



Technical Description

GCK 3045

January 2009 / Revision A

GROVE[®]

GCK 3045

· Technical Description · (PROVISIONAL)

GROVE telescopic mobile crane

TYPE GCK 3045

Maximum lifting capacity: 45 t x 2,5 m radius – nominal
35 t x 3 m radius, 360°
Maximum load moment: 125 tm EN 13000 (DIN/ISO)

ITEM NO.

A 001 T BASIC STANDARD UNIT

SUPERSTRUCTURE

Turntable: welded structure made of high tensile close grain steel plate

Main boom: 6 section full power telescopic boom extending from 7.9 to 34 m, made of high tensile close grain steel plate; 4 sheave boom head

Engine: HINO common engine for road travel & crane operations
Type E 13 C-UV Euromot III A
6 cylinders, straight
330 kW @ 1800 rpm
Torque 1930 Nm @ 1300 rpm

Counterweight: superstructure integrated

Hydraulic system: powered by common road travel and crane engine, consisting of:
3 x variable displacement pumps for road travel
2 x variable displacement pumps , for 3 simultaneous crane functions
1 x gear pump for slewing drive
1 x gear pump for control circuit
3 x gear pumps for steering

Hoist: axial piston motor driving planetary gear
spring loaded disc brake
Line pull: 44,4 kN
Line speed: 120 m/min (on 4th layer)
Rope dia 16 mm
Rope length: 160m

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Slew drive:	axial piston motor driving planetary reduction gear and pinion, house lock and parking brake Slewing speed: 0 – 2,1 min-1
Derricking:	2 x single acting hydraulic cylinders, boom elevation from -9 ° to + 80°
Crane cab:	common road travel and crane operations cab located on superstructure road travel and crane instrumentation fully air-conditioned heated and remote control mirrors
Safety devices:	electronic load moment limiter, graphic display programmed for all crane functions including odd outrigger set-up Hoist limit and drum limit switch
Others:	10 t single sheave self-stowing hook block 1 spot light for hoist drum 1 boom mounted spot light Video camera for hoist drum and rear view Reverse audible alarm Fire extinguisher Radio / CD player

CARRIER

Drive / steer	6 x 6 x 6
Main frame:	welded frame made of high tension close grain steel
Outriggers:	4 x hydraulic telescopic outriggers, 5 different outrigger positions and odd outrigger set-up 4x vertical outrigger jacks - 550 mm stroke, Controlled from carrier and upper cab
Engine:	refer to superstructure 1 common engine for both road travel and crane operations
Transmission:	infinitely variable hydrostatic drive consisting of: 3 X variable displacement pumps mounted on pump transfer case, driving through centre mounted differential and planetary hubs 2 hydraulic motors for 1 st axle and 4 hydraulic motors for 2 nd and 3 rd axle

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Suspension:	hydro- pneumatic with suspension lock-out + / - 90 mm suspension stroke
Wheels and tires:	385/95 R 25 (14.00 R 25) Rim 10.00/1.5
Road speed:	80 km/h
Steering:	ZF Servocom steering Front Axle – mechanical / hydraulic power steering assisted Rear axles 2. and 3. axles: electronic /hydraulic power steering 3 rd axle steers during road travel up to 30km/h Co-ordinated all wheel steer and crab steer Emergency steering pump
Brakes:	service brake- dual air circuit Parking brake: spring loaded cylinders Retarder by hydrostatic drive Engine retarder – compression -brake (Jake brake) ABS
Electrical installation:	24 V , 3 phase alternator 90 A 2 x batteries 136 Ah Vehicle lighting complies with EC directives

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OPTIONAL EQUIPMENT SUPERSTRUCTURE

BOOM / ATTACHMENTS

- B002T Box type jib extension, max length: 10,2 m
- B003T Heavy duty jib, length: 1,2 m

HOOKBLOCKS / HEADACHE BALL

- F004T 5 sheave hookblock with single hook. [45 tonnes hookblock capacity].
- F005T 3 sheave hookblock with single hook. [25 tonnes hookblock capacity].
- F006T Single line headache ball [4 tonnes headache ball capacity].

OPTIONAL EQUIPMENT CARRIER

TYRES AND WHEELS

- G007T 385/95 R25 spare tire with rim
- G008T 385/95 R25 spare rim

CARRIER ACCESSOIRES

- K009T Rear stowage box

MISCELLANEOUS

- N010T Non-standard paint finish, two colours, same grade as standard.
- N011T Non-standard paint finish, three colours, same grade as standard.
- N012T Primer only - no paint
- N013T Sign writing on basic boom section, turntable panelling and driver's cab.
- C014T Two rotating beacons
- S015T Spot lights for outrigger
- S016T Remote control spot light on boom
- J017T Lower central lubrication (6 x grease points for carrier)
- E018T Stainless steel muffler with spark arrestor
- C019T Engine independent diesel air heater and timer
- S020T Searcher hook
- R021T Homologation kit - to comply with national registration codes.

- Subject to technical modifications -

This crane is designed for operation according to crane class A1 (as defined in ISO 4301 - 2). This is only a statement about design, but no warranty as defined in § 443 BGB (german civil code).