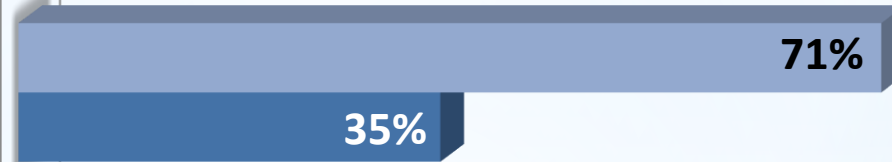


■ Employment ■ Added value rate



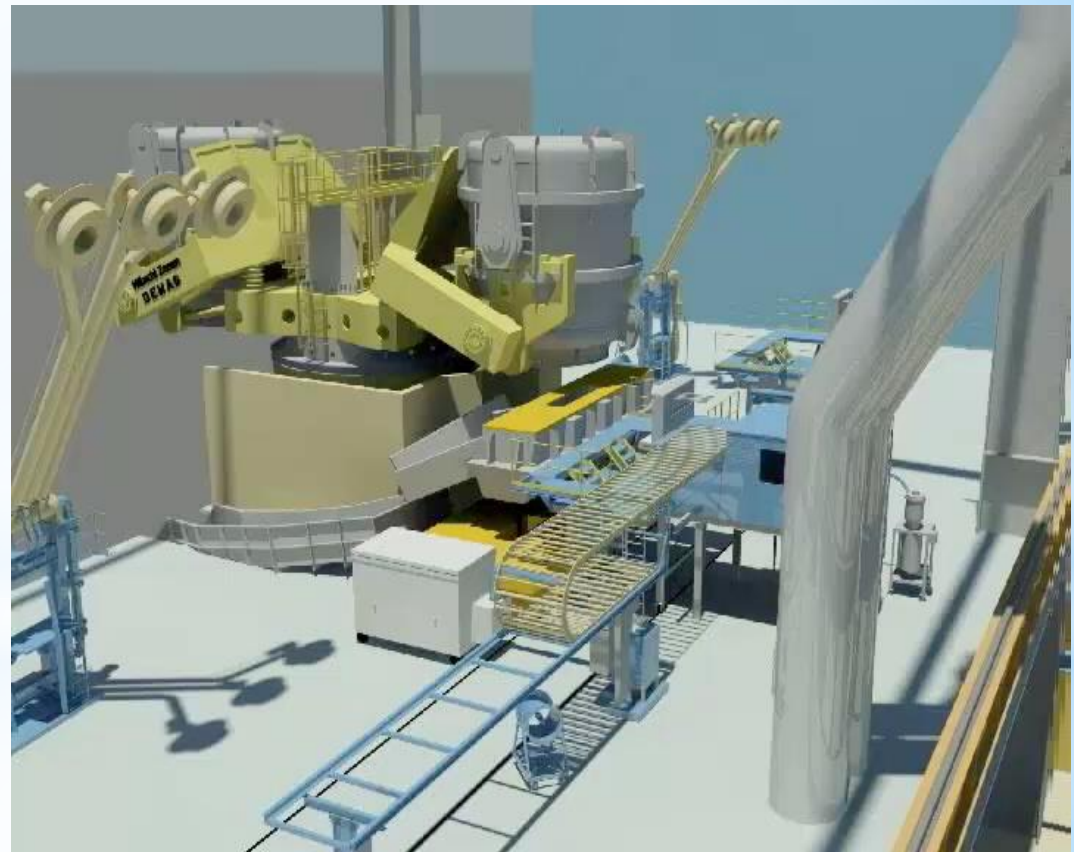
CCM2-New Caster Configuration



- ❖ Cassette type curved mold 900 mm length
- ❖ Product Size

Machine radius/length 8m/22.4 m
Thickness 203 - 254 - 305 mm (8" - 10" - 12")
Width 1067 - 3150 mm (42" - 134")
Annual production 2.0 mtpa

- ❖ DynaFlex hydraulic oscillation
- ❖ Mold Expert breakout prediction system
- ❖ LevCon mold level control system
- ❖ DynaPhase dynamic calculation of steel grade properties
- ❖ Dynacs 3D secondary cooling system
- ❖ DynaGap Soft Reduction for improved internal slab quality
- ❖ DynaTac high temperature casting concept for optimum slab surface quality



*Continuous Caster 4 –
Already in place
Straight mold
6" to 8"

Products:

- ❖ Full Hard for Automotive
- ❖ Temper Sheet & Electrical Steel
- ❖ Double Reduction Tinplate and Chrome Plate

New equipment:

- ❖ Reheating Slabs Furnace 250 t/h
- ❖ New Rougher Mill 4 Hi
- ❖ 7th Stand Finishing Mill 10,000 Kw
- ❖ Repower Finishing Mill F-1 to F-6, 5,000 Kw to 10,000 Kw
- ❖ Increase Cooling System Turbolaminar
- ❖ Three (3) Downcoiler 30 ton each
- ❖ Coils Handling System
- ❖ Surface Inspection Line

Benefits:

- ❖ Increase capacity from 2.8 to 4.0 mmt/y
- ❖ Improve product quality specifically automotive grades
- ❖ Yield improvement and overall availability
- ❖ Expansion of existing product mix related to dimensions and steel grades



Shift toward higher quality grades

Products:

- ❖ Automotive (Full Hard)
- ❖ Tinplate
- ❖ Temper Sheet
- ❖ Chrome Plate
- ❖ Silicon

New equipment:

- ❖ Pickle Line and Tandem Col Mill 5 Stands 1.5 mmt/y
- ❖ Electrolytic Cleaning Line 0.3 mmt/y
- ❖ Continuous Annealing Line and Temper in Line 0.75 mmt/y
- ❖ Batch Annealing Furnaces 100 % H₂, 0.42 mmt/y
- ❖ Double Reduction Mill 0.42 mmt/y
- ❖ Electrolytic Tining Line and Chrome 0.28 mmt/y

Benefits:

- ❖ Achieve highest possible quality across all existing sheet products
- ❖ Achieve highest possible quality for tinplate products
- ❖ Flexibility to shift production among Tinplate, Sheet, Electrical and Full Hard
- ❖ Cold mill complex now positioned to serve sophisticated customer base

