

Requested by Avant Tecno Oy
Ylötie 1
FI-33470 YLÖJÄRVI

Order IVX7PT190027-01

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Assignment Earth-moving machinery – Roll-over protective structures

ROPS test report for ISO 3471:2008



Avant 850/860i

1 Identification

1.1 Machine

Type	Wheeled earth-moving machine
Manufacturer	Avant Tecno Oy
Models	Avant 850, 860i
Serial number	proto
Machine frame part numbers	A437664 A21732

1.2. ROPS

Manufacturer	Avant Tecno Oy
Model	Avant 850/860i
Serial number	proto
ROPS part numbers	A433787 P03 A434150 A A434200 P01

2. Information supplied by manufacturer

Maximum recommended mass	4000 kg
Location of DLV	A439233

3. Criteria

Lateral load force	24.0 kN
Lateral load energy	4.0 kJ
Vertical load force	78.4 kN
Longitudinal load force	19.2 kN

4. Test results

The following force and energy levels were achieved or exceeded with no penetration by the ROPS structural member or the simulated ground planes (where applicable) into the DLV.

4.1. Lateral loading (left-hand side)

Maximum force attained after the energy requirement
was achieved or exceeded 24.1 kN
Absorbed energy attained 4.1 kJ

4.2. Vertical loading

Maximum force attained 80.2 kN

4.3. Longitudinal loading (from rear)

Maximum force attained 21.7 kN

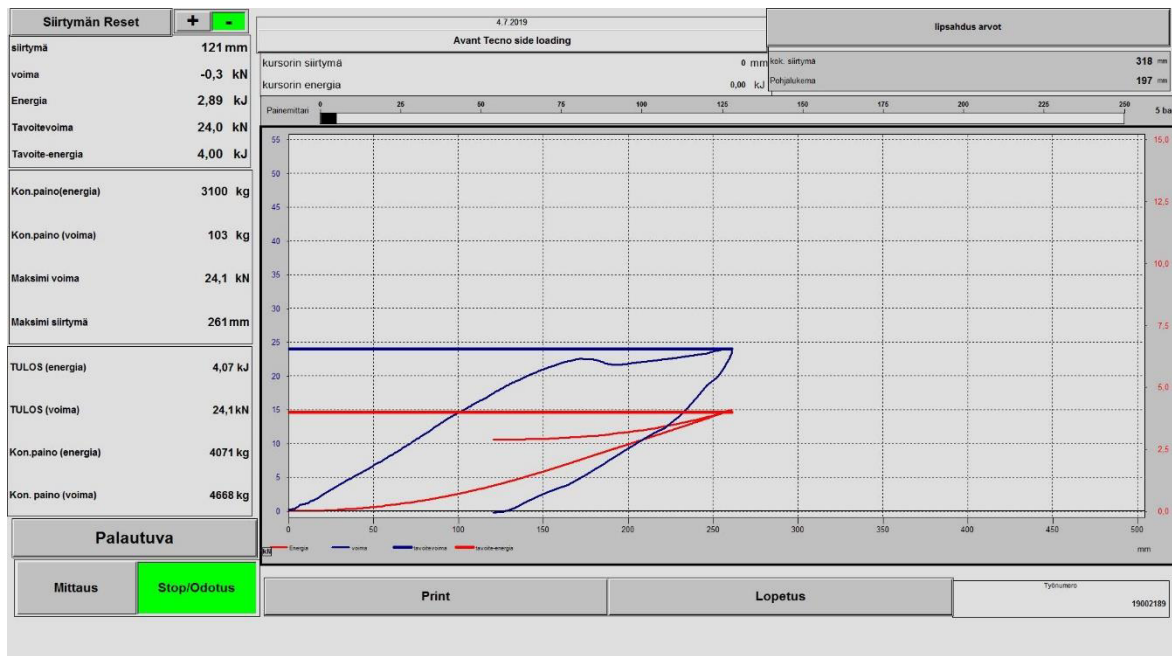
4.4. Temperature

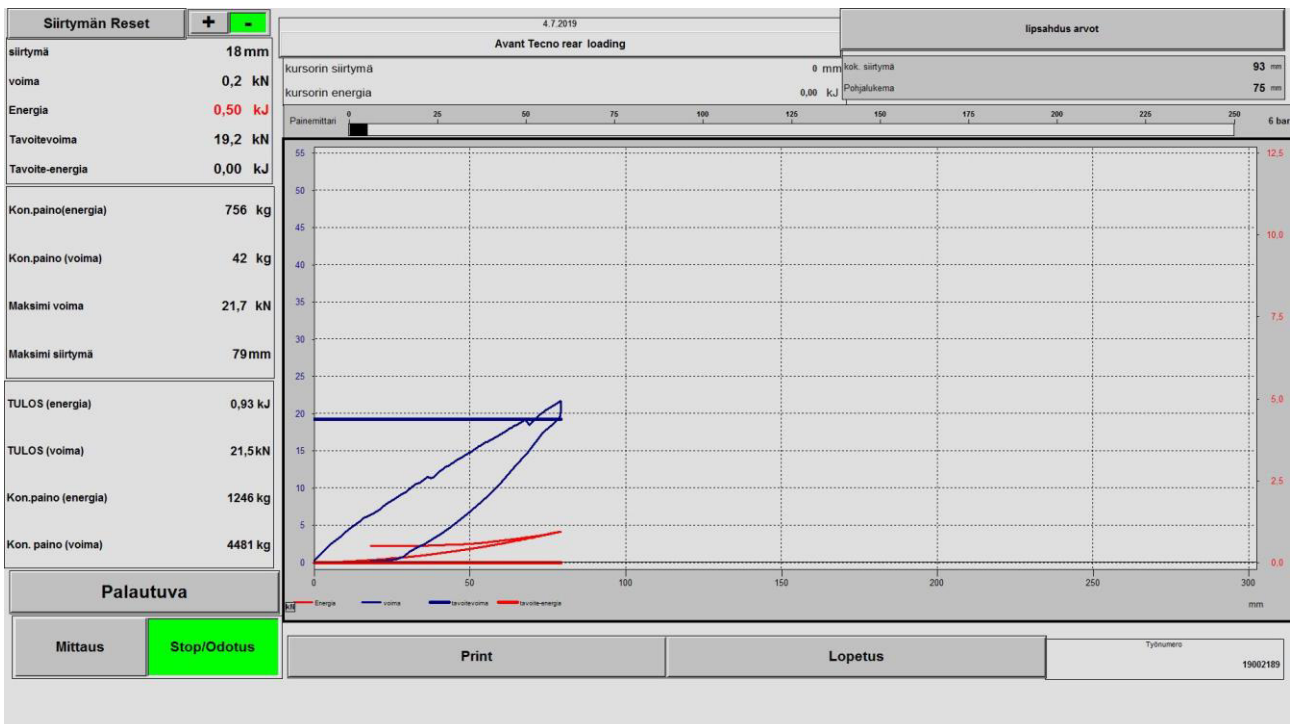
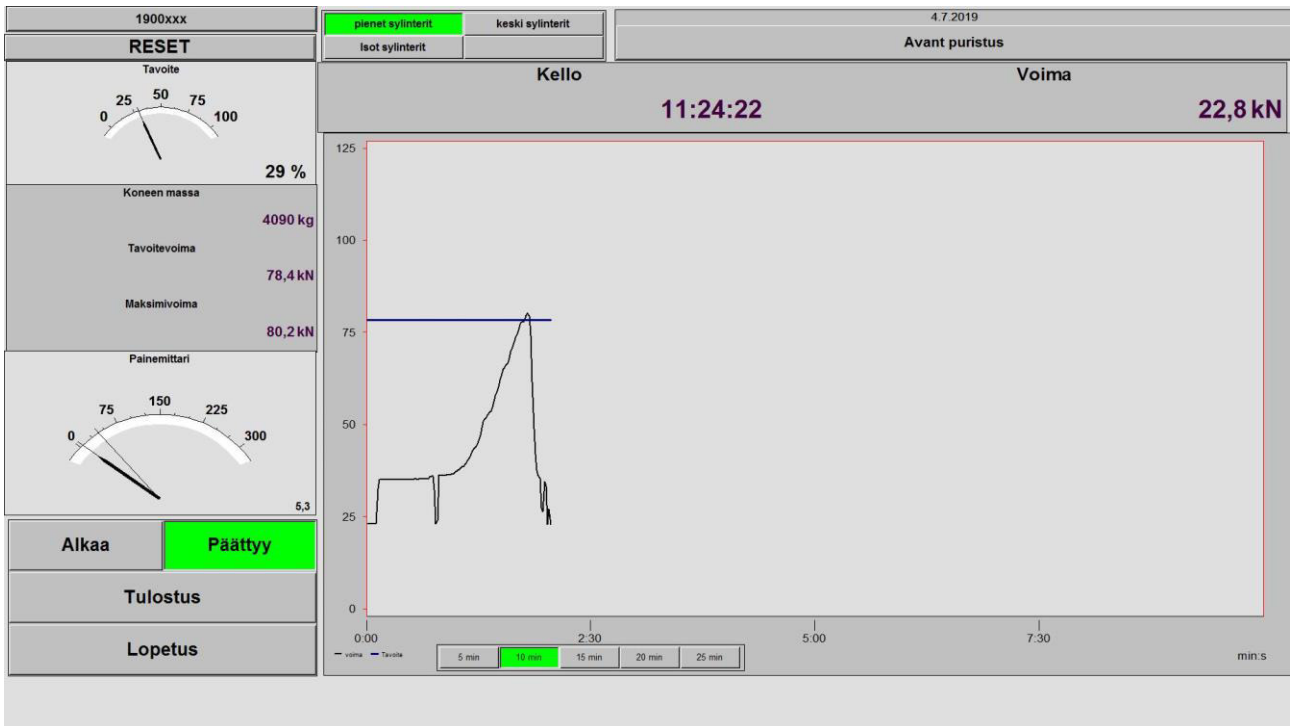
The test was performed with ROPS and machine frame members soaked to -18 °C.

4.5. Use of special suspension or shock-absorption system

Manufacturer Mecanocaucho
Model Cab mounts 105Ø16 45 Sh
Product Identification Number 137301

4.6. Force-deflection curves for loading tests





4.7. Photo of specimen

Test specimen before the tests and after each test criteria (lateral, vertical and longitudinal).



5. Attestation statement

The minimum performance requirements of ISO 3471:2008 were met in these tests for a maximum machine mass of 4000 kg
 Uncertainty of measurements (k=2) 1 %
 Date of test 04.07.2018

Vihti, 31.12.2019



Kari Maunula
 Consulting Expert

Appendices
 A437664
 A21732
 A433787 P03
 A434150 A
 A434200 P01
 A439233

Distribution	Customer	electronically approved
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