

Rolling Mill Analysis Simulator **CAS4[®]**

Easy rolling simulation for anyone !

(Mill delivery sheet crown, mill delivery sheet shape, deformation of each mill roll, surface pressure, etc.)

A versatile simulator that can also calculate delivery sheet crown and delivery sheet shape (I-Unit value) for ultra-thin foil materials (10 μm or less).

Features

1. A wide range of mills can be analyzed.

- From plate mills to foil mills.
- From hot slab to foil.
- Eight mill models can be analyzed, covering all global models (top and bottom point symmetric mills).

2. High crown control function simulation is possible.

- WR shift and WR cross (pair cross) functions are available for all mills.
- Custom roll curves can be applied to all rolls (WR, IMR, BUR).

3. Easily simulate mill delivery sheet shape control for thin materials.

- The widthwise I-Unit value distribution can be easily calculated from the analysis results of the widthwise tension distribution of the mill delivery sheet, which is equal to the constant delivery tension value used in the calculation.

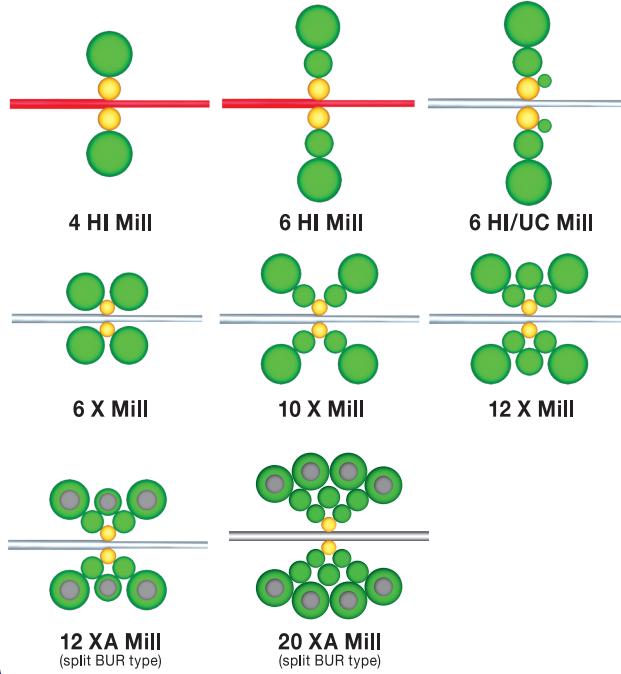
Benefits of Introducing CAS4

1. High-precision simulation of actual mill operations is possible with simple input.
2. Can be used as a design tool for planning new mills and basic design.
3. No need for model experiments during the development stage
→ There is no need for personnel to design, manufacture, and maintain experimental equipment, resulting in significant cost savings.
4. Can be used as a tool to resolve various issues with operating mills and determine modification specifications.
5. Can be used as an effective rolling simulator in schools, research institutions, etc.

Information about a Free Trial Calculation

- If you would like a free trial calculation, Please contact us by email, phone, fax, etc. below.
- Outline of Implementation:
 - The input data for CAS4 must be prepared by the customer. (It's easy, as we will explain the details and provide support when creating the data.)
 - We will calculate the input data and report the results to you.
 - Calculations for multiple cases are also available.
- Other details will be determined during consultation.
 - Whether an NDA is concluded, etc.

CAS4 : Analyzable mill types



CAS4 : High strip crown control function

Standard on all mills (except for UC Mill)

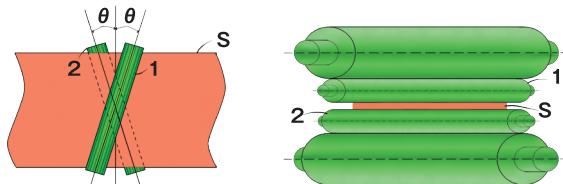


Fig.1 Pair Cross (Cross upper and lower roll groups in pair)

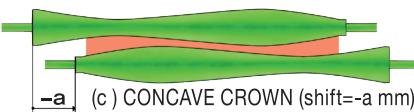
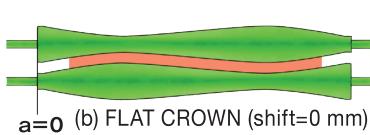
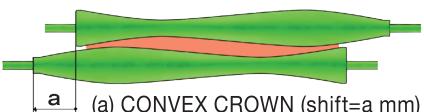


Fig. 2 Upper and lower point symmetric roll shift

YOKOHAMAKEN CORPORATION

5-15-19 Kamoi Midori-ku Yokohama-shi, 226-0003 Japan TEL: +81-45-507-7907
E-mail: tazoe@yokohamaken.co.jp FAX: +81-45-507-7908

URL : <http://www.yokohamaken.co.jp/>

*We also accept contract calculations for CAS4.

*For other inquiries or questions, please contact us at the address on the left.