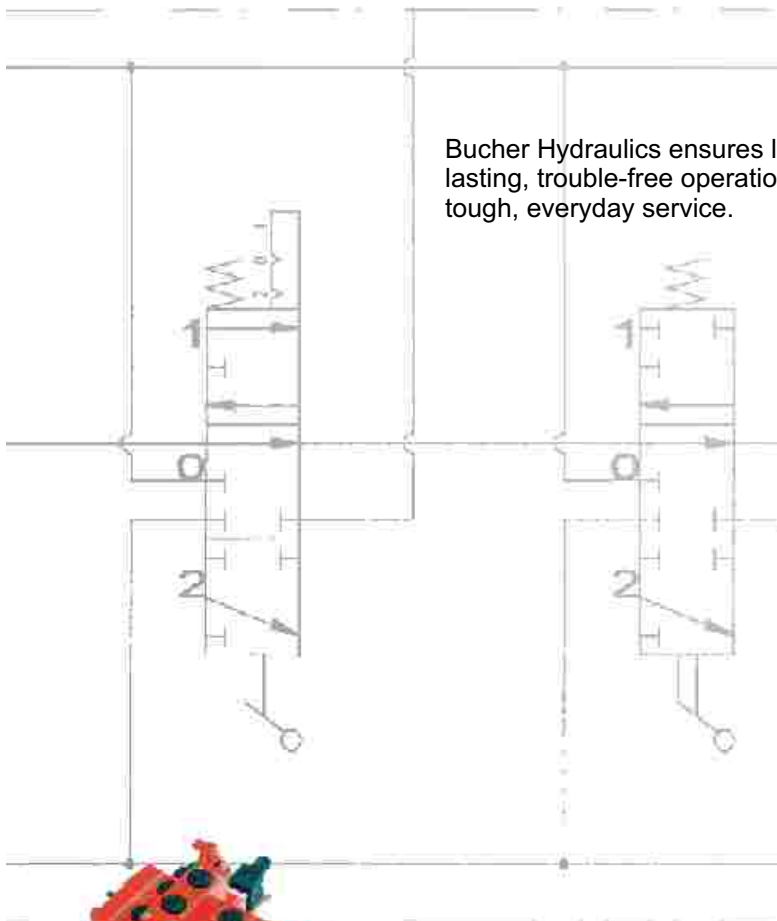
Mini-loaders



Mini-loaders are also mini-giants that have to offer outstanding cost effectiveness as well as great flexibility in their possible uses.



B



Bucher Hydraulics ensures long lasting, trouble-free operation in tough, everyday service.

- gear pumps to generate flow and pressure
- proportional directional valves for fully-hydraulic drive and steering functions
- manually operated directional valves for one-handed control of several functions
- intelligent electronics for increased customer benefits



Potato technology "on tow"

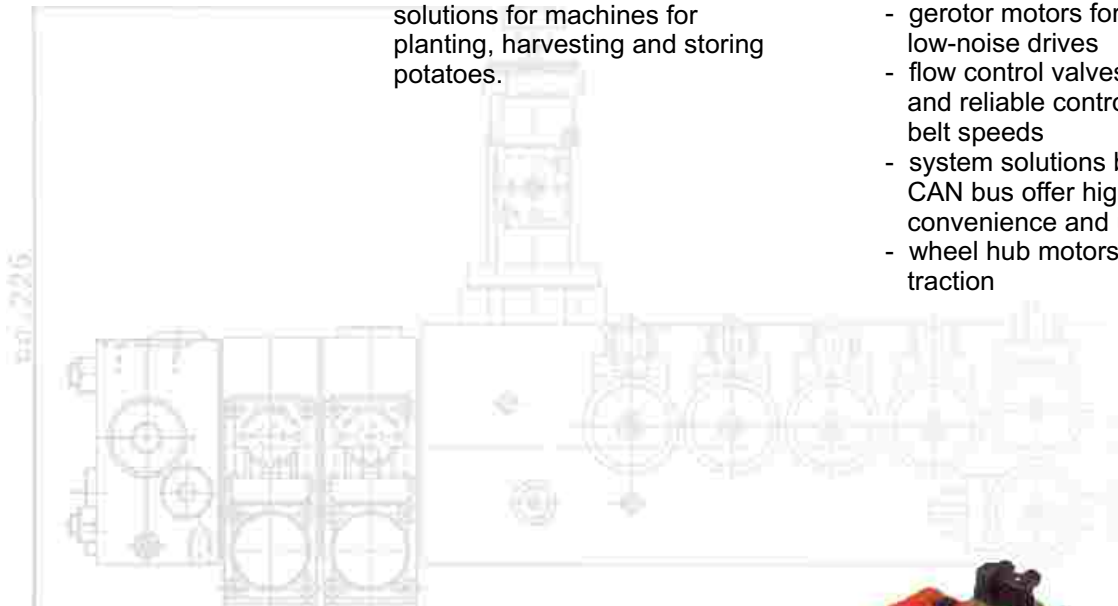


Every potato grower wants to plant, tend and harvest his crop in the most efficient but careful and low-waste manner.



Powerful but responsive hydraulic systems from Bucher Hydraulics offer manufacturers the right solutions for machines for planting, harvesting and storing potatoes.

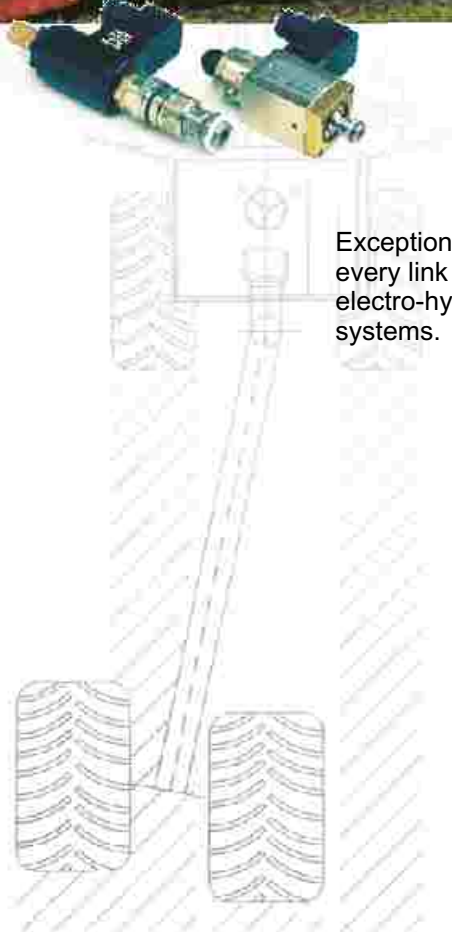
- proportional- and ON/OFF directional valves control all motion functions
- gerotor motors for reliable and low-noise drives
- flow control valves give precise and reliable control of conveyor belt speeds
- system solutions based on the CAN bus offer high levels of convenience and user benefits
- wheel hub motors for additional traction



Self-propelled beet harvesters



During the lifting season, sugar beet harvesters are in continuous service day after day. The demands for reliability, flexibility and ease of operation are extremely high.



Exceptional demands are placed on every link in the chain, including the electro-hydraulic drive and control systems.

- proportional- and ON/OFF directional valves give trouble-free control of hydraulic operations
- gerotor motors and wheel-hub motors power high-torque drives
- flow control valves control the speed of conveyor belts and cleaning elements
- intelligent electronics link the functions and communicate with the on-board computers



Fertiliser spreaders

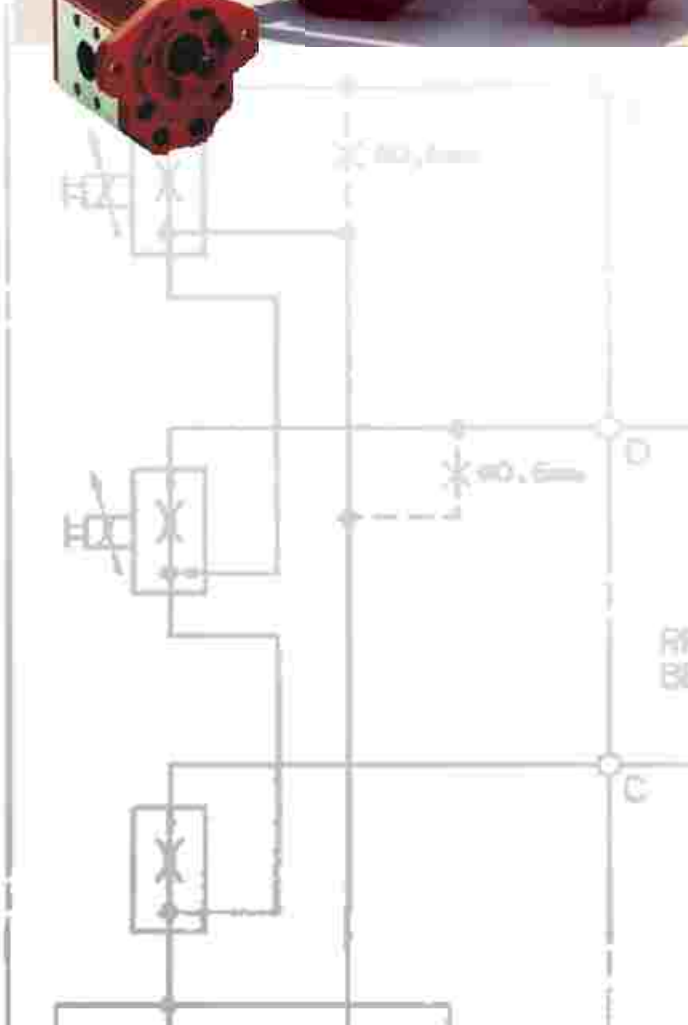


The decisive criteria for a modern, future-proofed fertiliser technology are precise control, long service life, great accuracy in nutrient delivery and the ability to clear out all residues quickly and easily



Bucher Hydraulics plays an important part in meeting these criteria.

- external gear motors for driving the spinner plates
- gerotor motors for loosening up the fertiliser mass
- proportional flow control valves



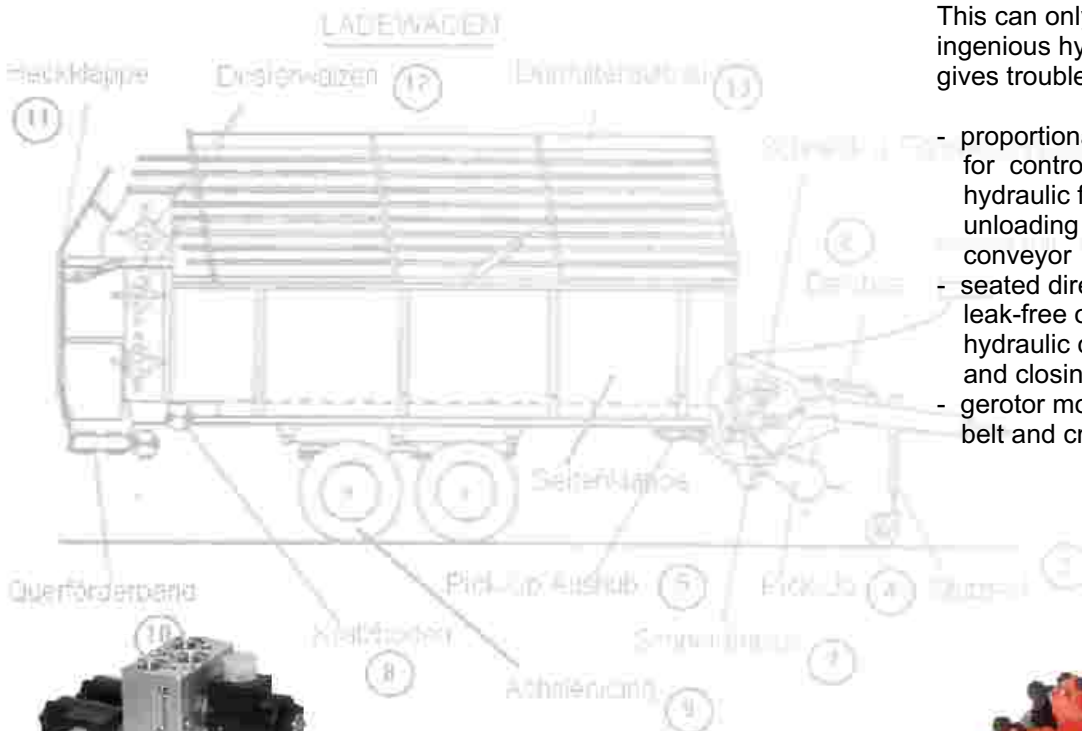
Forage wagons



Modern forage wagons have to pick up and load every kind of material: green fodder, silage, hay and straw. In addition, they have to be capable of being used as fodder spreading wagons.



This can only be achieved by an ingenious hydraulic system that gives trouble-free operation.



- proportional directional valves for controlling the critical hydraulic functions such as the unloading belt and cross conveyor
- seated directional valves for leak-free operation of the hydraulic cylinders e.g opening and closing the tail gate
- gerotor motors for the unloading belt and cross conveyor



Slurry injectors



Regulations governing the use of slurry have resulted in the development of new low-odour distribution techniques.



Bucher Hydraulics offers individual solutions for the various distribution techniques.

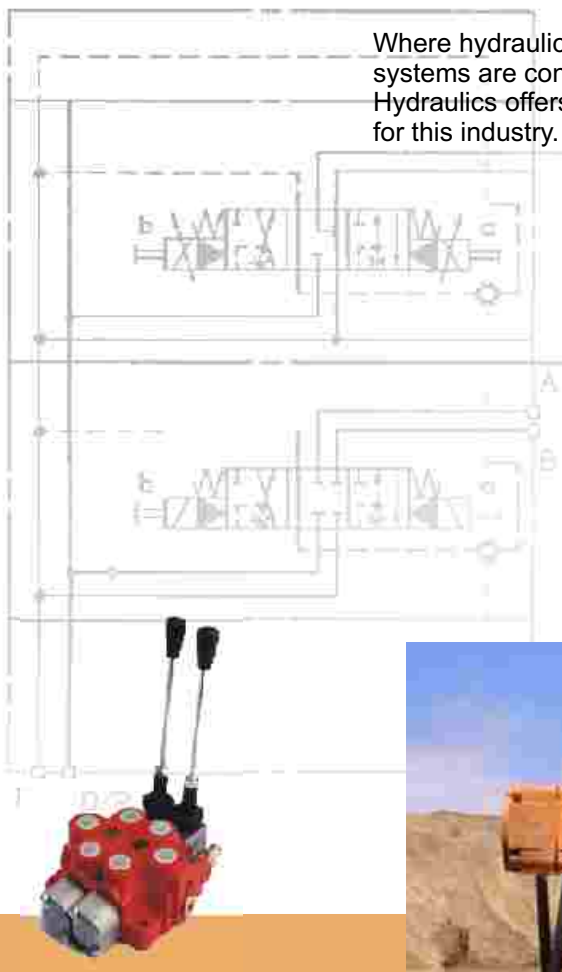
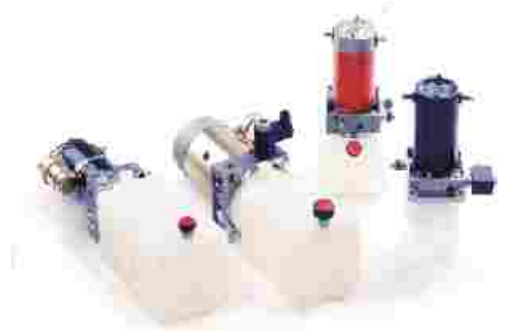
- proportional directional valves for controlling the main hydraulic functions
- seated directional valves for leak-free operation of the hydraulic cylinders
- gerotor motors for the distributor drive
- system solutions based on the CAN bus link the functions for the customer's benefit



Winches



To meet the diverse requirements of the very varied areas in which winch technology is applied several hydraulic systems have been developed.



Where hydraulic drives and control systems are concerned, Bucher Hydraulics offers the right concepts for this industry.

- cartridge valves for controlling the main hydraulic functions such as clutch and brakes
- compact power units with integral valve technology
- internal gear motors for powerful drives and energy recovery
- hand-operated monoblock valves for controlling the system
- intelligent electronics that ensure convenient operation



Everything at a glance

Product	Function / Construction	Series	Max. operating pressure (bar)	Displacement cm ³ /rev
Pumps	Internal gear pumps	QX	320	3 - 498
	External gear pumps	AP	220	0,25 - 93
Power units	Compact power units	UP 100 / 50 / 25	210	0,25 - 10
	Motor/pump sets	ET	220	0,25 - 22
Motors	External gear motors	APM	220	0,5 - 93
	Gerotor motors	BR-BM	280	52 - 2093
	Radial piston motors	BB	400	250 - 6300
	Internal gear motors	QXM	400	5 - 500
Directional valves	Monoblock type:			Nom. flow. l/min
	- manually operated + on/off solenoid	HDM	400	40 - 100
	- manually operated + prop. solenoid	MU	350	50 - 450
	Sectional type:			
	- manually operated; on/off solenoid and proportional solenoid	HDS	350	45 - 180
	- manually operated; on/off solenoid and proportional solenoid	L.8S / LV	280 / 420	100 / 250
	- manually operated + prop. solenoid	S	350	100 - 450
	Plate type:			
	- manually operated + proportional solenoid	PV	350	50 - 400
	- solenoid directional valves	W	315	ISO 2 - 5
Stacking valves	WE	350	ISO 2 - 5	
Cartridge valves	W	210 - 350	5 - 10 mm	
Flow control valves	Flow dividers	MTDA	315	4 - 250
	Differential lock valves	MT.DV.	420	25 - 200
	Flow control valves			
	- line mounting	MTKA / MTQA / MTCA	315	70 + 80
	- stack mounting	SM	315	ISO 2 - 7
- cartridge type	SR3C / M	315	10 - 63 / 6 - 10 mm	
Pressure control valves	Stack mounting	SD	315	ISO 2 - 7
	Cartridge type	D	20 - 450	2 - 16 mm
Check valves	Stack mounting	SR	315	ISO 2 - 7
	Cartridge type	R	210 - 420	4 - 16 mm
Safety valves	Load control valves	LB / Cindy / BBV	420	50 - 500
	Hose burst valves	ESV / RS / RBA	400	40 - 400
	Travel brake valves	FBVG	450	300
	Load holding valves	REFUVA	450	350
Special valves	Slewing gear valves	DLHV	350	15
	Fast-advance cartridges	EGP	350	250
	Seat valves: sectional design	SVH04	210	20
	Seat valves, monoblock type	WSH03	210	25

Open- and closed-loop electronics for mobile hydraulic systems

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