

CTP

Crane Time Planner

Advanced Performance

Every crane. Every lift. Every minute accounted for.

v1.0

Machine-Bound Licensing

KCE — Kraus Consulting & Engineering — Keypointprojects

www.keypointprojects.co.za | m.kraus@keypointprojects.co.za

What is CTP?

CTP is a professional desktop application for planning and scheduling crane operations on site. It structures work as Project → Crane → Position → Items, with eight colour-coded phases covering the full lift cycle from truck Transport through Rigging, Crane Setup, Lift, Hold and Decommission. Transport and Rigging can run in parallel with Crane Setup for accurate time modelling. A live Gantt timeline with predecessor linking ensures every schedule dependency is captured and cascaded automatically. Export a print-ready A3 Gantt PDF in seconds.

Project → Crane → Position → Items hierarchy

8 colour-coded phases

Transport & Rigging can run parallel to Crane Setup

Predecessor linking






Smart cascade

Insert Crane Relocation

Key Features

- ✓ Project → Crane → Position → Items hierarchy
- ✓ Transport & Rigging can run parallel to Crane Setup
- ✓ Smart cascade — phase-end changes ripple downstream
- ✓ Per-item weight (tonnes) tracked in Rigging/Lift/Hold
- ✓ Expand/Collapse cranes, positions and items
- ✓ Project logo branding on every PDF export
- ✓ Export: A3 Gantt PDF — full zoomable crane schedule
- ✓ 8 colour-coded phases — full site-standard terminology
- ✓ Predecessor linking — Items and Positions can chain
- ✓ Insert Crane Relocation — rewires predecessor chain
- ✓ Crew field on every phase — full accountability
- ✓ Undo / Redo — full edit history
- ✓ Machine-bound licensing — key-based activation
- ✓ Zoom & Fit-to-screen timeline control

Phase Colour Coding | 8 Phases — Full Crane Lift Cycle

	Transport	Truck delivers load / items to the lift area
	Rigging	Lifting gear attached to the load on the ground
	Crane Travel	Crane moves from previous position to new position
	Crane Setup	Crane erects outriggers and configures for lift
	Lift	Crane actively hoists the load
	Hold	Crane holds load in air while workers connect or fix
	Crane De-rig	Crane folds jib, retracts outriggers before relocation
	Decommission	Crane dismantled and departs site (or goes off-hire)

PDF Export Outputs

Output	Filename Pattern	Contents
Gantt PDF	<project>_CTP_GANTT_<stamp>.pdf	A3 Gantt — all cranes, positions, items and phases, colour-coded
Order Sheet	<project>_ORDER_<tag>_<stamp>.pdf	Single lift item sheet: crane, phases, weights, crew, notes

Licensing Model

CTP 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: `CT[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

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