

ROAD RAIL ACCESS BASKET SKYRAILER 16 XR/R



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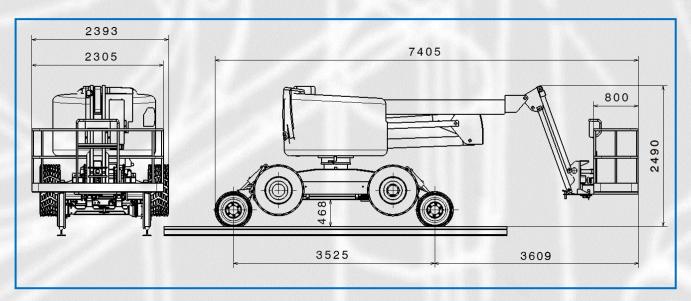
1 - Technical description of the SKYRAILER 16 XR/R

The SKYRAILER 16 XR/R has been developed by NEOTEC from the HAULOTTE HA16 standard access platform. The railway adaptation has been done in close co-operation with the *HAULOTTE* technical department.

This concept benefits from 8 years experience gained by NEOTEC with the similar adaptation based on the HAULOTTE 12 series.

The NEOTEC HI-RAIL EPV 10.25 axles ensure safe operation under all railhead conditions and for on-tracking and travelling. This hydraulic transmission provides the operator with superb feel and accurate control while moving the machine in working or travelling mode.

Considering the working envelope and the weight, the concept of the SKYRAILER 16 XR/R provides an extremely compact access solution.



This machine is designed to be compliant with the following standards:

- **EN280**
- NFF58.002
- RIS 1530 PLT (issue 02)
- EC DIRECTIVE 2006/42

1.1 - Data and performances of the chassis

The chassis strictly conforms to the original HAULOTTE unit so the manufacturer's warranty is maintained and available throughout Europe allowing the customer to use the services provided by the manufacturer's maintenance network.

DEUTZ D2011 L03 Engine 30.9 kW. Power Hydraulic transmission Variable displacement: 45 cm³ / 275 Bars Fuel tank 55 L Hydraulic tank 100 L Electrical circuit voltage 12 V Gross weight

Date 29/07/2011

9 500 Kg

 Emergency activation mode 	Electric pump
 Hydrostatic railway axles 	One driven – Two with brakes
 Wheel diameter 	580 mm – with rubber sweeps
 Twisted track control 	One oscillating axle – hydraulic locks
 Maximum gradient capability 	35‰
 Maximum speed on road 	6 km/h
 Maximum speed on rails in travelling mode 	10 mph
 Maximum speed on rails in working mode 	5 km/h
 Free rotation of the boom while machine is trav 	relling on rail (*) +/- 30°
 Maximum rail track cant 	up to 200 mm
 Minimum rail track curve radius 	80 m
 Maximum wind speed authorized for operation 	45 km/h
 Braking distance at maximum speed on flat trad 	ck and dry rails 20 m

1.2 - Performances of the access basket on rail track

Boom movement is controlled through proportional valves which allow any combination between arms, jib actuations and/or turret slewing.

DANFOSS valves ensure easy and accurate actuation providing safe operation.

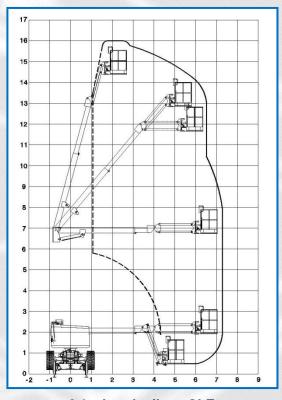
-	Standard basket dimensions		1.80 x 0.80 m
-	Basket lifting capacity		310 kg / 2 persons
-	Turret slewing angle of rotation		350°
-	Basket slewing angle		180°
_	Telescopic arm lifting travel		From 0° to + 75°
-	Articulated jib travel		From -70° to $+70^{\circ}$
-	Maximum floor lifting height on tyres		14.1 m
_	Maximum floor lifting height on rails		14.3 m
_	Maximum static Payload managed by ELC (**)	310 kg	cant up to 150 mm
		280 kg	cant up to 180 mm
		250 kg	cant up to 200 mm

The command post installed in the basket controls all road and rail modes.

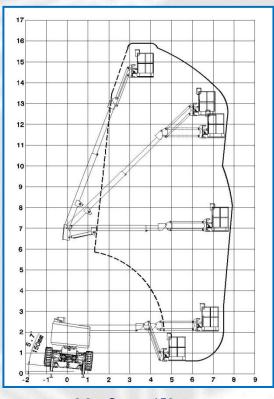
- In railway mode all the events are recorded in a data logger actuated by key
- Travelling speed is automatically engaged when the boom is folded in the resting position
- Working speed is engaged as soon as any boom function commences
- Dead man pedal inhibits all functions when released
- (*) The angle of rotation will be confirmed after final VAB tests
- (**) ELC: Electronic Load Controller



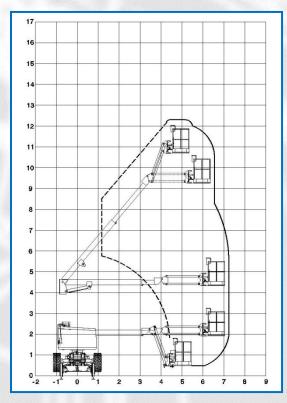
2 - SKYRAILER 16 XR/R Working diagrams



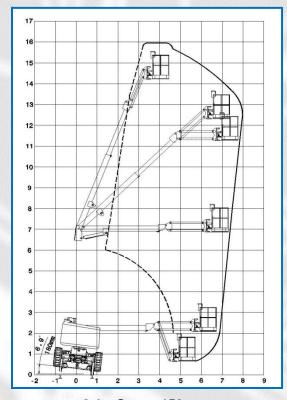
2.1 - Level rail, no OLE



2.3 - Cant < 150 mm



2.2 - Level rail under existing OLE



2.4 - Cant > 150 mm

Note: Travelling at working speed is possible while the kinematic is limited by ELC in configuration 2.2 and only when the turret angle is inside +/- 30° from the track line (*this value will be confirmed after the final VAB test*)