

CUTTING THIN SLABS

in the entry of a CSP® finishing mill



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YOUR REQUIREMENTS

In your CSP® plant, you would like to cut slabs in the entry of the finishing mill in order to:

- Simplify the scrap dealing in cases of malfunction.
- Prevent energy losses of the slab remainder by quickly retracting it into the tunnel furnace.
- Increase the yield by rolling the slab remainder.
- Make sample cuts after the tunnel furnace.
- Replacing cutting in front of the finishing mill by means of more economic and/or flexible solutions.
- Dividing the thin slab into the desired coil sizes.

OUR SOLUTION

SMS Siemag offers 3 solutions for these requirements and different budgets:

A pendulum shear provides the highest level of flexibility. Many customers appreciate this solution since they can cut moving thin slabs; thus achieving a short cutting sequence.

Optimized relationship between costs and benefit is the decisive advantage of a hydraulic gate shear. It cuts the non-moving slab and has been implemented in most CSP® plants as a standard solution.

A particularly cost-efficient solution is the application of torch-cutting equipment. By default, it consists of 2 burners and is equipped with a deburrer if the divided coil is to be rolled.

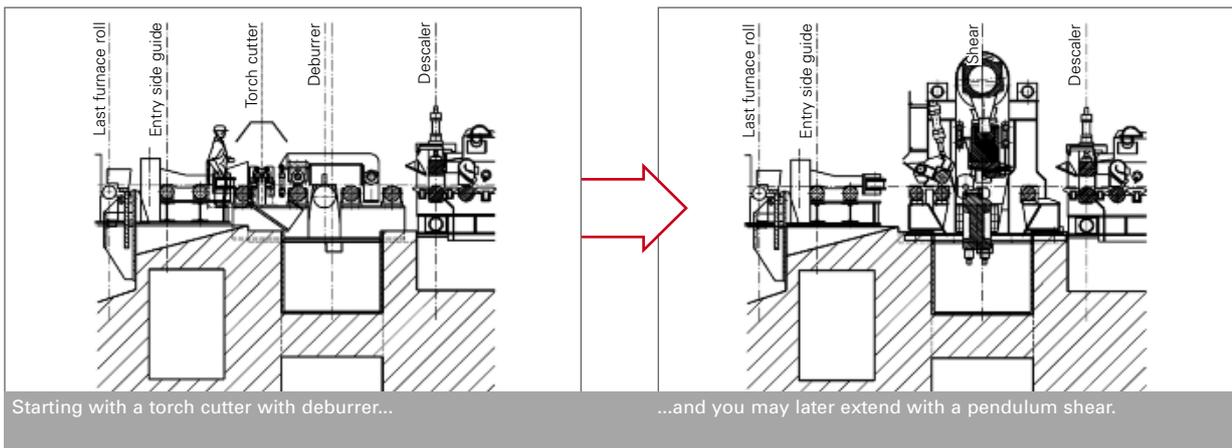
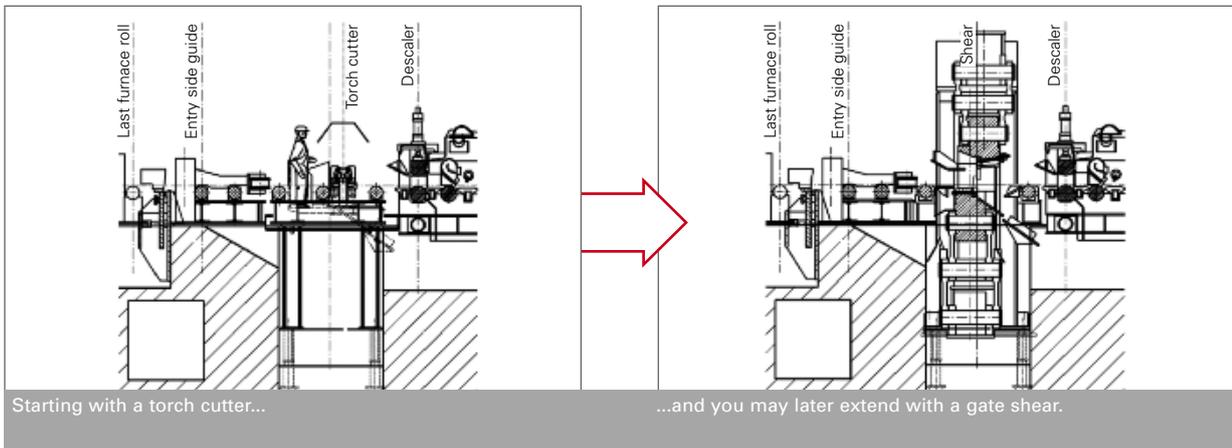
Regardless of the concept applied, the resulting scrap is directly transported into scrap buckets by means of a chute.



Comparison of the different concepts	Pendulum shear	Gate shear	Torch cutting equipment
Cutting sequence time	< 5 sec	approx. 30 sec	approx. 120 sec*
Cutting in the case of faults or malfunctions	+	+	+
Emergency cut in rolling operation	+	-	-
Dividing into coil sizes	+	-	-
Rolling of the rear thin slab part	+	+	+ (with deburrer)
Chopping in pass-through mode	+	-	-
Chopping of the thin slab for disposal	+	+	+
Costs	high	medium	low

*) in cases of 2 burners

When you start a new plant with a cost-effective torch cutting equipment, you can later add a gate or pendulum shear, since the necessary preparations are already available.





SMS SIEMAG AG

Hot Flat Rolling Mills Division

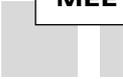
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MEETING your **EXPECTATIONS**

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