

Baumann sideloaders BHX 40 – 50 4 – 5 tons

Technical Information



Baumann sideloaders BHX 40 - 50 Standard equipment





- Low emission VM Detroit Diesel
- Hydrostatic transmission: Variable displacement pump drives two variable displacement axial-piston motors
- Double cylinder steering axle with tight turning radius
- Corresponding hydraulic tilt cylinders on the cab side
- Pre-controlled hydraulic system with joystick operation
- Brakes
 Hydrostatic service brake
 Braked on drive wheels (BHX 40)
 Braked on steering axle (BHX 50)
 Electro-hydraulic parking brake
- Hydrostatic safety power steering system with no return-shocks
- Pneumatic tyres "27 x 10 12"
- Mast standard duplex ST h3 = 4000 mm
- Fork spread range
 BHX 40 300 1.420 mm
 BHX 50 360 1.420 mm
- Fork carriage FEM 3B / FEM 4B (BHX 50)
- Drivers cabin
 Comfort 800 mm wide cabin
 Adjustable BE-GE comfort seat with textile covers and arm rest
 Allround tinted safety glass
 Sliding window at load-side
 Protective grille according to EN-Standard

Roof with armoured glass
2 speed front windscreen wiper
and rear windscreen wiper
Heater and defroster system with
vents for front and side window
Height and angle adjustable steering
column with all operating functions
Hour meter

Analogue -instruments for

Fuel

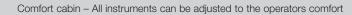
Platform tilt

Water coolant temperature

- Foot-steps and handrail to front and rear platform
- Lighting system behind metal protectors
 High- and low beam
 Tail and brake lights
 Indicators front and rear
 Reverse lights
- Working light on cabin roof
- Platform covers made of water resistant glue lined wooden panels
- Rear towing hook with integrated step onto the platform
- CE Certificate, Operating manual, Parts manual
- Paint

Chassis RAL 7043 Traffic Grey B
Cab RAL 1006 Maize Yellow
Mast RAL 7043 Traffic Grey B









Picture top: Under-deck design – All components are mounted below the rear platform. The advantages are: easy access for maintenance and checkup as well as excellent rear vision. Picture down: Robust steering axle with large steering angle for maximum agility

Baumann reserves the right to make modifications for product improvement. Illustrations may show optional equipment not included in standard versions.

Technical Description BHX 40 – 50

Operation

The 800 mm wide driver's cabin provides a wide well-organised working environment. The vibration dampened cab is placed on the front platform. A high level of operating comfort is achieved thanks to a soundproof interior and an in height and angle adjustable steering wheel. The operator further benefits from the standard joystick operation. All hydraulic functions pre-controlled allow for easy and noise free operation.

Drive

All components including the powerful water-cooled engine are mounted below the rear platform. This contributes to a better visibility to the rear, a lower noise level and an improved traction without load. The air intake is placed high above the platform to ensure clean air intake.

Transmission

Efficient handling is achieved with a fully automatic hydrostatic transmission. The infinitely variable transmission is perfectly suited to the engine performance.

The unit coupled directly to the engine offers high traction power as well as a good gradeability. The hydrostatic drive ensures gentle starts and wear-free braking.

Chassis

The front and rear axle are connected to a rigid torsion resistant frame through hydraulic cylinders. These tilt cylinders are located on the cab side. The advantages of this system are as follows:

- Safe and easy loading through the platform tilt
- Fast and precise handling
- Robust and problem free usage on uneven terrain through floating axles

Brakes

To ensure safe handling Baumann sideloaders are equipped with a three stage brake-system combining hydrostatic and hyraulic brakes.

- Hydrostatic service brake decelerates through shifting back of the variable displacement pump
- Once the brake pedal is pushed the hydrostatic brake steps-in further for wear free braking.
 The hydraulic brake supports the hydrostatic brake for preceise stopping.
- The electro-hydraulic parking brake applies to both drive wheels.
 In case of a pressure loss the multiple disk brakes close automatically.

Hydraulic system

The state of the art system is driven by a powerful adjustable hydraulic pump. It is driven by the engine and offers high speed mast movements at low rpm. This allows for precise and stress free operations. The truck is equipped with 1 joystick (2 joysticks available as an option).

To ease maintenance and service the hydraulic tank and the pressure filter system are easily accessible below the rear platform.

Mast

The robust telescopic mast is specifically designed for sideloaders. It is made of slim geometric cold-drawn profiles.

The wide mast combined with large rolls compensate for axial and radial forces experienced whilst handling long loads. This design ensures high stability and long service life.

Besides standard masts Baumann can supply its trucks with full-free-lift and triplex masts. The mast traverse translation is achieved with diagonally cross mounted hydraulic cylinders with end-of-travel dampeners.

This proven design provides for an obstruction-free rear sight. Very long traverse runs and high specification

traverse rollers result in accurate handling and minimal wear - especially when handling long loads.

Furthermore traverse guides are easily replaceable to allow for wear and tear.

Options for special applications BHX 40 - 50

Comfort and Environment

- Cabin, 1.000 mm wide
- Hydropneumatic suspension improves operator comfort
- Additional soundproof package
- Exhaust gas cleaning equipment

Integrated Fork adjustments without loss of load centre

- Hydraulic fork tilt +/- 3°
- Hydraulic fork adjustment in well
- Hydraulic side shift +/- 100 mm
- Hydraulic independent fork
- Hydraulic swivelling forks +/- 3°

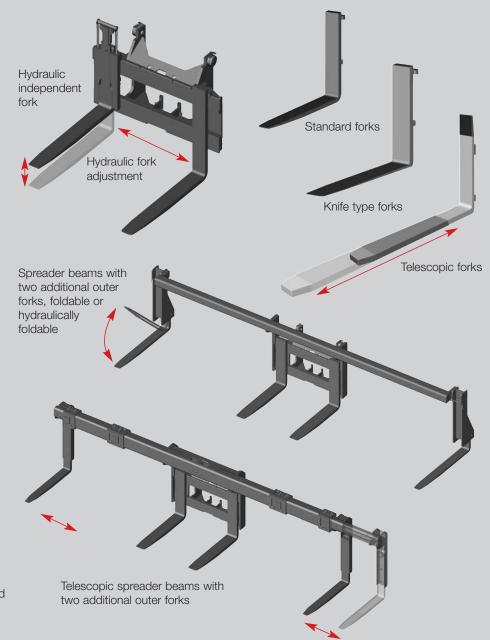
Spreader beams - without loss of load centre up to loadheight 950 mm

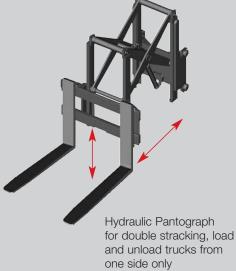
- with two additional outer forks – fix
- with two additional outer forks – foldable
- with two additional outer forks – hydraulically foldable

Hydraulic Pantograph - loss of load centre 200 mm

- with manual fork adjustment
- with hydraulic fork adjustment

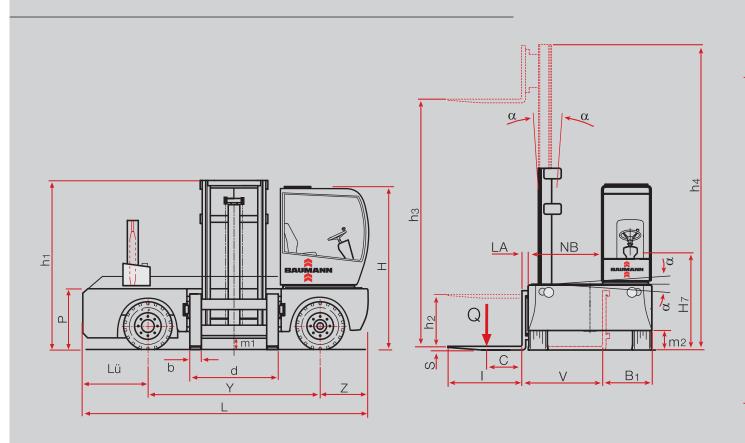
- Knife type forks
- Hydraulic telescopic forks
- Hydraulic load fastener
- · Additional attachments on request
- Platform covers made of steel or aluminum

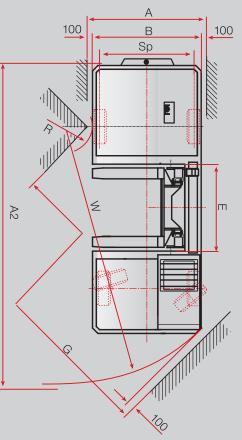




Baumann Sideloading lift trucks BHX 40 - 50

Dimensions





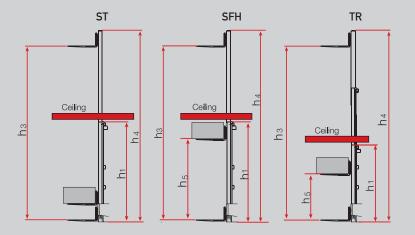
Туре									
Brand					Baumann			Baumann	
Typ	delection of society for the delection of the second of th		3	BHX 40/12	BHX 40/14	BHX 40/16	BHX 50/12	BHX 50/14	BHX 50/16
Lifting capacity	at standard lifting height	3 0	KG	009	4000	000	009	2000	C
Plattform width 1)		S R	au.	1200	1400	1600	1200	1400	1600
Drive 2	Electro, Diesel, LPG	2			Diesel or LPG			Diesel or LPG	
Type of steering	hand-, walk-, wtand-, seat-steering				Seat - steering			Seat - steering	
Type of tyres	solid / pneumatic tyres front / rear			mneud	pneumatic tyres front and rear	nd rear	mneud	pneumatic tyres front and rear	nd rear
Wheels (x=driving)	number front / rear				2 / 2x			2 / 2x	
Dimensions									
Fork length		-	mm	1200	1400	1600	1200	1400	1600
Fork width		Q	mm	150	0	180		180	
Fork thickness		S	mm		50			20	09
Mast traverse		>	mm	1300	1500	1700	1300	1500	1700
Load spacing		4	mm		100			100	
Platform tilt		α	0	4/4	3,5/3,5	3/3	4/4	3,5/3,5	3/3
Total length		٦	mm		4450			4450	
Total width		В	mm	2000	2200	2400	2030	2230	2430
Width of truck to front face of forks	face of forks	B 1	mm		800			800	
Well width	-	ш	mm		1500			1500	
Lift height ST	height (see table)	ь С	mm		4000			4000	
Overall height	mast lowered	h 1	mm		2700			2815	
Overall height	mast extended	h 4	mm		4780			4970	
Free lift		h 2	mm		0			0	
Cabin height	max. over grille	Ξ.	mm		2610			2610	
Height of seat		Ľ	mm		1550			1550	
Platform height		<u>-</u>	mm		850			850	
Fork spacing	outer edge - outer edge	ם מ	mm		300 - 1420			360 - 1420	
lurning radius	inner .	r :	mm		910			280	
lurning radius	outer	> <	E	4420	4540	4680	4230	4350	4480
Aisle width	Tor straight on travel	< (IIIIII	2200	2400	2000	4030	2430	4280
Aisle width	for 90° - Turning within aisle	2 4	- WW	5690	5810	5950	5500	5620	5750
Weights		31,							
Weight of truck			Ϋ́	7220	7380	7540	7820	7980	8140
Axle load	with lifting capacity front / rear		Kg	5260/5960	5340/6040	5420/6120	09/9/0909	6140/6840	6220/6920
Performance									
Stability	EN 1726-1, EN 1551	yes	yes / no		yes			yes	
Travel speed	without / with load	Ā	km/h		22 / 20			22 / 20	
Lifting speed	without / with load	Ш	m/s		0,40 / 0,35			0,35 / 0,30	
Lowering speed	without / with load	Ε	m/s		0,30 / 0,50			0,30 / 0,50	
Traverse speed	without / with load	=	m/s		0,30 / 0,30			0,30 / 0,30	
Gradeability	without / with load		%		22 / 13		20 / 12		20 / 11
Iractive power	max.	ŏ	daN		1750			1750	
Chassis									
Tyres 3)	front / rear				2/2			2/2	
Tyre size	front / rear				27 × 10 - 12"			27 × 10 - 12"	
Tyres outside diameter	_	mm		704			704		
Track	front / rear	Sp1/Sp2	mm	1690/1740	1890/1940	2090/2140	1690/1740	1890/1940	2090/2140
Wheel base		> :	mm		2620			2620	
Tail section	-	3	mm		1070			1070	
Ground clearance	below upright	E 8	E E		160			160	
Social broke	Certer Wheelbase	Z		4	+ooylovd oil roylov		2.00	tocytory / cilinost	
Service Drake	Iront / rear				- / nyaraulic, nyarostatic	allic bydraillic		nydraulic / nydrostatic	alic
S S S S S S S S S S S S S S S S S S S							2000		

			Standard	Option
Diesel engine N	Manufacturer / Type		VM D 754 E2 TE3	GM 3,0 LL 4
	Fuel		Diesel	LPG
	Power DIN 70020	kW / hp	51,5 / 70	50 / 67
0)	Speed	U / min	2600	3000
	Oylinder / displacement	- / cm³	4 / 2970	4 / 2966
Transmission			hydro	hydrostatic
Gearshift			infinitel <mark>y</mark>	infinitely variable
Battery	Voltage / Capacity	V/Ah	12 / 120	12 / 120

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Platform width 1800 mm, 2000 mm possible With LPG engine Pneumatic tyres standard, optional superelastic tyres

Masts BHX 40 - 50



Mast model BHX 40

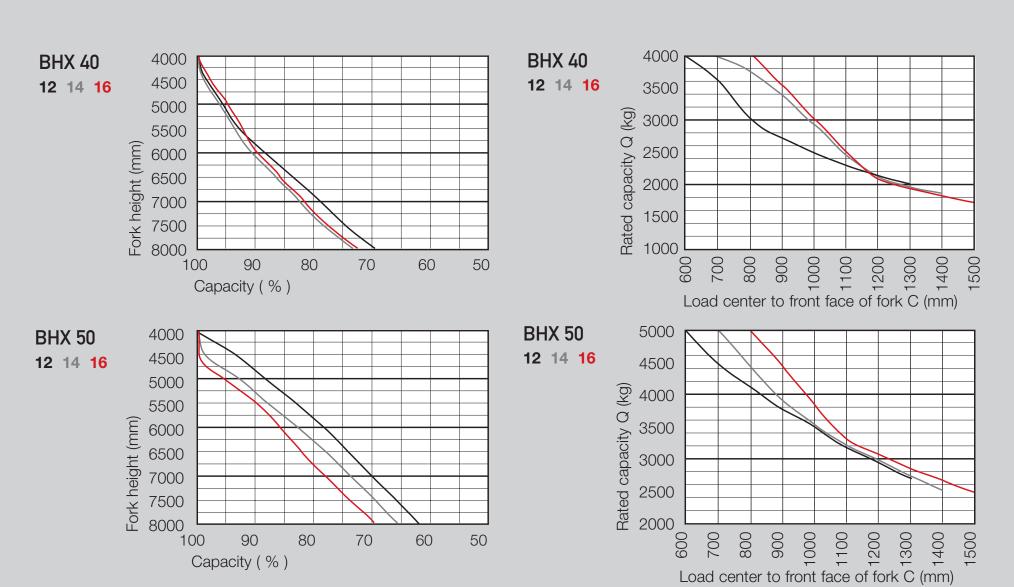
		Overa	ll heights	Freelift
	Lifting heights	Lowered	Extanded	
	h ₃	h ₁	h ₄	h ₅
	mm	mm	mm	mm
∉	4000	2700	4780	0
ST	4500	2950	5280	0
Duplex ST thout free	5000	3200	5780	0
Triplex TR Duplex SFH Duplex ST Special free lift without free lift	5500	3450	6280	0
	6000	3700	6780	0
	4000	2700	4780	1920
	4500	2950	5465	1985
	5000	3200	5965	2235
	5500	3450	6465	2485
	6000	3700	6965	2735
	4000	2080	4780	1300
	4500	2240	5280	1460
	5000	2410	5780	1630
	5500	2580	6280	1800
	6000	2740	6780	1960
	6500	2910	7280	2130
	7000	3080	7780	2300
	7500	3240	8280	2460
	8000	3410	8780	2630

Mast model BHX 50

		Overall heights		Freelift
	Lifting heights	Lowered	Extanded	
	hз	h ₁	h ₄	h ₅
	mm	mm	mm	mm
Ħ	4000	2815	4970	0
ST 8	4500	3065	5470	0
Duplex ST thout free	5000	3315	5970	0
Triplex TR Duplex SFH Duplex ST Special free lift without free lift	5500	3565	6470	0
	6000	3815	6970	0
	4000	2770	4970	1800
	4500	3020	5500	2020
	5000	3270	6000	2270
	5500	3520	6500	2520
	6000	3770	7000	2770
	4000	2160	4970	1190
	4500	2320	6570	1350
	5000	2490	5970	1520
	5500	2660	6470	1890
	6000	2820	6970	1850
	6500	2990	7470	2020
	7000	3160	7970	2190
	7500	3320	8470	2350
	8000	3490	8970	2520

Lifting capacity at high lifting heights

Load diagram









IC Fourway-sideloader

The Multilift simply does it all - it works as a conventional forklift, a sideloader and a multi-way forklift. In order to customize the Multilift for a special application Baumann offers a wide variety of attachments designed for a more efficient, safe and comfortable work.

Rough terrain truck

Handy, tough and excellent agility at high performance parameters - make the Rough terrain truck an ideal choice for all classical rough terrain applications but also for other industrial environments. Different options and special equipment optimize the Rough terrain truck for any sort of use.

Electric fourway sideloaders

Baumann fourway-sideloaders solve all material handling tasks. With four individual modal ranges and a full range of optional equipment the sideloader can fit to any application.

