

**Crane Model: DEMAG AC 220-5**

**Basic crane comprising:**

**Carrier Equipment**

Engine 368-4; Euromot 4/Tier 4F	Euromot 4/Tier 4F: Scania DC13; Diesel engine; 368 kW/ 2100 1/min (500 HP), torque 2373 Nm / 1300 1/min; The engine complies with Euromot 4 / Tier 4F; incl. fuel filter heater; Exhaust system cpl. stainless steel
Fuel tank	Fuel tank 500l Diesel (no RME/ Bio-Diesel); 60l Tank for Ad Blue
Transmission AS12INT	ZF AS-Tronic; Automated gearbox with integrated hydraulic secondary retarder brake, 12 forward speeds and 2 reverse; 2-stage transfer case with switchable off-road gear
Axles 10x6x10	10x6x10; 5 axles, axles 3-5 are driven and equipped with disengage able axle-differential lock; Axle 4 with a disengage able centre-differential lock; All Axles are steered
Suspension	Hydro pneumatic suspension with axle load compensation; hydraulically lockable; Manual or automatic levelling alternatively;
Steering	Dual-circuit steering system with independent rear axle steering; axles 1, 2, 3 mechanically connected; axle 4 and 5 electro-hydraulically connected; all axles steered with 6 different steering programs
Brakes	Pneumatic dual circuit service brake, acting on all wheels; Disc brakes; Hydraulic retarder integrated into transmission as wear less, sustained-action brake; Additional exhaust brake; Parking brake according to norms
Wheels 385/95 R25 (14.00R25)	Wheels 385/95R25 (14.00R25); Steel rim 9,5-25/1,7"; TechKing ETCRANE 170F or similar
Cab Carrier 2850	S-PACE type 2,85m; Adjustable driver seat; armrests and pneumatic suspension; Co-driver's seat; Steering wheel height and tilt adjustable; Power windows; Tinted glass; Power mirrors with heater; Radio-preparation
Heating carrier	Engine-dependent warm water heating with 12kW nominal heating capacity
Driving lights	Including low beams, high beams, daytime running lights,
Tachograph	Display of the speed and analogue recording as per country-specific regulations
Outriggers	H-4-Point design; Vertical and horizontal movement fully hydraulic; Manual leveling; 4 outrigger bases of 2,75m, 5,54m, 7,0m and 8,4m
Outrigger pads 038PA	4 round outrigger pads A=0,38m <sup>2</sup> Polyamide, with transport position at vertical cylinder
Outrigger basis monitoring	Surveillance of each outrigger beam for detection of horizontal stroke; Warning in case of anomaly in Superstructure cab (Attention: There is no automatic linkage with the LMI-system)
Fire extinguisher	With holder in carrier cabin
Stowage carrier	Storage compartment, with lid, for toolbox; Side compartment between the outriggers
Electronic immobilizer system	Prevents uncontrolled carrier mobilization; Incl. 3 electronic keys
Pneumatic tire inflating plug	Pneumatic tire inflating plug for self-inflating of the wheels
Heavy-duty batteries	HD-batteries for optimal battery performance even under HD usage; Suitable for cold start
Jump starting device	Jump starting device as per NATO standards; Enabling jump start by using separate energy source
Contour safety marking	Continuous reflective strips on the sides of the chassis and in the back

Emergency roadside kit	Emergency roadside kit for crane operation and for public road access of trucks according to StVZO
Stepladder	Loose stepladder for misc. assembly work; Incl. transport storage
Rotary beacons	2x beacons on carrier cab
Illumination	2 x work lights on outriggers left, 2 x work lights on outriggers right
Painting DEMAG	Duplex basecoat, topcoat in DEMAG standard, chevron warnings in red-white
Standard acceptance	Standard acceptance test for carrier

### Superstructure Equipment

Telescopic boom HA78	12,8m - 78m; Single cylinder telescoping system, automatic telescoping; Attachments for all equipment and extensions; 4 sheaves integrated in boom head for max. capacity of 76.6t
Boom luffing	1 luffing cylinder with automatic lowering brake valve
Rotary drive	1 slewing gear unit with spring-loaded multi-disc brake; Different operating modes selectable
H1	Hoist with spring-loaded multi-disc brake; Resolver (hoist rotation indicator); incl. Rope twist prevention is not included
Hook height indication H1	Displaying and programmability of the hook height H1 by IC-1
Counterweight 51,6t	Counterweight 51,6t, 6 pieces (a-e); Expandable to max. 70,2t
Control system	Enabling 4 simultaneous working movements; electric pilot controls via 2 two-axis joysticks; different control modes selectable for hydraulic circuits
Operator aids	IC-1, with integrated load moment indicator acc. EN13000; Color display; Displaying of current operating conditions, load charts, fault indicator; Signal lights indicating LMI-load; Crane data logger
Cab superstructure 875	S-PACE Type 875; Infinitely tilt variable 16°; Sliding windows in rear; Fold-out front window; Extendable side pedestal, front pedestal; Handrails; Tinted safety glass; pull-down sun visor and light curtains; Radio-preparation
Engine-independent heating superstructure	Engine independent warm water heating with 5kW heating power
Anemometer	Disconnectable, to allow use with all extensions
Rotary beacons	2x Disconnectable on Superstructure tail
Illumination	1x work light for prefield at superstructure cab
Painting DEMAG	Duplex basecoat, topcoat in DEMAG standard, chevron warnings in red-white
Standard acceptance	Standard acceptance test for superstructure

### Standard Options:

#### Additional Equipment: Extension

822-200-31	HAV 21m	21m; Double folding swing-away jib, manual offset 20°/40°; 1-sheave head; Incl. transport storage; Not transportable with 12t axle load limit; Includes HAV 11m
	Additional Equipment: Hook Blocks	
823-020-51	Hook block 80-3-21-D-850	80-3-21-D (850kg); Hook block with Ramshorn hook; with white red signal stripes

823-020-91	Hook block 32-1-21-D-600	32-1-21-D (600kg); Hook block with Ramshorn hook; with white red signal stripes
823-021-11	Hook 12-0V-E-350	12-0V-E (350kg); Single hook; red
8211113d	Additional central sheave on main boom head	1x additional sheave on main boom head; For total 5 sheaves on boom head; Max. lifting capacity of 94.8t
	<b>Additional Equipment:</b> Carrier	
821-300-21	Axles 10x8x10	10x8x10; 5 axles, axles 2-5 are driven and equipped with disengage able axle-differential lock; Axles 3 and 4 with a disengage able center-differential lock; All Axles are steered
826-050-31	Active tire pressure monitoring system	Active system with real-time tire pressure monitoring; makes it possible to reduce tire wear.
826-120-21	Hook block storage	Left side behind carrier cab; Holds 1- or 3-sheave hook blocks; Not possible in combination with gas heating carrier
823-330-71	Rear view camera	Display in driver's cab; cameras installed on rear of vehicle
823-080-21	Central lubrication carrier	Automatic central lubrication system for the lubricating points on the chassis
826-170-21	Radio CD carrier	Radio with CD-player with USB input, Aux-In and Bluetooth® connection
823-200-21	Air-condition carrier	Air-condition for carrier cab with 7KW rated cooling capacity
826-520-21	Wheel nut indication	Wheel nut caps with arrow enable optical check of wheel nut position
826-210-21	Cruise control	Automatic speed control, automatic brake control
826-010-21	Axle load display	Axle load display on screen in the carrier cabin
8211116d	ABS with hill-start aid holder function	ABS with hill-start aid for hill starts without downhill moving
826-190-21	Fog and cornering lamps	Front fog and cornering lamps
826-150-21	Seat heating in carrier cab	Seat heating provided for driver's seat in carrier cab
	<b>Additional Equipment:</b> <b>Superstructure</b>	
823-370-21	Rope twist prevention 21 H1	Rope twist prevention for rope diameter d=21mm; Avoids rope twist hoist 1
824-140-21	Preparation for H2	Preparations on the structural steelwork and hydraulics of the basic machine for later retrofitting of H2
824-030-21	Single Xenon work floodlight	One adjustable xenon floodlight, mounted at front of boom base section
824-560-21	Positioning light	Disconnectable LED obstruction light, to allow use with all extensions
823-080-31	Central lubrication superstructure	Central lubricant distributor for luffing cylinder pins, hoist thrust bearing, slewing ring, and boom base pins
824-450-21	Radio CD superstructure cab	Radio with CD-player with USB input, Aux-In and Bluetooth® connection in superstructure cab
824-310-21	Air-condition superstructure cab	Air-condition with 5KW rated cooling capacity in Superstructure cab
826-370-21	Seat heating superstructure cab	Seat heating provided for operator's seat in superstructure cab

824-350-21	Outrigger positioning from crane cabin	Outrigger positioning from crane cabin
824-240-51	Additional counterweight 18,6t	Additional counterweight 18,6t; 2 pieces; For max. 70.2t à 8 pieces
824-330-21	Automatic counterweight rigging system	Automatic system to rig complete set of counterweight
<b>Additional Equipment: Handling</b>		
826-580-21	IC-1 Plus (Asymmetric Outrigger Positioning)	Calculation of lifting capacity subject to outrigger base and slewing angle of superstructure; Incl. Automatic counterweight detection; I. A. makes it possible to work with asymmetrically extended outriggers. Note: for HA operation only.
824-390-21	Working range limiter	Displaying and programmability of the work range limits by IC-1
822-910-21	Fall-from-height protection system for Counterweight	Fall down protection at the counterweight ; Note: Required for Netherland
824-340-51	Emergency lowering system HY	Hydraulic interface on crane in accordance with BG (German employers' liability insurance association requirements) in case of engine failure; Makes it possible luffing, hoisting and slewing (no movements which increases the load); Emergency lowering System transformer not included; Optional emergency lowering System transformer required if not available; Can be worked via optional Power Pack 8kW or assist crane with hydraulic interface; Attention: Should not be offered together with Emergency override HY; Note: Incl. Donor Interface

**Special Options:**

**Special Equipment: Wheels**

821-401-21	Wheels 445/95 R25 (16.00R25)	Wheels 445/95R25 (16.00R25); Steel rim 11-25/1,7"; TechKing ETGC 174F; or similar instead of TechKing ETCRANE 170F or similar 385/95 (14.00R25)
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**Special Equipment: Diverse**

826-140-21	Refinery Kit	Electric emergency stop device and intake air shut off valves; Emergency engine shutdown prevents over speed of engine in environments with flammable gas or vapor
826-480-31	Jumper cable NATO-Clamp 5m	5m long jumper cable NATO-plug & battery clamp, adequate for use with any external power supply e.g. batteries

**Special Equipment: Optics**

8211161d	Painting TEREX (Instead of DEMAG)	Duplex basecoat, topcoat in TEREX standard instead of DEMAG standard, chevron warnings in red-white
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