NEW PRODUCT

Mobile Elevating Working Platform

“ISOLI PT 230”

on

NISSAN F24.35 wb 2900 mm

Courtesy of Crane.Market

MAIN NEW FEATURE AND IMPROVEMENT

PERFORMANCE

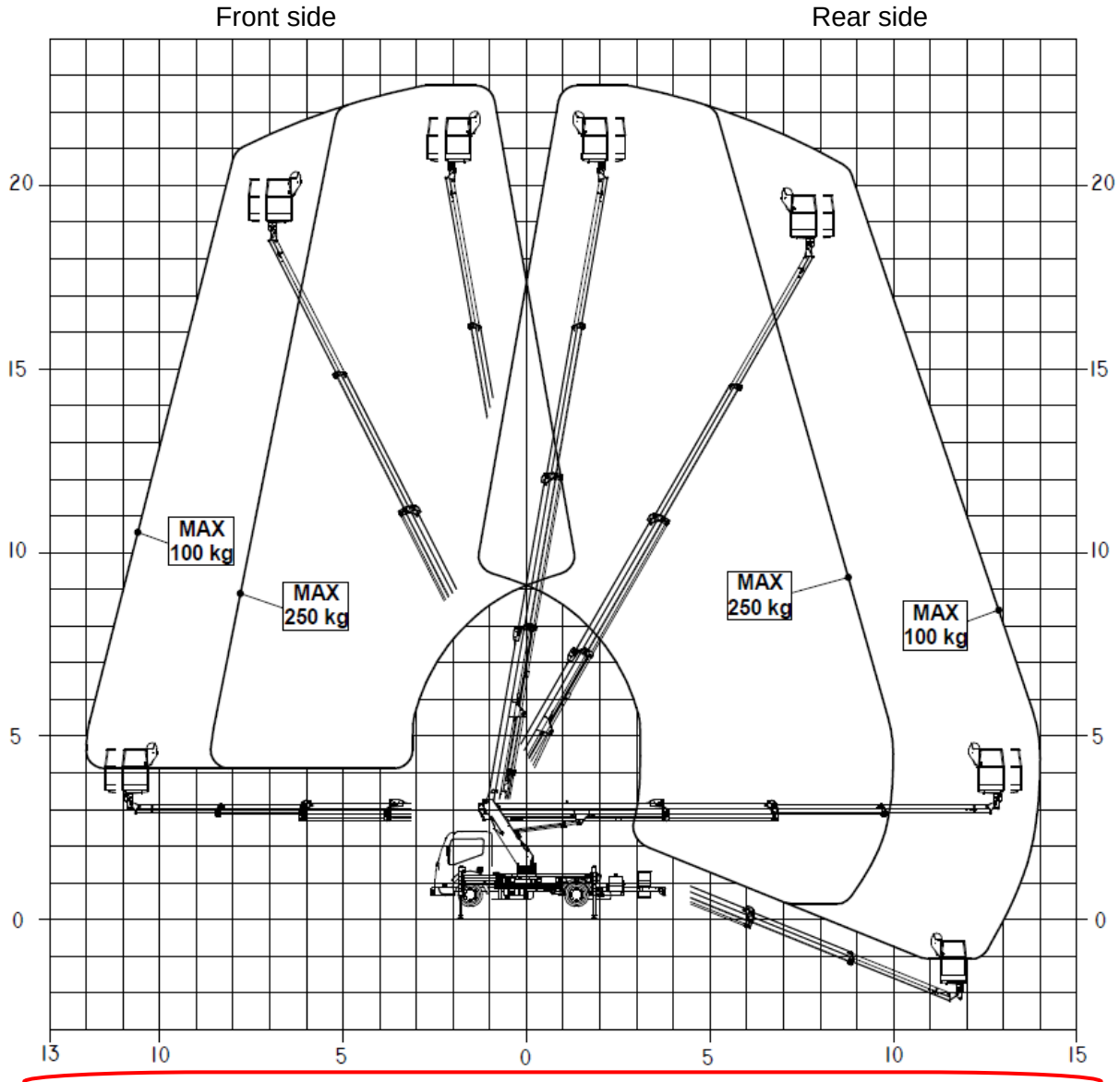
High payload in the basket

- Max payload : 250 kg

Increased working area and more flexibility thanks to 4 stabilization mode that allows to work, also with beams completely retracted, at the max outreach and max height with basket load up to 250 kg

- Max working height: 22,6 m
- Max working outreach:
  - 14,0 m with 100 kg
  - 10,0 m with 250 kg
- Turret slewing angle: 400°

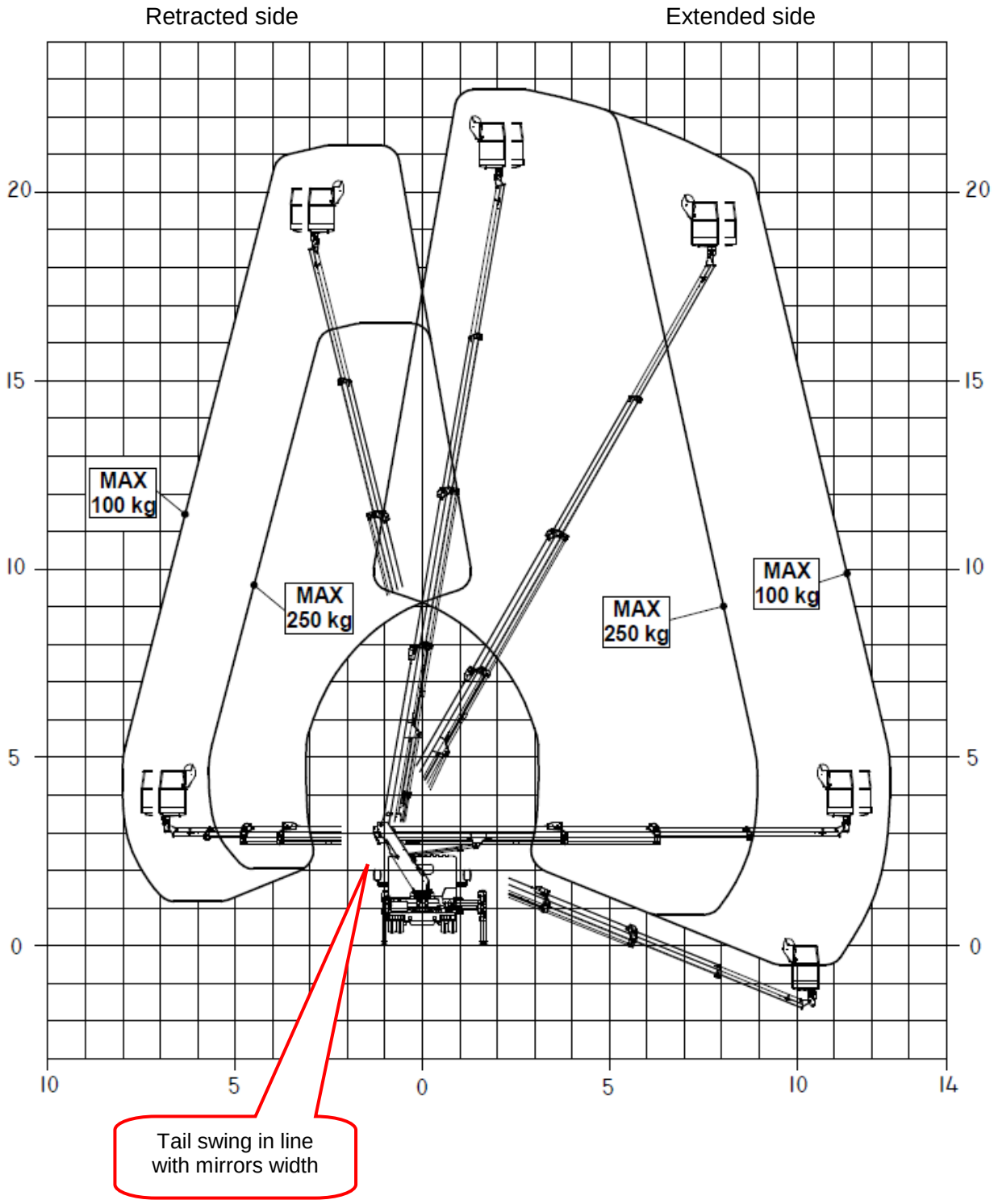
Working area with both beams extended



With different payloads, performance are interpolated between indicated working areas

Courtesy of Crane.Market

Working area with beams extended on one side only



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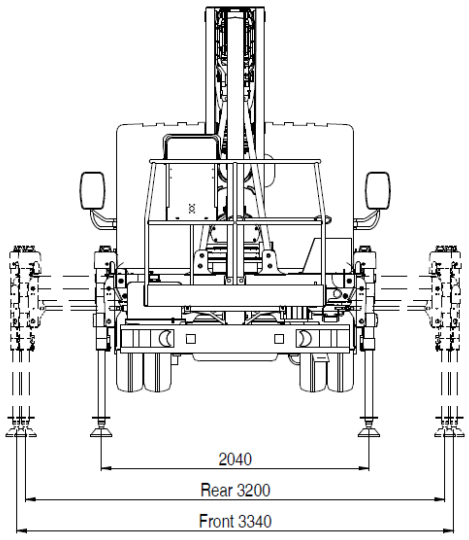
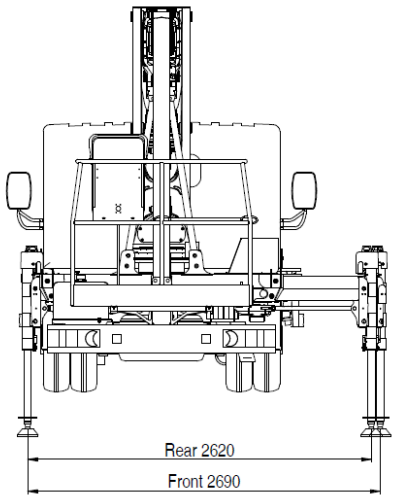
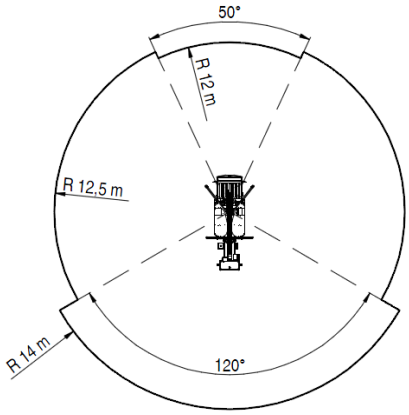
4 STABILIZATION MODE



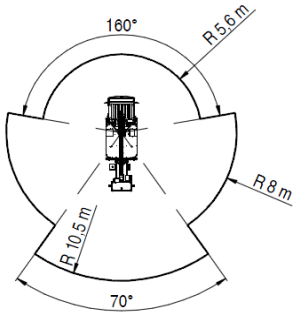
Beams extended on both sides



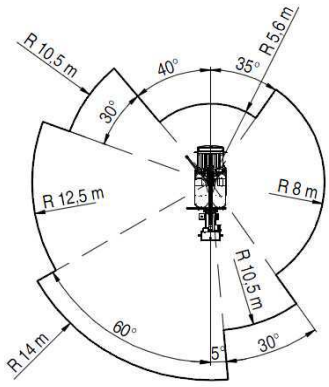
Beams retracted in shape on both sides

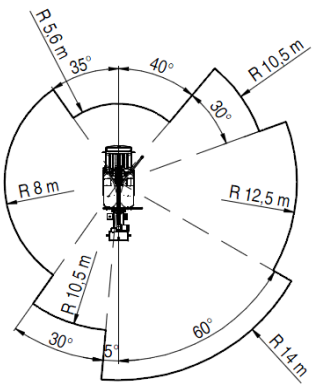


Beams extended on left side only



Beams extended on right side only



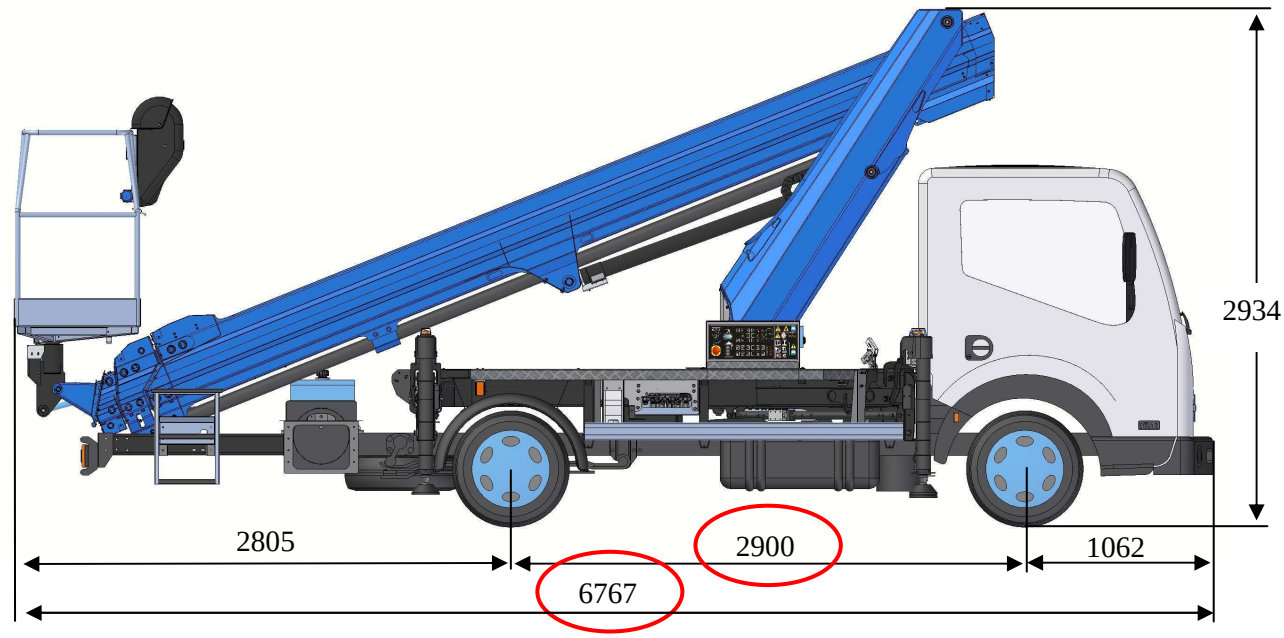


Courtesy of Crane.Market

DIMENSIONS AND GEOMETRICAL ASPECTS

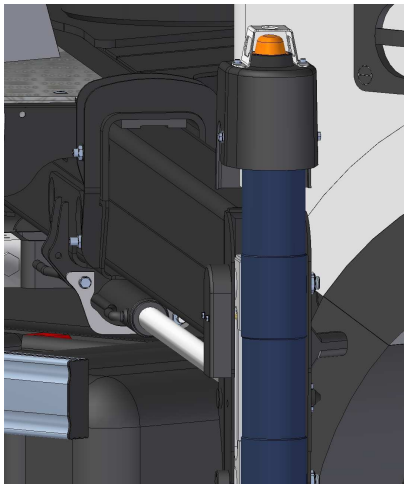
Dimensions in driving condition

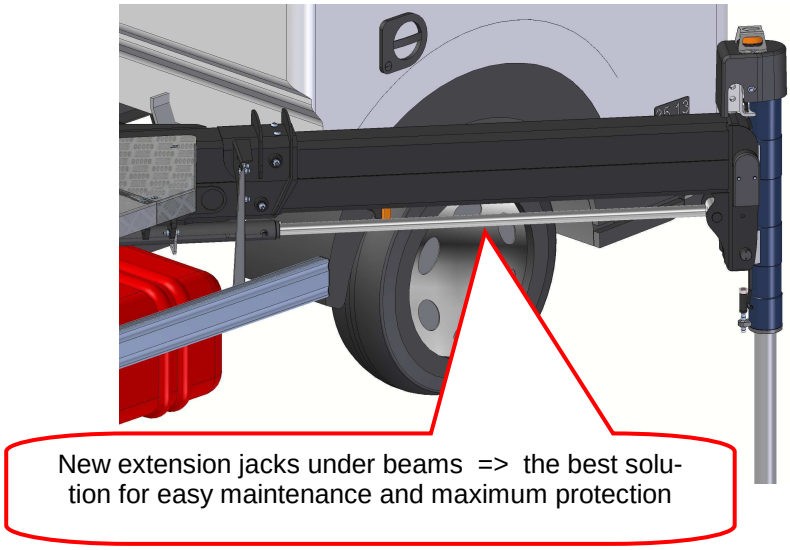
- Installed on wb 2900 for weight distribution optimization.
- Thanks to new 4 sections boom, total length has been kept approximately within 6750 mm



New solutions for subframe and stabilizers:

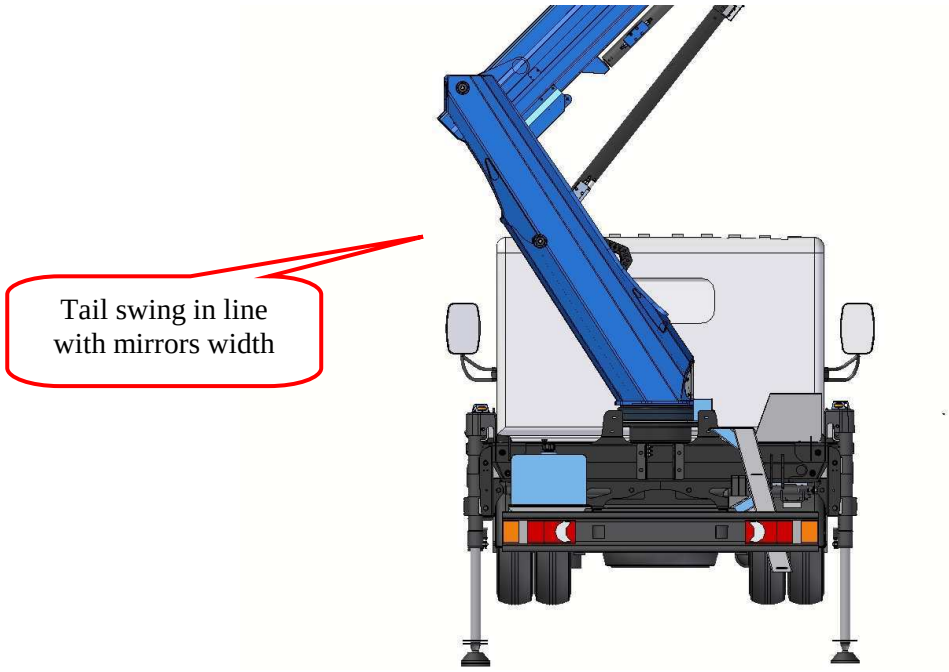
- New subframe design to reduce weight and at the same time increase torsional stiffness.
- Front and rear horizontal beams are hydraulically operated; extension jacks have been installed under the beams so to allow easy maintenance and at the same time maximum protection both in driving and basket operations.
- Stabilizers vertical extra stroke: 170 mm





New slewing turret.

- New design: lighter and stronger.
- Tail swing in line with mirrors width.



New telescopic boom:

- New boom profile with increased stiffness and reduced weight.
- Hoses, cables and sensors inside the boom.
- Front brushes for debris protection.
- Special low friction wear pads for smooth movements.
- New wear pads layout for maximum guide and alignment of telescopic elements.

ISOLI S.p.A. via Boschi, 44 – Fontaniva (PD) tel. 049/9438611 – Fax. 049/9438600 – e-mail isoli@isoli.com

Courtesy of Crane.Market

CONTROLS AND OPERATOR INTERFACE

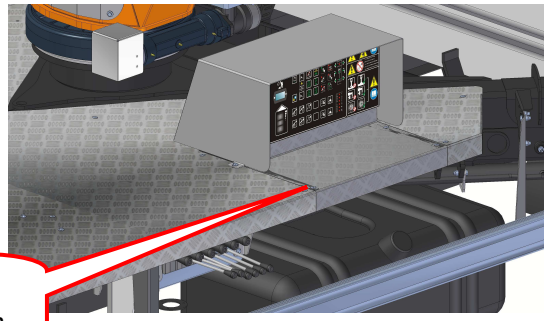
In the vehicle cab

- Manual engagement of the PTO with lamp of PTO engaged.
- Red pilot lamp and buzzer that warns about stabilizers or boom not in driving condition.

Lower control

It is installed above the subframe platform so to have the following advantages:

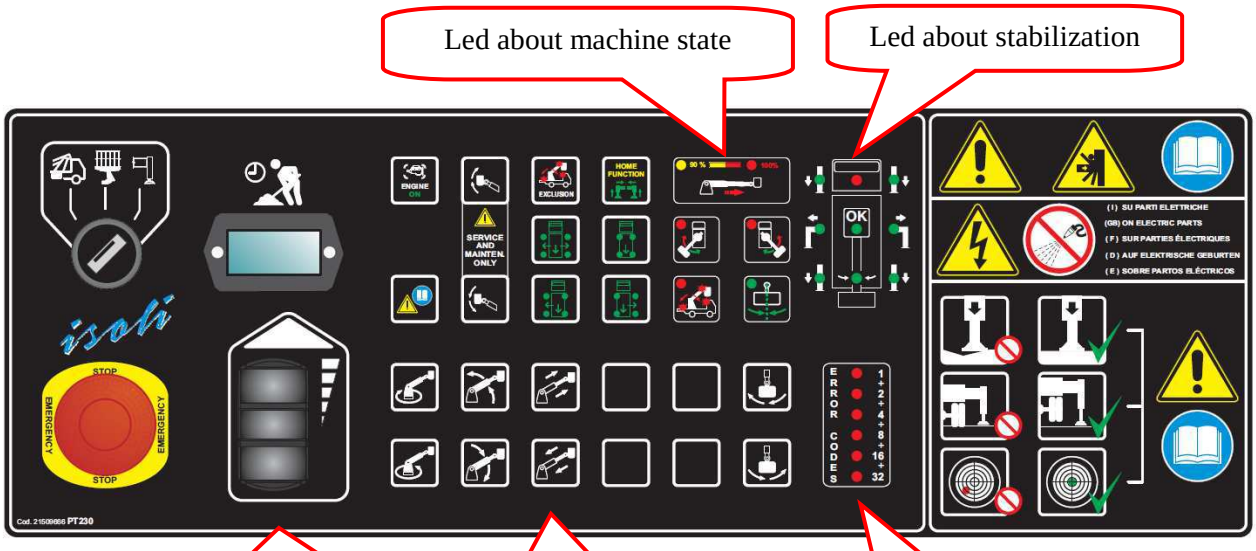
- Easier and more comfortable use.
- Better protection during driving.
- Same level of protection when basket is in use thanks to aluminium cover.



Lower control installed above subframe platform

Lower control is based on new concept already successfully introduced on new PNT210JD4

- New graphics.
- Control unit automotive type.
- Proportional control of the movements with joystick.
- Basket leveling manual adjustment with boom in specific condition (for service only).
- Button for safe emergency movements in case of basket forced under obstacles.
- Automatic stabilization (optional).
- Home Function (optional).
- Led about stabilization.
- Led about machine state.
- Diagnostic led.



Courtesy of Crane.Market

Basket control

It is based on new concept already successfully introduced on new PNT210JD4:

- New CAN-BUS control panel designed in co-operation with AUTEC.
- New graphics.
- Joysticks with proportional control and simultaneous movements.
- Acceleration / deceleration ramps controlled by control unit.
- Button for safe emergency movements in case of basket forced under obstacles.
- Automatic stabilization levers (optional function)
- Home function (optional)
- Led about stabilization and chassis angle.
- Led about machine state.
- Diagnostic led.

Operator helps

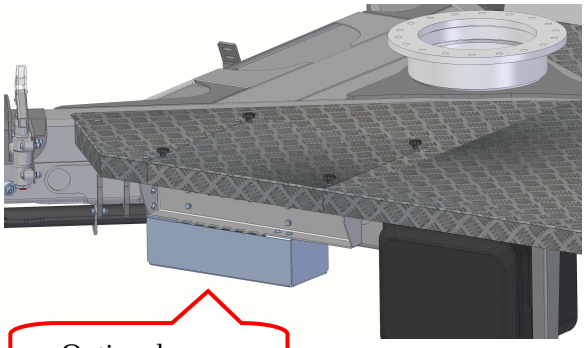
- Anti-collision system between front stabilizers and cabin open door.
- Anti-collision system between upper structure and cabin / front stabilizers.
- Anti-collision between upper structure and rear bumper / stabilizers.
- Anti-collision system between basket and boom.
- Semi-automatic turret centering with green led for turret aligned in stow position.
- Semi-automatic basket centering with green led for basket aligned in stow position.
- Information about moment sensing system.

Courtesy of Crane.Market

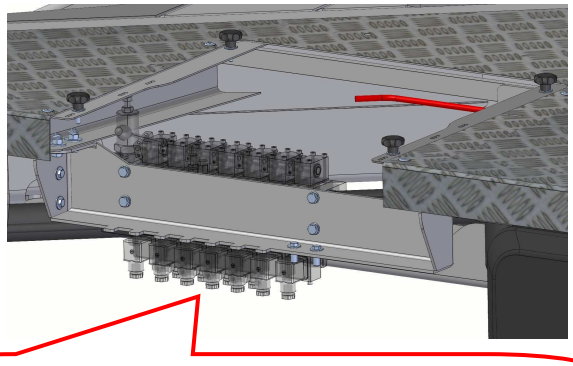
Main upper structure hydraulic group and control

All the functions and movements of upper structure are controlled by a fully proportional hydraulic group supplied by well known German manufacturer HAWE.

Each main movements, included electronic basket leveling, is controlled by its own proportional directional spool valve according to the Load-Sensing principle. With this solution all the movements can be carried out simultaneously, at different independent speeds as long as the sum of partial flows is within total delivery flow rate of the pump; engine rpm management, controlled by main CPU according to required movements, allows to increase total flow rate when necessary.



Optional cover



New fully proportional hydraulic group by HAWE: for simultaneous and smooth movements.

MAIN OPTIONALS

Cover

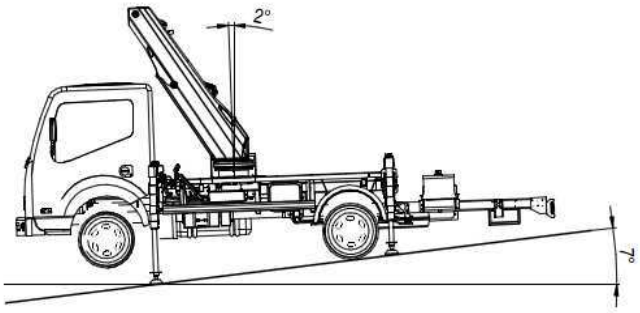
- aluminium cover for hydraulic groups on the subframe.

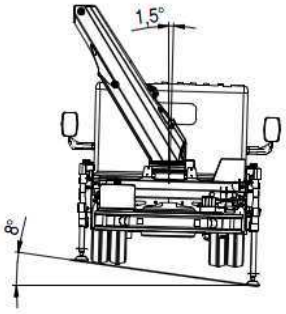
Commands

- PTO electric engaged with automatic disengagement when clutch pedal is pressed.
- Automatic stabilization both from basket and lower control.
- HOME FUNCTION with fully automatic return to stow position.

FAST stabilization (with automatic stabilization only)

- it allows to use the machine, with reduced working area and/or basket payload, only with stabilizers on the ground (therefore with no need to lift the wheels) and with an increased allowed chassis angle: up to +/-1,5° transv ersal and +/-2° longitudinal; this stabilization mode is quicker and allows to use the machine on ground slope up to 8° (additional special footplate and/or additional measure against machine slip are required in case of ground slope up to 8°).





DIMENSIONS, PERFORMANCE AND TECHNICAL DATA SUMMARY

PT 230 **PERFORMANCE AND TECHNICAL DATA (Tolerance: +/- 5%)**	
MAIN FEATURE	**on NISSAN wb 2900** dwg n°21606036
Max working height	22,6 m
Max outreach	14,0 m with 100 kg on rear sector 12,5 m with 100 kg on side sector 12,0 m with 100 kg on front sector
Max payload	250 kg
Number of operators	2
Max manual force	40 daN
Max wind speed	12,5 m/s
Boom:	Telescopic 4 sections
Boom angle	-22°/ 78°
Turret slewing angle	400°
Basket	Aluminium 1400x710x1100 mm / optional in fiberglass with performance reduction
Basket rotation	Hydraulic 90°RH + 90°LH
Basket leveling	Hydraulic, automatic electronic control
Outriggers	HE - HE
Outriggers minimum width	with beams retracted in the shape : 2,04 m extended on one side only: front 2,69 m / rear 2,62 m extended on both side : front 3,34 m / rear 3,20 m
Controls:	Electro-hydraulic, fully proportional : one proportional valve for each main movement
Dimensions in driving condition L x H x W	6767 x 2934 x 2200 mm
Minimum installation :	GVW 3500 kg

WEIGHT DISTRIBUTION [kg] (Tolerance +/- 5%)			
	on NISSAN wb 2900		
	Total	**Front**	**Rear**
NISSAN F24.35 wb 2900 mm	1660	1160	500
ISOLI PT 230 with subframe HE-HE			
COUNTERWEIGHT	0	0	0
TOTAL			
GVW	3500	1750	2200

Courtesy of Crane.Market