



Optimum design and performance



Aluminium Truck Cranes



Optimum design and

- ✓ powerful drive unit
- ✓ one engine for truck, crane and platform
- ✓ uncompromising durability
- ✓ future-proof and environmentally friendly
- ✓ stable support system
- ✓ fully variable supports
- ✓ PLC control for maximum safety
- ✓ precise radio-remote control
- ✓ user-friendly even in the limit range
- ✓ extremely solid aluminium boom
- ✓ maximum working ranges
- ✓ precise telescoping under load
- ✓ sophisticated access platform technology
- ✓ broad range of accessories



performance

Powerful drive unit

- Maximum working speeds thanks to powerful PTO of the truck
- Sufficient power reserves in any situation
- Lifting of the maximum load is always possible
- Operation of several crane functions at the same time



One engine for truck, crane and platform

- Reduced operational costs as a result of reduced maintenance works
- Easy and safe to handle – one tank, one fuel and one refilling process
- No additional noise disturbance as the access platform does not need a separate drive unit
- Maximum reliability compared to small and undersized drives units



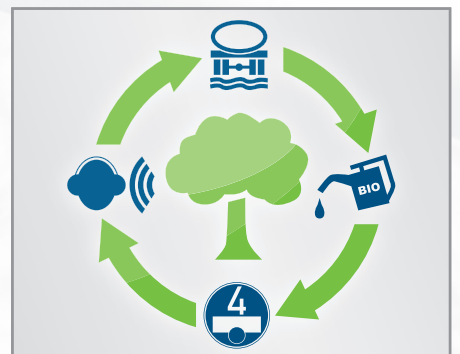
Uncompromising durability

- Truck engines have been designed for maximum mileage
- Variable speeds clearly reduce the engine load compared to smaller auxiliary drives
- Certified endurance tests for telescoping and support cylinders, slide bars and steel cables
- Chassis successfully passed 100,000 km endurance test
- Surpassing reliability of the entire Böcker drive concept



Future-proof and environmentally friendly

- Truck engines comply with EURO 5 exhaust emission standards
- Superior emission values compared to smaller engines without diesel particulate filter
- Reduced fuel consumption due to latest engine technology
- Biodegradable hydraulic oil - extreme durability and lowest water hazard class
- Böcker cranes may be used in any environmental protection zone thus they are future-proof



Stable support system

- Particularly stable support legs made of fine-grained steel for maximum stability
- Solid hydraulic cylinder for lateral extension of the support legs and continuously variable height levelling
- Support plates are safely stowed on the crane and easily accessible at any time



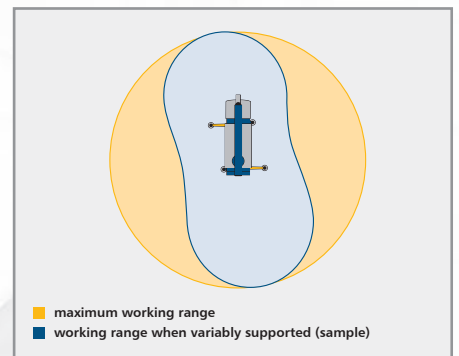
Fully variable supports

- Fully independent adjustment of each crane support
- Limited required space for operations on challenging construction sites e.g. at a roadside with moving traffic
- Operations under extremely narrow site conditions such as house walls equally possible without any problem
- Maximum stability due to consistent overall-safety concept



PLC control for maximum safety

- Automatic approval of the maximum working range depending on the position of supports and attached load
- Consistent load-winch monitoring system
- Redundant safety concept – two separate safety circuits continuously monitor each other thus guaranteeing maximum working safety
- Entire safety concept certified by German technical inspection authority (TÜV Süd)



Precise radio-remote control

- Radio-remote control with integrated graphic display made from one of the worldwide leading manufacturers (HBC radiomatic)
- Clear and well-arranged identification of all relevant operational data by easily understandable pictograms on the display
- Sophisticated control offers operation suggestions, e.g. when reaching the limit stop
- Identification of service intervals on the display in due time



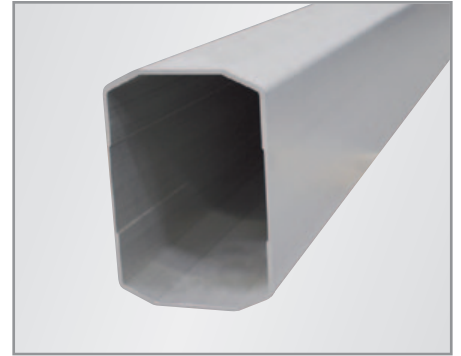
User-friendly even in the limit range

- "Getting stuck" is impossible in any position
- Smooth starting in any working situation
- Precise control of the crane under any operational circumstances
- Accurate unloading on any spot on the roof
- Retractable jib with rated capacity limiting system monitored by sensors, therefore no annoying plugging of helix cables required



Extremely durable aluminium boom

- Particularly low bending and torsion due to closed boom profile made of high-strength aluminium alloy
- Maximum durability thanks to integral profiles on all highly stressed sections of the boom
- No holes in the tension nor in the compression flange of the boom as these sections are exposed to maximum forces
- Abandonment of weld seams at inaccessible spots reduces maintenance costs
- Ten-year manufacturer's warranty on the entire boom



Maximum working ranges

- Maximum working ranges up to the rear side of the roof
- Extremely powerful even while carrying medium or heavy duties
- Larger working ranges due to favourable positioning of the slew ring
- Powerful brake of slew ring prevents the entire bodywork from turning even with high wind load and maximum working ranges



Precise telescoping under load

- Precise telescoping even under heavy loads due to sophisticated control and boom technology
- Telescoping by using flyer chains and hydraulic cylinders allows for smooth steering even in extremely flat mast positions
- No problems with slack cable unlike outdated cable-telescoping technology



Sophisticated access platform technology

- Easy assembly and convenient access from the loading platform
- Extremely short changeover times without separate tools thanks to well-thought-out locking mechanism
- Connection to crane electric, therefore no separate drive unit, no additional emissions and more space
- Fast relocation as the access platform remains on the crane for on-site manoeuvring
- Access platform rotatable



Comprehensive range of accessories

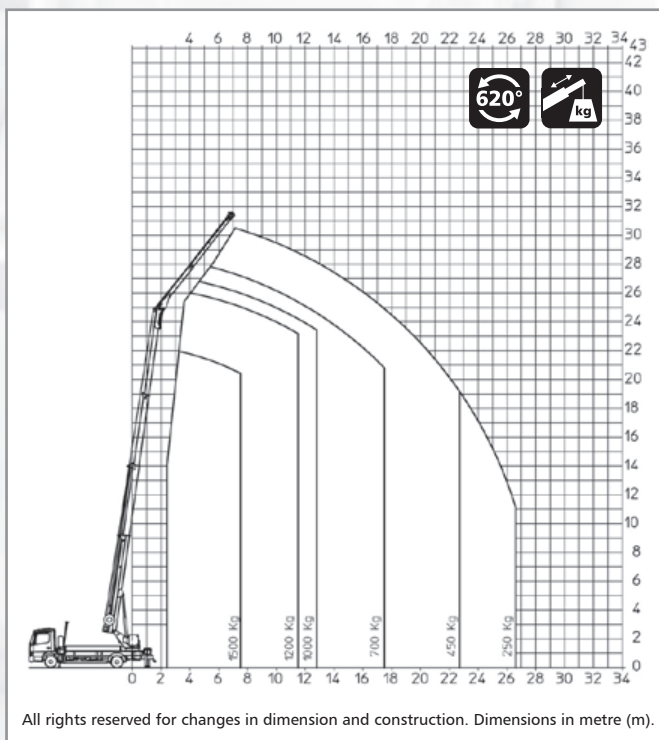
- Maximum versatility – accessories specifically tailored to each operation
- Lightweight aluminium design for maximum payloads
- Roof-tile clamps and platforms in various sizes and designs
- Tipper baskets and pallet forks made of aluminium
- Solar panel platform for transport of up to 14 solar-cell modules



Aluminium Truck Crane AK 32/1500 PLC



Duty chart



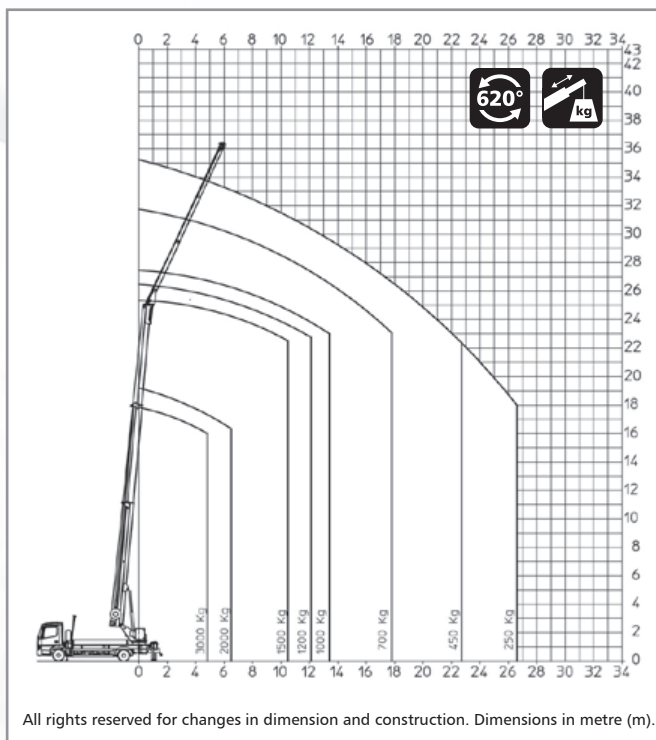
Technical specifications

Payload max. [kg]	1,500
Extension length max. [m]	31.40
Main boom length max. [m]	23.40
Jib extendible [m]	4.10 to 8.30
Main boom angle approx. [degrees]	85
Jib angle approx. [degrees]	150
Lifting speed approx. [m/min]	65
Support area L x W / (to one side) [m]	5.40 x 5.55 / (3.96)
Vehicle dimensions L x W x H [m]	8.10 x 2.55 x 3.87
Wheelbase min. [mm]	4,220
Gross vehicle weight [t]	7.49
Working height platform operation [m]	32.00
Lateral range with access platform [m]	21.80 at 250 kg 26.20 at 100 kg

Aluminium Truck Crane AK 35/3000 PLC



Duty chart



Technical specifications

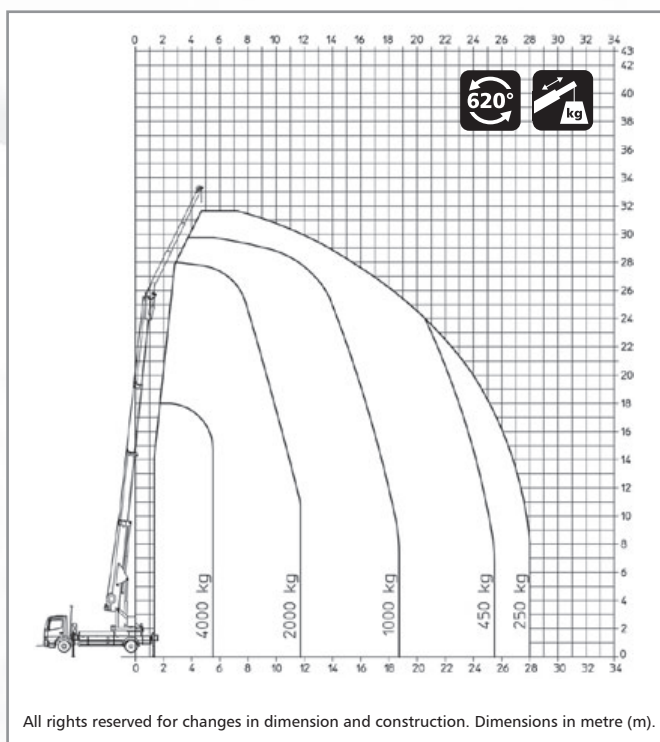
Payload max. [kg]	3.000
Extension length max. [m]	34.40
Main boom length max. [m]	24.40
Jib extendible [m]	5.20 to 11.20
Main boom angle approx. [degrees]	85
Jib angle approx. [degrees]	160
Lifting speed approx. [m/min]	65
Support area L x W / (to one side) [m]	5.40 x 5.55 / fully variable
Vehicle dimensions L x W x H [m]	9.70 x 2.55 x 3.95
Wheelbase min. [mm]	4,220
Gross vehicle weight [t]	7.49
Working height platform operation [m]	35.00
Lateral range with access platform [m]	21.80 at 250 kg 26.20 at 100 kg



Aluminium Truck Crane AK 32/4000 PLC



Duty chart



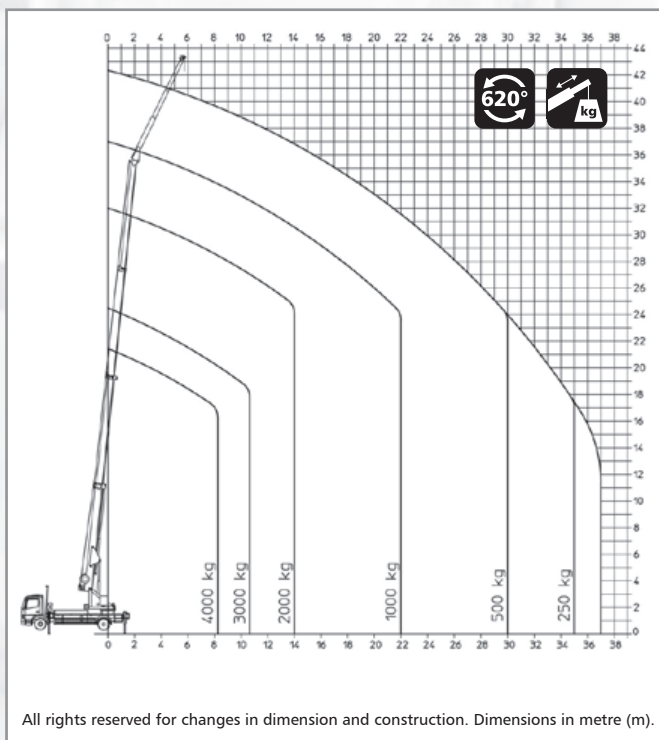
Technical specifications

Payload max. [kg]	2,000 / 4,000
Extension length max. [m]	32.00
Main boom length max. [m]	24.00
Jib extendible [m]	4.27 to 8.73
Main boom angle approx. [degrees]	85
Jib angle approx. [degrees]	160
Lifting speed approx. [m/min]	50
Support area L x W / (to one side) [m]	5.85 x 5.54 / (4.00)
Vehicle dimensions L x W x H [m]	9.65 x 2.55 x 3.98
Wheelbase min. [mm]	4,760
Gross vehicle weight [t]	13 / 18
Working height platform operation [m]	32.30
Lateral range with access platform [m]	24.70 at 250 kg 26.80 at 100 kg

Aluminium Truck Crane AK 44/4000 PLC



Duty chart



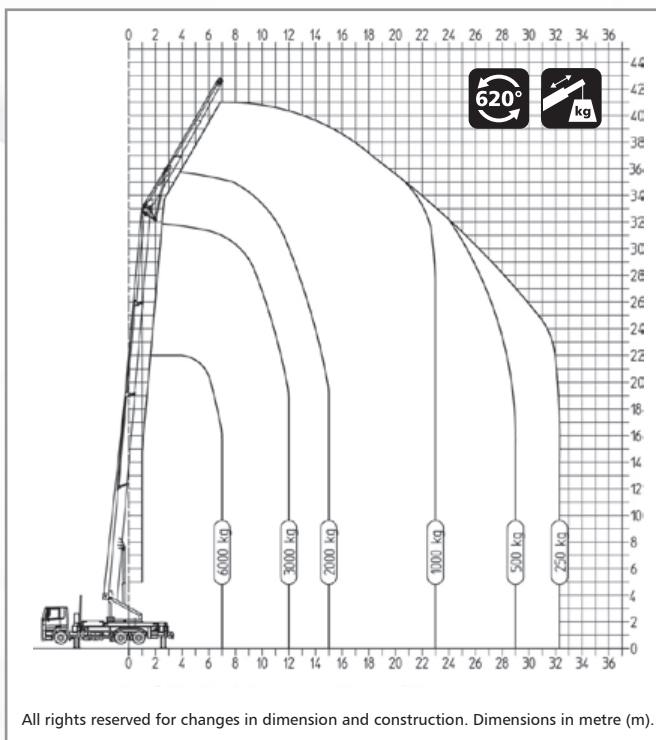
Technical specifications

Payload max. [kg]	4,000
Extension length max. [m]	42.00
Extension length max. including mech. extension [m]	44.00
Main boom length max. [m]	33.00
Jib extendible [m]	4.55 to 8.90
Main boom angle approx. [degrees]	87
Jib angle approx. [degrees]	165
Lifting speed approx. [m/min]	60
Support area L x W / (to one side) [m]	6.05 x 5.74 / (4.15)
Vehicle dimensions L x W x H [m]	10.55 x 2.55 x 3.99
Wheelbase min. [mm]	5,360
Gross vehicle weight [t]	15,5
Working height platform operation [m]	41.50
Lateral range with access platform [m]	30.00 at 250 kg 33.00 at 100 kg

Aluminium Truck Crane AK 41/6000 PLC



Duty chart



Technical specifications

Payload max. [kg]	1,500
Extension length max. [m]	41.00
Main boom length max. [m]	32.50
Jib extendible [m]	5.00 to 11.00
Main boom angle approx. [degrees]	85
Jib angle approx. [degrees]	155
Lifting speed approx. [m/min]	57
Support area L x W / (to one side) [m]	6.50 x 5.35 / (3.96)
Vehicle dimensions L x W x H [m]	10.60 x 2.55 x 4.00
Wheelbase min. [mm]	4.500 / 1.350
Gross vehicle weight [t]	26
Working height platform operation [m]	41.00
Lateral range with access platform [m]	30.00 at 250 kg 31.00 at 100 kg

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