MATERIALFLOW AND FACTORY EQUIPMENT
LIFTER

CUSTOMIZED
OR STANDARD

BLOKSMA

SPECIALIZED
PROFESSIONALIZED
PERFECTED

Dirk Bloksma, Dipl.-Ing. (FH)
Qualified expert for
Lean Management

„MATERIAL FLOW OPTIMIZATION IS OUR STRENGTH. FOR MORE THAN 40 YEARS, WE HAVE BEEN ADVISING COMPANIES OPERATING WORLDWIDE AND DEVELOPING SUITABLE CONCEPTS TOGETHER IN ORDER TO INCREASE PRODUCTIVITY.”

HISTORY

1920 BLOKSMA founded in the Netherlands.

1949 Establishment of BLOKSMA GmbH for the manufacture and repair of water coolers for automobiles in Germany by Hendrik Marinus Bloksma.

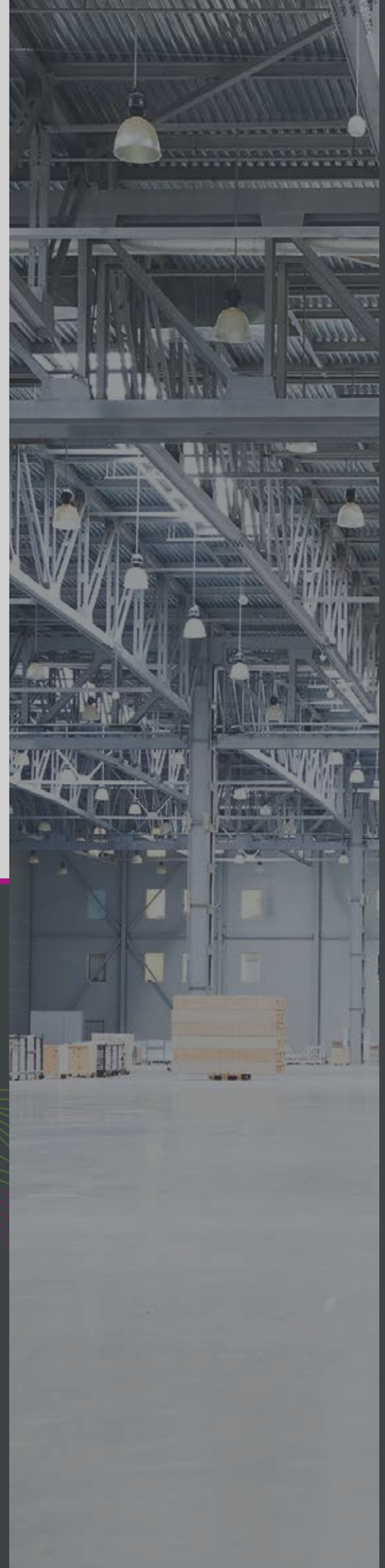
1958 Herman A. Bloksma joins the company at the age of 16 years.

1972 Development of first products for material flow optimization by Herman A. Bloksma.

1978 Patenting of the first container tipping device by Herman A. Bloksma.

1992 Dirk Bloksma joins the company.

2004 Dirk Bloksma takes over the management of BLOKSMA-Engineering GmbH. He and his team consistently realized their vision of a complete service for production processes.



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CERTIFICATES

SGS TÜV SAAR
BAUART GEPRÜFT/ TYPE APPROVED
www.sgs-tuev-saar.com
BA221114

c UL us
LISTED
machinery
E 524220

INDUSTRIES


AUTOMATION


AUTOMOTIVE / COMPONENTS MACHINING


LOGISTICS


TOOLS


SANITARY / FITTINGS


ELECTRONIC DEVICES


ENGINES


LIGHTING / LIGHTING TECHNOLOGY


AEROSPACE


PHARMA / MEDICAL TECHNOLOGY


AGRICULTURE / FARMING


FOOD

Push of a button instead of muscle power:
Lifters ensure ergonomic workplaces. As a **premium manufacturer BLOKSMA** offers a choice of pneumatic, electric or electro-hydraulic lifters.

THROUGH THE FULFILLMENT OF INDIVIDUAL CUSTOMER REQUIREMENTS MORE THAN 2,350 DIFFERENT MODELS HAVE ALREADY BEEN BUILT.

BLOKSMA lifters are effective from the ground up. They comfortably bring loads to working height, thus protecting the health of your employees and reducing access times, downtime and handling costs. Customized manufacturing, modular basic design and unparalleled flexibility allow our lifters to be adjusted to meet any requirement. **The choice is yours:** Stationary, mobile or semi-mobile? Highly flexible, tandem or stand-alone? Pneumatic, electric or electro-hydraulic? Front or side loading? Swiveling with or without load? With sensoric height adjustment or manual control?
Whatever you decide: With lifters from BLOKSMA, ergonomics and economy are top priorities.

DESIGNATION OF THE LIFTERS:

H = LIFTER

TYPE OF DRIVE:	MOBILITY:	LOAD TYPE:
HE = Electric	S = Stationary	F = Front
HP = Pneumatic	T = Semi-mobile	L = Left
HH = Hydraulic	M = Mobile	R = Right
HB = Battery		T = Tandem
		G = Gemini

Example: HES-F: Lifter Electric Stationary - Front

HIGH FLEXIBILITY DUE TO MODULAR DESIGN

Most lifters (mainly G3 - G5) have a modular design.
Front loading can easily and quickly be converted into side loading.
Likewise, a stationary lifter, which is not too heavy, can be converted into a mobile lifter.

THE G - FAMILY

OUR PNEUMATIC CHAMPION:

G3
up to 500 kg

OUR ELECTRIC RACERS:

G4
for light loads
up to 300 kg

G5
for heavy loads
from 300 kg

OUR ELECTRO-HYDRAULIC HEAVY DUTY CARRIER

G7
Electro-hydraulic heavy duty carrier
for loads up to 1.000 kg.
On request a higher load is possible.

OUR FLEXIBLE SPECIALIST

G8
Small and flexible
up to 200 kg with electric
linear unit, must be dowelled
to the floor.

MUSCULOSKELETAL DISORDERS IN THE WORKING WORLD

Musculoskeletal Disorders (MSDs) are widespread and cause individual suffering and high costs.

Incorrect physical burdening at work, such as heavy lifting and carrying, can cause musculoskeletal problems... MSDs are defined as all diseases of the musculoskeletal system, the so-called support and movement system. All areas of this system such as ligaments, blood vessels, cartilage, tendons, bones etc. can be affected.

In Germany an internationally, MSDs are the most frequent cause of

- incapacity for work
- severe disability
- limited ability to work
- premature disability

MSDs cause per year around

- 22.5 percent of all days of sick leave
- 21,400 new pensions due to reduced earning capacity
- 17.2 billion € in lost production
- 30.5 billion € in lost gross value added

Source:
Sicherheit und Gesundheit bei der Arbeit Berichtsjahr 2017
BAuA (Hrsg.) Bundesanstalt für Arbeitsschutz und Arbeitsmedizin

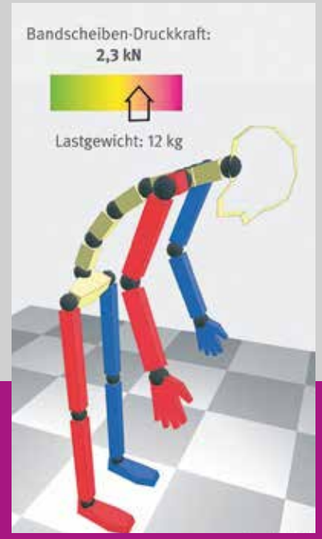


Image: IFA (https://www.dguv.de/ifa/index.jsp)

ERGONOMICS

The CUELA measuring system (computer-assisted recording and long-term analysis of musculoskeletal stress) was developed at the IFA to measure the musculoskeletal stress encountered in a wide range of occupational activities directly at the workplace under real working conditions. It is a personal measuring system consisting of modern sensor technology which can be worn on the work clothing. The associated software WIDAAN allows automated evaluation of the measurement data according to ergonomic and biomechanical evaluation criteria. Based on this, it is possible to make statements about necessary measures to avoid occupational health hazards.

Source:
Deutsche Gesetzliche Unfallversicherung e.V. (DGUV)

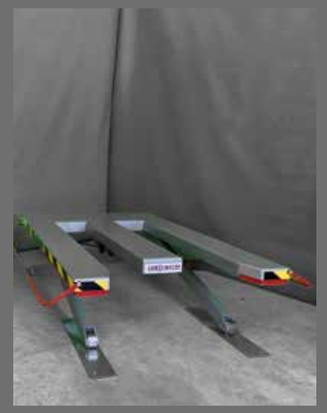
LIFTING TYPE

ELECTRICAL

- Sensoric height adjustment and other accessories available
- Different speeds available
- Steady lifting and lowering without stalling
- Exact height adjustment
- Modular design

PNEUMATIC

- Inexpensive alternative to electric lifters
- Recommended when only simple up and down at manual work places is required
- Modular design



HYDRAULIC

- Ideal for lifting heavy loads
- Mostly used for lifting large size loads

BATTERY

- More mobility, as neither pneumatic nor electric connection must be available
- Ideal for the filling shelves
- High degree of freedom
- Electric and pneumatic lines may be a source of danger (tripping hazard)

LOADING TYPE

FRONT LOADING

LENGTHWISE / CROSSWISE

If the trolley is pushed onto the lifter with the short side first, this is referred to as **lengthwise loading**.
We speak of **crosswise loading**, if the trolley is pushed onto the lifter with the long side first.

SIDE LOADING

LEFT / RIGHT

Side loading can be done from the left or from the right side.
We talk of **left side loading** when the trolley is pushed onto the lifter from the left side.

TO DRIVE UP AND THROUGH

The trolley drives up if the loading and unloading sides are the same. If the loading and unloading sides are not the same, the trolley drives through. The material flow is guaranteed.

REAR LOADING

A load carrier is lifted from one side and the filling is removed from the other side of the lifter.

MOBILE IN THE FACTORY

MOBILE IN THE FACTORY

MOBILE

The lifter is on wheels. Without load a change of location in the plant is possible. It is recommended to align the lifter at the place of use.

SEMI-MOBILE

Thanks to the castors mounted on the lower back side, the lifter can easily and flexibly be moved to the desire place of use. For greater stability, it is recommended that the lifter is aligned and dowelled to the floor.

STATIONARY

The base plate is firmly dowelled to the floor.
This ensures the greatest stability.

LOAD CARRIERS

TROLLEYS AND TRANSPORT WAGONS

Trolleys come in a wide variety of designs, dimensions and load capacities.
BLOKSMA produces a suitable load carrier for any kind of load.

BOXES AND CONTAINERS

Special gripping arms fix the load carrier at its sides. The load carrier is separated and lifted.

LOADING VIA AN INDUSTRIAL TRUCK

The load carrier is designed for carrying **wire baskets / pallets**. The loading can be done with the help of a pallet truck, an electric hand lifter or a forklift truck.

MODELS

TANDEM

Combination of two permanently connected lifters standing next to each other. This enables parallel loading and unloading of the load carriers.

TWIN

In a TWIN - Combination, two lifters are placed opposite each other. They are loaded from the side. Compared to a TANDEM - Combination, a TWIN has a smaller depth and more width.

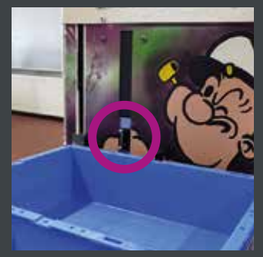
GEMINI FRONT / SIDELOADING

Unlike the TWIN, the lifters are positioned in the center. This saves space. In addition, the lifters can be combined in one housing.

SENSORIC

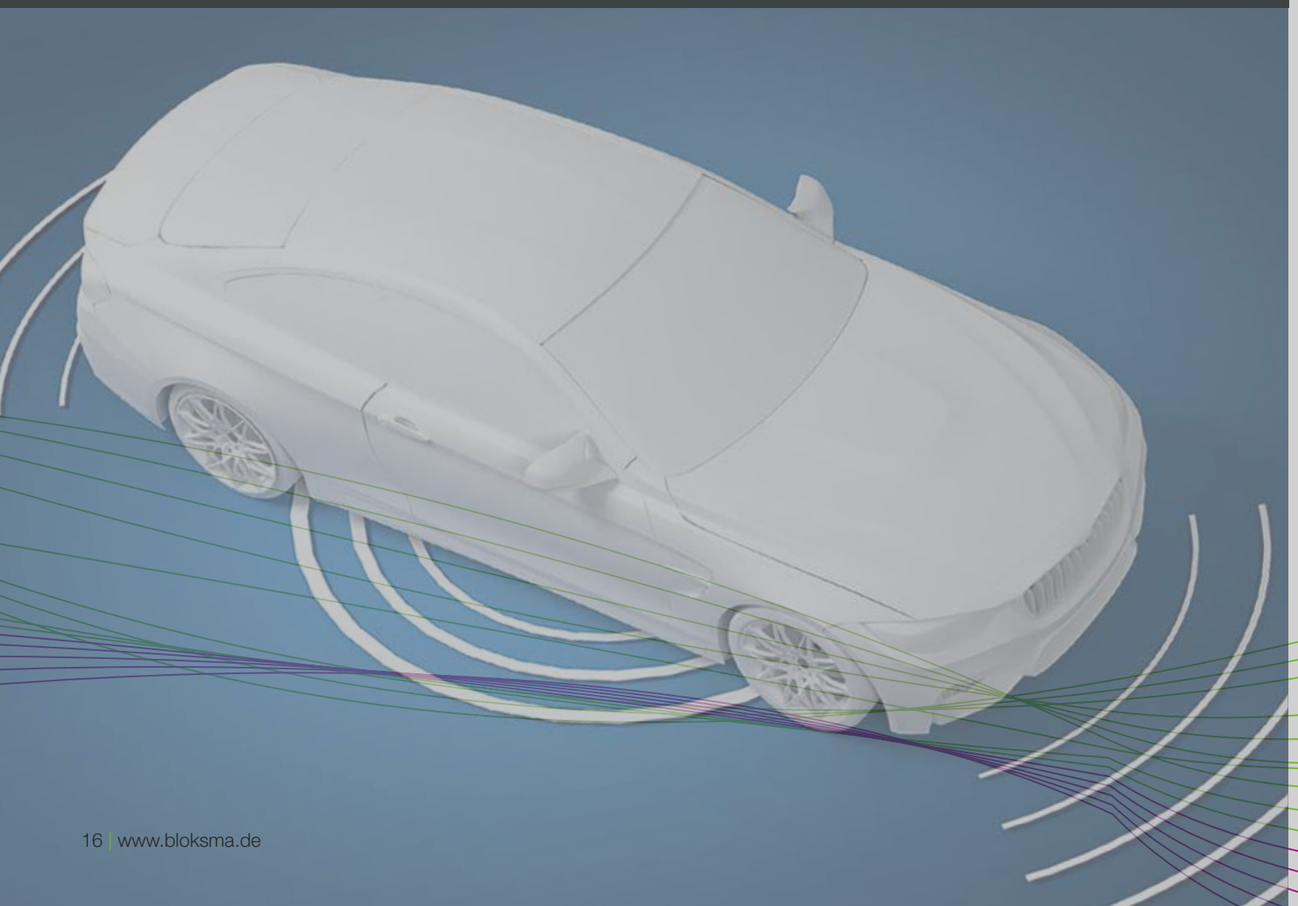
SENSORIC HEIGHT DETECTION

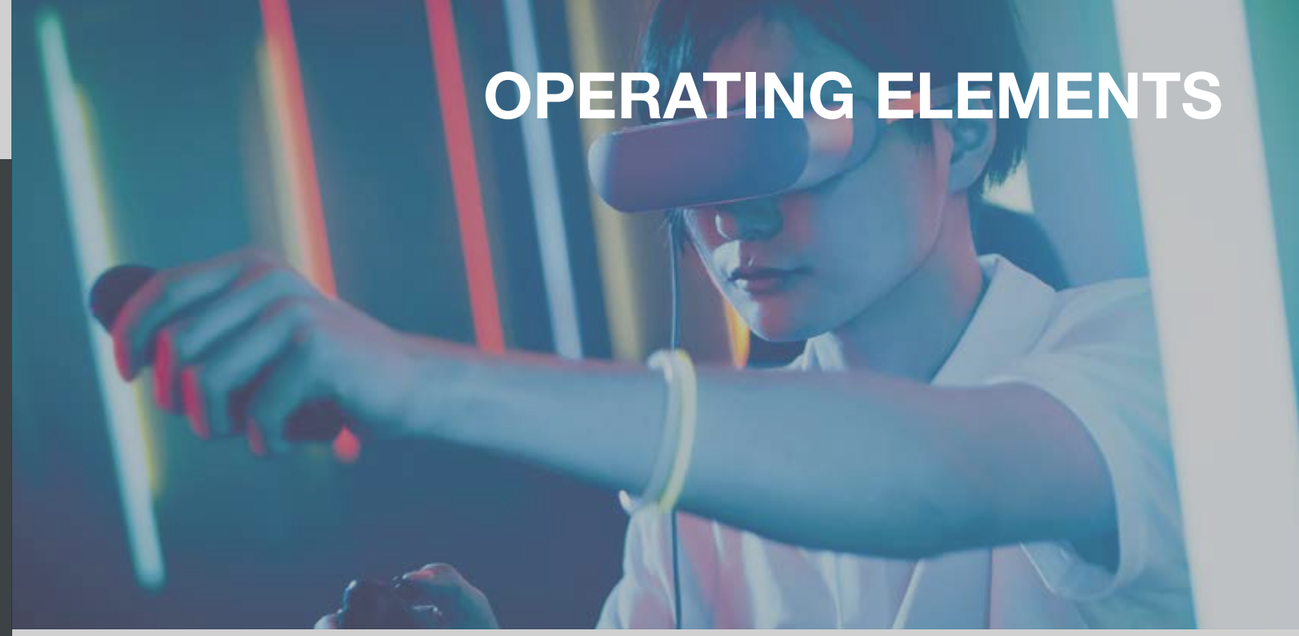
Lifters with sensoric height detection have as standard a **point sensor** with a range of approx. 300 mm.
They are suitable for one-piece closed containers such as plastic boxes. For open containers such as wire baskets and wire workpiece carriers, **line sensors** are used. These emit a horizontal line and can detect irregular geometries with a range of 150 mm.



TROLLEY LOAD CONTROL ®

A great safety plus - Unique and developed by BLOKSMA.
As an option, the Trolley Load Control ® can be added to our lifters. It prevents the unintentional lifting of the trolley when it is not pushed onto the lifter completely.





OPERATING ELEMENTS

OPERATING ELEMENTS FOR ELECTRIC LIFTERS

REMOVABLE CONTROL PANEL

As the control panel is removable, the lifter can be operated flexibly and comfortably.

PUSHBUTTONS ON THE DEVICE

If the pushbuttons are located on the device, the employee can operate the lifter directly from there.

INTEGRATION INTO AN AUTOMATION SYSTEM

BLOKSMA offers an interface on request.

FOOT - PEDAL

Special design, when the employee has no free hand.

OPERATING ELEMENTS

OPERATING ELEMENTS FOR PNEUMATIC LIFTERS

HAND - LEVER ON THE DEVICE
The standard in pneumatic lifters.

REMOVABLE HAND LEVER
Special design: If the lifter is obstructed or the employee cannot stand directly next to the device.

PUSHBUTTONS ON THE DEVICE (optional)
The pneumatic lifters can be operated directly by the pushbuttons on the device.

FOOT - PEDAL
Special design, when the employee has no free hand.

TILTING, EMPTYING, TURNING

TILTING, EMPTYING, TURNING

TILTING

Special arms grip the load carrier at its side. The load carrier is safely lifted, separated and tilted.

EMPTYING / DUMPING

A load carrier with bulk material is tilted so far that it is emptied.

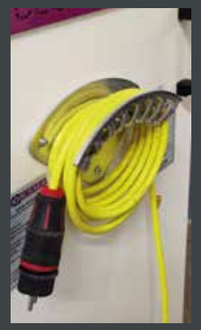
TURNING / SWINGING IN

Special solution: If loading is only possible from one side the load carrier can be turned into the working area.

EXCAVATE

When excavate, the trolley remains on the ground. Only the components are excavated. They are guided and stabilized by guide elements. In combination with a sensory height detection system, excavation always takes place at the same height.

ACCESSORIES



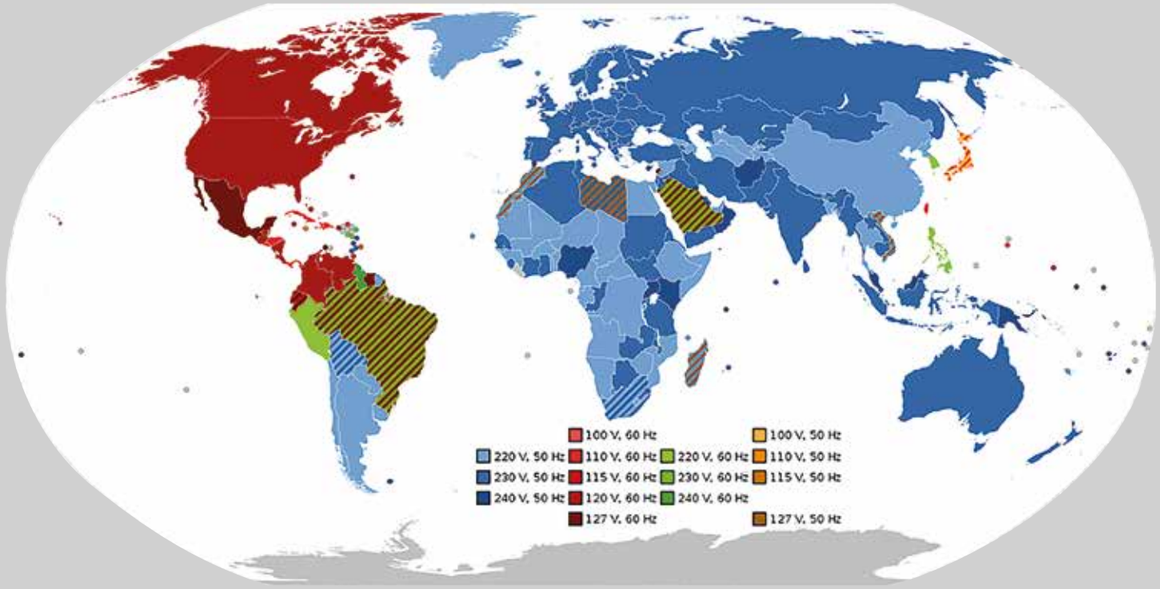
Cable holder (optional)
Particularly practical for mobile and semi-mobile lifters when they are moved. The cable is simply coiled up for transport and therefore does not become a tripping hazard.

Lifter with weighing system
This allows components to be weighed or counted.

Bumper switch-off bar (optional)
Below the load carrier there is an element detecting objects in its path. If it touches an obstacle before it reaches its lower end position, it moves upwards for one second and stops.

Safety enclosure and safety door (optional)
To avoid crushing of the worker or material damage to trolleys etc. the lifter can be equipped with a protective housing. This can be mounted on one side and all around with a door.

PLUG TYPES + VOLTAGES



Power supply
Worldwide there are more than 15 different voltage levels between 100 and 240 V. BLOKSMA lifters serve all voltage strengths and can therefore be used all over the world. Depending on your requirements and country, BLOKSMA equips its lifters with the type of plug used in the country.

Maintenance unit

For particularly humid areas BLOKSMA installs a special maintenance unit. This ensures optimal function of the pneumatic cylinder.

SPECIAL SOLUTIONS

First lifter from BLOKSMA

ESD Protection

On request, the lifter can be designed to be ESD-capable (electro static discharge). Sensitive electronic components are thus protected.

Manual roller conveyor

Electrically driven roller conveyor

Lifter with tiltable assembly table

Separation of pallets

Adjustable load support in length or width

SPECIAL SOLUTIONS

Heavy loads

Long loads

High loads

COMPLETE SYSTEM WITH AUTOMATIC SUPPLY

APPLICATIONS

APPLICATIONS

RENOWNED COMPANIES RELY ON SOLUTIONS FROM BLOKSMA:

AEG · Allweiler · AMG · Arburg · Atlas Copco · Audi · Behr · Benzinger · Beru
Bitzer · BMW · Boge · BorgWarner · Bosch · Brose · BRP-Rotax · BSH · Bürkert
Caterpillar · Continental · Daimler Truck · Danfoss · Eaton · Eberspächer
ebm-papst · EMAG · FAG · Faurecia · Federal-Mogul · Fein · Felsomat · Festo · Ford
Gardena · Gemü · Georg Fischer · Getrag · GKN · Grob · Güdel · Hanning · Handlingtech
Hansgrohe · Hatz · Heidelberg · Hella · Hoerbiger · Husky · IFA · IMS Gear
John Deere · Knipex · Kärcher · KUKA · Liebherr · LUK · Lütze · Magna Steyr
Mahle · MAN · Mannesmann · Mercedes Benz · Metabo · Miele · Nidec · Opel
Parker · Pierburg · Porsche · Promot · Schaeffler · SEW · Siemens · Stihl
Thyssenkrupp · Trelleborg · Valeo · Vibracoustic · Volkswagen · Vorwerk · Wabco · Wago · ZF

EVERYTHING FROM ONE SOURCE.

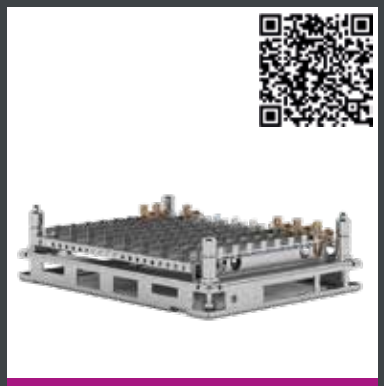
1 | TROLLEY

2 | LIFTER

3/4 | SUPERMARKET AND PARKING LOT

5 | TRANSPORT LOGISTIC

6 | FLOW RACK



7 | WORKPIECE CARRIER

www.bloksma.de

Certified management system
ZDH CERT
DIN EN ISO 9001:2000
Reg.-Nr.: Q1 0299012

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