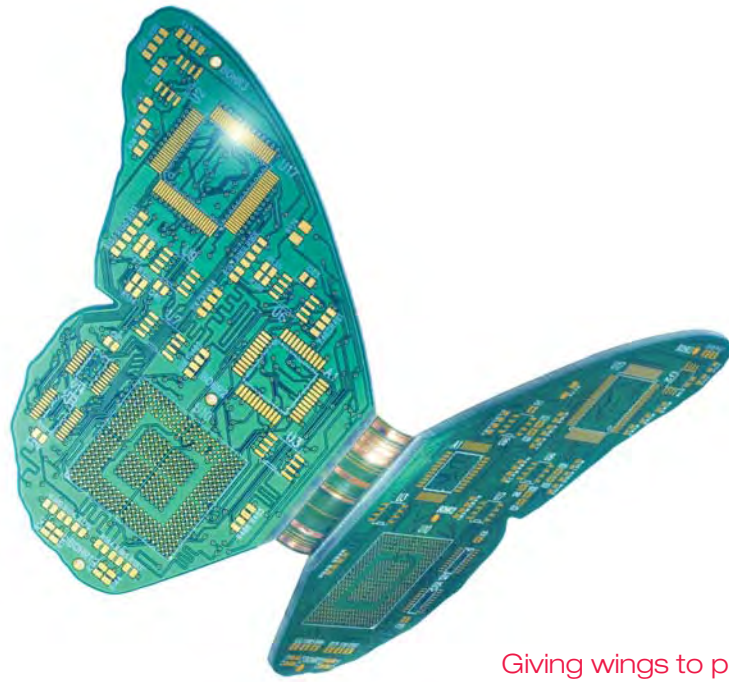


contag

Prototype Circuit Boards



Giving wings to prototypes.

English Version





Andreas Contag, proprietor

Foreword

"How would you sum up the company philosophy at **contag**?" I was asked recently.

I think this short statement says it all: "We're different to the others!" Though not "different" in any old way but "different" in the sense of higher quality, greater reliability ... and faster. At least, that's the goal we pursue at work – day in and day out. And precisely because we place such high demands on ourselves, you can expect so much from us. We give our best to supply you with the best.

Quality

Flexibility

Speed

Delivery reliability

The prototype specialists

You are looking for a partner that can produce prototype printed circuit boards swiftly and highly reliable? Someone who delivers the highest quality in the shortest time? Well, look no further. We would only be pleased to prove to you that the "impossible" is sometimes possible.

What **contag** offers in a nutshell

- Express production at unbelievable speeds
- State-of-the-art technology and
- Unrivalled service

You will get a full briefing before making the PCBs tailored to your requirements. We also specialise in express production times and delivery reliability even if it's only a matter of hours. In any technology too.

The right choice for your application!

- Single- and double-sided PCBs
- Multilayer up to 24 layers
- HDI, blind via and buried via technology
- Hybrid multilayer – e.g. Rogers + FR4
- Flexible and rigid-flexible boards
- PCBs for HF applications
- Special materials
- Special mechanical designs
- UL certification

All from a single source! Other services based on modules:

- Layout design
- Insertion
- Solder stencil production



SPEED

Extremely short delivery times



TECHNICS

Standard to high-tech



SERVICE

24hours round-the-clock



SPEED

Deadlines rigorously
adhered to

Everyone promises to deliver on time. But we prove it. After all, promises are good but facts and results are better.

At **contag**, our delivery reliability rate is over 99%. You can't get much more punctual than that – and we have the statistics to show it.

This exceptional reliability never fails to surprise our customers. And we have no intention of changing it!

Delivery is by express parcel service, by direct courier or by plane.

And don't forget:
contag gives wings to prototypes.



Delivery reliability over the last two years

Schedule	Time	Extra Charges	
		Set-up	PCB
Public holiday		On request	On request
Super High Speed	from 4 hours	+100%	+200%
High Speed	24 hours	+75%	+150%
Express 2	2 workdays	+50%	+100%
Express 3	3 workdays	+35%	+70%
Express 4	4 workdays	+20%	+40%
Standard	5 workdays	-----	-----
Slowcoach 10	10 workdays	-5%	-10%
Slowcoach 15	15 workdays	-10%	-20%



Speed -
no limit

Redefining speed, always on the move, permanently seeking out new challenges - that's the world of **contag**.



Speed from the very onset

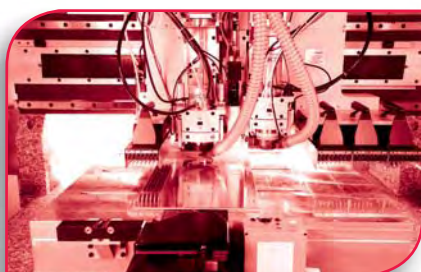
We set the pace as soon as your price query comes in: you get our offer back immediately either by fax, e-mail or on the phone. Plus, we are available on a round-the-clock basis.



What others call "High Speed" is standard procedure at **contag**

Which is why we can produce multi-layer from about 14 hours onwards - and that around the clock. No special meetings required. Simply send in your data by e-mail and we take care of the rest.

But if we are occasionally allowed to take our time - where you give us, say, ten days or more - then we will let you have a generous discount (what we call out "Slowcoach" rate).



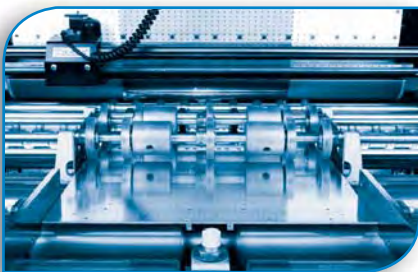
You set the delivery date

Yes, you can even stipulate when the goods are to be delivered. We will meet any deadline. Indeed, we offer deliveries at the fastest of speeds.

And that includes special technologies as well.



TECHNICS



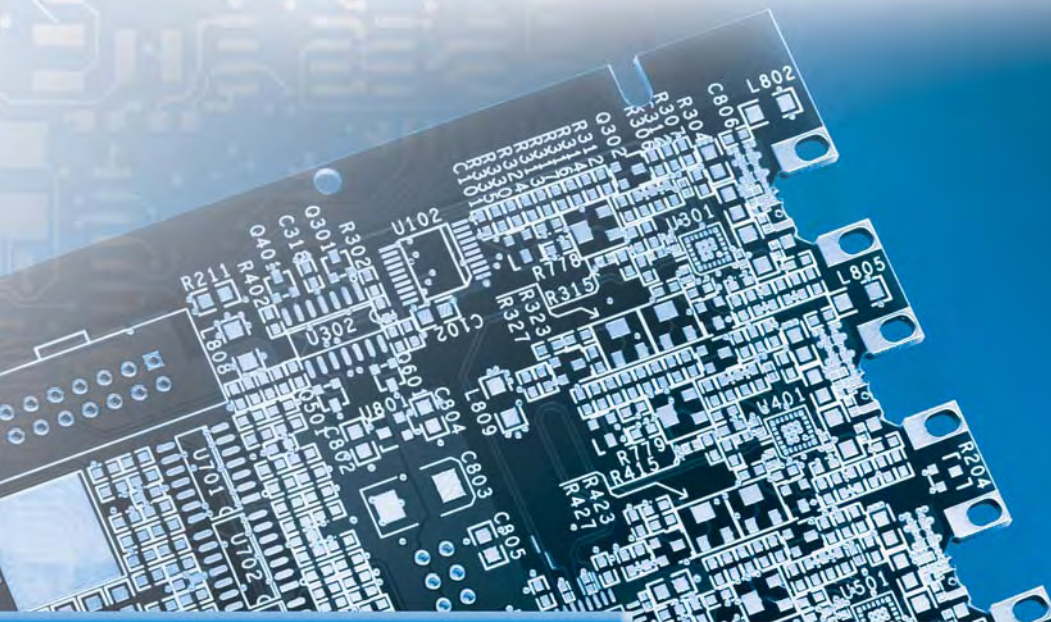
 **Exact to the**
very last detail

Since our production technology is state-of-the-art, we can provide the highest quality and flexibility even in the case of special requirements.

Maximum precision

- CNC machines with laser tool measuring and optical position correction
- High-end photo plotter for super-accurate artworks
- Automatic light exposure system to minimise offset between drill and conductor layout
- The patented vacuum etching technology ensures reliably replicable etching results
- New-generation testing equipment (AOI and electrical finger testers)

Our customers know that **contag gives wings to prototypes.**



High-tech constructions

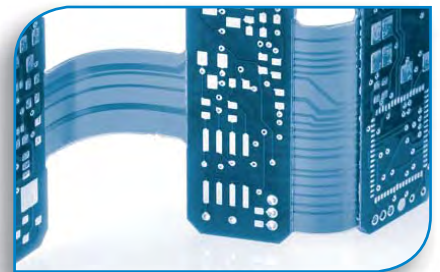
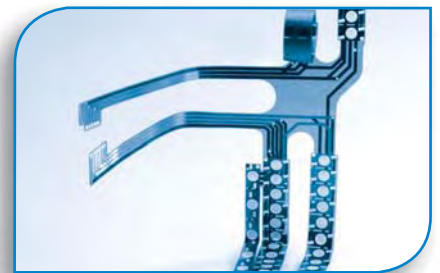
Innovation is the result of ongoing development. We make sure that we remain at the cutting edge of technology. So that you get the PCBs you need for your applications.

Efficient constructions

- Micro vias $\geq 75 \mu\text{m}$
- Plated-through holes $\geq 100 \mu\text{m}$
- HDI and SBU technology
- Extra-fine conductor technology with structures $\geq 50 \mu\text{m}$
- Design and production of impedance-controlled PCBs
- Z-axis-controlled drilling and milling
- Milling as per conductor layout
- Laser contour cutting

A large selection of surface processes

- HAL lead-free
- HAL with lead
- Chemical nickel gold (solderable, bonderable)
- Chemical tin
- OSP – organic surface protection
- Galvanic conductor gold
- Galvanic nickel gold (partial and complete)



SERVICE



■ Excellent quality



DIN EN ISO 9001



Is the standard proof of a successful quality management process as the basis for product quality and delivery reliability.

Highest quality demands

During the final inspection procedure as per IPC-600 Class 3, all our PCBs are quality controlled. But before that, a series of process-oriented and product-tracking tests are in place to ensure top product quality at all times. Chemical analyses, cross section analysis, first sample reports and special customer-specific inspections are all part of the standard service in our quality management department.

Quality Prize 2002



A prize for the "Best Quality Management" as awarded by the States of Berlin and Brandenburg. To quote the jury (whose members came from

all walks of business) when they announced first place: "At **contag**, the highest quality is produced at enormous speed".

Environment Prize



In 1997, **contag** surprised its business world with a pioneering environmental concept. **contag** was the first European manufacturer to produce PCBs on a

"wastewater-free" basis as foreseen by the law. And so, the States of Berlin and Brandenburg went on to award the Environment Prize in 1999. The lead in knowledge is tremendous and even several years on no competitor has managed to catch up.



■ Service in concert

Only those who go their way single-mindedly will get to where they want. Our goal: absolute customer satisfaction. And the way there? A concert of transparency, competence and commitment.

Transparency

- Job done with no hidden costs
- All extra charges and/or discounts visible at a glance
- Lower costs via specialisation on low-quantity production

Competence

- Over 25 years of experience in the field of express production for prototypes and small series
- Probably the fastest PCB manufacturer in Europe

Commitment

- 24hours consultation service
- Immediate offers
- Flexibility in the case of special requirements

The contag service is more than you expect. Much more. Exceptional.

Because we focus squarely on our customers' wishes and requirements.

Simply ask for the technology that you need. Choose a delivery date that suits you. Tell us your wishes and you will get a solution – and that on a 24-hour basis.

Now you know it:
contag gives wings to prototypes.

Continuous growth



Success is the key to growth. However, we place great value on growing healthily. At controlled and steady rate.

What's important to us?

- Teamwork, commitment and flat hierarchies
- An open and unconventional corporate culture with an excellent working atmosphere
- A high level of technological knowledge by the use of continuous professional development, internal courses and specialist programmes.

We grow continuously. Every year without exception – for over 25 years now!

What other company can make that proud claim?

Our customers know the reasons. Here a short reference list ...

- DaimlerChrysler AG
- Siemens VDO Automotive AG
- Tyco Electronics, Power Systems
- Philips Technologie GmbH
- ebm-papst GmbH & Co. KG
- Dräger Safety AG & Co. KGaA
- Pinnacle Systems GmbH
- BERU Electronics GmbH
- and many more

Brief history

- 1981** Conti started up in Berlin-Spandau by the brothers Andreas and Dietmar Contag, then both students
- 1995** Relocation to Brunsbütteler Damm 136 in D-13581 Berlin, premises with an operating space of 800 sq.m.
- 1998** QM System ISO 9001
- 1999** Berlin & Brandenburg Environment Prize, first place
- 2002** Berlin & Brandenburg Quality Prize, first place
- 2005** Renamed CONTAG GmbH with a workforce of 60
- 2006** Rebuilding of factory: 3,500 sq.m. of production over site 16,000 sq.m. in size





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