

Controlled ENGLISH

Mining Machinery • Underground • Surface • Autonomous

What is Controlled English?

Controlled English (CE) is adapted from the aviation *Simplified Technical English* (STE) standard. The SMART team developed a basic mining machinery dictionary of approximately 1,200 *core* words needed to write vehicle operation and maintenance procedures.

The SMART team added a curated technical vocabulary for underground (electric), surface (Diesel) and autonomous network operations. Our **Controlled English** uses AI rules and the **MAXit Checker** to create content for all types of mining machines and mineral processing.

The objective is to simplify text for better operation and maintenance, through *easy-to-understand* technical documentation and standardized mining vocabulary.

Key Advantages of Controlled English

- Prevents human errors caused by incorrect information.
- Standardizes global design and product terminology.
- Assists readers with Limited English Proficient (LEP)
- Improves skills training and workforce development.
- Assists with STEM education and employee onboarding.
- Creates documentation that is ideal for AI translations.
- Meets global standards for mining machinery.

The Company

Smart Communications, Inc., has 20 years experience in the development of Artificial Intelligence software and Natural Language Processing (NLP). Projects include the development of **Komatsu Simplified English** for underground (electric) and surface (Diesel-electric) mining vehicles.



The Starter Kit includes one MAXit license, Writer's Guide, Controlled English core and one technical dictionary. The starter kit is Ideal for proof-of-concept.

Visit: <https://www.smartny.com/ControlledEnglish.html>

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What is the MAXit Checker?

An AI-powered publishing tool that has approximately 19,000+ AI rules (*inferences*). **MAXit** has an *.xml edit-in-place* feature to check grammar, vocabulary, and style.



Versions of the MAXit Checker

- Microsoft Word (Add-In for Word)
- Adobe FrameMaker (Plug-in for 10.0 to 2022)
- PTC Arbortext Editor (Plug-in for 6.x to 8.x)
- XMetaL Author (Plug-in for 19.x)

Ask us about our API for integration to other publishing systems.
Contact maxit@smartny.com for licenses, services and costs.



An easy-to-use tool to manage the dictionaries for MAXit. SMART offers **Text Mining** services for rapid development of technical dictionaries.

Example *before* and *after* (MAXit uses color codes for errors):

Service Bulletin

Undercarriage wear can **greatly affect** the **characteristics** of the **ride** of the hauler. Movement of idler assembly (10) causes wear on wear plates (11). The front idler can be adjusted **in order to improve** the **ride**. The upper and lower wear plates can **be reversed or replaced in order to** adjust the height of the front idler.
(55 words)

Service Bulletin

Wear on the hauler undercarriage can cause vibrations and loss of control of the hauler.

Movement of idler assembly¹⁰ can cause wear on wear plates¹¹. Interchange the position of the upper and lower wear plates to adjust the height of the front idler.

CE

(CE version 44 words)

Complexity | Simplified



The aerospace STE version is described at www.smartny.com/SimplifiedEnglish.html.