

Mini crawler

12 VXE

 IHIMER





12 VXE



WALKAROUND MACHINE

The Mini crawler

Operating Weight 1,26 ton

Net power 9,6 kW

Width 0,87-1,13 m

(200 mm shoes)

By CLAUDIO MARINI

THOMER 12VXE



**Wide as a "10" ...
...digs as a "15"**

THE PLUS BY COSTRUZIONI

- **SKIPS THE GATES (87 CM), WEIGHS 1.2 TONS, AND STAYS ON A 3.5 TONS VAN, BUT DIGS LIKE A GREATER MINI**
- **DIGS AT 2 M DEPTH, WITH EXCEPTIONAL BREAKOUT AND DIGGING FORCES (1,200 DAN; 800 DAN)**
- **A TRUE "ZERO TAIL" TO WORK IN TIGHT QUARTERS WITHOUT WORRYING ABOUT THE BACK**
- **VARIABLE DISPLACEMENT PUMPS WITH ENERGY RECOVERY AND ANTISHOCK VALVES**
- **TWO SPEEDS (4 KM/H) AND STRAIGHT TRAVEL WHEN DOZING**
- **AUTOMATIC SWING BRAKE AND 46 CM DIAMETER SWING GEAR, THE SAME USED ON THE 19VXE**
- **PARALLEL RADIATORS WITH A 29 CM WIDE SUCTION FAN**
- **14 CM DOUBLE FLANGE ROLLERS, VARIABLE TRACK GAUGE 0,87/1,13 M ("TUBULAR SYSTEM") AND LONG BLADE OUTREACH FOR EXCELLENT STABILITY**
- **PATENTED BOOM, AND OFFSET TO BETTER SEE INTO THE EXCAVATION**
- **WEAR-RESISTANT "HARDENED" IDLER AND SPROCKET**
- **PILOT CONTROLS ON SIDE CONSOLES, ADJUSTABLE WRIST REST, BOTH SIDES ACCESS AND ROOMY PLATFORM (BOOM SWING WITH MANIPULATOR) FOR A COMFORTABLE RIDE EVEN TO "LARGE SIZES"**
- **A 9,4 kW POWERFULL YANMAR MINIMAX ENGINE, EASY ACCESSIBLE TROUGH THE FULL TILTABLE SEAT**
- **RUST/CONDENSATION PROOF PLASTIC TANKS, "MODULAR" PIPES, PROTECTED INSIDE THE BOOM AND ROTARY DISTRIBUTOR BOTTOM PROTECTION PLATE**

THIMER 12VXE

87 cm

SKIPS THE GATES





Full turn within 1,84 m, without worrying about the back

DIGS AT 2,01 M DEPTH...

...with record forces: 800 DaN at the dipperstick
1.210 DaN at the bucket

- The cylinder above the boom (it's protected and improves the excavation depth)



2 TRAVEL SPEEDS (4 KM/H)

■ Straight travel when dozing





■ Weighs 1,2 ton...
...but digs as a
bigger Mini



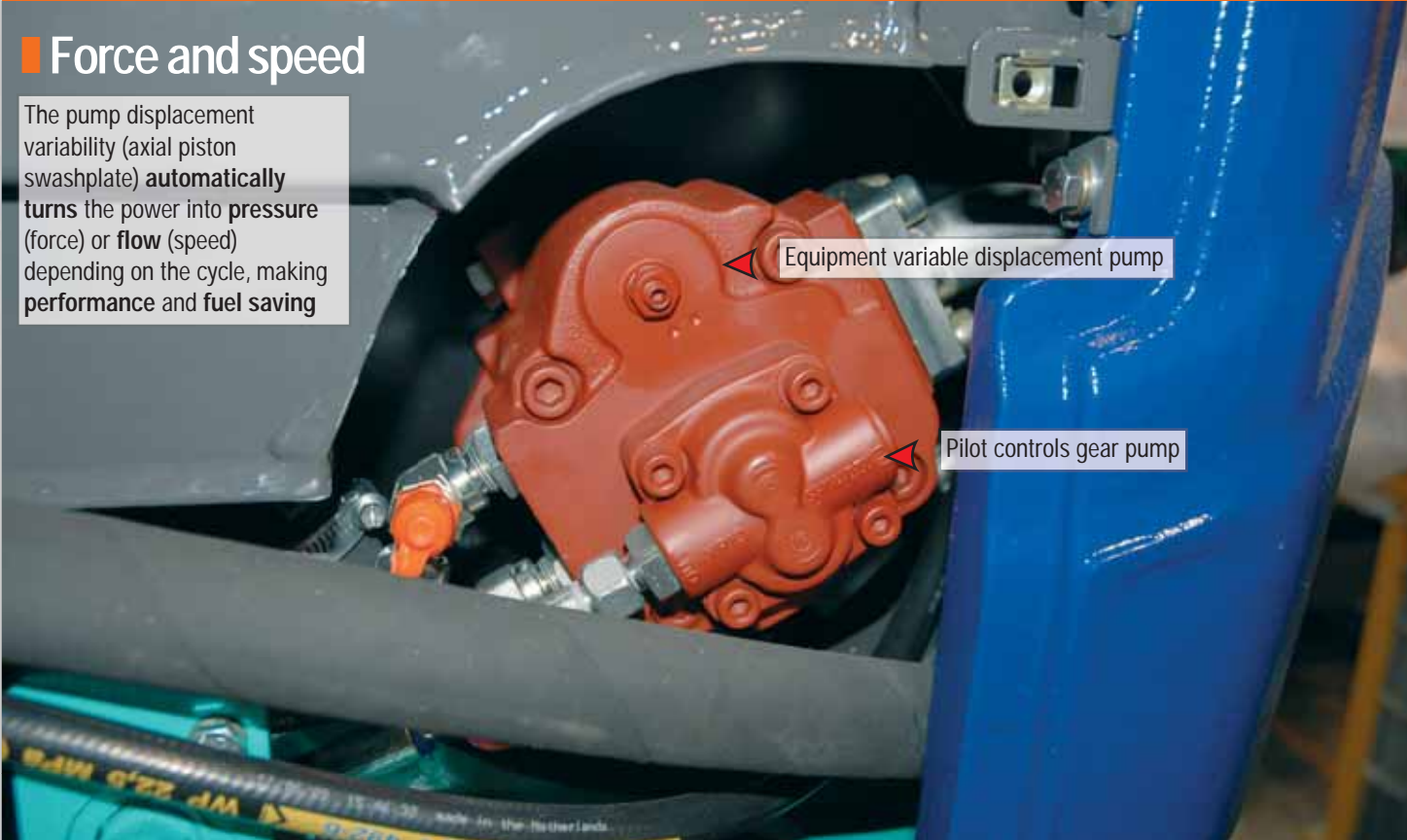


STAYS ON A 3,5 TON VAN

VARIABLE DISPLACEMENT PUMP

Force and speed

The pump displacement variability (axial piston swashplate) **automatically** turns the power into **pressure** (force) or **flow** (speed) depending on the cycle, making **performance and fuel saving**

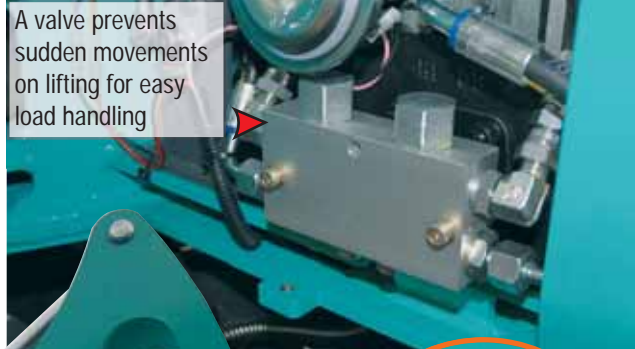


Equipment variable displacement pump

Pilot controls gear pump

Precise lifting with "antishock" valve

Dipper stick energy recovery for equal speed of opening and closing



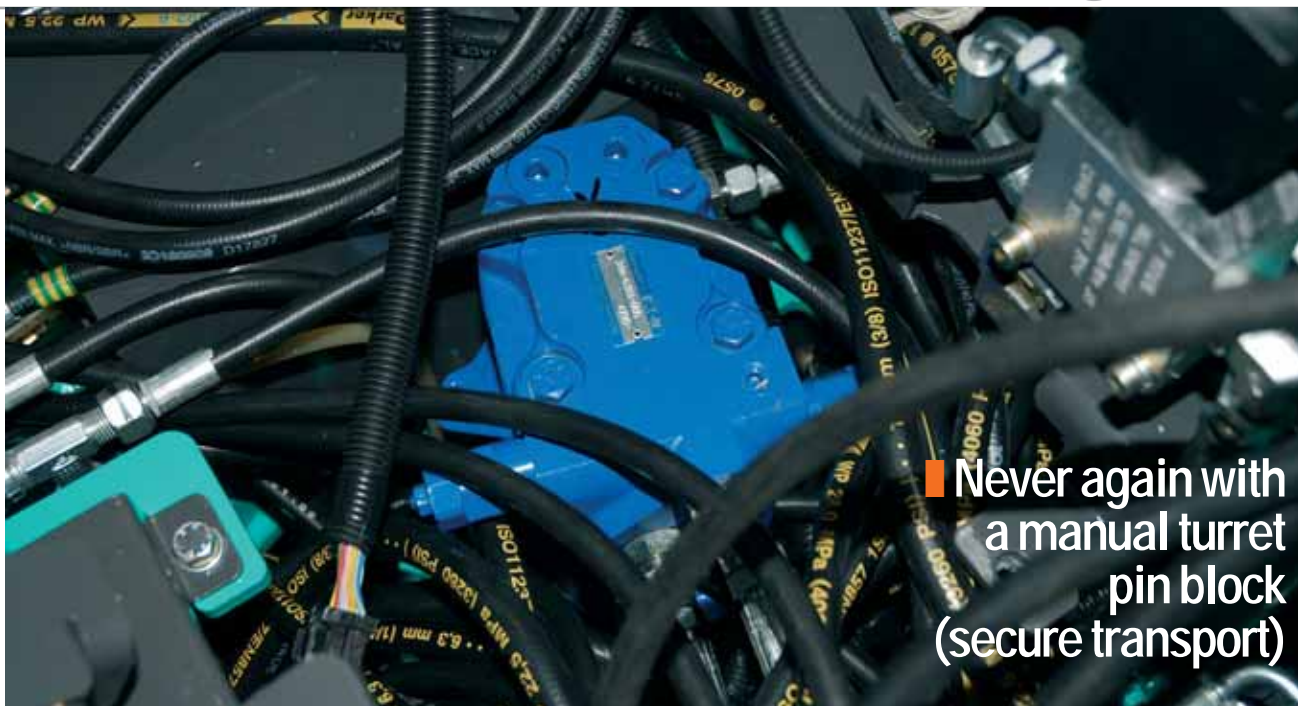
A valve prevents sudden movements on lifting for easy load handling

Oil output from the side of the dipper stick cylinder rod is **recycled** at the entrance to equal the speed of opening and closing movements



Diverter valve for auxiliary "one or two-way" function (With open return to the tank to avoid backpressure to the accessory)





■ Never again with a manual turret pin block (secure transport)

AUTOMATIC SWING BRAKE

■ "Parallel" radiators, with a 29 cm big suction fan





VARIABLE GAUGE FROM 0,87 TO 1,13 M

- "Tubular" system to optimize the coupling of the variable gauge
- The same swing gear used on the 19 VXT (1,8 ton) (reliability)

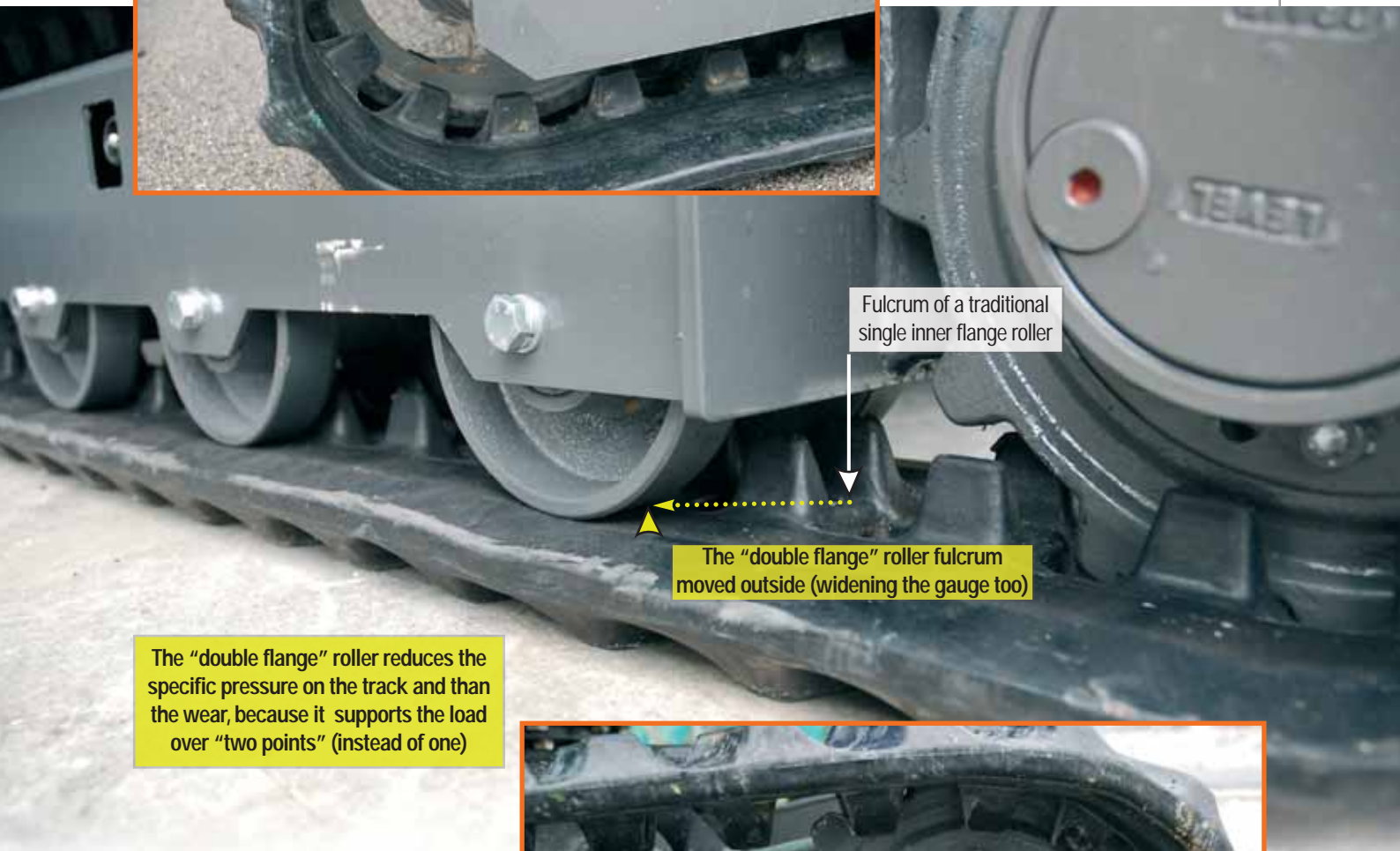
"PATENTED" BOOM DESIGN



STABLE AND DURABLE UNDERCARRIAGE



■ Idler and sprocket
“hardened”



Fulcrum of a traditional
single inner flange roller

The “double flange” roller fulcrum
moved outside (widening the gauge too)

The “double flange” roller reduces the specific pressure on the track and than the wear, because it supports the load over “two points” (instead of one)

■ 14 cm “double
flange” rollers to
“increase” the
gauge and reduce
the track wear
(stability, strenth
and durability)



"MODULAR" PIPES

Easy pipes
replacement



Bucket hoses protected by metal spring
and rooted inside the dipperstick fork

Auxiliary hoses connection



■ Protected hoses

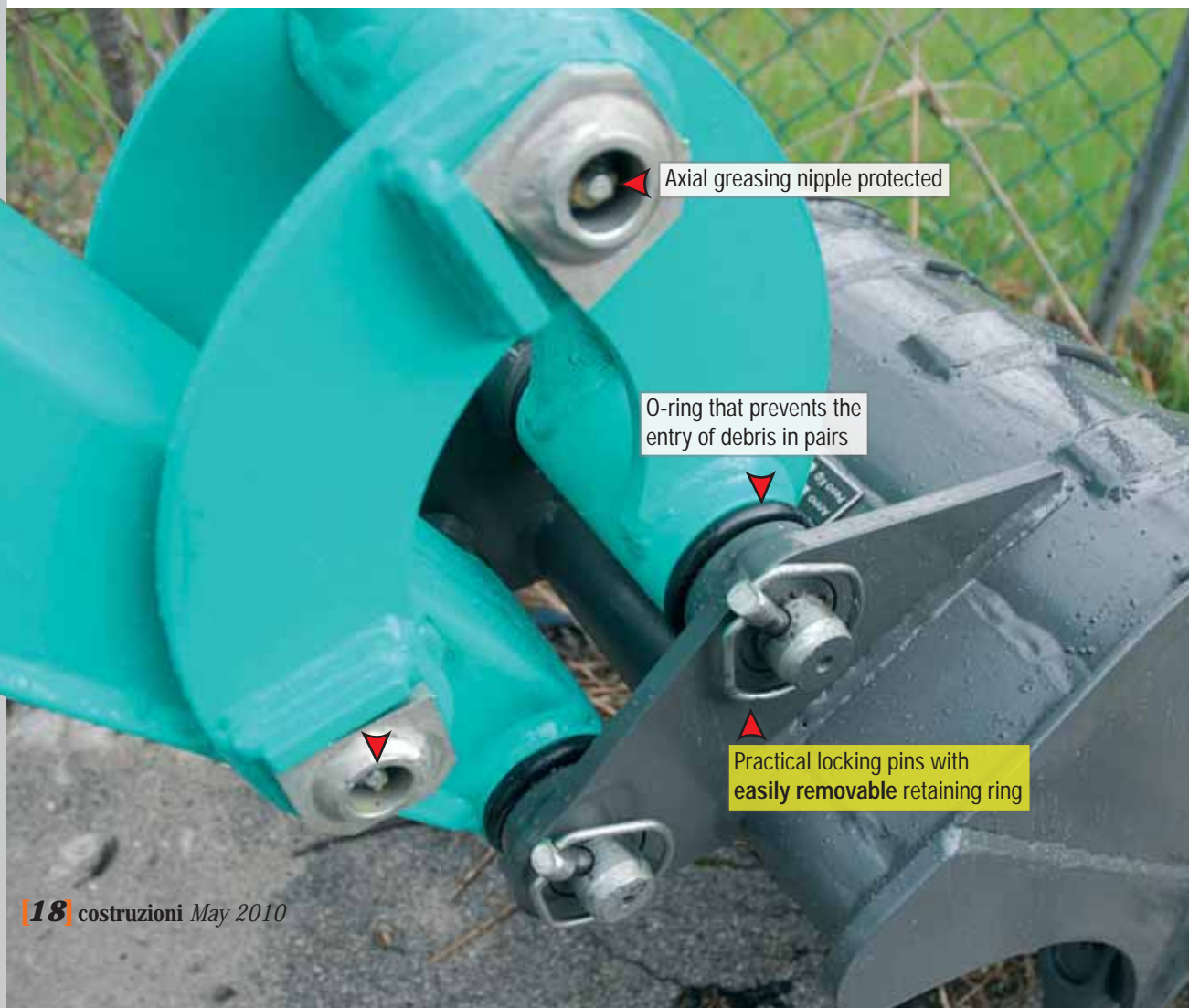
AUXILIARY HOSES INSIDE THE BOOM



■ Rotary distributor bottom protection plate



Protected and accessible greasing nipples



■ Full tiltable seat for an easy access to engine components

Hydraulic oil filter

Transparent water separator, with tap and quick drop of impurity



9,4 kW POWERFULL YANMAR ENGINE

"Unified" key

12,5 litres, rust/condensation proof "plastic" tank (polypropylene) with drain tap

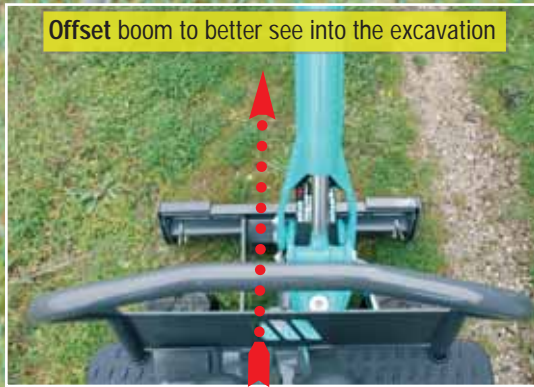
■ Roomy for "large sizes" too

Blade/gauge control

PILOT CONTROLS

Double security lever

WALK AROUND MACHINE [di Costruzioni]



Self loading belt
Turret/boom swing control

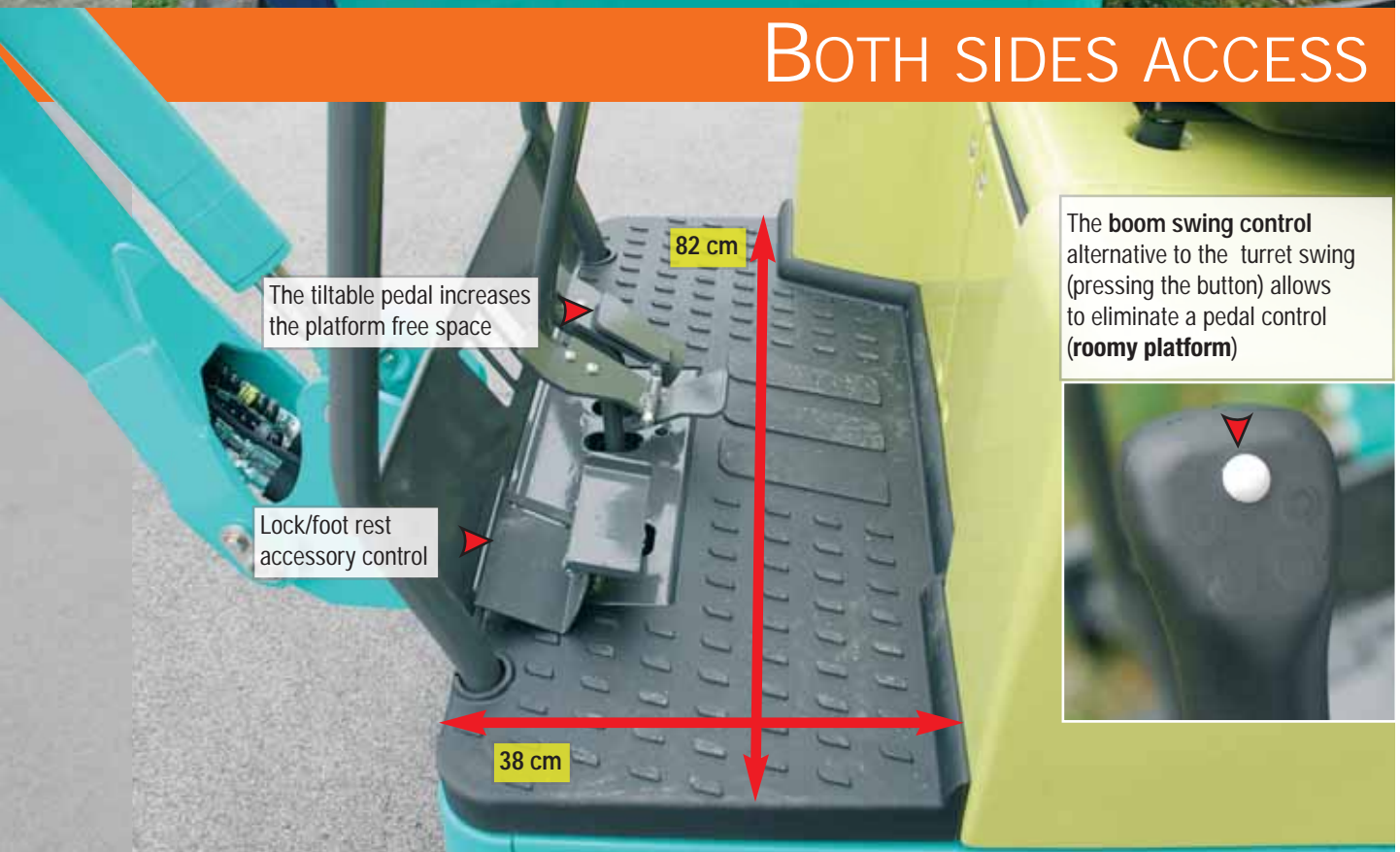


High speed

ON SIDE CONSOLES



BOTH SIDES ACCESS



The tiltable pedal increases the platform free space

Lock/foot rest accessory control

82 cm

38 cm

The boom swing control alternative to the turret swing (pressing the button) allows to eliminate a pedal control (**roomy platform**)



