



NK-300E-v

FULLY HYDRAULIC TRUCK CRANE

[SPECIFICATION]

CARRIER

■ Specification	Description		Truck crane with maximum lifting capacity 30 ton							
10.5 m Boom 30,000 kg × 3.0 m (Parts of line: 142 m Boom 20,000 kg × 4.5 m (Parts of line: 18.0 m Boom 16,000 kg × 5.0 m (Parts of line: 21.7 m Boom 12,000 kg × 6.0 m (Parts of line: 25.5 m Boom 11,500 kg × 6.0 m (Parts of line: 25.5 m Boom 11,500 kg × 6.0 m (Parts of line: 33.0 m Boom 7,000 kg × 7.0 m (Parts of line: 37.0 m 30.0 m Boom 7,000 kg × 7.0 m (Parts of line: 37.0 m 30.0 m Boom 7,000 kg × 7.0 m (Parts of line: 45.5 m Jib 2,000 kg × 7.0 m (Parts of line: 14.5 m Jib 2,000 kg × 7.0 m (Parts of line: 14.5 m Jib 2,000 kg × 7.0 m (Parts of line: 16.5 m — 33.0 m 6.00 m (Parts of line: 16.5 m — 33.0 m 6.00 m (Parts of line: 16.5 m — 33.0 m 6.00 m (Parts of line: 16.5 m — 33.0 m 6.00 m (Parts of line: 16.5 m — 33.0 m 6.00 m (Parts of line: 16.5 m — 33.0 m 6.00 m (Parts of line: 16.5 m — 33.0 m 6.00 m (Parts of line: 16.5 m — 33.0 m 6.00 m (Parts of line: 16.5 m — 33.0 m 6.00 m (Parts of line: 16.5 m — 33.0 m 6.00 m (Parts of line: 16.5 m — 33.0 m 6.00 m (Parts of line: 16.5 m — 33.0 m 6.00 m (Parts of line: 16.5 m — 33.0 m 6.00 m (Parts of line: 16.5 m — 33.0 m 6.00 m (Parts of line: 16.5 m — 33.0 m 6.00 m (Parts of line: 16.5 m — 33.0 m 6.00 m (Parts of line: 16.5 m — 33.0 m 6.00 m (Parts of line: 16.5 m — 33.0 m 6.00 m (Parts of line: 16.5 m — 33.0 m 6.00	Model									
14.2 m Boom 20,000 kg × 4.5 m (Parts of line : 18.0 m Boom 15,000 kg × 5.0 m (Parts of line : 21.7 m Boom 12,000 kg × 5.0 m (Parts of line : 29.2 m Boom 11,500 kg × 6.0 m (Parts of line : 29.2 m Boom 11,500 kg × 6.0 m (Parts of line : 33.0 m Boom 7,000 kg × 7.0 m (Parts of line : 37.0 m 30.0 kg × 76.0 m (Parts of line : 37.0 m 30.0 kg × 76.0 m (Parts of line : 37.0 m 30.0 kg × 76.0 m (Parts of line : 37.0 m 30.0 kg × 76.0 m (Parts of line : 37.0 m 30.0 kg × 76.0 m (Parts of line : 37.0 m 30.0 kg × 77.7 (Parts of line : 37.0 m 30.0 kg × 76.0 m (Parts of line : 37.0 m 30.0 kg × 76.0 m (Parts of line : 37.0 m 30.0 kg × 77.7 (Parts of line : 37.0 m 30.0 m 30.	Specificat	ion								
Maximum rated lifting capacity 18.0 m Boom 16,000 kg×5.0 m (Parts of line: 21.7 m Boom 12,000 kg×6.0 m (Parts of line: 29.2 m Boom 11,500 kg×6.0 m (Parts of line: 29.2 m Boom 17,000 kg×6.0 m (Parts of line: 30.0 m Boom 7,000 kg×7.0 m (Parts of line: 8.7 m Jib 3,000 kg×7.7 m (Parts of line: 8.7 m Jib 3,000 kg×7.7 m (Parts of line: 14.5 m Jib 2,000 kg×7.7 m (Parts of line: 14.5 m Jib 2,000 kg×7.7 m (Parts of line: 14.5 m Jib 2,000 kg×7.7 m (Parts of line: 14.5 m Jib 2,000 kg×7.7 m (Parts of line: 14.5 m Jib 2,000 kg×7.7 m (Parts of line: 10.5 m — 33.0 m (4 section) Boom length 10.5 m — 33.0 m (4 section) Maximum lifting height 8.7 m — 14.5 m (2 section) 33.0 m (Boom) 47.5 m (jib) Hoisting hook speed (winch up) Auxiliary winch Auxiliary winch Auxiliary winch Auxiliary winch Auxiliary winch Boom derricking angle 10 s (10.5 m — 33.0 m) Slewing speed 2.6 min 10 s (10.5 m — 33.0 m) Slewing speed 2.6 min 10 s (10.5 m — 33.0 m) Slewing speed 3.395 mm Equipment and structure Boom type Box-shaped, 4-section hydraulically telescopic type (Boom sections 3 / 4 simultaneously operated) Jib type 2 sections (2nd section of draw-out type, 3-step inc (offset angles 5°, 17° and 30°)) Boom extension/ retraction equipment Boom derricking/ look and section of draw-out type, 3-step inc (offset angles 5°, 17° and 30°)) Boom extension/ retraction equipment Boom derricking/ look and provided the provided to			10.5 m Boom	30,000 kg×3.0 m	(Parts of line : 10)					
Adaximum rated lifting capacity 21.7 m Boom 12,000 kg × 6.0 m (Parts of line: 29.2 m Boom 9,000 kg × 7.0 m (Parts of line: 33.0 m Boom 7,000 kg × 8.0 m (Parts of line: 8.7 m Jib 3,000 kg × 7.0 m (Parts of line: 14.5 m Jib 2,000 kg × 7.7 m (Parts of line: 14.5 m Jib 2,000 kg × 7.7 m (Parts of line: Rooster 3,000 kg (Parts of line: Parts of line: Rooster 3,000 kg (Parts of line: Parts of line: Rooster 3,000 kg (Parts of line: Parts of			14.2 m Boom	20,000 kg×4.5 m	(Parts of line: 8)					
Maximum rated liffing capacity 21.7 m Boom 12,000 kg × 6.0 m (Parts of line : 29.2 m Boom 11,500 kg × 6.0 m (Parts of line : 29.2 m Boom 7,000 kg × 7.0 m (Parts of line : 33.0 m Boom 7,000 kg × 7.0 m (Parts of line : 37 m Jib 3,000 kg × 7.0 m (Parts of line : 14.5 m Jib 3,000 kg × 7.0 m (Parts of line : 14.5 m Jib 3,000 kg × 7.7 m (Parts of line : Roosler 3,000 kg × 7.7 m (Parts of line : Roosler 3,000 kg × 7.7 m (Parts of line : Roosler 3,000 kg × 7.7 m (Parts of line : 14.5 m Jib 3,000 kg × 7.7 m (Parts of line : Roosler 3,000 kg × 7.7 m (Parts of line : Roosler 3,000 kg × 7.7 m (Parts of line : 10.5 m 33.0 m (Section) (Parts of line : 10.5 m 33.0 m (Section) (Parts of line : 10.5 m (Parts of line : 10.5 m 2.5 m (Parts of line : 10.5 m (Parts of line : 10.5 m 2.5 m (Parts of line : 10.5 m (Part			18.0 m Boom	16,000 kg×5.0 m	(Parts of line : 8)					
29.2 m Boom 9,000 kg x 7.0 m (Parts of line : 33.0 m Boom 7,000 kg x 8.0 m (Parts of line : 8.7 m Jib 3,000 kg x 77.7 (Parts of line : 14.5 m Jib 2,000 kg x 77.7 (Parts of line : 14.5 m Jib 2,000 kg x 77.7 (Parts of line : 14.5 m Jib 2,000 kg x 77.7 (Parts of line : 14.5 m Jib 2,000 kg x 77.7 (Parts of line : 14.5 m Jib 2,000 kg x 77.7 (Parts of line : 14.5 m Jib 2,000 kg x 77.7 (Parts of line : 14.5 m Jib 2,000 kg x 77.7 (Parts of line : 15.5 m - 33.0 m (4 section) (Parts of line : 10.5 m - 33.0 m (4 section) (Parts of line : 10.5 m - 33.0 m (4 section) (Parts of line : 10.5 m - 33.0 m (4 section) (Parts of line : 10.5 m - 33.0 m (Parts of line : 10.5 m -										
29.2 m Boom 9,000 kg × 7.0 m (Parts of line: 33.0 m Boom 7,000 kg × 8.0 m (Parts of line: 8.7 m Jib 3,000 kg × 77.7" (Parts of line: 14.5 m Jib 2,000 kg × 77.7" (Parts of line: 14.5 m Jib 2,000 kg × 77.7" (Parts of line: 14.5 m Jib 2,000 kg × 77.7" (Parts of line: 14.5 m Jib 2,000 kg × 77.7" (Parts of line: 14.5 m Jib 2,000 kg × 77.7" (Parts of line: 14.5 m Jib 2,000 kg × 77.7" (Parts of line: 15.5 m — 33.0 m (4 section) (Parts of line: 15.5 m — 14.5 m (2 section) (Parts of line: 15.5 m — 14.5 m (2 section) (Parts of line: 15.5 m (lib) (lib) (lib) (lib) (Parts of line: 15.5 m (lib) (lib) (lib)	Maximum rated	1								
33.0 m Boom										
14.5 m Jib 2,000 kg ×77.7° (Parts of line: Rooster 3,000 kg (Parts of line: Rooster 3,000 kg (Parts of line: 10.5 m — 33.0 m (4 section)			33.0 m Boom	33.0 m Boom 7,000 kg × 8.0 m (Parts of line : 4)						
14.5 m Jib 2,000 kg ×77.7° (Parts of line: Rooster 3,000 kg (Parts of line: Rooster 3,000 kg (Parts of line: Rooster 3,000 kg (Parts of line: 3.00 m (Boom)										
Boom length 10.5 m — 33.0 m (4 section) Fly jib length 8.7 m — 14.5 m (2 section) 33.0 m (Boom) 47.5 m (jib) Hoisting Main winch 110 m / min. (at 4th layer) Winch up) 95 m / min. (at 2nd layer) Hoisting hook speed Auxiliary winch 4 section 95 m / min. (at 2nd layer) Hoisting hook speed Auxiliary winch 4 section 95 m / min. (at 2nd layer) Boom derricking angle -3" — 80" Boom derricking angle -3" — 80" Boom extending time 53 s / -3" — 80" Boom extending time 110 s (10.5 m — 33.0 m) Stewing speed 2.6 min' 13 slewing radius 3,395 mm Equipment and structure Boom type Box-shaped, 4-section hydraulically telescopic type (Boom sections 3 / 4 simultaneously operated) 2 sections (2nd section of draw-out type, 3-step inc (offset angles 5", 17" and 30") Boom extension/ retraction equipment Two hydrauric cylinders and wire ropes used together traction equipment Two hydrauric cylinders and wire ropes used together traction equipment Two hydrauric cylinder of direct acting type with pressure-compensated flow control valve Controlled independently by respective operating lever. Equipped with automatic brake. Slewing equipment Diameter: 16 mm×Length: 180 m Diameter: 16 mm×Length: 180 m Diameter: 16 mm×Length: 105 m Diameter: 105 m Dia			14.5 m Jib							
Boom length			Rooster		(Parts of line : 1)					
Section Sect	Boom length		10.5 m — 33.0							
Hoisting line speed (winch up) Auxiliary winch (Parts of line; 10): 11.0 m / min. (at 4th layer) Hoisting hook speed (winch up) Auxiliary winch (Parts of line; 10): 11.0 m / min. (at 4th layer) Boom derricking angle 3° − 80° Boom derricking time 53 s / −3° − 80° Boom derricking time 110 s (10.5 m − 33.0 m) Stewing speed 2.6 min¹ Tail slewing radius 3.395 mm Equipment and structure Boom type (Box-shaped, 4-section hydraulically telescopic type (Boom sections 3 / 4 simultaneously operated) Jib type 2 sections (2nd section of draw-out type, 3-step inc (offset angles 5°, 17° and 30°)) Boom extension/ retraction equipment Boom derricking/ to hydrauric cylinders and wire ropes used toget towering equipment Boom derricking/ to hydrauric cylinder of direct acting type with pressure-compensated flow control valve Winch system Main & Auxiliary winches Slewing equipment Wire rope for hoisting and bearing type Hydraulic system Oil pump 4 section gear type Horaulic system Oil pump 4 section gear type Avail plunger type Control valve 3 position 4 way double acting with integral check a cylinder of care stopper with voice alarm), Boom falling prevention device, Vinch automatic Prook (Boom salling prevention device, Vinch automatic Prook (Boom falling prevention device, Vinch automatic Prooks (30 ton, 3 ton). Full size fender, Large size steps, 3 working lights, Moment limiter with Winch drum turning indicator, Outrigger sheet, Cigar (Cab floor mat. Tool kit Optional equipment										
Hoisting line speed (winch up) Auxiliary winch (Parts of line; 10): 11.0 m / min. (at 4th layer) Hoisting hook speed (winch up) Auxiliary winch (Parts of line; 10): 11.0 m / min. (at 4th layer) Boom derricking angle 3° − 80° Boom derricking time 53 s / −3° − 80° Boom derricking time 110 s (10.5 m − 33.0 m) Stewing speed 2.6 min¹ Tail slewing radius 3.395 mm Equipment and structure Boom type (Box-shaped, 4-section hydraulically telescopic type (Boom sections 3 / 4 simultaneously operated) Jib type 2 sections (2nd section of draw-out type, 3-step inc (offset angles 5°, 17° and 30°)) Boom extension/ retraction equipment Boom derricking/ to hydrauric cylinders and wire ropes used toget towering equipment Boom derricking/ to hydrauric cylinder of direct acting type with pressure-compensated flow control valve Winch system Main & Auxiliary winches Slewing equipment Wire rope for hoisting and bearing type Hydraulic system Oil pump 4 section gear type Horaulic system Oil pump 4 section gear type Avail plunger type Control valve 3 position 4 way double acting with integral check a cylinder of care stopper with voice alarm), Boom falling prevention device, Vinch automatic Prook (Boom salling prevention device, Vinch automatic Prook (Boom falling prevention device, Vinch automatic Prooks (30 ton, 3 ton). Full size fender, Large size steps, 3 working lights, Moment limiter with Winch drum turning indicator, Outrigger sheet, Cigar (Cab floor mat. Tool kit Optional equipment										
Hoisting line speed (winch up) Auxiliary winch Auxiliary winch	Maximum lifting	g height								
Iline speed (winch up)		Main		. 411. 2						
Winch up Auxillary winch 95 m / min. (at 2nd layer)			110 m / min. (a	t 4th layer)						
Hoisting hook speed (winch up) Auxiliary winch Boom derricking angle -3° — 80° Boom derricking time 53 s / -3° — 80° Boom extending time 110 s (10.5 m — 33.0 m) Stewing speed 2.6 min¹ Tall slewing radius Equipment and structure Boom type Box-shaped, 4-section hydraulically telescopic type (Boom sections 3 / 4 simultaneously operated) Jib type 2 sections (2nd section of draw-out type, 3-step inc (offset angles 5°, 17° and 30°)) Boom extension/ retraction equipment Boom derricking/ lowering equipment Boom derricking/ lowering equipment Boom derricking/ lowering equipment Boom extension/ retraction equipment Boom derricking/ lowering equipment Boom derricking/ lowering equipment Boom derricking/ lowering equipment Boom derricking/ lowering equipment Boom extension/ retraction equipment Two hydrauric cylinders and wire ropes used toget Boom extension/ retraction equipment Driven by axial plunger type hoisting motor through built- Controlled independently by respective operating lever. Equipped with automatic brake. Stewing equipment Ball bearing type Diameter: 16 mm×Length: 180 m Diameter: 16 mm×Length: 105 m Phydraulic winch Diameter: 16 mm×Length: 105 m Diameter: 16 mm×Length: 105 m Phydraulic system Oil pump 4 section gear type Axial plunger type Control valve Slewing motor Slewing motor Slewing motor Axial plunger type Control valve 3 position 4 way double acting with integral check a control valve Cylinder Oouble acting type Oothous device, Automatic winch brake, Hydrauli ourn lock device, Automatic winch brake, Hydrauli ourn lock device, Automatic winch brake, Hydrauli ourn lock device, Control valve Phylip, Rooster sheave, Independent two winches con Irregular winding prevention device, Overhoist prevention Control valve Control valve Fly jib, Rooster sheave, Independent			95 m / min. (a	t 2nd layer)						
Auxiliary winch Diameter: 16 mm×Length: 180 m Diameter: 16 mm×Length: 105 m			(Parts of line; 1	0): 11.0 m / min. (at	4th layer)					
Boom derricking time 53 s / -3" — 80" Boom extending time 110 s (10.5 m — 33.0 m) Slewing speed 2.6 min 1 Tall slewing radius 3,395 mm Equipment and structure Boom type Box-shaped, 4-section hydraulically telescopic type (Boom sections 3 / 4 simultaneously operated) Jib type 2 sections (2nd section of draw-out type, 3-step ind (offset angles 5", 17" and 30")) Boom extension/retraction equipment Boom demicking/ lowering equipment Boom demicking/ lowering equipment Boom demicking/ lowering equipment Boom demicking/ lowering equipment Winch system Main & Auxiliary winches Slewing equipment Main & Auxiliary winches Slewing equipment Main Wire rope for hoisting motor Mail bearing type Diameter: 16 mm×Length: 180 m Diameter: 16 mm×Length: 105 m Diameter: 16 mm×Length: 105 m Diameter: 16 mm×Length: 105 m Phydraulic system Oil pump 4 section gear type Axial plunger type Control valve 3 position 4 way double acting with integral check a cylinder Cylinder Double acting type Oil reservoir capacity 420 L Safety devices ACS (Automatic crane stopper with voice alarm), Boom falling prevention device, Overhoist prevention Drum look device, Automatic winch brake, Hydrauli Drum look device, Automatic winch brake, Hydrauli Outrigger look device Standard equipment Ply jib, Rooster sheave, Independent two winches con Irregular winding prevention device, Winch automatic Hooks (30 ton, 3 ton), Full size fedner. Large size steps, 3 working lights, Moment limiter with Winch drum turning indicator, Outrigger sheet, Ciger I Cab floor mat. Tool kit Optional equipment	(winch up)	winch): 95.0 m / min. (at 2	2nd layer)					
Boom extending time										
Slewing speed 2.6 min¹ Tail slewing radius 3.395 mm Equipment and structure Boom type Box-shaped, 4-section hydraulically telescopic type (Boom sections 3 / 4 simultaneously operated) Jib type 2 sections (2nd section of draw-out type, 3-step ind (offset angles 5°, 17° and 30°)) Boom extension/ retraction equipment Boom derricking/ lowering equipment Winch system Whin a Auxiliary winches Slewing equipment Main & Auxiliary winches Slewing equipment Main winch hoisting Diameter: 16 mm×Length: 180 m Diameter: 16 mm×Length: 105 m Hydraulic system Oil pump 4 section gear type Hydraulic motor Axial plunger type Slewing motor Axial plunger type Control valve 2 specified a position 4 way double acting with integral check a Cylinder Double acting type Oil reservoir capacity 420 L Safety devices ACS (Automatic crane stopper with voice alarm), Boom falling prevention device, Overhoist prevention Drum look device, Automatic winch brake, Hydraulid Drum look device, Automatic winch brake, Hydraulid Drum look device, Automatic winch brake, Hydraulid Undrigger look device Standard equipment Fly jib, Rooster sheave, Independent two winches con Irregular winding prevention device, Overhoist prevention Hooks (30 ton, 3 ton), Full size fender. Large size steps, 3 working lights, Moment limiter with Winch drum turning indicator, Outrigger sheet, Ciger I Cab floor mat. Tool kit Optional equipment	Boom derricking time		53 s / -3° — 80°							
Tail slewing radius Says mm Equipment and structure Boom type Box-shaped, 4-section hydraulically telescopic type (Boom sections 3 / 4 simultaneously operated) Jib type 2 sections (2nd section of draw-out type, 3-step inc (offset angles 5°, 17° and 30°)) Boom extension/ retraction equipment Boom dericking/ lowering equipment Winch system Main & Auxiliary winches Slewing equipment Wire rope for hoisting Wire rope for hoisting Diameter: 16 mm×Length: 180 m Hydraulic system Oil pump 4 section gear type Hydraulic motor Slewing Axial plunger type Axial plunger type Axial plunger type Axial plunger type Oil reservoir capacity Avail proper type Action 4 way double acting with integral check a cylinder of direct acting type with pressure-compensated flow control valve Phydraulic motor Slewing Axial plunger type Axial plunger type Oil reservoir capacity Action 4 way double acting with integral check a cylinder Double acting type Oil reservoir capacity ACS (Automatic crane stopper with voice alarm), Boom falling prevention device, Overhoist prevention Drum lock device, Automatic winch brake, Hydraulic Drum lock device, Automatic winch brake, Hydraulic Hooks (30 ton, 3 ton), Full size fender, Large size steps, 3 working lights, Moment limiter with Winch drum turning indicator, Outrigger sheet, Cigar I Cab floor mat, Tool kit Optional equipment										
Decipies and structure Boom type Box-shaped, 4-section hydraulically telescopic type (Boom sections 3 / 4 simultaneously operated) Jib type 2 sections (2nd section of draw-out type, 3-step inc (offset angles 5°, 17° and 30°)) Boom extension/ retraction equipment Boom derricking/ lowering equipment Winch system Main & Auxiliary winches Slewing equipment Wire rope for winch hoisting Miliary winch Diameter: 16 mm×Length: 180 m Windh Hoisting Hydraulic system Oil pump 4 section gear type Axial plunger type Axial plunger type Main winch Belli bearing type Axial plunger type Axial plunger type Control valve Oil reservoir capacity Axial plunger type Axial plunger type Axial plunger type Axial plunger type Control valve Cylinder Double acting type Axial plunger type Axial plunger type Axial plunger type Control valve Cylinder Control valve Axial plunger type Axial plunger type Axial plunger type Axial plunger type Control valve Cylinder Control valve Slewing Axial plunger type Axial plunger type Axial plunger type Axial plunger type Control valve Slewing Axial plunger type Axial plunger type Control valve Cylinder Control valve Slewing Axial plunger type Axial plunger type Control valve Slewing Axial plunger type Axial plunger type Axial plunger type Slewing Axial plunger type Axial plunger type Slewing Axial plunger type Axial plunger type Axial plunger type Control valve Axial plunger type Slewing Axial plunger type Axial plu										
Boom type Box-shaped, 4-section hydraulically telescopic type (Boom sections 3 / 4 simultaneously operated) Jib type 2 sections (2nd section of draw-out type, 3-step inc (offset angles 5°, 17° and 30°)) Boom extension/ retraction equipment Boom derricking/ lowering equipment Winch system Main & Auxiliary winches Stewing equipment Wire rope for winch hoisting Wire rope for Auxiliary winches Stewing equipment Wire rope for More Minch Hoisting Auxiliary Winch Ball bearing type Diameter: 16 mm×Length: 180 m Diameter: 16 mm×Length: 105 m Hydraulic system Oil pump 4 section gear type Hoisting motor Slewing motor Slewing motor Slewing Main winch hoisting motor through built-controlled independently by respective operating lever. Equipped with automatic brake. Diameter: 16 mm×Length: 180 m Main winch hoisting biameter: 16 mm×Length: 105 m Hydraulic system Oil pump 4 section gear type Axial plunger type Control valve Slewing motor Slewing motor Axial plunger type Control valve Oil reservoir capacity 420 L Safety devices ACS (Automatic crane stopper with voice alarm), Boom falling prevention device, Overhoist prevention Drum lock device, Automatic winch brake, Hydrauli Orum ger lock device Standard equipment Fly jib, Rooster sheave, Independent two winches con Irregular winding prevention device, Winch automatic Hooks (30 ton, 3 ton), Full size fender, Large size steps, 3 working lights, Moment limiter with Winch drum turning indicator, Outrigger sheet, Cigar I Cab floor mat, Tool kit Optional equipment										
Boom sections 3 / 4 simultaneously operated	Equipmen	t and str	ucture							
Boom extension/ retraction equipment Boom derricking/ lowering equipment Boom derricking/ lowering equipment Boom derricking/ lowering equipment Winch system Winch system Winch system Winch system Main & Auxiliary winches Slewing equipment Main Wire rope for hoisting Winch Auxiliary Winch Auxiliary Winch Ball bearing type Diameter: 16 mm×Length: 180 m Diameter: 16 mm×Length: 105 m Phydraulic system Oil pump Axial plunger type Hoisting Axial plunger type Axial plunger type Control valve Oil reservoir capacity ACS (Automatic crane stopper with voice alarm), Boom falling prevention device, Overhoist prevention Drum lock device, Automatic winch brake, Hydrauli Drum lock device, Independent two winches con Iregular winding prevention device, Winch automatic Hooks (30 ton, 3 ton), Full size fender. Large size steps, 3 working lights, Moment limiter with Winch drum turning indicator, Outrigger sheet, Ciger i Cab floor mat, Tool kit	Boom type		Box-shaped, 4- (Boom sections	section hydraulically 3 / 4 simultaneously	telescopic type y operated)					
retraction equipment Boom demicking/ lowering equipment Winch system Main & Auxiliary winches Slewing equipment Wire rope for hoisting One hydraulic cylinder of direct acting type with pressure-compensated flow control valve Ball bearing type hoisting motor through built-Controlled independently by respective operating lever. Equipped with automatic brake. Slewing equipment Ball bearing type Ball bearing type Diameter: 16 mm×Length: 180 m Auxiliary winch Auxiliary Winch Diameter: 16 mm×Length: 105 m Hydraulic motor Slewing motor Slewing motor Slewing motor Slewing motor Oil reservoir capacity 420 L Safety devices ACS (Automatic crane stopper with voice alarm), Boom falling prevention device, Overhoist preventio Drum lock device, Automatic winch brake, Hydrauli Ourligger lock device Standard equipment Fly jib, Rooster sheave, Independent two winches con Irregular winding prevention diduce, Outrigger sheet, Cigar I Cab floor mat, Tool kit Optional equipment			2 sections (2nd (offset angles 5	section of draw-out °,17° and 30°))	type, 3-step inclination type					
pressure-compensated flow control valive	retraction equip	ment								
Main & Auxiliary winches Slewing equipment Ball bearing type Diameter: 16 mm×Length: 180 m Auxiliary winch Auxiliary Winch Auxiliary Winch Auxiliary Ball bearing type Diameter: 16 mm×Length: 105 m Hoisting Motor Slewing Motor Slewing Motor Slewing Motor Slewing Motor Slewing Motor Slewing Motor Auxil plunger type Control valve 3 position 4 way double acting with integral check a control valve Cylinder Double acting type Oil reservoir capacity 420 L Safety devices ACS (Automatic crane stopper with voice alarm), Boom falling prevention device, Overhoist prevention Drum lock device, Automatic winch brake, Hydrauli Outrigger lock device Standard equipment Fly jib, Rooster sheave, Independent two winches con Irregular winding prevention device, Winch automatic Hooks (30 ton, 3 ton), Full size fender, Large size steps, 3 working lights, Moment limiter with Winch drum turning indicator, Outrigger sheet, Cigar I Cab floor mat, Tool kit			pressure-compensated flow control valve							
Stewing equipment Ball bearing type Main winch Minch Diameter: 16 mm×Length: 180 m Minch Diameter: 16 mm×Length: 195 m Hydraulic system Oil pump Axial plunger type Axial plunger type Slewing Motor Control valve Slewing Motor Control valve Oil reservoir capacity Axial plunger type Axial plunger type Oil reservoir capacity Axial plunger type Axial plunger type Control valve Axial plunger type Axial plunger type Control valve Axial plunger type Axial plunger type Axial plunger type Control valve Axial plunger type Axial plunger typ		y winches	Controlled independently by respective operating lever.							
Wire rope for hoisting Winch Auxiliary winch Auxiliary winch Diameter: 16 mm×Length: 105 m Hydraulic system Oil pump	Slewing equipn	nent								
Auxiliary winch Hydraulic system Oil pump Hoisting Mail plunger type Hoisting Mail plunger type Axial plunger type Axial plunger type Control valve Slewing Motor Cylinder Double acting type Oil reservoir capacity 420 L Safety devices ACS (Automatic crane stopper with voice alarm), Boom falling prevention device, Overhoist prevention Drum lock device, Automatic winch brake, Hydrauli Outrigger lock device Standard equipment Fly jib, Rooster sheave, Independent two winches con Irregular winding prevention device, Winch automatic Hooks (30 ton, 3 ton), Full size fender, Large size steps, 3 working lights, Moment limiter with Winch drum urming indicator, Outrigger sheet, Cigar I Cab floor mat, Tool kit		Main								
Oil pump Hydraulic motor Slewing motor Slewing motor Axial plunger type Axial plunger type Control valve 3 position 4 way double acting with integral check a Cylinder Oouble acting type Oil reservoir capacity 420 L Safety devices ACS (Automatic crane stopper with voice alarm), Boom falling prevention device, Overhoist prevention Drum look device, Automatic winch brake, Hydrauli Outrigger look device Standard equipment Fly jib, Rooster sheave, Independent two winches con Irregular winding prevention device, Winch automatic Hooks (30 ton, 3 ton), Full size fender, Large size steps, 3 working lights, Moment limiter with Winch drum turning indicator, Outrigger sheet, Ciger I Cab floor mat, Tool kit			Diameter: 16 mm×Length: 105 m							
Oil pump Hydraulic motor Slewing motor Slewing motor Axial plunger type Axial plunger type Control valve 3 position 4 way double acting with integral check a Cylinder Oouble acting type Oil reservoir capacity 420 L Safety devices ACS (Automatic crane stopper with voice alarm), Boom falling prevention device, Overhoist prevention Drum look device, Automatic winch brake, Hydrauli Outrigger look device Standard equipment Fly jib, Rooster sheave, Independent two winches con Irregular winding prevention device, Winch automatic Hooks (30 ton, 3 ton), Full size fender, Large size steps, 3 working lights, Moment limiter with Winch drum turning indicator, Outrigger sheet, Ciger I Cab floor mat, Tool kit	Hydraulic		de la companya de la							
Hydraulic motor Hydraulic motor Slewing motor Axial plunger type Control valve 3 position 4 way double acting with integral check a Cylinder Double acting type Oil reservoir capacity 420 L Safety devices ACS (Automatic crane stopper with voice alarm), Boom falling prevention device, Overhoist prevention Drum look device, Automatic winch brake, Hydrauli Outrigger look device Standard equipment Fly jib, Rooster sheave, Independent two winches con Irregular winding prevention device, Winch automatic Hooks (30 ton, 3 ton), Full size fender, Large size steps, 3 working lights, Moment limiter with Winch drum turning indicator, Outrigger sheet, Ciger I Cab floor mat, Tool kit			4 section near type							
Axial plunger type Control valve Slewing motor Axial plunger type Control valve Jouble acting type Oil reservoir capacity ACS (Automatic crane stopper with voice alarm), Boom falling prevention device, Overhoist prevention Drum lock device, Automatic winch brake, Hydrauli Outrigger lock device Standard equipment Fly jib, Rooster sheave, Independent two winches con Irregular winding prevention device, Winch automatic Hooks (30 ton, 3 ton), Full size fender, Large size steps, 3 working lights, Moment limiter with Winch drum turning indicator, Outrigger sheet, Cigar I Cab floor mat, Tool kit	*									
Cylinder Double acting type Oil reservoir capacity 420 L Safety devices ACS (Automatic crane stopper with voice alarm), Boom falling prevention device, Overhoist preventio Drum look device, Automatic winch brake, Hydrauli Outrigger lock device Standard equipment Fly jib, Rooster sheave, Independent two winches con Irregular winding prevention device, Winch automatic Hooks (30 ton, 3 ton), Full size fender, Large size steps, 3 working lights, Moment limiter with Winch drum turning indicator, Outrigger sheet, Cigar I Cab floor mat, Tool kit			Axial plunger ty	pe						
Cylinder Double acting type Oil reservoir capacity 420 L Safety devices ACS (Automatic crane stopper with voice alarm), Boom falling prevention device, Overhoist preventio Drum look device, Automatic winch brake, Hydrauli Outrigger lock device Standard equipment Fly jib, Rooster sheave, Independent two winches con Irregular winding prevention device, Winch automatic Hooks (30 ton, 3 ton), Full size fender, Large size steps, 3 working lights, Moment limiter with Winch drum turning indicator, Outrigger sheet, Cigar I Cab floor mat, Tool kit	Control valve		3 position 4 wa	y double acting with	integral check and relief valve					
Oil reservoir capacity 420 L Safety devices ACS (Automatic crane stopper with voice alarm), Boom falling prevention device, Overhoist preventio Drum look device, Automatic winch brake, Hydrauli Outrigger lock device Standard equipment Fly jib, Rooster sheave, Independent two winches con Irregular winding prevention device, Winch automatic Hooks (30 ton, 3 ton), Full size fender, Large size steps, 3 working lights, Moment limiter with Winch drum turning indicator, Outrigger sheet, Cigar I Cab floor mat, Tool kit										
ACS (Automatic crane stopper with voice alarm), Boom falling prevention device, Overhoist preventio Drum look device, Automatic winch brake, Hydrauli Outrigger lock device Standard equipment Fly jib, Rooster sheave, Independent two winches con Irregular winding prevention device, Winch automatic Hooks (30 ton, 3 ton), Full size fender, Large size steps, 3 working lights, Moment limiter with Winch drum turning indicator, Outrigger sheet, Cigar I Cab floor mat, Tool kit	Oil reservoir ca	pacity								
ACS (Automatic crane stopper with voice alarm), Boom falling prevention device, Overhoist preventio Drum lock device, Automatic winch brake, Hydrauli Outrigger lock device Standard equipment Fly jib, Rooster sheave, Independent two winches con Irregular winding prevention device, Winch automatic Hooks (30 ton, 3 ton), Full size fender, Large size steps, 3 working lights, Moment limiter with Winch drum turning indicator, Outrigger sheet, Cigar I Cab floor mat, Tool kit	Safety dev	rices								
Fly jib, Rooster sheave, Independent two winches con Irregular winding prevention device, Winch automatic Hooks (30 ton, 3 ton), Full size fender. Large size steps, 3 working lights, Moment limiter with Winch drum turning indicator, Outrigger sheet, Ciger I Cab floor mat, Tool kit			Boom falling pro Drum lock devi	evention device, Ove ce, Automatic winch	erhoist prevention device,					
Fly jib, Rooster sheave, Independent two winches con Irregular winding prevention device, Winch automatic Hooks (30 ton, 3 ton), Full size fender. Large size steps, 3 working lights, Moment limiter with Winch drum turning indicator, Outrigger sheet, Ciger I Cab floor mat, Tool kit	Standard	equipme								
Optional equipment		7-7-	Fly jib, Rooster s Irregular winding Hooks (30 ton, 3 Large size steps Winch drum turn	g prevention device, V 8 ton), Full size fende s, 3 working lights, Mo ning indicator, Outrigg	Vinch automatic brake, or, oment limiter with voice alarm,					
	Optional e	quipmen								
Winch over-unwinding device, Front jack, Hydraulic		1	_	winding device. From	t jack, Hydraulic oil cooler					

Maker and mo	odel	FAW CA5320JQZ						
Specifica	ition							
Maximum trav	-	70 km/h						
Gradeability (t		29 % (computed at G.V.W. = 30900 kg)						
Minimum turning radius (center of extreme outer tire)		11.0 m						
● General o	dimension	ns .						
Overall length		approx. 12,580 mm						
Overall width		approx. 2,500 mm						
Overall height	71.711 (10.27) (70.27)	approx. 3,880 mm						
Wheel base		5,825 mm (4,475 mm+1,350 mm)						
	Front	2,071 mm						
Treads	Rear	1,847 mm						
	Type	Hydraulic H-beam type (with float and vertical cylinder in single un						
Outriggers	Extended	6,100 mm (Fully extended)						
	outriggers	4,100 mm (Intermediately extended)						
	Gross weight	approx 30,900 kg						
Gross machine weight	Front weight	approx. 6,950 kg						
× .	Rear weight	approx. 23,950 kg						
Engine								
Model		CA6DL1-28 (EURO-II)						
Туре		4 cycle, turbo charged, direct injection water cooled, diesel						
Piston displac	ement	7.7 L						
Max. power		206 kW / 2,300 min ⁻¹						
Max. torque		1,100 N·m / 1,600 min ⁻¹						
Equipme	nt and str	ucture						
Drive system		6×4						
Clutch		Single dry plate, hydraulic control with air booster						
Transmission		Manual transmission type						
Number of spe	eeds	8 forward & 1 reverse speed						
Axles	Front	Reverse "ELLIOT" type						
ANIGS	Rear	Full floating type with hub reduction						
	Front	Leaf springs with shock absorber						
Suspension	Rear	Equalizer beams and torque rods with leaf springs (with lockout device)						
	Service	2 circuit air brake, 6 wheels internal expanding type						
Brakes	Parking Emergency	Spring loaded brake 4 rear wheels, variable air operated						
	Auxiliary	Exhaust brake						
Steering	Туре	Ball nut type with power booster						
_	Front	11.00R20-16 PR						
Tire size Rear (dual tire)		11.00R20-16 PR						
		300 L						
Fuel tank capa	acity							
Seating capac		2 persons						
Seating capac	ity	2 persons (12 V — 6-QAW-180)×2						

operate it correctly.

• KATO products and specifications are subject to improvements and changes without notice.

10.5 m — 33.0 m Boom

				ack - 360° ful nt jack - over s		rear		
Working	10.5 m	14.2 m	18 m	21.7 m	25.5 m	29.2 m	33 m	
radius(m)	Boom	Boom	Boom	Boom	Boom	Boom	Boom	
2.5	30.00	20.00	16.00					
3.0	30.00	20.00	16.00					
3.5	25.40	20.00	16.00	12.00			Property Company	
4.0	22.90	20.00	16.00	12.00	11.50	or many commenced		
4.5	21.00	20.00	16.00	12.00	11.50			
5.0	19.40	18.40	16.00	12.00	11.50	9.00		
6.0	16.20	15.30	13.70	12.00	11.50	9.00	7.00	
7.0	13.70	12.65	11.95	11.00	10.00	9.00	7.00	
8.0	11.15	10.65	10.55	10.20	8.90	8.20	7.00	
8.5	10.25	9.70	9.65	9.65	8.45	7.80	6.60	
9.0		8.80	8.80	9.20	8.05	7.45	6.25	
10.0		7.30	7.15	7.65	7.30	6.75	5.70	
12.0		5.10	4.95	5.40	5.65	5.65	4.80	
12.5		4.70	4.55	5.05	5.25	5.45	4.55	
13.0			4.20	4.65	4.90	5.05	4.45	
14.0			3.55	4.00	4.25	4.40	4.10	
16.0			2.55	2.95	3.20	3.40	3.50	
18.0				2.20	2.45	2.65	2.80	
20.0				1.65	1.85	2.05	2.20	
22.0					1.40	1.60	1.70	
24.0						1.20	1.35	
26.0						0.90	1.00	
27.5						0.70	0.85	
29.0							0.65	
31.0							0.45	
Standard hook				for 30 ton				
Hook mass				300 kg				
Parts of line	10		3	4				
Critical boom angle	_	-	_	_	_	_	_	

	range		vithout front ja nt jack - over fr				
33 m	29.2 m	25.5 m	21.7 m	18 m	14.2 m	10.5 m	Working
Boon	Boom	Boom	Boom	Boom	Boom	Boom	radius(m)
				16.00	20.00	25.00	2.5
				16.00	20.00	25.00	3.0
			12.00	16.00	20.00	25.00	3.5
		11.50	12.00	16.00	20.00	22.90	4.0
		11.50	12.00	16.00	16.20	17.35	4.5
	9.00	11.50	12.00	13.45	13.60	14.00	5.0
	9.00	11.50	12.00	11.20	11.40	11.60	5.5
7.00	9.00	10.10	10.20	9.60	9.80	10.00	6.0
7.00	9.00	9.10	8.95	8.15	8.50	8.50	6.5
7.00	8.30	8.10	7.80	7.15	7.25	7.55	7.0
7.00	7.35	7.25	6.85	6.20	6.40	6.50	7.5
5.80	5.85	5.75	5.40	4.85	4.95	5.00	8.5
5.30	5.25	5.10	4.80	4.30	4.35		9.0
4.40	4.30	4.10	3.85	3.35	3.45		10.0
3.05	2.90	2.70	2.45	1.95	2.10		12.0
2.80	2.65	2.40	2.15	1.70	1.70		12.5
2.55	2.40	2.15	1.90	1.40			13.0
2.10	1.95	1.70	1.40	0.95			14.0
1.75	1.55	1.30	1.05	0.55			15.0
1.40	1.20	1.00	0.70				16.0
1.10	0.95	0.70	0.40				17.0
0.85	0.70	0.45					18.0
0.60	0.45						19.0
0.40							20.0
			for 30 ton				Standard hook
			300 kg				Hook mass
	4	4		3	8	10	Parts of line
47°	42°	35°	25°	_	_	_	Critical coom angle

33 m Boom+8.7 m Jib 33 m Boom+14.5 m Jib

												(Unit: N	Metric tor
							rith front jack - front jack - ov			rear			
33 m Boom + 8.7 m Jib							33 m Boom + 14.5 m Jib						
	Offset 5°		Offset 17°		Offset 30°			Offset 5°		Offset 17°		Offset 30°	
Boom angle (*)	Working radius (m)	radius Load radius Load radius Load angle	Boom angle (*)	Working radius (m)	Load (t)	Working radius (m)	Load (t)	Working radius (m)	Load (t)				
80.0	8.0	3.00	9.6	2.20	11.3	1.60	80.0	9.9	2.00	12.5	1.30	15.1	0.90
76.0	11.0	3.00	12.5	2.20	14.0	1.60	77.7	12.0	2.00	14.5	1.30	16.9	0.90
74.0	12.5	2.72	14.0	2.05	15.3	1.54	76.3	13.2	1.85	15.7	1.24	18.0	0.90
70.0	15.3	2.26	16.6	1.78	18.0	1.45	72.0	16.4	1.50	19.0	1.06	21.2	0.81
66.0	18.0	1.92	19.2	1.57	20.4	1.30	68.0	19.5	1.25	22.0	0.91	24.0	0.74
62.0	20.5	1.68	21.8	1.38	22.8	1.17	64.0	22.6	1.06	24.8	0.79	26.6	0.67
58.0	23.0	1.48	24.1	1.24	25.0	1.06	60.0	25.4	0.90	27.4	0.70	29.1	0.60
56.0	24.0	1.28	25.2	1.18	26.0	1.02	56.0	28.0	0.77	29.9	0.64	31.5	0.55
54.0	25.1	1.08	26.3	1.00	27.1	0.98	52.0	30.7	0.66	32.4	0.57	33.7	0.52
50.0	27.2	0.74	28.2	0.70	29.0	0.67	51.0	31.2	0.61	33.0	0.55	34.2	0.51
46.0	29.2	0.47	30.1	0.44	30.7	0.43	50.4	31.6	0.57	33.3	0.52	34.5	0.50
43.0	30.6	0.30	31.5	0.30	32.0	0.30	48.0	32.9	0.45	34.5	0.40	35.6	0.38
							46.0	33.9	0.35	35.2	0.33	36.5	0.30
Standard hook		for 3 ton							for 3 ton				
Hook mass			60	kg			Hook mass			60	kg		
Parts of line			1				Parts of line			1			
Critical boom angle		40°							42°				

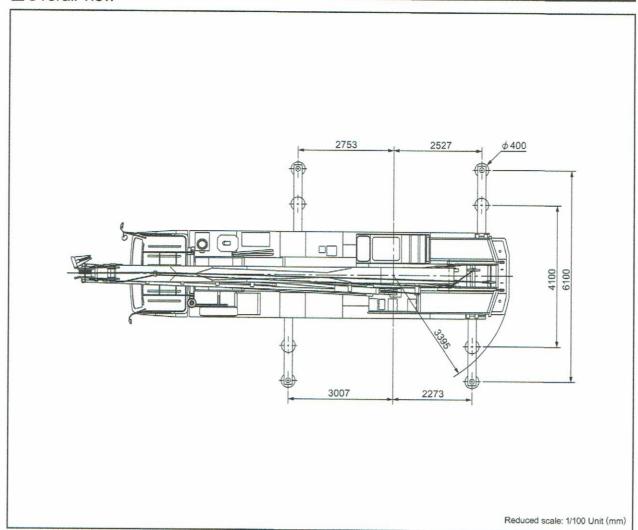
33 m Boom+8.7 m Jib 33 m Boom+14.5 m Jib

											10.00.00	(Unit : N	Metric ton
							d without front vithout front ja			ange			
	33	m Boo	m + 8.7	m Jib				33	m Boo	m + 14.5	m Jib		
Boom angle (*)	Offset 5°		Offset 17°		Offse	t 30°		Offset 5°		Offset 17°		Offset 30°	
	Working radius (m)	Load (t)	Working radius (m)	Load (t)	Working radius (m)	Load (t)	Boom angle (*)	Working radius (m)	Load (t)	Working radius (m)	Load (t)	Working radius (m)	Load (t)
80.0	8.0	3.00	9.6	2.20	11.3	1.60	80.0	9.9	2.00	12.5	1.30	15.1	0.90
76.0	11.0	3.00	12.5	2.20	14.0	1.60	77.7	12.0	2.00	14.5	1.30	16.9	0.90
72.5	13.5	2.56	15.0	1.94	16.2	1.50	76.3	13.2	1.85	15.7	1.24	18.0	0.90
71.0	14.5	2.14	16.0	1.84	17.3	1.47	73.0	15.6	1.57	18.2	1.10	20.4	0.84
70.0	15.1	1.90	16.6	1.65	18.0	1.45	69.0	18.7	1.31	21.2	0.95	23.3	0.76
68.0	16.3	1.48	17.8	1.28	19.0	1.18	68.4	19.1	1.18	21.7	0.92	23.8	0.75
65.0	18.1	0.97	19.5	0.86	20.7	0.78	67.8	19.5	1.08	22.0	0.88	24.2	0.73
60.0	21.0	0.37	22.4	0.30	23.3	0.30	64.0	22.0	0.60	24.4	0.49	26.4	0.43
							62.0	23.4	0.39	25.6	0.33	27.5	0.30
Standard hook		for 3 ton							for 3 ton				
Hook mass			60	kg			Hook mass		60 kg				
Parts of line			1				Parts of line			1			
Critical boom angle		58°								60	,		

Note: Deflection of boom and jib excluded

Height above ground (m)

Overall view



7