

# HJK CONSULTING ENGINEERS

**Project Management – Technology – Operating – Consulting Excellence** 







Companies, Equipment, CAPEX/OPEX, Production Data



Actual economic situations on the ferrous and non-ferrous market, combined with deep knowledge of individual steel making plants all over the world, together with our global expert network allows HJK Consulting Engineers providing information as well as supporting its clients in analyzing actual performance, developing future optimization potential, both in economic and environmental view.

For information respectively details on Plant Data please contact us.

For further details please contact: Hans-Joerg Klapf

CEO/Owner of HJK Consulting Engineers GmbH

Am Ipfbach 55

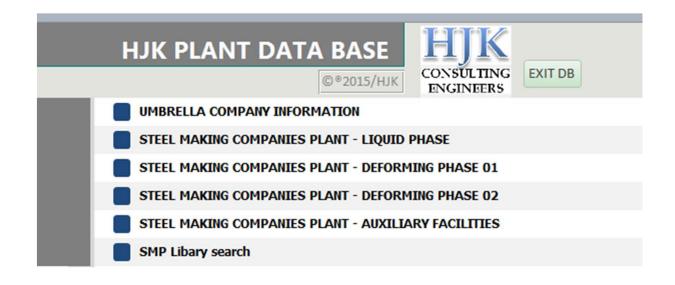
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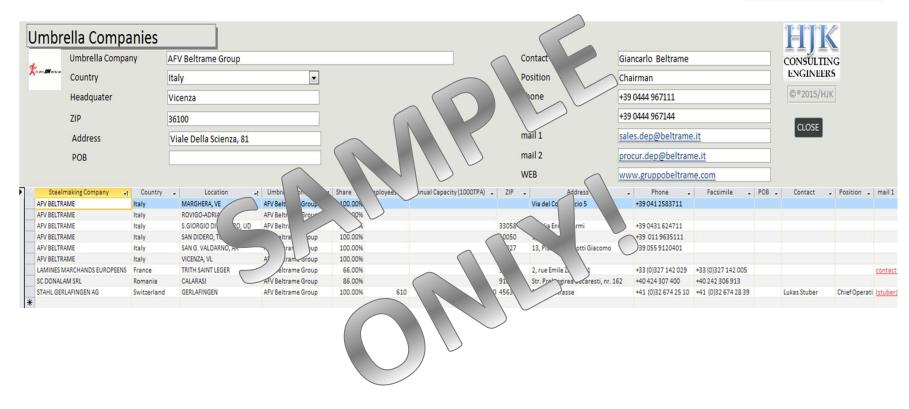
















| MANUFACTURER B)  RAT    ILL POWER (MW)  1350  YEAR OF START UP  H.SS  CUT OUT TORQUE (mNm)  NGOT   T SLABS (t)   |   |   |
|--|---|---|
| Umbrella Company  Share  BLOOMING/SLABBING MILL BILLET MILL HEAVY SECTION MILL MEDIUM SECTION MILL LIGHT SECTION MILL LIGHT SECTION MILL WIDE R MILL REROD MILL HOT STRIP MILL TEMPER/SKIN PASS F TURNOVER  I Plant Status OPERATING MANUFACTURER A) DEMAG, DE MANUFACTURER B)  MAX ING EIGHT BLO NGOT  STABS (t)  |   |   |
| PLANT NO  H-STAND: WORK ROLL DIAM  Plant Status  OPERATING  MANUFACTURER A)  DEMAG, DE  MANUFACTURER B)  HEAVY SECTION MILL  MEDIUM SEC | WEB   |   |
| PLANT NO  1  Plant Status  OPERATING  MANUFACTURER A)  DEMAG, DE  MANUFACTURER B)  MAX INCO EIGHT BLO  YEAR OF START UP  H.STAND: WORK ROLL DIAM  FTURNOVER  SHEARS: CUTTING FORCE (mN)  SHEARS: CUTTING FORCE (mN)  NGOT IN TSLABS (t)  | S MILL PLATE MILL PICKLING LINE   | REVERSING CRM TANDEM MILL BATCH ANN                 |
| 1961 YEAR OF MODERNIZING  TYPE OF MILL  3-HI BLOOMING MILL REHEATING FURNACES: NUMBER  1 REHEATING FURNACES: TYPE  SOAKING PIT HORIZONTAL STAND: TYPE  3-HI  EDGER: TYPE  NO  EDGER: ROLL DIAMETER (mm)  BLOOM X (mm)  400  SLAB WIDTH MAX (mm)  SLAB WIDTH MAX (mm)  SLAB THICKNESS MAX (mm)  FOLIED STEEL GRADES A)  HIGH-GRADE STEELS  ROLLED STEEL GRADES B)   | Foreman per shift Operator per shift Helper per shift  CAPEX Process Equipment (EUR)  PEX Process TurnKey (EUR)  CAPEX (EUR) EPCS | NOMINAL CAPACITY (1000 TPA) 230  Data Date 01-Sep-0 |







| MANUFACTURER B)  RAT    ILL POWER (MW)  1350  YEAR OF START UP  H.SS  CUT OUT TORQUE (mNm)  NGOT   T SLABS (t)   |   |   |
|--|---|---|
| Umbrella Company  Share  BLOOMING/SLABBING MILL BILLET MILL HEAVY SECTION MILL MEDIUM SECTION MILL LIGHT SECTION MILL LIGHT SECTION MILL WIDE R MILL REROD MILL HOT STRIP MILL TEMPER/SKIN PASS F TURNOVER  I Plant Status OPERATING MANUFACTURER A) DEMAG, DE MANUFACTURER B)  MAX ING EIGHT BLO NGOT  STABS (t)  |   |   |
| PLANT NO  H-STAND: WORK ROLL DIAM  Plant Status  OPERATING  MANUFACTURER A)  DEMAG, DE  MANUFACTURER B)  HEAVY SECTION MILL  MEDIUM SEC | WEB   |   |
| PLANT NO  1  Plant Status  OPERATING  MANUFACTURER A)  DEMAG, DE  MANUFACTURER B)  MAX INCO EIGHT BLO  YEAR OF START UP  H.STAND: WORK ROLL DIAM  FTURNOVER  SHEARS: CUTTING FORCE (mN)  SHEARS: CUTTING FORCE (mN)  NGOT IN TSLABS (t)  | S MILL PLATE MILL PICKLING LINE   | REVERSING CRM TANDEM MILL BATCH ANN                 |
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