

Consulting Services for Card Manufacturing Facilities

With more than 20 years of experience in the card manufacturing business and an in-depth knowledge of card production equipment, CCD can partner with your company and help it build a new card manufacturing facility, and also help expand the range of products of an existing production site.

CCD's consulting services range from developing an initial design concept that meets your needs, up to the delivery of a new turn-key plant with all the equipment installed and ready to be operated.

CCD can assist you in your plans for any type of plastic card and smart card application. Thanks to its established relationships with a wide variety of card manufacturing equipment suppliers, card or smart card producers, and application providers, CCD is well placed to help you define precisely the right type of solution for your requirements. CCD with its proven track record of operating around the world, can support you through all the phases of your project and can enter into a long-term business relationship with your company to support it on an on-going basis after production has started.

Depending on your needs, CCD can provide a complete range of consulting services going from the definition of the initial scope of the project up to assistance during the manufacturing ramp-up of the plant, or it can assist you only during certain critical phases of the project.

The types of consulting services we provide include:

- Assessment of customer needs
- Capacity analysis: current and future
- Equipment selection
- Facilities planning
- Floor plan design
- Workflow optimization
- Installation of equipment
- Testing of equipment
- Equipment maintenance and service procedures
- Operator training
- Manufacturing know-how transfer
- On-going production support
- Expansion of the range of card products being manufactured
- Manufacturing capacity increases
- Hotline support
- Security Management
- Quality Management
- ISO 9000 Certification





Challenge Card Design

A card manufacturing plant typically includes the following production areas:

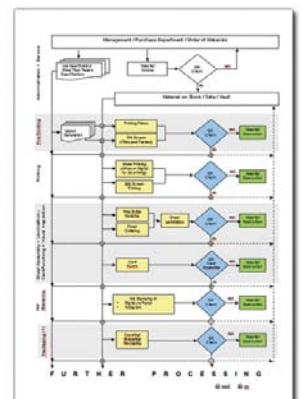
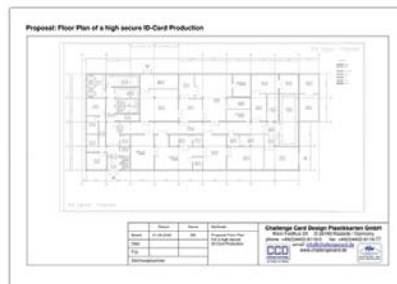


- Card layout design software and hardware
- Pre press for offset printing equipment
- Pre press for silk screen printing equipment
- Plastic sheet color offset printing (5 color plus UV dryer)
- Plastic sheet silk screen printing
- Tape layer for application of magnetic stripe
- Sheet collating and pre fixing (welding table and semiautomatic sheet collating)
- Sheet lamination
- Sheet cutting
- Card punching
- Hologram and signature stripe application
- Module lamination (chip module pre preparation)
- Card milling / implanting (smart card production)
- Card punching (plug punch for GSM application)
- Card counting and qualification devices
- GSM card personalization (laser engraver and chip encoding)
- Credit card personalization (magnetic stripe and embossing; optional chip encoding)
- Scratch off card personalization (ink jet and scratch label application)
- Wrapping of personalized cards in foil (seal packaging)
- Card mailing system

Upon engagement our consulting team will meet with your company and put together a mutually agreed upon detailed implementation plan and a detailed project timeline.

Typical Equipment:

- Work tables
- Laminating presses and cooling station
- Cooling system
- Sheet cutter
- Die cutter
- Hot stamp machine for holograms
- Dual Interface Chip Milling & Embedding Machine
- Set of production tools
- Torsion tester
- Bending tester
- Set of raw materials and support materials
- Set of Chips & Mifare inlets



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