

# CEH

## Construction Equipment Hire

*Advanced Performance*

Every hire order. Every phase. One Gantt.

v1.0

Machine-Bound Licensing

KCE — Kraus Consulting & Engineering — Keypointprojects

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### What is CEH?

CEH is a professional desktop application for managing construction equipment hire. Every hire order is tracked through three mandatory phases — Delivery, Use and Pick-up — on a live, colour-coded Gantt timeline. Costs are calculated automatically from quantity, daily rate and hire duration. Complete PDF reports — Gantt, Order Sheets, Hire Register and Cost Summary — are generated in seconds, ready for client or management delivery.

Visual Gantt timeline

Hire Order management

3-Phase hire flow

Cost engine

Multiple currencies supported per order

Paid-by tracking

## Key Features

- ✓ Visual Gantt timeline — zoomable, colour-coded phases
- ✓ 3-Phase hire flow — Delivery → Use → Pick-up
- ✓ Multiple currencies supported per order
- ✓ Expand/Collapse orders — focus on what matters
- ✓ Project logo branding on every PDF export
- ✓ Export: A3/A4 Gantt PDF — print-ready schedule
- ✓ Export: Hire Register — full project summary table
- ✓ Hire Order management — tag, equipment, supplier, location
- ✓ Cost engine — Qty x Rate/day x Use-Days auto-calculated
- ✓ Paid-by tracking — allocate costs to responsible party
- ✓ Undo / Redo — full edit history
- ✓ Machine-bound licensing — key-based activation
- ✓ Export: Individual Order Sheets — one per hire item
- ✓ Export: Cost Summary — totals per order and project

## Phase Colour Coding | 3 Fixed Phases per Hire Order

<span style="color: blue;">■</span> <b>Delivery</b>	Equipment delivered to site by hire company
<span style="color: orange;">■</span> <b>Use</b>	Equipment on hire — cost clock is running
<span style="color: red;">■</span> <b>Pick-up</b>	Equipment collected / returned to hire company

## PDF Export Outputs

Output	Filename Pattern	Contents
<b>Gantt PDF</b>	<project>_CEH_GANTT_<stamp>.pdf	Full Gantt bar chart, all orders and phases, A3 landscape
<b>Order Sheet</b>	<project>_ORDER_<tag>_<stamp>.pdf	Individual hire order: supplier, dates, rates, cost breakdown
<b>Hire Register</b>	<project>_CEH_REGISTER_<stamp>.pdf	All orders in one table — tag, equipment, dates, total cost
<b>Cost Summary</b>	<project>_CEH_COST_<stamp>.pdf	Cost per order plus grand total, grouped by currency

## Licensing Model

CEH uses a machine-bound activation system. Each licensed installation is tied to a single computer. The software will not run on an unlicensed machine.

Step	Action	Detail
Step 1	Customer installs & launches	Activation dialog displays unique REQUEST CODE (Machine ID)
Step 2	Customer sends Request Code to MK	Email or WhatsApp: m.kraus@keypointprojects.co.za
Step 3	MK runs the KeyGen script	Script produces the matching Activation Key instantly
Step 4	MK returns Activation Key	Key entered once and saved locally. Never asked again.

Key format: CE[RC8][NONCE8][SIG6] — machine-bound HMAC-SHA256 signature

## System Requirements

Requirement	Specification
Operating System	Windows 10 / Windows 11 (64-bit)
Python	3.10 or later (when running from source)
Screen	1280 x 720 minimum   1920 x 1080 recommended
RAM	4 GB minimum   8 GB recommended
Disk Space	250 MB for installation   additional for project files
Network	Not required (fully offline application)

## Contact & Support

### KCE — Kraus Consulting & Engineering

Keypointprojects

[www.keypointprojects.co.za](http://www.keypointprojects.co.za)

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