

260TJ - 280TJ

Telescopic Boom 260 TJ - 280 TJ

Experience and Innovation at the service of the operator

- Accessibility
- Rough Terrain Ability
 - Performance
 - Simplicity



260 - 280 TJ (Telescopic Jib)

260 TJ+

(with Jib only)

Working height: 26.00m

Outreach: 19.45m



280 TJ

(with telescopic jib)

Working height: 28.00m

Outreach: 21.45m





TECHNICAL CHARACTERISTICS

 Working height:
 26 m
 27,78 m

 plateform height:
 24 m
 25,78 m

 Outreach:
 19,45 m
 21,45 m

 SWL
 400 kg
 350 kg / 240

 (Plein abaque)
 (Pouble abaque)

Occupancy
Basket dimensions

Overall width
Overall length
Overall length (folded for transport)
Height
Height (folded for transport)

Engine

Gradeability

Wheels

Weight

19,45 m 21,45 m 400 kg 350 kg / 240 kg (Plein abaque) (Double abaque) 3 3/2 2,30 x 0,90 m

2,42 m 10,81 m 7,90 m 2,32 m 2,85 m 2,85 m

Kubota V2403 - 45 cv Euro III A (35,8 kW - 45 CV)

36,50% 36,50%

20" SOLIDEAL

16400 kg 16600 kg

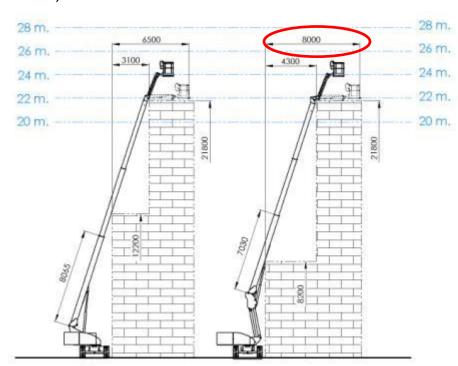




ACCESSIBILITY

Boom architecture

- ✓ Allow to have more reach working close to a building
- ✓ Quicker elevation time
- ✓ More compacte machine
- ✓ The load center of the machine beeing closer to front, less counterweight is needed (700kg less than HA28TJ+ et S85)





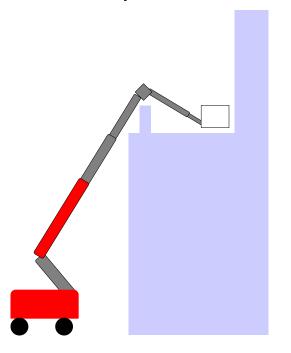
- ❖ BEST WORKING ZONE
- ❖ MORE PRODUCTIVITY

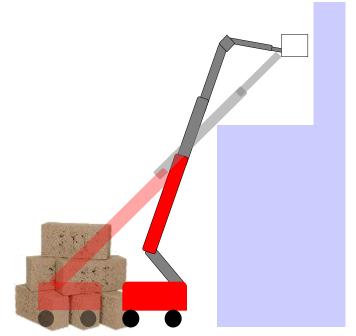


- ❖ BETTER ROUGH TERRAIN ABILITY
- **SEASY TO TRANPORT**



Telescopic Jib for 280TJ







❖ POSSIBILITY TO WORK IN NEGATIVE



❖ POSSIBILITY TO ACCESS PLACES NOT REACH WITH NORMAL TELESCOPIC BOOMS



❖WORK CLOSER TO A BUILDING IN CONGESTED BUILDING SITES



•A much smaller overall length than competition





Remote truck loading folding (Only in April 2012)





COMPACTNESS

4 wheel Drive(the only one)



✓ Front wheel steer: « rabit » speed



✓ 4 wheel steer: two « turtle » speeds

Arms longitudinal: average speed

Reduction of speed when the arm is laterally positionned



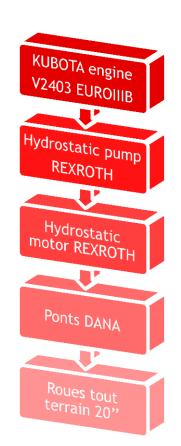


✓ Crab steer: allow to come close to building site



We take what's made the success of ATJ

=>Transmission identical to ATJs, same known components



- √Same engine as 200ATJ
- ✓ Managment of engine REVS depending on hydraulic demand
- ✓ Variable piston pump (56cc):+25% compare to 200ATJ
- ✓ Fixed capacity motor (125cc): +15% compare to 200ATJ
- √ 2 axles
- ✓ Limited slip on front axle
- ✓ Differential lock on back axle
- √Ground clearance = TBA
- ✓ Oscillating axle
- ✓ Rough terrain wheels

- LESS CONSUMPTION
- **❖** LESS NOISE
- ❖OPTIMIZATION OF ENGINE POWER (No Euro IIIB)



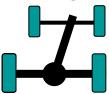
❖IDENTICAL PERFOMANCE AS ATJs



ROUGH TERRAIN ABILITY

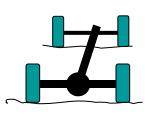
RIGID CHASSIS

Rough Terrain, transport mode



3 or 4 wheels can be in contact

Rough Terrain, working mode



The machine has to be stopped on a flat ground in order to have a good stability during the lifting operations.



On unlevelled ground according to the position of the center of gravity the machine could be not stable enough or fall down.



ROUGH TERRAIN ABILITY

OSCILLATING AXLE

Rough Terrain, transport mode



When driving the free axle is moving accordingly to the ground levels.

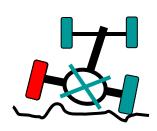
The 4 wheels are in contact on the ground

Rough Terrain, working mode



Machine stopped, when lifting mouvements starts (working mode) the axle is blocked and gives rigidness to the chassis.

The 4 wheels are still in contacton the ground



When driving in working mode on unleveled ground

The axle is still blocked and one of the wheels will not be anymore in contact on the ground



PERFORMANCE - CAPACITY

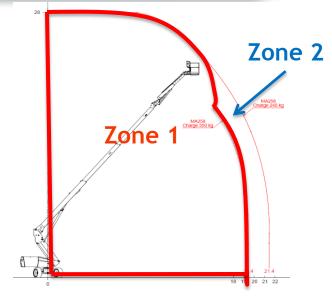
Double load chart (280TJ)

- ✓ Double SWL 350kg / 240kg including 3 persons
- ✓ No need to choose manually the load capacity before using the machine (on HA28TJ+, the selection between 230Kg/2 pers. and 350Kg/3pers. Is done manually)



- **❖** BETTER PRODUCTIVITY
- ❖TRANSPARENCE AND SECURITY FOR USERS





- LED is orange:
 - -Load inside the basket is >240kg
 - -Zone 2 is a No Go zone
 - LED is flashing orange:
 - -The operator is in zone 2
- La LED is red:
 - -Load is over the max. SWL
 - >240kg if operator is in zone 2
 - >350kg if operator is in zone 1



High Capacity (260TJ+)

- ✓ High capacity overall the load chart
- ✓ Identical decals as ATJ

LARGE BASKET (2.30mx0.90m)

✓ Identical basket as 160ATJ+ (2 lateral entries and 1 frontal entry)







PERFORMANCE - MOVEMENTS

An electronic management of the engine rpm allow to optimize the pressure and flow needed for single or simultaneous movements

√ Faster single movements

√4 simultaneous movements:

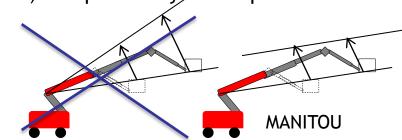
Boom up/down
Boom in/out
Turret rotation
Jib up/down

✓ Allow a basket speed (and then operator speed) independantly of the position

of it (MANITOU patent)

Boom fuly in raising speed: 40s Boom fuly out raising speed: 70s

Turret rotation (1/4) with boom fuly in: 30s Turret rotation (1/4) with boom fuly out: 50s





❖ SMOOTHNESS OF MOVEMENTS, COMFORT AND SECURITY FOR OPERATORS



PERFORMANCE - MOVEMENTS

XY MOVEMENTS

- √The electronic management of the movements allow to combine boom up/down and boom out/in to have horizontal and vertical movements in space by pushing « X-Y CONTROL » push button—
- ✓ Ideal for jobs allong vertical or horizontal wall / face of building
- ✓2 angle sensors along the boom but the management of the boom length is done with magnetic contacts along the boom (MANITOU Patent)





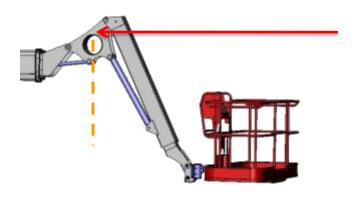
❖ INCREASE OF PRODUCTIVITY



PERFORMANCE - MOVEMENTS

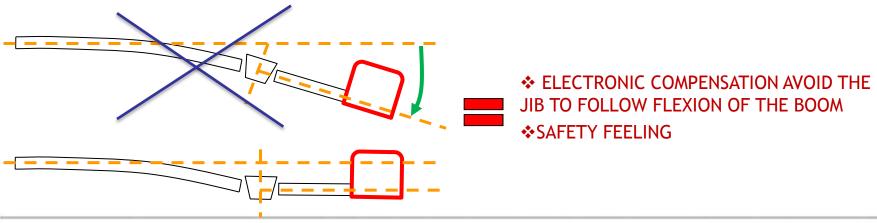
Electronic compensation

√The jib is electronically compensated



- •The connection part should always keep its perpandicularity with the ground
- •An electronic system correct possible defaults
- •In case of a drift, a RESET of compensation is necessary (see next slide procedure)
- •The compensation is not operationnal during machine driving

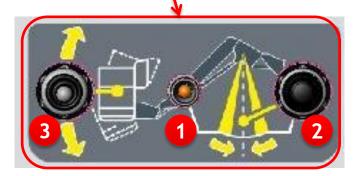
√The basket is hydraulically compensated





RESET of electronic compensation





If a drift of compensation happens (or after a truck loading folding

- 1 斄 LED flicked orange and a beep inform the operator
 - -Levelling of basket is not possibel
 - A RESET of Jib compensation is necessary
- An action on RESET button is necessary until LED 1 stop flicking
- The levelling of basket is now possible



SIMPLICITY

Top and ground control box easy to use*

- ✓ Identical components as ATJs « HYDEQUIP »
- ✓ Same logic and symbols as ATJ





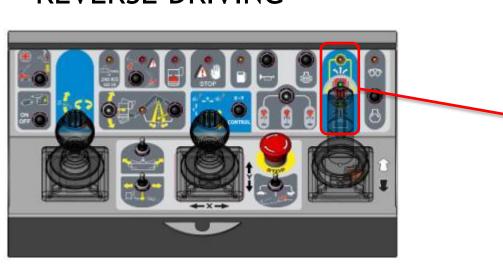


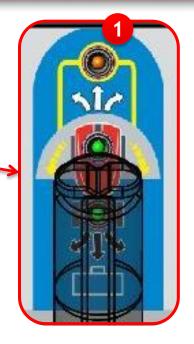
❖ QUICK UNDERSTANDING, QUICK OPERATION

^{*} Note that the control panels are identical to 26A TJ+ and 280 TJ, some functions are not available on 260TJ+ certaine fonctions ne seront pas disponibles sur 260TJ+ (ie: telescope of jib out...)









- ✓ When the turret is more than 90° with the chassi, LED 1 light up Red
- √The acceleration ramp increase to inform the operator that the boom is in the
- « normal » direction indicated by the joystick



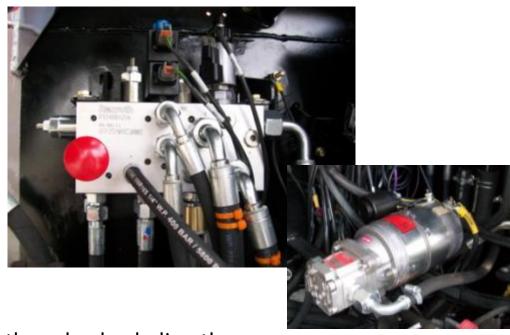
❖ SAFETY FOR OPERATOR



SIMPLICITY

EMERGENCY PROCEDURE





- ✓ Use of electric pump and action on the valve bank directly
- ✓ Most of our competitors use the buttons of ground control box (what to do if it is faulty???)





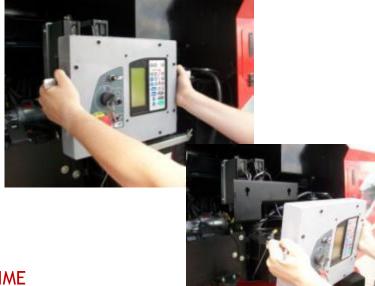
MAINTENANCE

- ✓ Swing out engine for a better eccessibility to components
- √ Hydraulic components easy accessible
- √Same suppliers as ATJ
 - -KUBOTA Engine
 - -REXROTH pump
 - -DANA axles
 - -HYDEQUIP
 - -DANFOSS valve blocks....

« CAN-BUS » TROUBLE SHOOTING

- ✓ HYDEQUIP
- ✓ Improvement of the trouble shooting to guide the technicians through default origins







- **❖ SIMPLIFICATION OF TECHNICIAN LIFE**
- * REDUCTION OF TROUBLE SHOOTING AND DOWN TIME



SIMPLICITY

IN HOUSE OPTIONS

- ✓ Possibility with user code to add/remove options such as:
 - -Beep all movements
 - -automatic re-alignment of wheels
 - -rental horameter
 - -levelling of basket ON/OFF
 - -Usage repaort of the machine (rental usage)

...



