

ANYTHING AND EVERYTHING FOR STEEL MANUFACTURERS

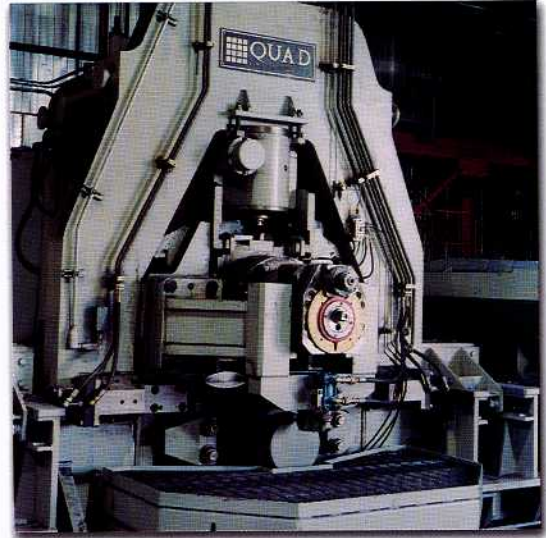


. . . EXCEPT THE ORDINARY

# QUAD WIDE WINDOW MILLSTANDS ARE FLEXIBLE

## Reconfigure mill at roll change

Flexibility of horizontal, universal, or vertical edger in any stand position

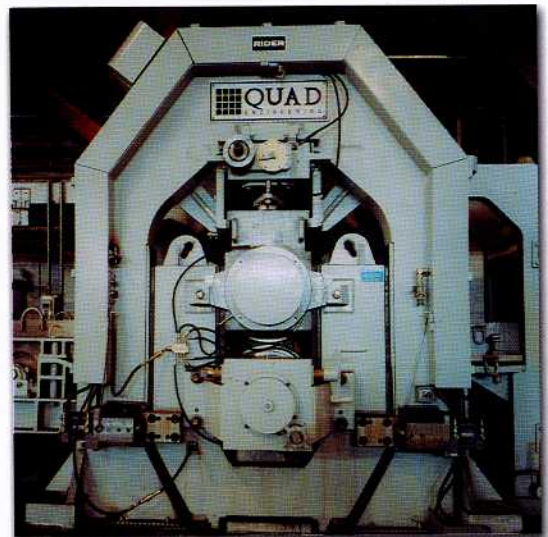


*2 Hi Reversing Rougher*

## Design concept

The QUAD Wide Window concept was developed to allow roll and guide change on larger mills, where complete stand change is not cost efficient or practical.

In other designs, when the housings are not changed, only the rolls and not the guides are part of the quick-change system.



*2 Hi Inset*

## Benefits

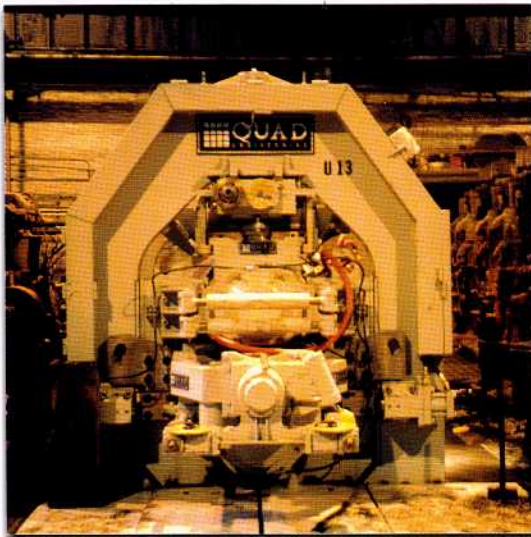
- craneless roll change
- quick change
- build up of exchange carrier in roll shop

## Applications

- continuous roughing
- completely automatic reversing roughing
- beam mills
- structural mills



Continuous Rolling



Universal Insert

## Flexibility

The wide window concept is especially suitable for mills that roll a wide product range.

Any millstand can be configured as

- horizontal
- universal
- vertical edger

# QUAD WIDE WINDOWS OFFER MANY BENEFITS



Vertical Edger Insert



Universal Rolling

## Features

- Rugged design
- Modular subassemblies
- Simple offline maintenance
- No crane requirement for roll change
- Possibility of using existing roll inventory – improves ROI
- Roll and guide change in less than 15 minutes
- Accepts different inserts for flexible pass design

# HOW TO JUSTIFY A QUAD WIDE WINDOW SYSTEM

## Improved mill efficiency

- 15 minute change of rolls and guides, simple rugged design means less to go wrong

## Reduced capital costs

- Reuse existing roll inventory
- Reuse existing guide inventory
- No building or crane upgrade is required. Only the carrier is lifted by the crane, not the complete millstand

## Reduced spare costs

- Spare housings are not required for quick change

## Reduced maintenance costs

- Modular sub-assemblies are easily removed from housings
- Maintenance can be done "off-line"

## Purchased complete

- Systems come complete with electrics, controls, utilities, installation support and startup. There are no extras to fund.

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