



SHELVING

Ideal for warehouses, stockrooms and office environments



BITO

...or how do you store?



Winfried Schmuck
Managing Director

Shelving is as popular as ever!

Experts talking about trends and innovations in the intralogistics sector usually focus on fully or partially automated warehouses. However, investing in an automated solution is not always the key to improved efficiency. The broad product range typical of wholesale and retail businesses, small batch sizes in the manufacturing sector, short term contracts with logistics providers – all these developments clearly speak in favour of manually serviced warehouses. That's where shelving is the winner! The modular system is perfect for customising your shelving facility. Simply add extensions or fit the required accessories to meet changing needs. Take a look at how many shelving variations there are to suit your application!

> **This brochure will provide you with many useful ideas for your next project!**

About us – »Made in Germany«

BITO is a Germany based manufacturer with subsidiaries and distributors throughout the world. With a staff of around 800 and on a plant surface of more than 140 000 m² in Meisenheim and Lauterecken, we have specialised in storage and order picking systems, offering a customer-oriented and innovative product range for highest user demands. BITO is one of the few single source suppliers in the intralogistics sector. With one focus on direct sales, we ensure fast track product delivery to our customers. Products can be ordered from our print catalogues, through our online shop or by calling our sales teams. As a full service provider of storage and order picking solutions, our second focus is on providing our customers a concept-to-completion service for any project size.

Plant in
Lauterecken

Plant in
Meisenheim



BITO – more than 50 years of experience in project business

BITO

Customer focus & support are top priorities at BITO! We offer a full service package including on-site visits, fast quotes, precision in-house manufacturing, on-time assembly & start-up and a reliable after sales service.

Technical advice

Each project is accompanied from the start by an experienced local sales & project manager who keeps close contact with the assigned project manager at the BITO main office.

Project coordination

We think that reliable time management and competent support are key to the success of a project. Our customers can count on exact specification, true-to-size product manufacturing, an extensive quality assurance program and reliable assembly coordination – in short, we provide an all-inclusive project package!

After sales service

Operators of shelving and racking installations are legally obligated to have their facilities inspected at least once a year by a qualified person. BITO provides this inspection service. Our inspectors are trained and authorised to conduct all mandatory tests. They will get in the quotes for required spare parts and manage follow-up inspections.

For live storage installations and electronically regulated facilities, BITO recommend their customers to conclude a maintenance contract and have their storage and order picking installation regularly checked as to proper functioning and operational safety. Maintenance prevents disruptions and troublesome consequences. In case a semi-automatic system fails to perform properly despite all preventive measures, BITO has set up an emergency management plan to reduce idle times at your site to a minimum.



Customer-oriented and reliable project monitoring



»Shelving – the versatile solution for single tier and multi tier installations«



Quick and easy to assemble in just a few steps!

BITO

The modularity of BITO shelving allows multiple configurations that perfectly adapt to your premises. Assembly is simple and can be done without bolts in a minimum of time. A wide variety of cleverly designed accessories caters for any purpose in any industry.

On the following pages you will find shelving variations, configuration options and product applications.

Fast and easy
assembly without bolts



> **Customise your shelving!**

Product features

> **Starter bay**



> **Extension bay**



> **Shelf**



> **Planning sizes to calculate space requirement:**

Length of starter bay: nominal shelf length + 58 mm

Length of extension bay: nominal shelf length + 8 mm

Shelving depth starter and extension bay: nominal sizes + 24 mm

> **Nominal sizes:**

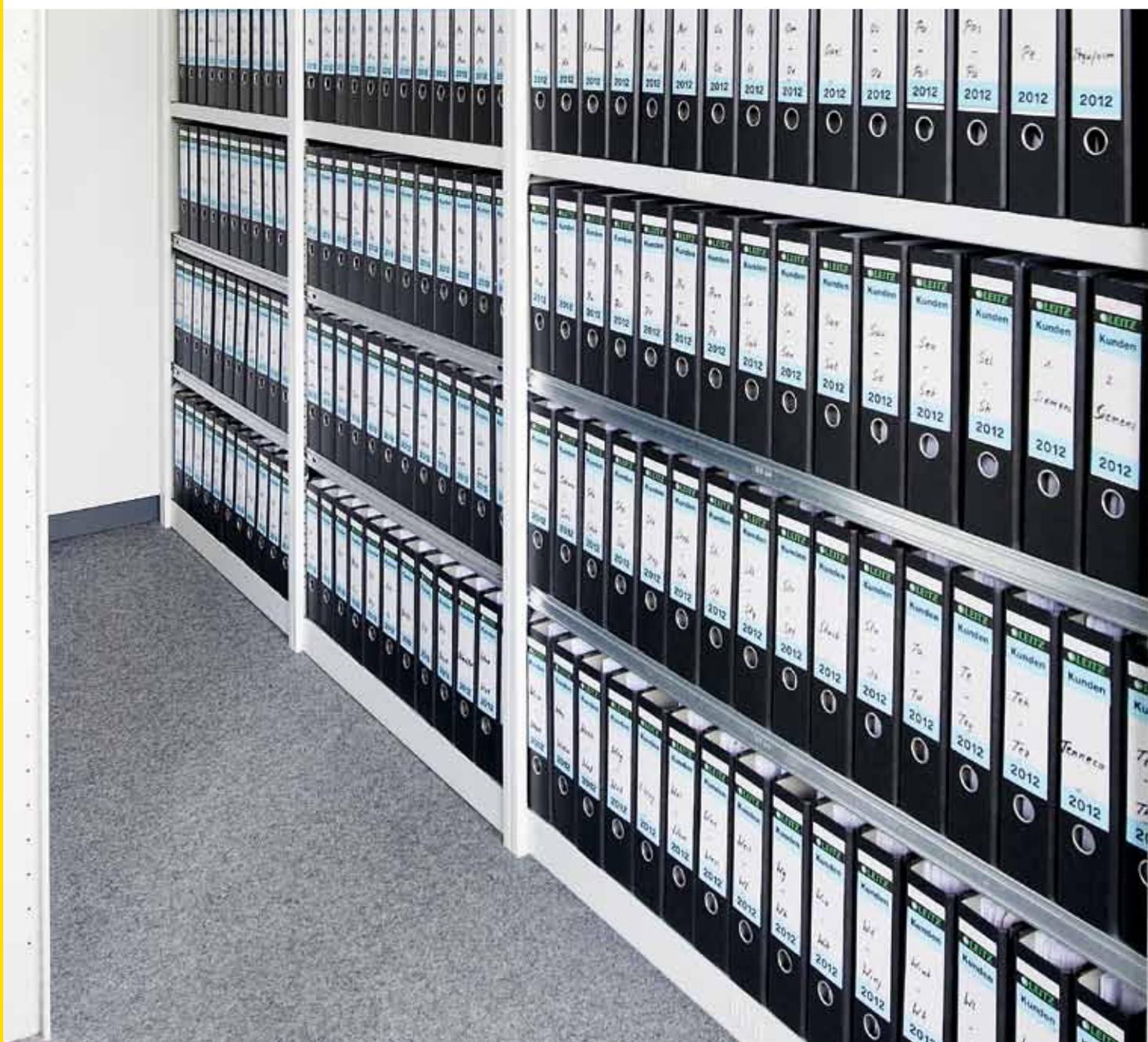
Shelf lengths: 750, 1000 and 1300 mm

Shelving depths: 324, 424, 524, 624 and 824 mm

Shelf depths: 300, 400, 500, 600 and 800 mm



»Not only good for stockrooms and archives – the clean design also looks great in offices!«



Office and archive shelving: keep your records easily accessible and save space!

BITO

Although paperless storage is on the increase, there are many record types that have to be kept as hard-copy for many years. Space-saving, yet easily accessible storage of documents is therefore essential since available storage capacities are usually limited. For this reason, BITO archive shelving comes in various height and length options to fit your storage space. Further options include shelving for single-sided or double-sided use as well as shelving with a galvanised finish or epoxy-coating in light grey, RAL 7035.

Your benefits

- > extensions possible whenever required
- > shelf levels can be adjusted in 25 mm increments
- > excellent rigidity
- > easy to assemble
- > shelf load in single-sided shelving 50 kg,
in double-sided shelving 100 kg
- > bay load in single-sided shelving 500 kg,
in double-sided shelving 800 kg

Office shelving

> epoxy-coated in light grey, RAL 7035



> single-sided use



> double-sided use

Office shelving single-sided use						Starter bay	Extension bay
Shelving height <i>mm</i>	Number of shelves	Shelving depth <i>mm</i>	Useful depth <i>mm</i>	Shelf length <i>mm</i>	File capacity	Ref.no.	Ref.no.
1850	5	324	300	750	45	10-33500	10-33508
		324	300	1000	60	10-33501	10-33509
2200	6	324	300	750	54	10-33502	10-33510
		324	300	1000	72	10-33503	10-33511
2500	7	324	300	750	63	10-33504	10-33512
		324	300	1000	84	10-33505	10-33513
3000	8	324	300	750	72	10-33506	10-33514
		324	300	1000	96	10-33507	10-33515

Office shelving double-sided use						Starter bay	Extension bay
Shelving height <i>mm</i>	Number of shelves	Shelving depth <i>mm</i>	Useful depth <i>mm</i>	Shelf length <i>mm</i>	File capacity	Ref.no.	Ref.no.
1850	5	624	600	750	90	10-33517	10-33525
		624	600	1000	120	10-33518	10-33526
2200	6	624	600	750	108	10-33519	10-33527
		624	600	1000	144	10-33520	10-33528
2500	7	624	600	750	126	10-33521	10-33529
		624	600	1000	168	10-33522	10-33530
3000	8	624	600	750	144	10-33523	10-33531
		624	600	1000	192	10-33524	10-33532

Accessories to suit office shelving single-sided and double-sided use				
Description		Suited for a shelf length of <i>mm</i>	Useful depth <i>mm</i>	Ref.no.
Additional shelves > light grey, RAL 7035 	shelf load capacity 50 kg, shelf with integral retaining lip at rear, shelf height 25 mm, including 4 shelf clips	750	300	10-33550
		1000	300	10-33551
	shelf load capacity 200 kg, shelf perforations on a 50 mm pitch to accept dividers, shelf height 40 mm, including 4 shelf clips	750	600	10-33552
		1000	600	10-33553
Shelf dividers 	epoxy-coated in light grey, RAL 7035, stand-alone use, can be positioned anywhere along the shelf length, suitable for office and archive shelving with 25 mm high shelves		300	10-33554
Centre rails 	galvanised, slot into shelf perforations, suitable for all variations of office and archive shelving	750	600	PMA6.75
		1000	600	PMA6

> galvanised



> single-sided use



> double-sided use

Archive shelving single-sided use						Starter bay	Extension bay
Shelving height <i>mm</i>	Number of shelves	Shelving depth <i>mm</i>	Useful depth <i>mm</i>	Shelf length <i>mm</i>	File capacity	Ref.no.	Ref.no.
1850	5	324	300	750	45	SAR1835.75G	SAR1835.75A
		324	300	1000	60	SAR1835G	SAR1835A
2200	6	324	300	750	54	SAR2236.75G	SAR2236.75A
		324	300	1000	72	SAR2236G	SAR2236A
2500	7	324	300	750	63	SAR2537.75G	SAR2537.75A
		324	300	1000	84	SAR2537G	SAR2537A
3000	8	324	300	750	72	SAR3038.75G	SAR3038.75A
		324	300	1000	96	SAR3038G	SAR3038A

Archive shelving double-sided use						Starter bay	Extension bay
Shelving height <i>mm</i>	Number of shelves	Shelving depth <i>mm</i>	Useful depth <i>mm</i>	Shelf length <i>mm</i>	File capacity	Ref.no.	Ref.no.
1850	5	624	600	750	90	FAR1865.75G	FAR1865.75A
		624	600	1000	120	FAR1865G	FAR1865A
2200	6	624	600	750	108	FAR2266.75G	FAR2266.75A
		624	600	1000	144	FAR2266G	FAR2266A
2500	7	624	600	750	126	FAR2567.75G	FAR2567.75A
		624	600	1000	168	FAR2567G	FAR2567A
3000	8	624	600	750	144	FAR3068.75G	FAR3068.75A
		624	600	1000	192	FAR3068G	FAR3068A

Accessories to suit archive shelving single-sided and double-sided use				
Description		Suited for a shelf length of <i>mm</i>	Useful depth <i>mm</i>	Ref.no.
Additional shelves > galvanised 	shelf load capacity 50 kg , shelf with integral retaining lip at rear, shelf height 25 mm, including 4 shelf clips	750	300	SB375.4
		1000	300	SB131.4
	shelf load capacity 200 kg , shelf perforations on a 50 mm pitch to accept dividers, shelf height 40 mm, including 4 shelf clips shelf load capacity 100 kg , shelf perforations on a 50 mm pitch to accept dividers, shelf height 40 mm, including 4 shelf clips	750	600	FB6752.4
		1000	600	FB61.4
Shelf dividers 	galvanised, stand-alone use, can be positioned anywhere along the shelf length, suitable for office and archive shelving with 25 mm high shelves		300	PF3
Centre rails 	galvanised, slot into shelf perforations, suitable for all variations of office and archive shelving	750	600	PMA6.75
		1000	600	PMA6



»Efficient and flexible – the shelving solution that adapts to your loads!«



Shelving type EL and L: perfect for lightweight and standard loads

BITO

Looking at the actual weight of shelved goods often shows that many shelving installations are "oversized" as to their load capacity. BITO shelving type EL is the ideal solution. Designed for light-weight applications, shelves carry up to 100 kg without the need for beams. Should your storage requirements change, it is no problem to upgrade shelving installations type EL to type L. Simply retrofit beams to increase bay load capacity from 800 kg to 1300 kg!

Your benefits

- > fast and easy assembly without bolts
- > extensions possible whenever required
- > shelf levels can be adjusted in 25 mm increments
- > shelves are perforated on the long sides to slot in dividers
- > all components are galvanised



Shelving type EL and L



Frames with connector plates

- supplied with 2 uprights, 3 to 5 upright connectors, 2 base plates
- supplied unassembled
- all parts galvanised, epoxy-coating in RAL colours upon request

Height	1850 mm	2000 mm	2200 mm	2500 mm	3000 mm
Shelving depth <i>mm</i>	Ref.no.	Ref.no.	Ref.no.	Ref.no.	Ref.no.
324	SNS1830	SNS2030	SNS2230	SNS2530	SNS3030
424	SNS1840	SNS2040	SNS2240	SNS2540	SNS3040
524	SNS1850	SNS2050	SNS2250	SNS2550	SNS3050
624	SNS1860	SNS2060	SNS2260	SNS2560	SNS3060
824	SNS1880	SNS2080	SNS2280	SNS2580	SNS3080

Shelves with perforations in 50 mm increments to slot in dividers, supplied with 4 shelf clips

Load capacity 100 kg			Shelf length 1000 mm	Shelf length 1300 mm
Colour	Shelf height <i>mm</i>	Useful depth <i>mm</i>	Ref.no.	Ref.no.
galvanised	40	300	FB31.4	FB313.4
		400	FB41.4	FB413.4
		500	FB51.4	FB513.4
		600	FB61.4	FB613.4
RAL 7035 Light grey	40	600	10-33553	–



Cross bracing

- consisting of 2 struts and 2 tension jacks
- shelving runs with stiffening beams require 1 cross bracing kit for every 5 bays, shelving runs without stiffening beams require 1 cross bracing kit for every 2 bays
- galvanised

For a shelf length of <i>mm</i>	Ref.no.
750	SDV75
1000, 1300	SDV



Shelf clips

- 4 shelf clips required per shelf



Description	Pcs/pack	Ref.no.
Shelf clips	4	SFT4

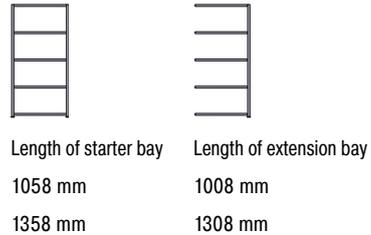
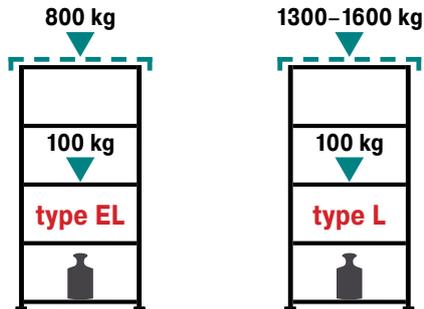
Stiffening beams

- hook into the slotting pattern of the uprights, safety pins provide protection against unintentional lifting
- supplied with safety pins
- all parts galvanised, epoxy-coating in RAL colours upon request

For a shelf length of <i>mm</i>	Height	Ref.no.
750	40	SLT075
1000	40	SLT1
1300	40	SLT1300
1000, for ultra-flat shelves	20	53-33599



Shelving type EL and L



Shelving type EL				Shelf length 1000 mm		Shelf length 1300 mm	
				Starter bay	Extension bay	Starter bay	Extension bay
Shelving height	Number of shelves	Shelving depth	Useful depth	Ref.no.	Ref.no.	Ref.no.	Ref.no.
mm		mm	mm				
2000	5	324	300	FEL2031G	FEL2031A	FEL20313G	FEL20313A
		424	400	FEL2041G	FEL2041A	FEL20413G	FEL20413A
		524	500	FEL2051G	FEL2051A	FEL20513G	FEL20513A
		624	600	FEL2061G	FEL2061A	FEL20613G	FEL20613A
2500	6	324	300	FEL2531G	FEL2531A	FEL25313G	FEL25313A
		424	400	FEL2541G	FEL2541A	FEL25413G	FEL25413A
		524	500	FEL2551G	FEL2551A	FEL25513G	FEL25513A
		624	600	FEL2561G	FEL2561A	FEL25613G	FEL25613A

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Shelving type L					Shelf length 1000 mm		Shelf length 1300 mm	
					Starter bay	Extension bay	Starter bay	Extension bay
Shelving height	Bay load	Number of shelves	Shelving depth	Useful depth	Ref.no.	Ref.no.	Ref.no.	Ref.no.
mm	kg		mm	mm				
2000	1300	5	324	300	FLT2031G	FLT2031A	FLT20313G	FLT20313A
			424	400	FLT2041G	FLT2041A	FLT20413G	FLT20413A
			524	500	FLT2051G	FLT2051A	FLT20513G	FLT20513A
			624	600	FLT2061G	FLT2061A	FLT20613G	FLT20613A
2500	1430	6	324	300	FLT2531G	FLT2531A	FLT25313G	FLT25313A
			424	400	FLT2541G	FLT2541A	FLT25413G	FLT25413A
			524	500	FLT2551G	FLT2551A	FLT25513G	FLT25513A
			624	600	FLT2561G	FLT2561A	FLT25613G	FLT25613A
3000	1600	7	324	300	FLT3031G	FLT3031A	FLT30313G	FLT30313A
			424	400	FLT3041G	FLT3041A	FLT30413G	FLT30413A
			524	500	FLT3051G	FLT3051A	FLT30513G	FLT30513A
			624	600	FLT3061G	FLT3061A	FLT30613G	FLT30613A



»This is your shelving option for industrial applications!«



Shelving type M and S: perfect for medium to heavy loads of up to 300 kg per shelf!

BITO

Shelving is expected to meet most diverse needs: large volume and heavy goods will need a larger level spacing than many small storage units which require more shelves on a small space. Headroom in high buildings is best used by multi-tier shelving. Lower construction heights allow handling without access equipment. Whatever your requirements are – our medium duty and heavy duty shelving will suit your needs.

Our range of functional accessories (see page 24 and 25) addresses almost any requirement.

Your benefits

- > fast and easy assembly without bolts
- > extensions possible whenever required
- > shelf levels can be adjusted in 25 mm increments
- > shelves are perforated on the long sides to slot in dividers
- > all components are galvanised



Shelving type M and S



Frames with connector plates

- supplied with 2 uprights, 3 to 5 upright connectors, 2 base plates
- supplied unassembled
- all parts galvanised, epoxy-coating in RAL colours upon request

Height	1850 mm	2000 mm	2200 mm	2500 mm	3000 mm
Shelving depth <i>mm</i>	Ref. no.				
324	SNS1830	SNS2030	SNS2230	SNS2530	SNS3030
424	SNS1840	SNS2040	SNS2240	SNS2540	SNS3040
524	SNS1850	SNS2050	SNS2250	SNS2550	SNS3050
624	SNS1860	SNS2060	SNS2260	SNS2560	SNS3060
824	SNS1880	SNS2080	SNS2280	SNS2580	SNS3080

Shelves with perforations in 50 mm increments to slot in dividers, supplied with 4 shelf clips



Useful depth <i>mm</i>	Load capacity 200 kg			load capacity 300 kg
	Shelf length 750 mm	Shelf length 1000 mm	Shelf length 1300 mm	Shelf length 1000 mm
Ref. no.	Ref. no.	Ref. no.	Ref. no.	Ref. no.
300	FB3752.4	FB32.4	FB323.4	–
400	FB4752.4	FB42.4	FB423.4	FB43.4
500	FB5752.4	FB52.4	FB523.4	FB53.4
600	FB6752.4	FB62.4	FB623.4	FB63.4
800	FB8752.4	FB82.4	FB823.4	–

Cross bracing, galvanised

- consisting of 2 struts and 2 tension jacks
- shelving runs with stiffening beams require 1 cross bracing kit for every 5 bays, shelving runs without stiffening beams require 1 cross bracing kit for every 2 bays
- galvanised

For a shelf length of <i>mm</i>	Ref. no.
750	SDV75
1000, 1300	SDV

Shelf clips



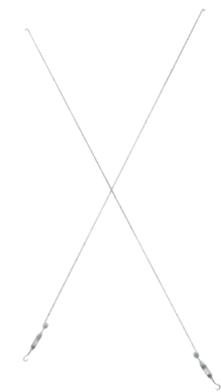
- 4 shelf clips required per shelf

Description	Pcs/pack	Ref. no.
Shelf clips	4	SFT4

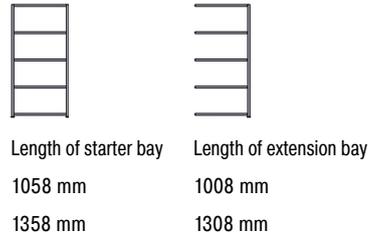
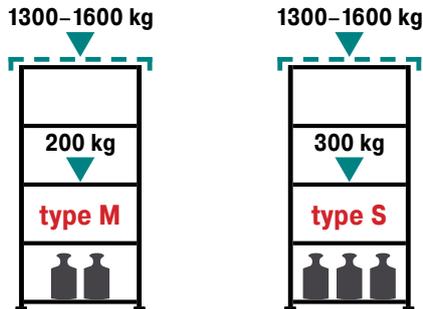
Stiffening beams

- hook into upright slotting pattern, safety pins provide protection against unintentional lifting
- supplied with safety pins
- all parts galvanised, epoxy-coating in RAL colours upon request

For a shelf length of <i>mm</i>	Height	Ref. no.
750	40	SLT075
1000	40	SLT1
1300	40	SLT1300
1000, for ultra-flat shelves	20	53-33599



Shelving type M and S



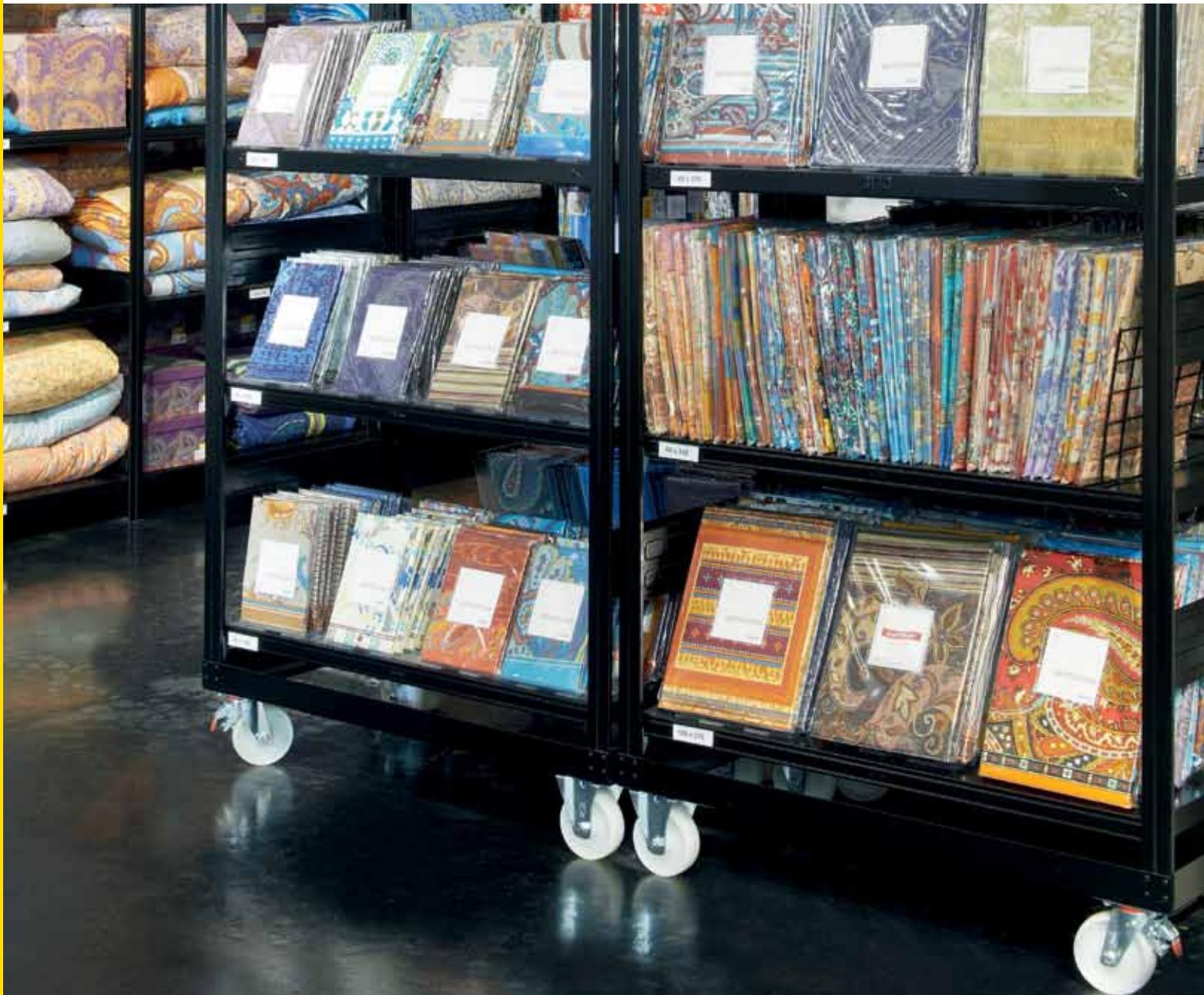
Shelving type M					Shelf length 1000 mm		Shelf length 1300 mm	
					Starter bay	Extension bay	Starter bay	Extension bay
Shelving height	Bay load	Number of shelves	Shelving depth	Useful depth	Ref.no.	Ref.no.	Ref.no.	Ref.no.
mm	kg		mm	mm				
2000	1300	5	324	300	FMT2032G	FMT2032A	FMT20323G	FMT20323A
			424	400	FMT2042G	FMT2042A	FMT20423G	FMT20423A
			524	500	FMT2052G	FMT2052A	FMT20523G	FMT20523A
			624	600	FMT2062G	FMT2062A	FMT20623G	FMT20623A
			824	800	FMT2082G	FMT2082A	FMT20823G	FMT20823A
2500	1430	6	324	300	FMT2532G	FMT2532A	FMT25323G	FMT25323A
			424	400	FMT2542G	FMT2542A	FMT25423G	FMT25423A
			524	500	FMT2552G	FMT2552A	FMT25523G	FMT25523A
			624	600	FMT2562G	FMT2562A	FMT25623G	FMT25623A
			824	800	FMT2582G	FMT2582A	FMT25823G	FMT25823A
3000	1600	7	324	300	FMT3032G	FMT3032A	FMT30323G	FMT30323A
			424	400	FMT3042G	FMT3042A	FMT30423G	FMT30423A
			524	500	FMT3052G	FMT3052A	FMT30523G	FMT30523A
			624	600	FMT3062G	FMT3062A	FMT30623G	FMT30623A
			824	800	FMT3082G	FMT3082A	FMT30823G	FMT30823A

Shelving type S					Shelf length 1000 mm	
					Starter bay	Extension bay
Shelving height	Bay load	Number of shelves	Shelving depth	Useful depth	Ref.no.	Ref.no.
mm	kg		mm	mm		
2000	1300	5	424	400	FST2043G	FST2043A
			524	500	FST2053G	FST2053A
			624	600	FST2063G	FST2063A
2500	1430	6	424	400	FST2543G	FST2543A
			524	500	FST2553G	FST2553A
			624	600	FST2563G	FST2563A
3000	1600	7	424	400	FST3043G	FST3043A
			524	500	FST3053G	FST3053A
			624	600	FST3063G	FST3063A

BITO



»Colours will give your workplace the productive edge you have been looking for!«



Colour up your work environment!

BITO

Choosing the right colour scheme for your bins and containers or even your entire warehouse will not only find your employees more comfortable and efficient. Colours help to make a difference and to coordinate furnishings and equipment with corporate colours. Guided by these considerations, our storage and order picking equipment is available in a range of standard colours, but can also be manufactured in any requested colour for a brighter look, immediate product identification, easy picking, hence increased productivity.

Your benefits

- > improved product presentation
- > visual separation of work areas or product lines
- > colours help to organise quality control, for example to define storage areas for goods on hold
- > colours create a positive work environment





»Glass shelves are not only good for displaying art!«



The right shelf for every application

Shelving in modern warehouses often has to meet special requirements. Choosing the right shelf type or a combination of various types is essential. Not only do they accommodate your storage goods, they also have to adapt to building constraints and to allow rearranging to reflect changes in handling procedures.

Glass shelves

Hygiene and immediate access to all products on stock are a crucial issue in the production and distribution of pharmaceuticals. Glass shelves and transparent shelf dividers help to meet these requirements.

Ultra-flat shelves

Continuous and above all space saving supply of small parts and components is fundamental to modern assembly processes. Our ultra-flat shelves provide up to 25% more storage capacity for your supplies!

Sprinkler shelves GRID

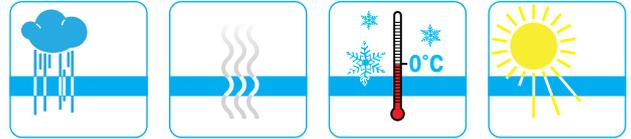
Warehouses fitted with a fire sprinkler system as well as cold stores are required to use shelves that allow water and air to pass through. BITO sprinkler shelves GRID meet this requirement and on top of this help to create a brighter work environment as light also filters through.



Perforated shelves GRID

Perforated shelves GRID: for added fire protection

- > allow water penetration – essential for environments with sprinklers/ for compliance with fire prevention regulations
- > allow airflow to assist optimum ventilation in cold storage environments
- > allow light penetration for a brighter work environment
- > rectangular perforations
- > compatible with BITO standard boltless shelving of all types
- > with shelf perforations on a 50 mm pitch to slot in dividers
- > load capacity 100 kg
- > shelf height 40 mm
- > supplied with 4 shelf clips



Perforated shelves GRID permeability > 50%

in compliance with safety standard VdS CEA4001 which stipulates that water penetration of shelves must be at least 50%.

colour	load capacity <i>kg</i>	for a shelf length of <i>mm</i>	for a useful depth of <i>mm</i>	Ref. no.
galvanised	100	1000	400	10-37914
			500	10-37915
			600	10-37916
			800	10-37917
		1300	400	10-37919
			500	10-37920
			600	10-37921
			800	10-37922

Perforated shelves GRID permeability 44-50%

The shelves listed below have a smaller surface with a water permeability coefficient of up to 49%.

colour	load capacity <i>kg</i>	for a shelf length of <i>mm</i>	for a useful depth of <i>mm</i>	Ref. no.
galvanised	100	750	300	10-37908
			400	10-37909
			500	10-37910
			600	10-37911
			800	10-37912
		1000	300	10-37913
			1300	300

Shelving with extra large shelves

Shelving with extra large shelves – extra large steel shelves and chipboard shelves

Great for goods which need some more space!

- > Load per level: 350 kg
- > Bay load capacity: max. 1600 kg
- > excellent price-performance ratio
- > easy assembly without bolts
- > stepped beams are height adjustable on a 25 mm pitch
- > steel panels sit flush with the upper beam edge
- > all shelving components galvanised
- > available in flame red, gentian blue, light grey

RAL 3000 RAL 5010 RAL 7035



Shelving with extra large shelves – extra large steel shelves				Bay width 1500 mm		Bay width 2000 mm	
Shelving height mm	Number of levels	Shelving depth mm	Usable depth mm	Starter bay	Extension bay	Starter bay	Extension bay
				Ref. no.	Ref. no.	Ref. no.	Ref. no.
2000	3	524	500	GFRS20.15G	GFRS20.15A	GFRS20.25G	GFRS20.25A
		624	600	GFRS20.16G	GFRS20.16A	GFRS20.26G	GFRS20.26A
		824	800	GFRS20.18G	GFRS20.18A	GFRS20.28G	GFRS20.28A
2500	4	524	500	GFRS25.15G	GFRS25.15A	GFRS25.25G	GFRS25.25A
		624	600	GFRS25.16G	GFRS25.16A	GFRS25.26G	GFRS25.26A
		824	800	GFRS25.18G	GFRS25.18A	GFRS25.28G	GFRS25.28A



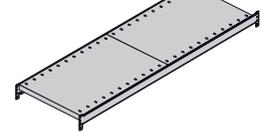
Length of starter bay
1562 mm
2066 mm

Extension bay length
1512 mm
2016 mm

BITO

Pos.	Description		for a bay width of	for a useful depth of	Ref. no.
			mm	mm	
A	Additional shelf level	for shelving with extra large steel shelves, supplied with 2 galvanised beams with adapters and 2 steel panels	1500	500	GFF15.50S
				600	GFF15.60S
				800	GFF15.80S
			2000	500	GFF20.50S
				600	GFF20.60S
				800	GFF20.80S

Additional shelf levels



Shelving with extra large shelves – chipboard shelves				Bay width 1500 mm		Bay width 2000 mm	
Shelving height mm	Number of levels	Shelving depth mm	Usable depth mm	Starter bay	Extension bay	Starter bay	Extension bay
				Ref. no.	Ref. no.	Ref. no.	Ref. no.
2000	3	524	500	GFR20.15G	GFR20.15A	GFR20.25G	GFR20.25A
		624	600	GFR20.16G	GFR20.16A	GFR20.26G	GFR20.26A
		824	800	GFR20.18G	GFR20.18A	GFR20.28G	GFR20.28A
2500	4	524	500	GFR25.15G	GFR25.15A	GFR25.25G	GFR25.25A
		624	600	GFR25.16G	GFR25.16A	GFR25.26G	GFR25.26A
		824	800	GFR25.18G	GFR25.18A	GFR25.28G	GFR25.28A

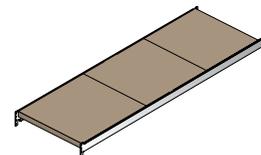


Length of starter bay
1562 mm
2066 mm

Extension bay length
1512 mm
2016 mm

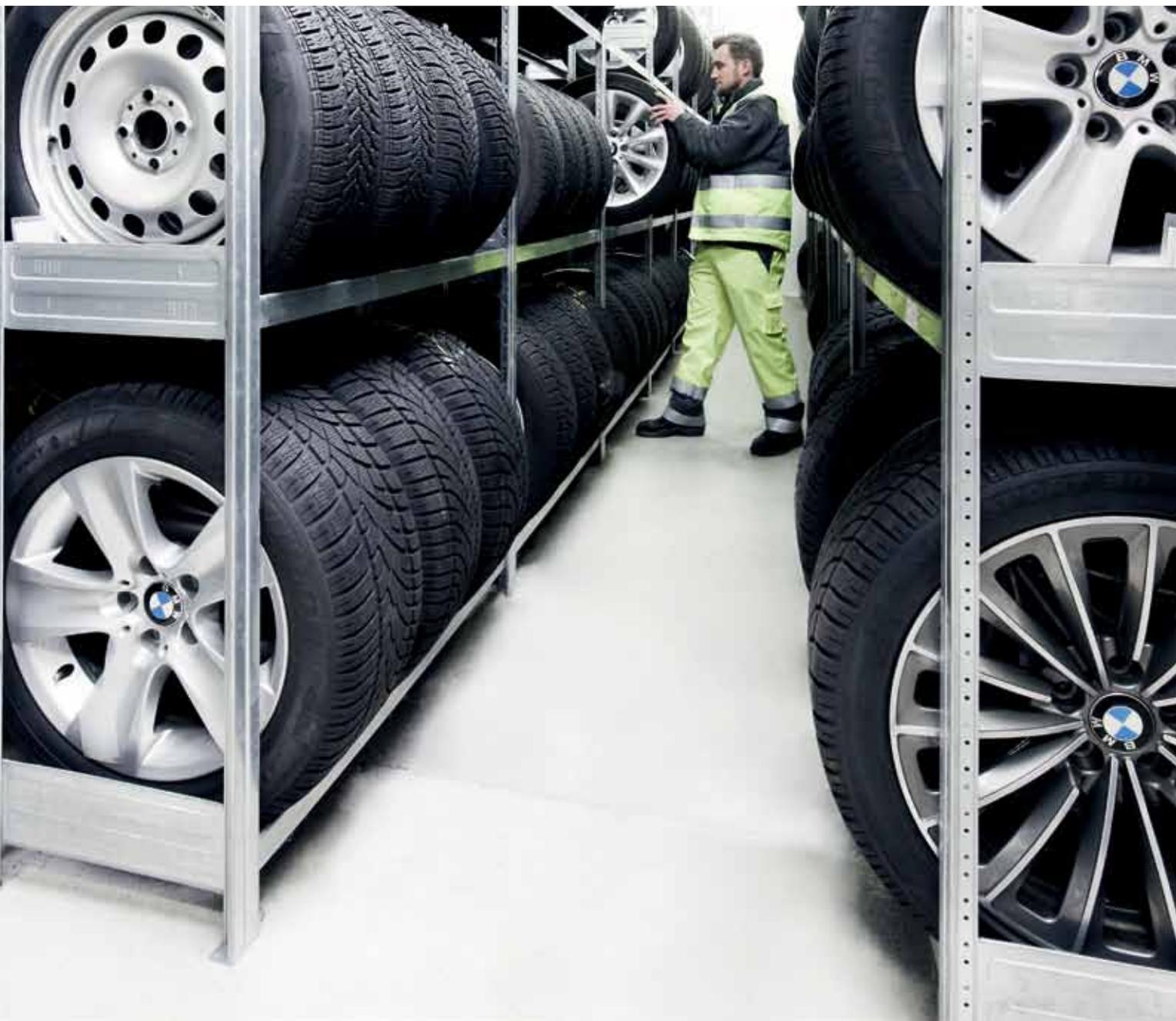
Pos.	Description		for a bay width of	for a useful depth of	Ref. no.
			mm	mm	
A	Additional shelf level	for shelving with extra large chipboard shelves, supplied with 2 galvanised beams with support bars and, depending on the bay width, 3 or 4 chipboard panels	1500	500	GFF15.50
				600	GFF15.60
				800	GFF15.80
			2000	500	GFF20.50
				600	GFF20.60
				800	GFF20.80

Additional shelf levels





»Maintain the appearance and performance of your tyres!«



Proper and space-saving tyre storage

BITO tyre shelving comes in various dimensions and load capacities to ensure you can choose the shelving layout that suits you.

Your benefits

- > max. load per level 250 kg
- > max. bay load up to 800 kg
- > suitable for tyre diameters from 578 to 624 mm
- > safe storage, convenient access



Tyre shelving, galvanised				Starter bay	Extension bay
Load per level kg	Shelf length mm	Shelving height mm	Number of levels	Ref.no.	Ref.no.
150	1300	1850	3	SRR18.13G	SRR18.13A
		2500	4	SRR25.13G	SRR25.13A
		3000	5	SRR30.13G	SRR30.13A
	1500	1850	3	SRR18.15G	SRR18.15A
		2500	4	SRR25.15G	SRR25.15A
		3000	5	SRR30.15G	SRR30.15A
250	1000	1850	3	SRR18.3G	SRR18.3A
		2500	4	SRR25.4G	SRR25.4A
		3000	5	SRR30.5G	SRR30.5A

Accessories to suit tyre shelving

Description		Shelf length mm	Useful depth mm	Ref.no.
Additional shelves 	shelf load capacity 100 kg, shelf perforations on a 50 mm pitch to accept dividers, shelf height 40 mm, including 4 shelf clips	1000	400	FB41.4
		1300	400	FB413.4
Tyre beams 	space-saving storage of tyres and rims, supplied with safety pins, galvanised	1000	400	STR10.2
		1300	400	STR13.2
		1500	400	STR15.2



»Unbeatable: BITO shelving and BITO bins are a perfect match!«



The optimum solution for supplying small parts in any storage environment

BITO

Whether you need to supply small parts in production and assembly areas, the goods-out department or in your warehouse, you can rely on BITO to provide the optimum solution for your application.

Your benefits: As BITO is one of the few manufacturers of shelving & racking as well as bins & containers, we are able to offer both product groups perfectly coordinated.

Your options:

- > shelving units can be supplied as static or as mobile version
- > several bin series and sizes will fit
- > useful as stand-alone solution or integration into a Kanban solution
- > shelves can be adjusted in horizontal or inclined position



The BITO Kanban solution is perfect for compact storage and ergonomic picking of C-items.

A wide variety of accessories gives room to your ideas!



- | | |
|---|---|
| 1 Double door | 10 Tray shelf |
| 2 Garment rail | 11 Divider bar for long goods |
| 3 Wire-mesh back cladding | 12 Drawer blocks with 3 or with 7 shelves |
| 4 Spigots for louvered panels | 13 Wire-mesh divider |
| 5 Louvered panels to fit to shelving rear | 14 Wire basket |
| 6 Single drawer | 15 Solid shelf divider |
| 7 Wire divider | 16 Wire-mesh side cladding |
| 8 Shelf divider, can be positioned
anywhere along the shelf length | 17 Bin shelf for loose goods |
| 9 Wire shelf | 18 Louvered panels to fit to shelving sides |



BITO

BITO shelving is an established brand that is used in almost every industrial sector. We supply high quality shelving that is easy to assemble and comes with a comprehensive range of useful accessories to suit your application. You have to cope with changing requirements? No problem – BITO shelving can be retro-fitted at any time!

> BITO shelving can be retro-fitted and reconfigured as needed!



»Make full use of the available headroom in your warehouse!«



Single-tier and multi-tier shelving

BITO

Shelving is mostly used for storing and picking unpalletised goods, small parts from bins, individual storage units or loose products. A broad range of modular accessories allows to customise your shelving to your needs and to stay organized.

With multi-tier shelving, you will "multiply" floor surface by making best use of the available warehouse height. Moreover, compact storage speeds up order processing.

Stairs and/or elevators link each walkway for safe and fast access to the various tiers.





»Mezzanines turn empty overhead space into productive work areas!«



BITO Multi-tier shelving and mezzanines

BITO

Make the most of unused headroom with free standing or shelving supported steel structures and take productivity to new levels!

System benefits

- > optimum space utilisation
- > perfect integration into existing shelving and racking facilities
- > various steel profile strengths cater for your load requirements
- > short construction time
- > auditable structural analysis in line with your local regulations can be supplied upon request

Added benefits

- > platform and walkway decking to your choice
- > pallet transfer positions
- > stairways
- > side and back cladding for your shelving
- > many accessories to enhance performance





»Effective shelving and racking installations: Save space and time!«



Three-tier installation: reliable product supply

Case study: RICHTER + FRENZEL

Company

The family owned company Richter + Frenzel is one of the market leading wholesalers of sanitary & plumbing installations and services in Germany. Quality awareness and competent advice have been key to business success. The wide product range includes sanitary, heating and ventilation installations for private and trade customers.

Requirements

- > 23000 SKUs had to be accommodated as well as other products. Depending on market requirements: option of adding a fourth tier.
- > The items, mainly smaller size products as well as connecting and mounting parts, were to be stocked in a shelving facility, either directly on the shelf or in BITO storage bins with pick opening.

Solutions

- > The three-tier shelving installation with integrated bin conveyors (photo on left side) provides 27000 storage positions – sufficient capacity for the entire small parts range of Richter + Frenzel.
- > Each tier (photo below) has its own picking staff to reduce walking and improve pick times.

Implementation

- > With the central warehouse in the Rhein-Main-Neckar area reaching capacity limits and with continued business growth after an acquisition, stock-keeping had to be distributed on 2 sites. In order to avoid double stock-keeping, the company decided to build a new warehouse.

Benefits

- **lean, no-compromise solution**
- **optimum configuration of storage and conveyor facilities ensure maximum product availability**
- **continuous supply of products, even in peak times**

BITO



Single-tier and multi-tier shelving

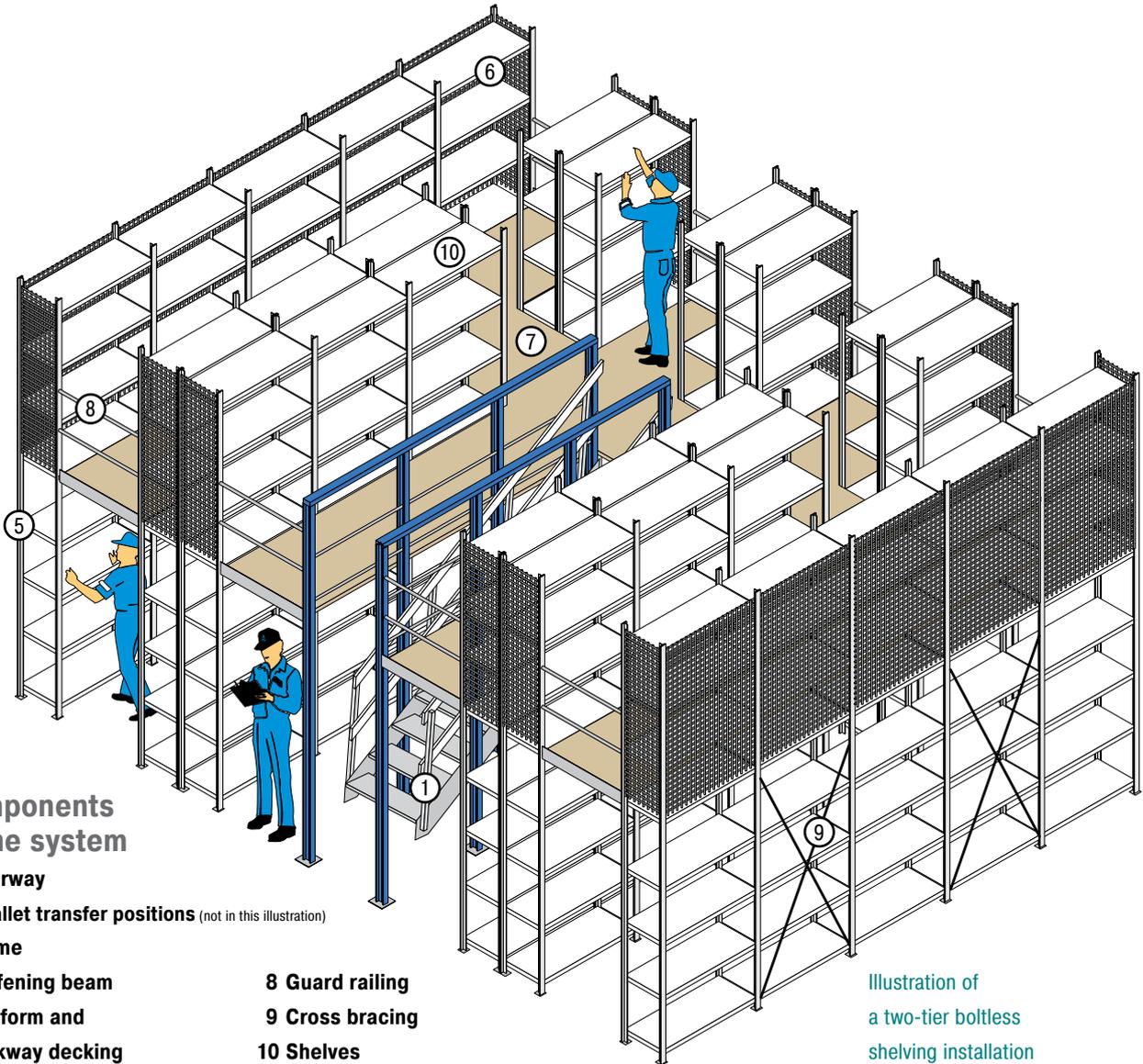
> Maximum space utilisation with multi-tier storage

Good use of the available warehouse space with respect to floor surface and building height is crucial for the efficiency of a storage facility. Multi-tier shelving – whether used as stand-alone solution or as part of a facility combining several storage systems – helps to increase the degree of capacity utilisation as the initially available

floor space doubles or triples.

A mezzanine floor is a very easy and low cost way to create extra space since the components of the shelving structure serve as supporting elements for overhead constructions.

Efficiency can further be increased by implementing appropriate warehouse management procedures and by integrating suitable conveying equipment such as continuous conveyors or hoists.



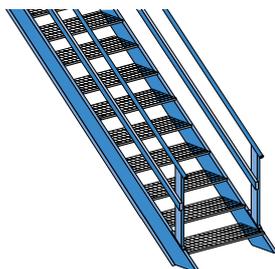
Components of the system

- 1 Stairway
- 2-4 Pallet transfer positions (not in this illustration)
- 5 Frame
- 6 Stiffening beam
- 7 Platform and walkway decking
- 8 Guard railing
- 9 Cross bracing
- 10 Shelves

Illustration of a two-tier boltless shelving installation

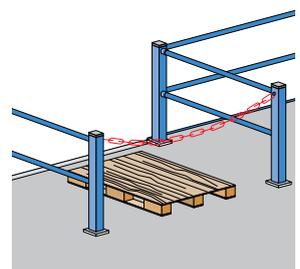
1 Stairways

Various configurations to choose from. Treads can be supplied with mesh decking, chequer plate or wood decking. Stairway width 800 or 1000 mm. Other widths upon request.



2 Pallet transfer position with chain barrier

Set-back pallet transfer position fitted with a plastic chain which can be unhooked as required.



> Use existing space and stay flexible

Another way to maximize the use of vertical space is to install BITO mezzanines. Mezzanine structures can be single-level or multi-level. They are constructed with hot rolled or cold rolled steel profiles to support the required load capacity and can be designed to adapt to any building constraint.

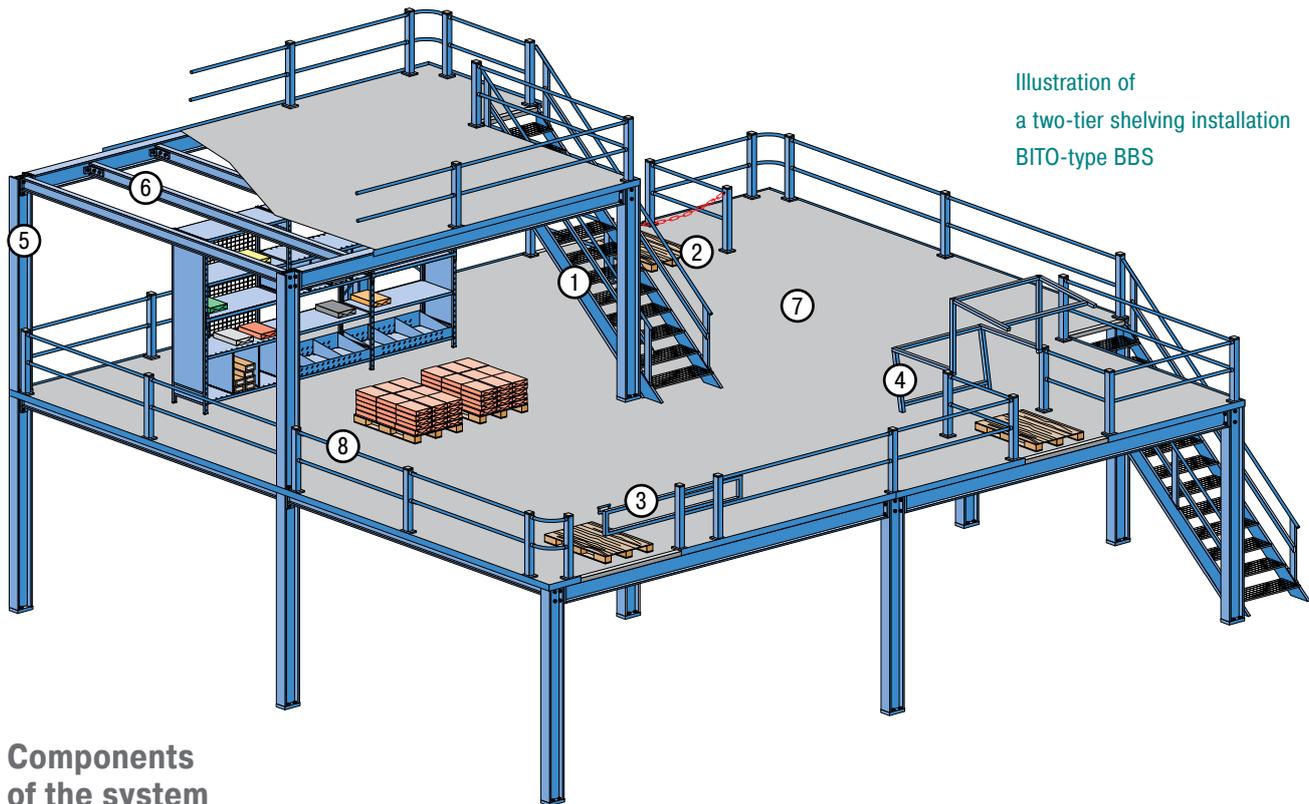


Illustration of
a two-tier shelving installation
BITO-type BBS

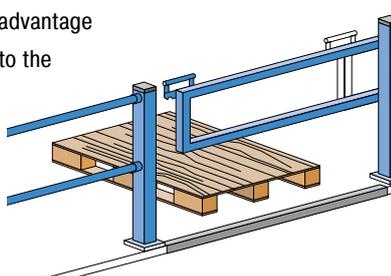
BITO

Components of the system

- | | | | |
|--|---|--|--|
| <p>1 Stairway</p> <p>2 Pallet transfer position
with chain barrier</p> <p>3 Pallet transfer position
with sliding gate</p> <p>4 Pallet transfer position
with swing gate</p> | <p>5 Columns
are manufactured from solid steel profiles in dimensions to suit intended load requirements</p> <p>6 Joists
are manufactured from solid or slotted steel profiles in</p> | <p>dimensions to suit intended load requirements</p> <p>7 Platform and walkway decking
various decking options available such as:</p> <ul style="list-style-type: none"> • chipboard decking V20 E1 • galvanised mesh decks | <ul style="list-style-type: none"> • chequer plate or teardrop plate <p>8 Guard railing
consisting of kickplate, hand and knee railing</p> |
|--|---|--|--|

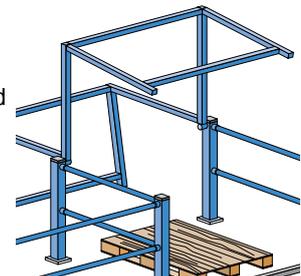
3 Pallet transfer position with sliding gate

Sliding gates have the advantage that they open parallel to the guard railing so that there is no loss of mezzanine floor space.



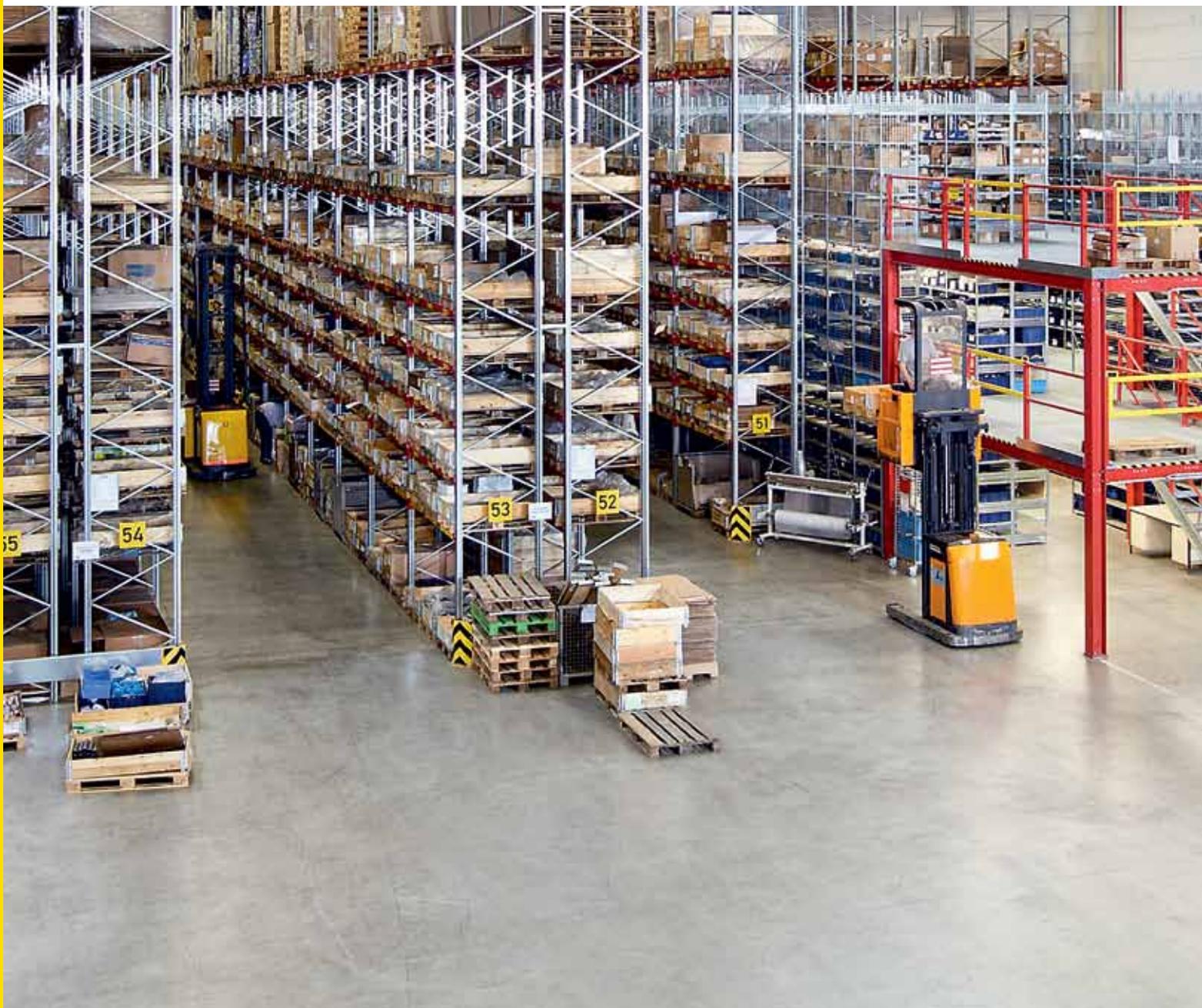
4 Pallet transfer position with swing gate

Provides optimum operator protection as the gate is always closed, either in front of or behind the pallet transfer position.





»Your single source product and service supplier: from bins to high bay racking – from planning to installation start-up.«



BITO invites you to the world of storage and handling

BITO shelving & racking

Our shelving & racking range includes boltless and bolted shelving, shelving with extra large shelves, wide span and heavy duty shelving, pallet racking, cantilever racking, mobile shelving and racking, multi-tier facilities, carton and pallet live storage as well as automated storage installations. Whether you opt for a conventional solution or an automated live storage installation – the BITO team will be pleased to assist you in making the right choice for your application.

BITO bins & containers

BITO provides a huge range of bins and containers in any size and for any application. Discover our bins for storage, handling and order picking, our stacking containers in European standard sizes and our successful distribution container series. In addition, we offer bins and trays for automated small parts storage and containers in pallet size.

A broad range of accessories ...

... workbenches, transport dollies, order picking and shelf trolleys, bins and cupboards, steps, labels, label holders and safety equipment tops off our product range.

- > Whatever you need for efficient storage –
- > you can rely on BITO as your single source supplier!





»More than 5,000 products direct from the manufacturer.«



We are at your service!

Fast track ordering



Catalogue and online shopping, a varied selection of special offers, instant advice provided on the phone by skilled staff, quick quotations, an attractive price performance ratio, short delivery times, and, if things should not be the way you want, the ability to handle claims fast and professionally – all this contributes to the success of a direct sales business. As a manufacturer of storage, order picking and handling equipment »Made in Germany« for more than 50 years offering a range of more than 5,000 products, we know our business and are happy to share our know-how with our customers. On-going product and market research help us to continuously extend our range and our services to provide you with everything you would expect from your single source supplier.

Support & Planning



Fast material flow and lean procedures – these factors are key to any intralogistics process. They will only make their full impact if combined with storage and order picking systems that are perfectly adapted to the requirements of a specific project. When it comes to realising such systems, BITO has a clear advantage over other suppliers. At BITO, we design and manufacture all products in our own plants. On top of this, we assume all project-related tasks from layout planning to system commissioning. This ensures highest levels of transparency and efficiency. Even tight time schedules can be realised because there are no delays in the flow of information between the departments involved and there is no loss of information due to additional interfaces.



"We're wherever you are!"



The BITO group



Our subsidiaries:

- > Belgium
- > Bulgaria
- > Denmark
- > Dubai (Middle East)
- > France
- > United Kingdom
- > Italy
- > The Netherlands
- > Austria
- > Poland
- > Russia
- > Switzerland
- > Slovakia
- > Spain
- > Czech Republic
- > Ukraine
- > Hungary

Partners:

BITO maintains multiple sales partnerships worldwide.

Plants in:

- > Meisenheim and Lauterecken
- > India

Plant
India



BITO
Storage Systems
in the UK



BITO Lagerteknik
in Denmark



BITO Systems
in Belgium



BITO Polska
in Poland



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