



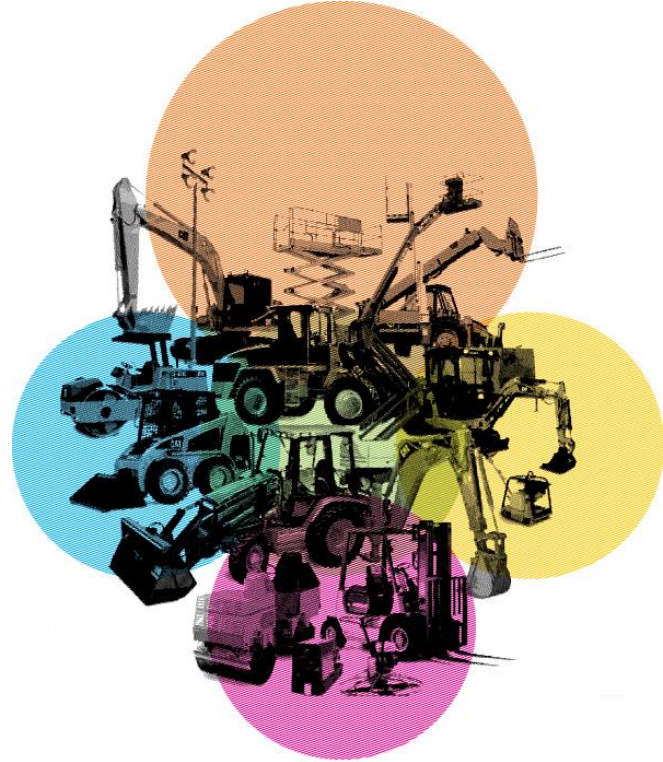
EUROPEAN
RENTAL
ASSOCIATION

TCO Calculator

A comprehensive total cost of ownership calculator

Gian Luca Benci

Alias



Labour Total filters (€) 2	— 15 minutes per au. — Filters at suggested consumer's list prices. — Grease at	Factors used (mater. — Tube oils at €2 per liter
Lubricant cost €/l € 45		
Labour cost €/h 20		
Average cost of filters 0.1		
Cost per Grease fitting (€)		

Cost calculation for wheels/undercarriage

Model	Wheel Loader 24 t
Tyre	26.5R25
Tyre life (h)	2000
Tyre cost (€)	4000
machine hourly cost of Wheels (€/h)	8

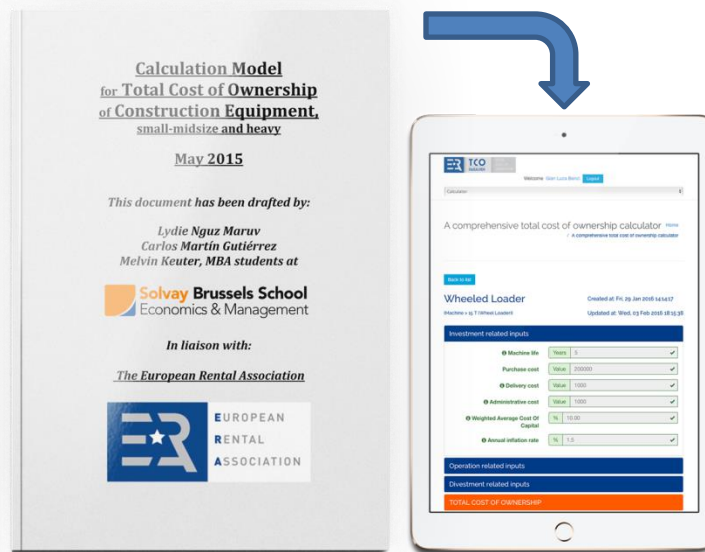
Cost calculation attachments engaging tools

WHEEL LOADER 24 t			
Element to be replaced	replacement frequency (h)	Qty	Cost €/h
HD Bucket	10000	1	1.00
GET (Bucket tooth)	2000	10	0.25
			24
			5
			Total
			1.11
			0.11
			0.36
			1.47

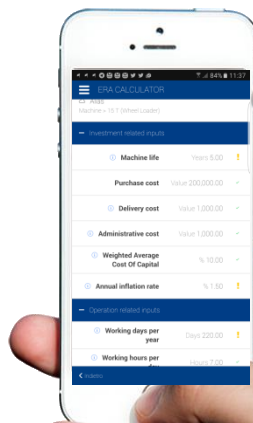
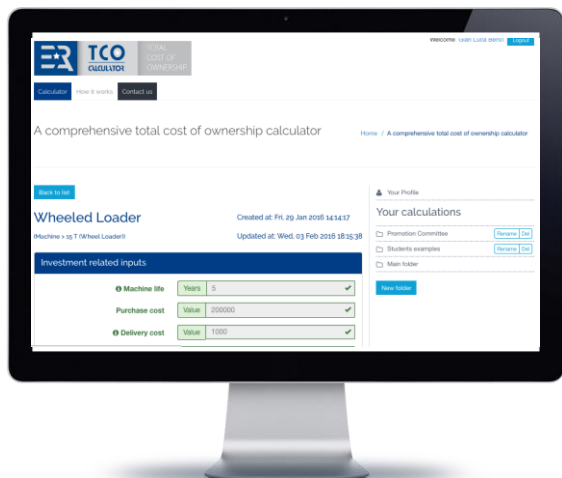
EXCAVATOR 25 t			
Element to be replaced	replacement frequency (h)	Qty	Cost €/h
HD Bucket	10000	1	0.45
GET (Bucket tooth)	2000	5	0.13
			24
			2.5
			Total
			0.11
			0.06
			0.56
			0.18
			0.74

UNDERCARRIAGE

Model	Excavator 25 t
Basic Factor	3
Impact	0.2
Abrasiveness	0.2
Z-factor	0.2
Undercarriage hourly cost (€/h)	1.8



A Website and a mobile App



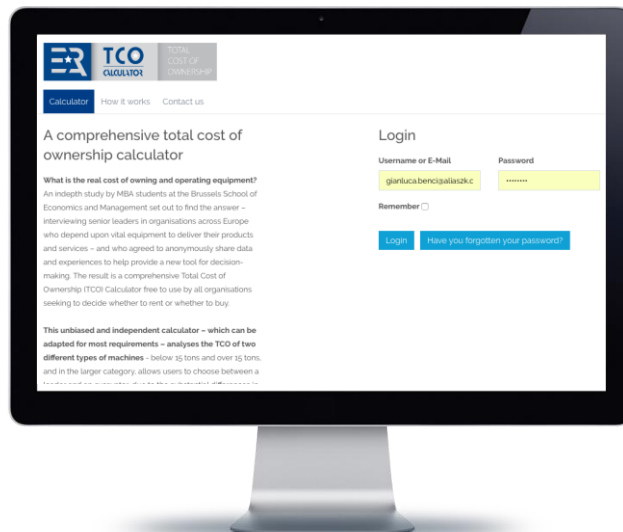
First steps

1

Registration

2

Login



Type of machines

1

Loaders

- Wheel loaders > 15 T
- Track loaders > 15 T

2

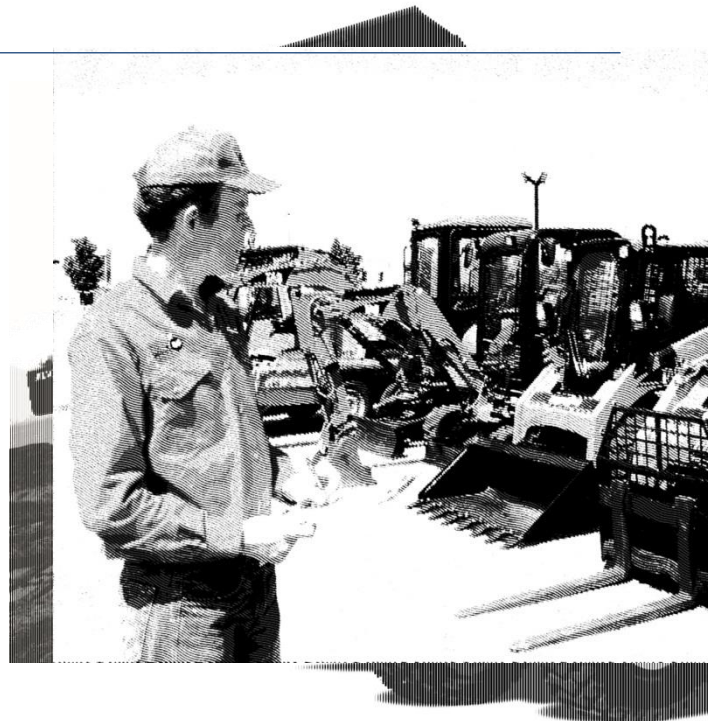
Excavators

- Wheel excavators > 15 T
- Crawler excavators > 15 T

3

General construction equipment

- Machines < 15 T



3 steps to calculate the equipment TCO

1

Investment related inputs

- Purchase cost
- Inflation rate
- ...

2

Operation related inputs

- Hourly labour cost
- Bucket replacement frequency
- ...

3

Divestment related inputs

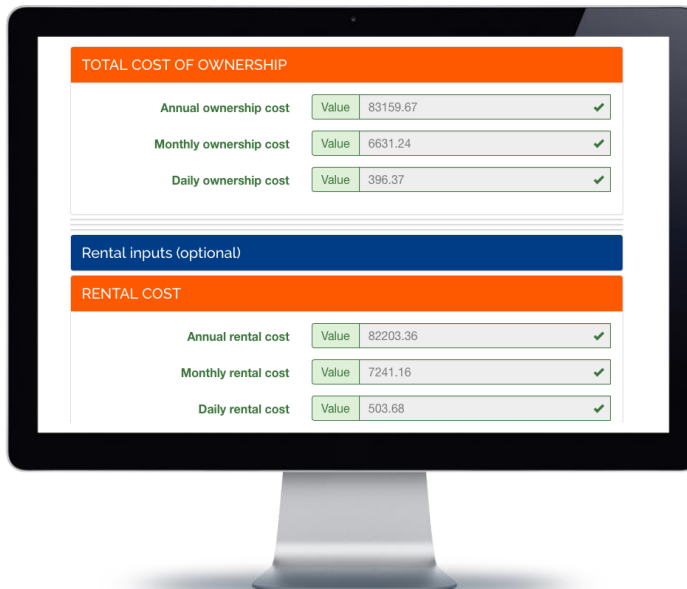
- Gross selling price
- Make ready costs
- ...



The screenshot shows a web-based TCO Calculator interface. It features several input fields for equipment parameters, each with a label, a unit, a value, and a status indicator (checkmark or warning triangle). Blue arrows point to the following fields:

- Bucket replacement frequency:** Hours (interval) 10000. Min value: 500.00 - Max value: 9999.00. (Red box with 'x' icon)
- Bucket cost:** value 10000. (Green box with checkmark icon)
- Get per bucket:** Number 10. (Green box with checkmark icon)
- Bucket replacement time:** Hours 24. Suggested value between 1.00 and 2.00. (Yellow box with warning triangle icon)
- Get replacement frequency:** Get needs to be replaced with a frequency depending on the use. (Green box with checkmark icon)
- Get unitary cost:** Value 50. (Green box with checkmark icon)





TOTAL COST OF OWNERSHIP

Annual ownership cost	Value	83159.67	✓
Monthly ownership cost	Value	6631.24	✓
Daily ownership cost	Value	396.37	✓

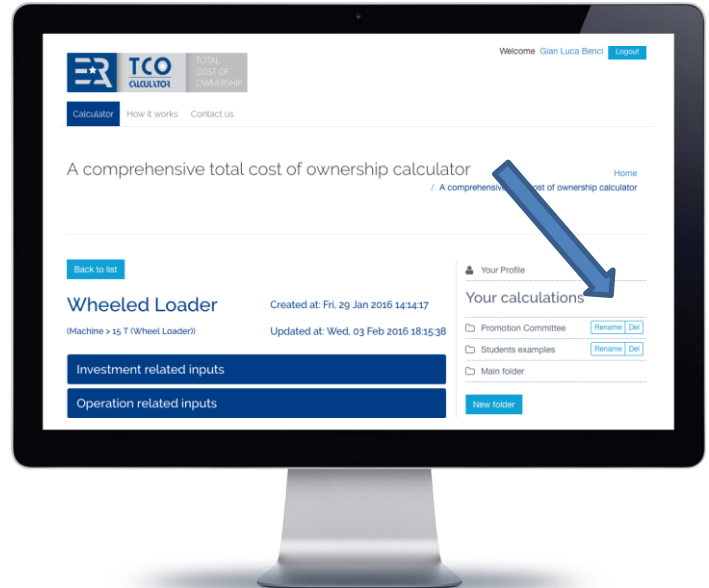
Rental inputs (optional)

RENTAL COST

Annual rental cost	Value	82203.36	✓
Monthly rental cost	Value	7241.16	✓
Daily rental cost	Value	503.68	✓

Other features

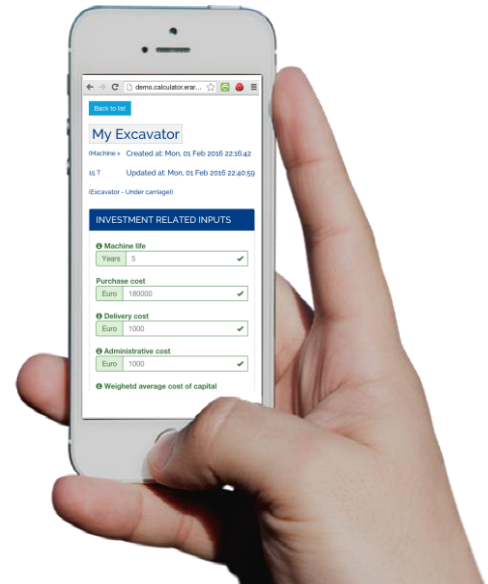
- **The work in progress** is automatically saved
- **Real-time calculations** (no page refresh)
- **Possibility to create folders** in order to organize the archive of the calculations



Website

Other features

- Mobile responsive
- Multi-language

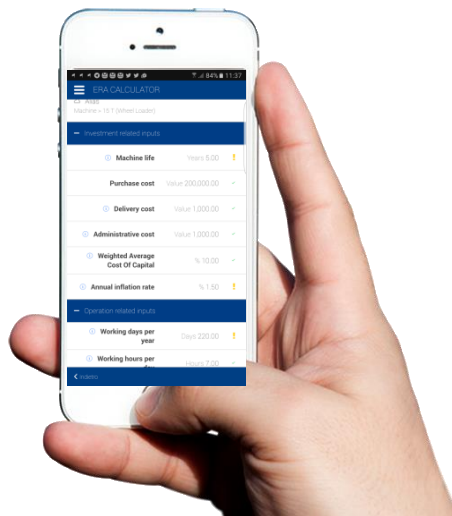


Mobile app

Available in July 2016

Features

- Synchronized with the online account and calculations
- Works offline



How the sync works





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