

Title:

5 Keys to Choosing Plate Roll Machines

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Summary:

Between diminishing factory orders and increasing labor and energy costs, companies that use p

Yet, manufacturers must still invest in new production equipment -- whether to replace obsolet

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Article Body:

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Yet, manufacturers must still invest in new production equipment -- whether to replace obsolet

Manufacturers must make careful assessments when evaluating the addition of new plate-rolling

In an effort to help manufacturers optimize plate rolling operations, 5 key considerations are

1. Factor in the properties of the material to be rolled

Even though drawings call for a plate to be rolled down to the same dimensions, a tougher mate

Today's steel is much stronger and requires more strength to bend. Thanks to detailed classifi

A metal's temper and yield strength must be matched with the customer's application to correct

2. Work with an equipment dealer that is willing to discuss your specific plate-rolling needs

Customers must know the correct questions to ask, in order to get the correct answers. Each ma

Manufacturers must also carefully consider whether they wish to roll conical or parabolic shap

Accurate conical rolling is further achieved through features such as torsion bar parallelism,

Customers need to discuss issues such as inside diameters, material type, tolerances and the d

Matching plate-rolling equipment to the specific needs of a manufacturer requires attention to

3. Stay within ideal operating parameters of the machine

It is recommended that manufactures identify what material and what thickness represent their

Quality rolling machines are usually cambered at 50 percent of the full-rated value of the ma

Disregarding this important fact can result in out-of-spec product that the customer will not

However, when plate thickness approaches the upper end of a machine's rating, then severe defe

4. Carefully consider bending diameters

The tighter the diameter, the more bend pressure required. For instances where thick material

As a rule of thumb, most machines can roll plate at 1 1/2 times the upper roll diameter. Hence

All machines achieve precise measurements at 50 percent of the full-rated value. Therefore, give

5. Incorporate both side and vertical supports to prevent unwanted bends

Adequate support requires both side and vertical roller-supports, as designed by the manufacturer.

When rolling a cylinder, once the inside diameter is more than 200 times greater than the thickness,

Purchasing a machine with both side and vertical roller supports easily solves this problem. So

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