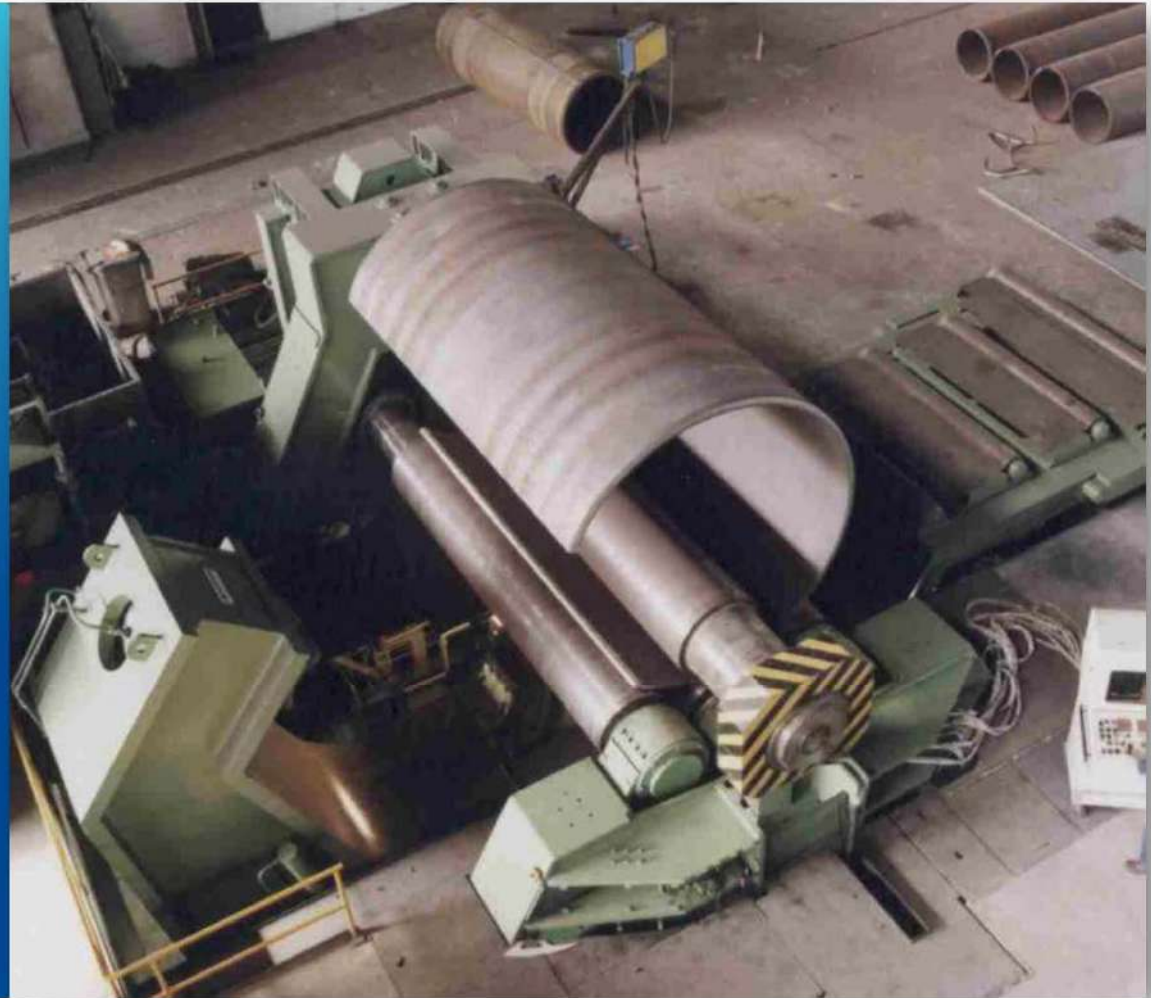


4-Roll Bending Machines with supporting yoke

4-roll bending machine with supporting yoke

Graebener can rely on more than 25
years of experience
in the production of 4-roll bending
machines.



4-roll bending machine with supporting yoke

For the 4-roll bending machine, Graebener provides the option of a supporting yoke. Using this supporting yoke allows for much shorter pre-bent edges. Another advantage of the supporting yoke:

Slimmer top rolls can be used, which saves exchange top rolls and ensures an optimum straightness of the pipe shells to be formed – for small and large material thicknesses – since the crowning is optimized by the force of the supporting yoke.

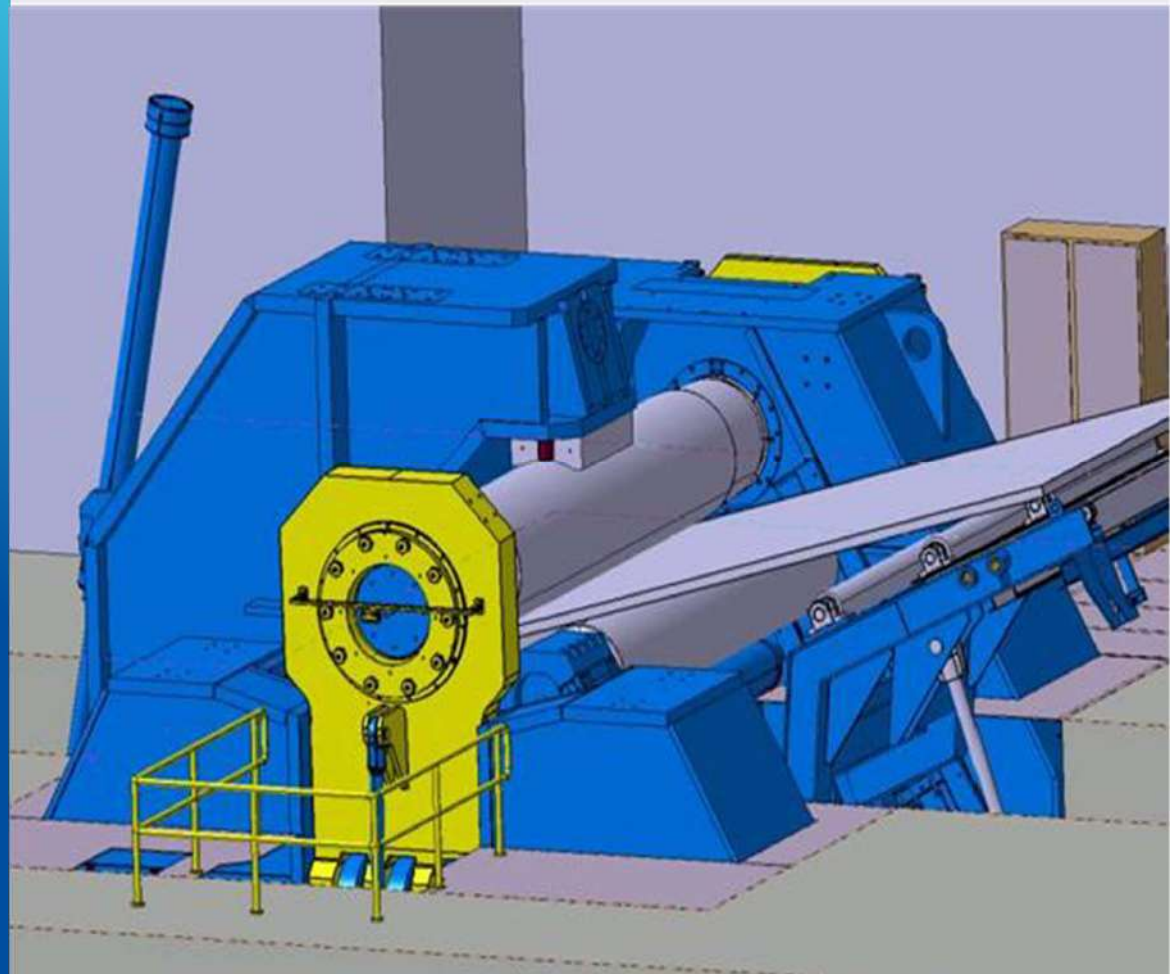


4-roll bending machine with supporting yoke

The supporting yoke clamps the top and bottom rolls and compensates the deflection by applying counter pressure to the rolls – similar to a hydraulic vise.

**“Increased pre-bending
capacity”**

**Pre-bending capacity = bending
capacity**



4-roll bending machine with supporting yoke

Due to the supporting yoke function it is finally possible to raise the pre-bending capacity of a roll to the same level as the round bending capacity. Flame cutting of the “straight edges”, which has been customary so far, no longer is necessary thus saving working time and material costs while at the same time increasing the economic efficiency.

Thanks to the small number of exchange top rolls, standstill times due to roll changes are avoided which, in turn, increases the turnout of the machine and its efficiency.



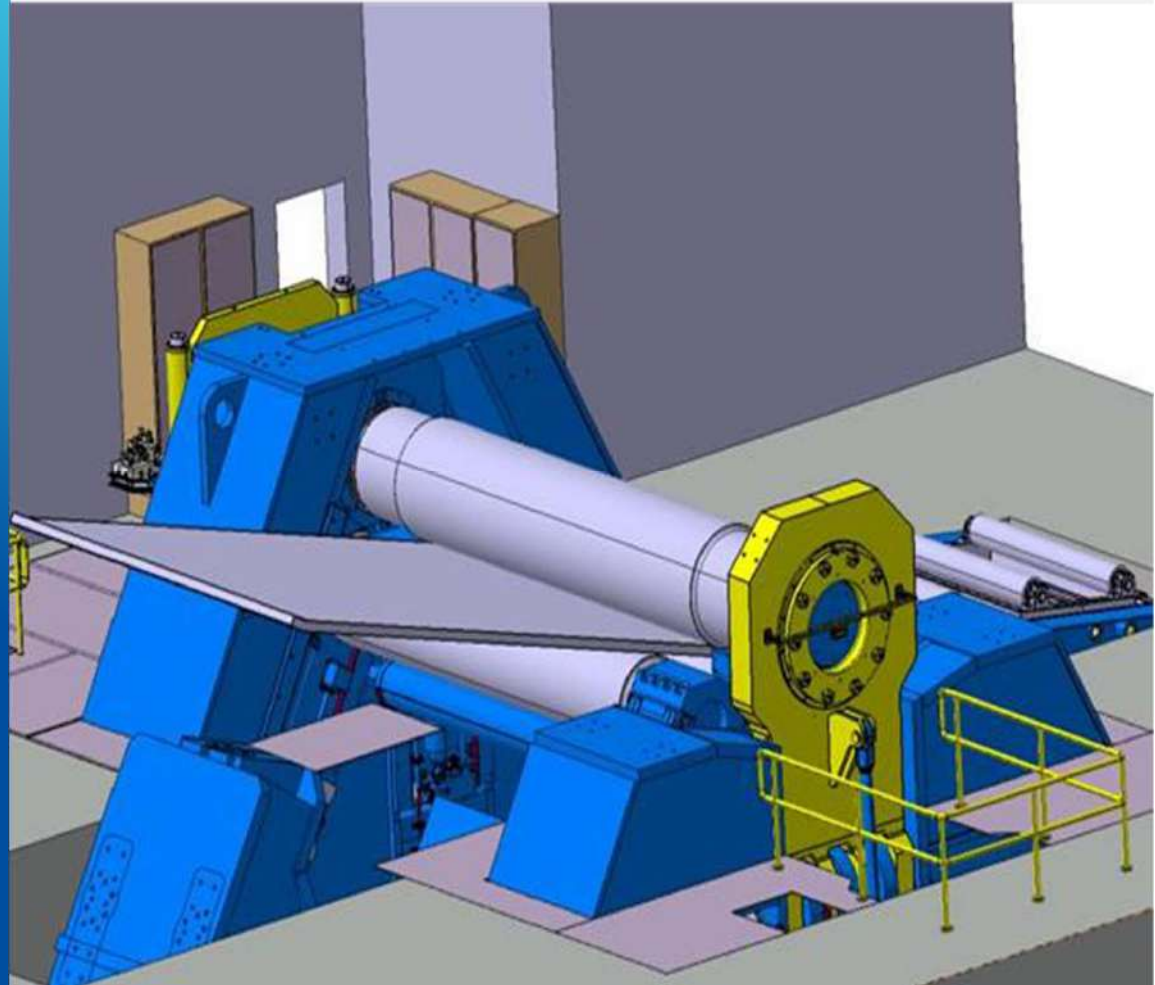
4-roll bending machine with supporting yoke

Due to the supporting yoke function it is finally possible to bend the smallest diameter close the diameter of the top roll without cutting the straight end



4-roll bending machine with supporting yoke

If the supporting yoke is not needed, it can be fully sunk in the foundation or even dismantled in a very short time. Thus, normal pre-bending and bending can be carried out as with a normal 4-roll bending machine. The bending result then depends on the mechanical camber of the roll.



4-roll bending machine with supporting yoke

This 4-roll bender is designed for
special cones and free form shapes





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4-roll bending machine with supporting yoke

This 4-roll bender is designed for
special cones and free form shapes



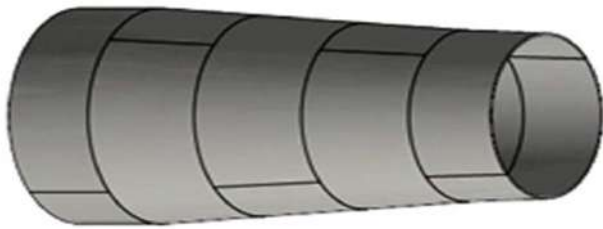


PS: Support joke 放下照片.



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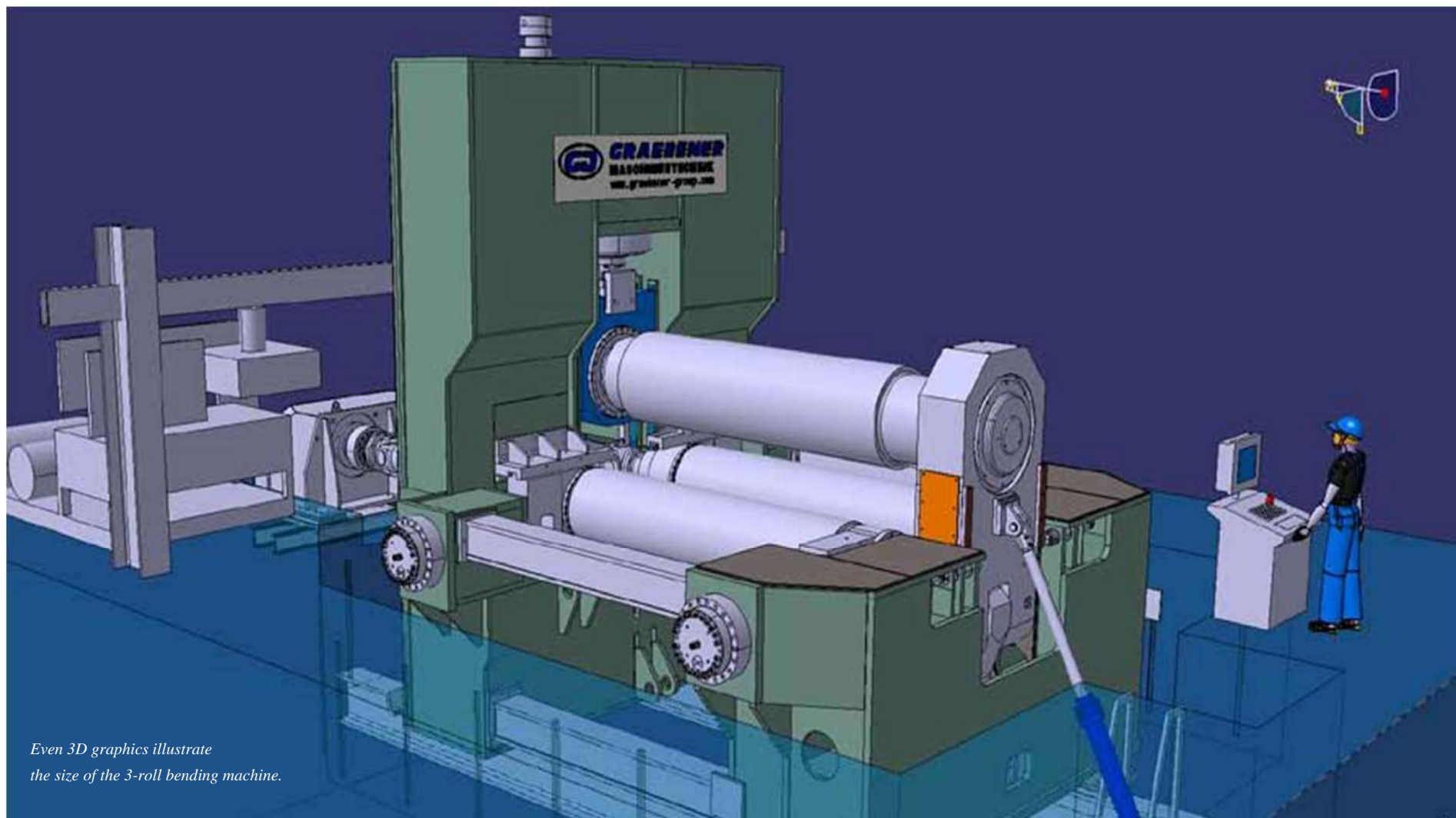




Handling system for pipe segments and cones.
搭配半圓成型或Cone錐體捲圓作業用

格瑞伯--3輪式捲板機.

格瑞伯--3輪式捲板機.



*Even 3D graphics illustrate
the size of the 3-roll bending machine.*





格瑞伯--3輪式捲板機.



Top roll diameter 上滾輪直徑 (1) = 850mm.

S-355 捲板厚度→可達 120mm.

Camber length 弧形輥面長度 (top roll 上滾輪) 3,100mm

機台重量: 210 tons.



GRAEBENER

Machine the difference.



We form your ideas – since 1921