

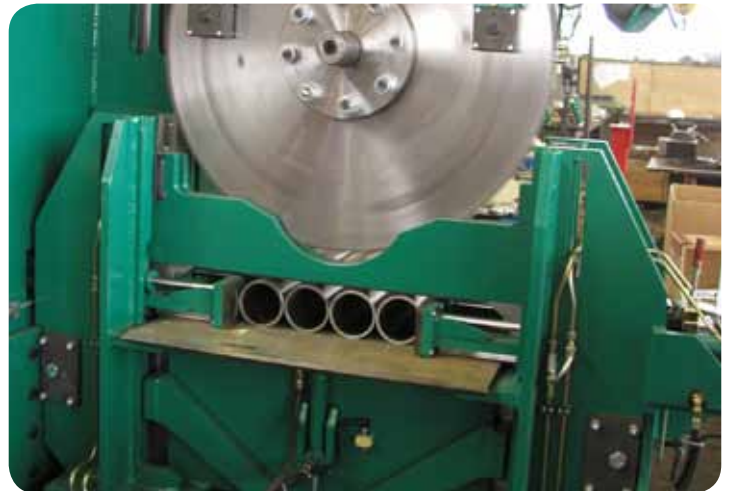
# SAWING TECHNOLOGY

The Maschinenfabrik Liezen und Gießerei GmbH is working with the development and design of sawing and milling machines for the steel and non-ferrous industry for more than 10 years.

Constant development and advancement enable MFL to offer our worldwide customers only machines that employ the latest state of the art design. The machines are mainly used for quality and capacity enhancement.

## OVERVIEW OF TYPES

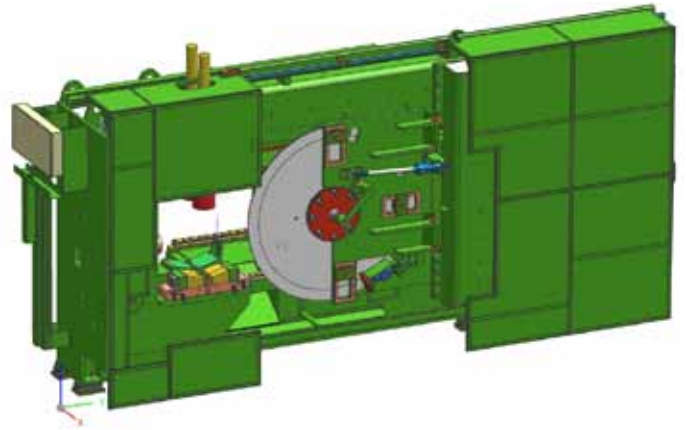
- Single cut sawing machines for billets, bars, rails and profiles
- Layer sawing machines for tubes and profiles
- Sawing machines for aluminium and steel plates
- Sawing machines for steel slabs
- Sawing machines for material inspection (samples)
- Sawing machines for axles



# SINGLE CUT SAWING MACHINE

MFL provides economic and cost saving solutions for:

- Steel manufacturers
- Seamless tube manufacturers
- Forging plants
- Manufacturers of profiles (I, U, H, etc.)



Type	Material Ø mm	Material □ mm	Saw blade Ø mm	Driving power kW	Flange Ø mm
<b>HK 450 E</b>	30 - 120	110 x 110	360 - 450	22	120
<b>HK 550 E</b>	30 - 160	145 x 145	370 - 550	30	160
<b>HK 850 E</b>	60 - 240	210 x 210	600 - 850	55	240
<b>HK 1150 E</b>	60 - 370	340 x 340	850 - 1150	90	320
<b>HK 1350 E</b>	100 - 440	400 x 400	1050 - 1360	110	400
<b>HK 1650 E</b>	180 - 520	470 x 470	1300 - 1650	132	500
<b>HK 2000 E</b>	220 - 700	650 x 650	1620 - 2000	160	500 (600)
<b>HK 2200 E</b>	220 - 800	720 x 720	1800 - 2200	160	500 (600)

## Cutting time for billets

- Ø 80 mm approx. 8 sec.
- Ø 120 mm approx. 14 sec.
- Ø 240 mm approx. 38 sec.
- Ø 370 mm approx. 134 sec.
- Ø 520 mm approx. 268 sec.

Calculation is based on material 42CrMo4







*Sawing plant HKA 2000 E160  
for round billets*



*Sawing plant HKA 550 E45  
for squared bars*

## Application of single cut sawing machine



*Tubes*



*Squared material*



*Round billets*



*Profiles*

PERFECTION IN ALL AREAS

## SAWING MACHINE FOR LAYER CUT

MFL provides economic and cost saving solutions for:

- Seamless tube manufacturers
- Beam and profile manufacturers
- Manufacturers of angles and bulkheads



Type	Layer width max. mm	Saw blade Ø mm	Driving power kW	Flange Ø mm
<b>HK 850 L</b>	450	600 - 850	<b>55 / 75</b>	240
<b>HK 1150 L</b>	650	850 - 1150	<b>75 / 90</b>	320
<b>HK 1350 L</b>	850	1050 - 1360	110	400
<b>HK 1650 L</b>	1050	1300 - 1650	132	500
<b>HK 2000 L</b>	1250	1620 - 2000	160	500
<b>HK 2200 L</b>	1500	1800 - 2200	160	700

### Cutting time for tubes

Ø 88.9 x 9.4 mm (9 tubes/layer)	approx. 2.3 sec. / tube
Ø 114.3 x 12.7 mm (7 tubes/layer)	approx. 3.2 sec. / tube
Ø 177.8 x 13.7 mm (4 tubes/layer)	approx. 6 sec. / tube

Data based on sawing machine HK 1350 L110 / material St52





*Sawing plant HKA 1350 L110  
for tubes*

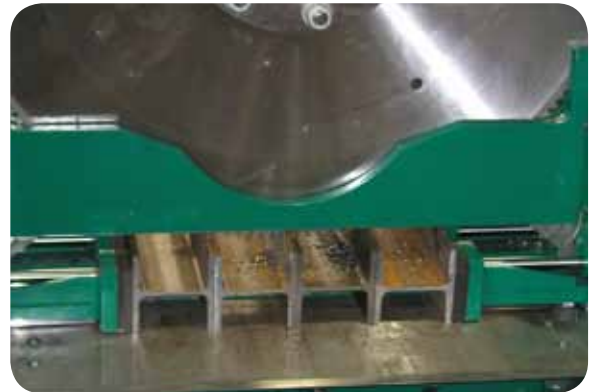


*Sawing plant HKA 1350 L110  
for profiles*

## Application of layer cut sawing machine



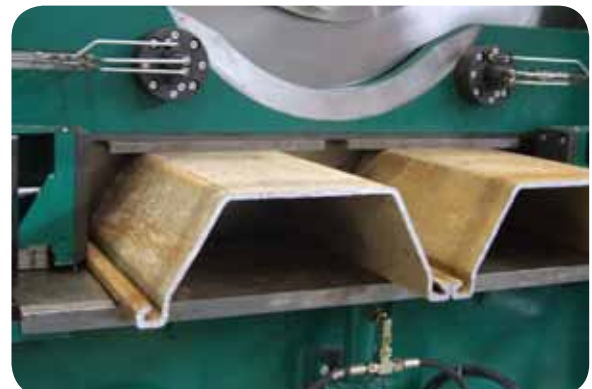
*Tubes*



*Profiles*



*Angles*



*Bulkheads*