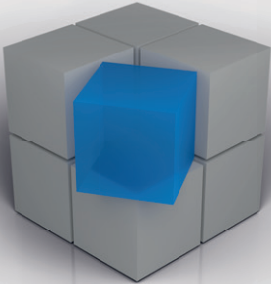




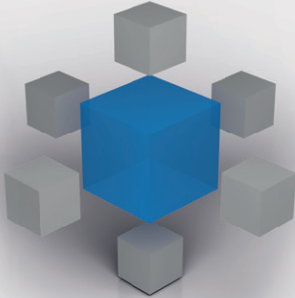
# COMPANY PORTRAIT

## PROCESS DESIGN IS OUR PASSION.

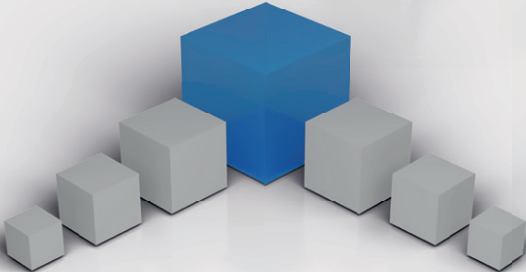
Integrated management systems



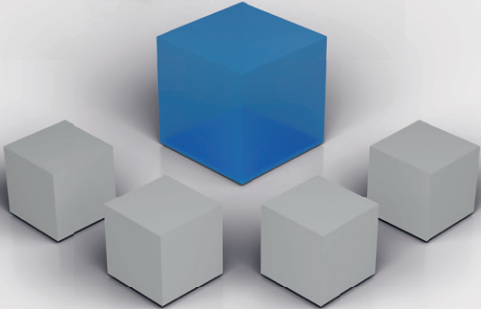
Process management and software solutions



Logistics and material flow planning



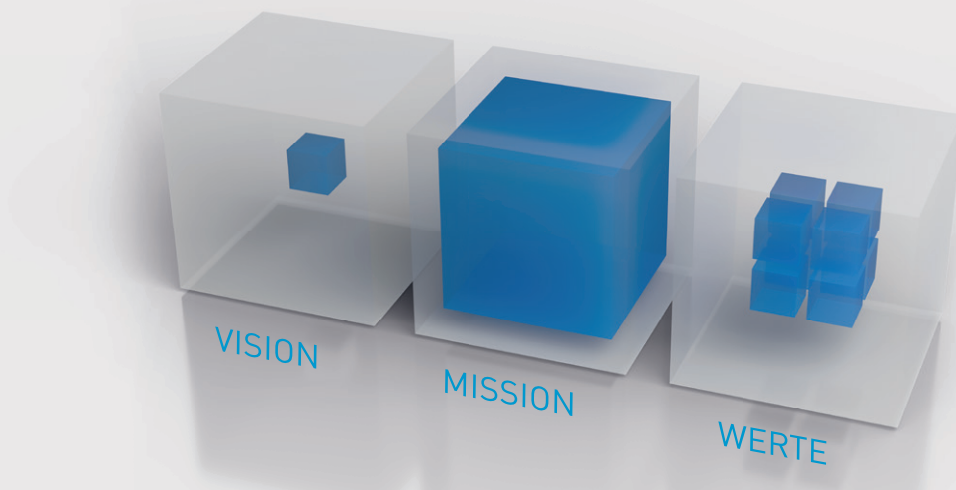
Seminars and qualification processes



## MISSION STATEMENT

Our passion is the design and implementation of structures and processes in a wide variety of industries and companies for 20 years now. Together with you we want to develop tailor-made solutions and support you with the latest scientific and economic knowledge in your projects paired with a pragmatic implementation on site.

Our ultimate goal is your satisfaction. Therefore, first of all, we want to understand you and your tasks in order to be able to develop your future-oriented business. You will be successful if you are open for changes. Changes mean development and further development guarantees future viability.



### VISION

Our **vision** is to be the market leader in the holistic process management for high-end medium-sized companies in southern Germany.

### MISSION

Our **mission** is sustainable improvement of effectiveness and efficiency within the process chain of our customers.

### VALUES

Our **values**:

- professional and pragmatic
- structured and flexible
- assertive and respectful
- reliable and loyal

In total **fairness** through **transparency**



## OUR MOTTO

„If you want to build a boat, do not gather your men and women to give them orders, to explain every detail, to tell them where to find everything. If you want to build a boat, let raise in their hearts the desire for the sea.“

Antoine de Saint-Exupéry

## WHAT THIS MOTTO MEANS TO US:

Success can only be achieved if goals are specifically defined and pursued with joy, therefore we inspire our customers through our own enthusiasm.

We are characterized by a fair and cooperative partnership to our customer and within our team.

Since 1999 we are successfully developing cross-industrial solutions for the demanding tasks for local customers and beyond the region.

Our standing customer relationships and a long-time core team will also convince you!



## WHO WE ARE

PL- engineering's which exists for 20 years is an owner-run company with engineers who are specialists in production technologies, logistics and industrial organization. Our networked team combines competence and enthusiasm. With its experience and knowledge in special fields, and specific technical education, our team can accompany your business holistically within the projects to reach the desired goals. Regular advanced trainings guarantee a continuous development of knowledge within our team which we pass on to our customers. We would be more than happy to introduce ourselves and getting you to know us better.

## TEAM

Within PL we attach great value on continuous improvement and qualification of our team member. In addition to self-evident basic skills along our performance blocks such as core tool professional VDA, various auditor training courses, project management, software applications and lean6Sigma methods, this includes also soft skill qualifications and dealing with people in project scenarios. Sustainable results can only be achieved if your team is able to pass on its own skills to the employees of our customers during the projects.

## FACTS AND FIGURES:

### Industries:

Mechanical engineering, automotive suppliers, logistics, service, software, electronics, pharmaceuticals, cosmetics, trade, contract manufacturing, telecommunications, etc.

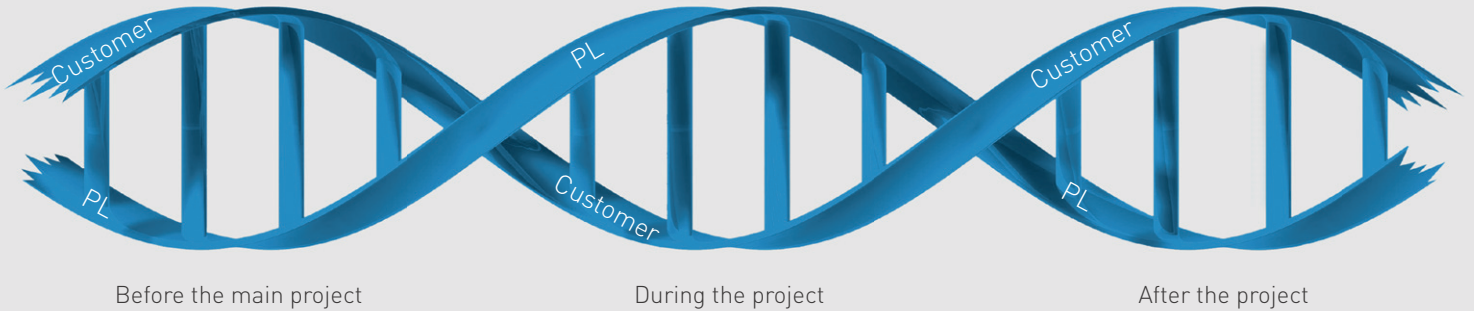
### Company sizes of our customers:

From a small family-run business up to companies with several thousand employees.

### Realized projects:

More than 200 projects with terms from a few days up to several years.

## TRANSPARENT PROJECT MANAGEMENT FROM THE VERY BEGINNING!



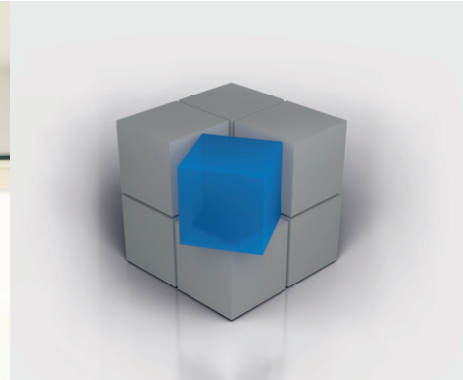
PL Engineering stands for transparent project management from the very beginning! We see us as your competent partner who lives engineering services in every project scenario in close contact with his customer. We connect your DNA profile with our DNA profile in order to guarantee the best process realization on site. We implement the three stages of our project management in close collaboration with our customer from the very beginning.

Before the main project we record comprehensively your needs and requirements and undertake a status analysis. We organize a common multi-stage kick-off with all parties involved in the project and present of our concrete, goal-oriented actions.

During the project we control it via PL-project files. Accompanying and integrative trainings, a regular communication and a PL-Toolbox use are part of our PL standards as well as a comprehensive transparency via PL dashboard.

An end-of-project meeting complements our activities with a target/performance comparison followed by a handover to our customer or process owner. Lessons learned, aftercare and best practise are up to standard of our services. A validation of project goals takes place on demand in a follow-up aftercare meeting. Since our ultimate goal is your satisfaction, we will be available at all times, before, during and after a project as your competent contact partner.





## INTEGRATED MANAGEMENT SYSTEMS

### GENERAL SERVICES:

- Integrated and transparent project management, assumption of project management
- Accompanying employee training
- Consideration of all previously developed company standards
- Holistic consideration of company processes within the company along the requirement context
- Access to network partners and their integration
- Preparation, monitoring and follow-up of certification processes
- Active implementation support in all processes, if desired
- Mapping of processes and systems in IT set ups

### MANAGEMENT SYSTEMS

- Design, implementation, development and integration of management systems
- Integration of customer-specific requirements within the supply chain and evaluation of QAA/QMA
- Assumption of QMR, EMR or EnMR functions
- Task Force operations before and after audits
- „Basic revision” of existing management systems
- Conversion of existing systems to a process orientation, matching the organizational structure of the company
- Integration of new systems or roll-outs of existing systems
- Mapping of the systems in CAQ, DMS and intranet solutions

### PL STANDARD METHODS:

- Status analysis tools
- Project Cockpit
- Training blocks
- Standardized methods and tools

### STANDARDS & METHODS:

- ISO 9001, IATF 16949, VDA 6.4, VDA 6.2
- ISO 14001, EMAS, ISO 50001
- OHSAS 18001, ISO 45001
- HACCP
- ISO 27001



## AUDITING

- Design of internal audit programs
- Conducting internal audits in accordance with current standards
- Implementation of delta audits for internal and/or external changes
- Development of supplier audit programs and execution of audits in the supply chain
- Preparation, monitoring and support of customer audits

## METHOD INTRODUCTION

- New launch or further development of sector- and customer-specific methods within the supply chain
- Integration of individual methods within IT workflows or within CAQ systems
- CoreTool-Training and introduction according to automotive standards
- Increase of efficiency and effectiveness along parts approval and complaints processes

## STANDARDS AND METHODS:

- System audits in accordance with current standards
- VDA 6.3 process audits
- VDA 6.5 product audits within the company
- changeover audits

## STANDARDS AND METHODS:

- APQP, FMEA, SPC, MSA, PPAP
- VDA guidelines in the currently valid version
- 5W, Ishikawa, Pareto, 8D
- SIPOC, Swimlane
- RACI, SWOT, Turtle
- CAQ integrations



## PROCESS MANAGEMENT AND SOFTWARE SOLUTIONS

### GENERAL SERVICES

- Systematic and structured collection of actual processes and detailing of an individual customer-specific process model
- Coherent and transparent project management, acquisition of project management
- Accompanying employee training
- Consideration of all previously developed company standards
- Holistic consideration of processes in the company along the requirement context
- Access to network partners and integration of partners
- Active implementation support in all processes, if desired
- Mapping of processes in IT systems

### PROCESS MANAGEMENT

- Design, development and improvement of individual business processes
- Designing and anchoring a process organization in the company matching the organizational structure
- Setup and implementation of Supply Chain Management, taking the cost analysis in the supply chain into account
- Resolving weaknesses in internal communication processes across all interfaces along the process chain
- Restructuring of production plants, production units and logistics areas
- Procurement and supplier qualification processes
- CIP processes: organizational framework, design of work areas, visualization and reporting, training and support

### PL STANDARD METHODS:

- Project Cockpit
- Qualification Program PL-PS
- PL-Project Files
- Standard tool-box
- Cost analysis tool

### STANDARDS AND METHODS:

- SWOT, RACI, Turtel
- SIPOC, Swimlane
- SLA, OLA
- Leveling
- BPMN
- ToC
- Change Management
- Project structure plans
- CIP control loop
- Stakeholder analysis, VoC



## SOFTWARE SOLUTIONS

- We consider your IT landscape from the point of view of your business processes
- Redesign of the internal IT processes with interface definition, suitable to the business processes
- Efficient adaptation of the standard office programs using Visual Basic, tailored to your processes
- Selection Process - including ERP- , PPS- , WWS - , MES- , CAQ- systems in consideration of the affected processes
- Preparation of Specifications, preparation of tender documents and tender evaluations
- Support in decision-making and implementation monitoring
- Illustration of processes in software solutions
- SharePoint support

## PL PRODUCTION SYSTEM (thinkLean@pl)

- Introduction of a holistic PL-production system consisting of lean6Sigma, process management, ToC, TQM and pragmatic on-site methods suitable for small to medium-sized businesses
- Operational support of project teams regarding the introduction of individual methods of waste avoidance, such as SMED, TPM, VSM and Kanban
- Design, training and implementation of in-house lean strategies
- Implementation of 5S standards in office areas and in the production environment
- Designing and accompanying a cultural change within the company. Introduction of shop floor communication control loops, own responsibility of teams and open error culture as the basis of increasing efficiency in the company
- Design of interactive problem solving and compliance processes
- Cost Engineering in the SCM area and integration of supply chains

## STANDARDS AND METHODS:

- Visual Basic Tools, amongst others used for inventory, as complaints management
- Context Management
- Risk analysis tool
- Partner networks in the area of software

## STANDARDS AND METHODS:

- Lean6Sigma methods such as SMED, TPM, VSM, Kata, statistics, DMAIC
- ToC - Bottleneck viewing
- Process management standards
- TQM methods
- SCM methods
- 5S+S
- Shopfloor
- PLP/ZEP



## LOGISTICS AND MATERIAL FLOW PLANNING:

### GENERAL SERVICES

- PL phase model: Planning, optimization, detailed planning, implementation in the Phases
  - + Phase 1 – Planning
  - + Phase 2 – Planning - Real and Ideal
  - + Phase 3 – Detailed Planning
  - + Phase 4 – Project management as part of the realization
- Pragmatic planning in close consultation with management and operational base
- Efficient solutions in production and logistics on the basis of the experience gained from over 100 successfully realized projects
- Our planning modules enable the customer to request support exactly where it is needed

### PL STANDARD METHODS:

- Standardized planning blocks
- Professional project management
- ABC analysis
- Functional Analysis
- Value stream mapping
- Budget preparation / control
- Motion/sequence analysis
- Utility value analysis tool
- CAD
- Individual coaching
- Morphological solution schemes



## LOGISTICS & MATERIAL FLOW PLANNING:

- Restructuring and rough layout planning of production and logistics processes for a production plant
- Optimization of land use and of the internal material flow
- Expansion plans for a production plant
- Restructuring of internal stock areas including requirements for the warehouse management
- Structural alternatives for a new logistics centre
- Site evaluation of future-oriented potential and growth scenarios
- Requirements for the building department and coordination with the architects
- Support for tenders and bid comparisons

## IMPROVEMENT OF LOGISTIC PROCESSES

- Analysis of logistics processes and identification of optimization potentials (logistics audits)
- Development of logistic target processes
- Value Stream Mapping (VSM)
- Planning and reorganization of storage, procurement and consignment
- Inventory analysis and inventory optimization
- Application and introduction of Lean Logistics Methods
- Workplace and workflow optimization (5S, ergonomics, etc.)
- Setup time optimization
- Individual Coaching in the area of logistics
- Temporary takeover of the logistics management

## STANDARDS AND METHODS:

- Work follow: functional layout, ideal layout, real layout
- Function Diagram
- Requirement- / Specifications
- Material flow matrix
- One-piece flow
- Supermarket, FIFO, JIT, JIS

## STANDARDS AND METHODS:

- 5 S+S und Ergonomie
- Audit Checklists
- Lean Logistics Methods
- Process Flow Analysis
- Spaghetti diagrams (Process Analysis)
- Supermarkt, FIFO, JIT, JIS
- Time recording



## SEMINARS AND QUALIFICATION PROCESSES

### GENERAL SERVICES

- A qualified team of trainers
- Each training as standard or as an individual customer-specific qualification scheme
- We can competently offer further trainings through our additional network partners
- Access to certified/accredited educational institution
- Event, incentive and team building organization as a framework program for training
- Professional support of the HR team in the identification of training needs
- Integration of all trainings in the processes of personnel development

### SEMINARS

Implementation of in-house seminars, trainings and coaching on the following subjects:

- Project management
- Internal auditor training
- Various management systems Q, U, E, A, I
- Core tools Automotive
- Process management
- CIP
- Workshops
- Lean6Sigma
- 7 Q-Tools
- 5S and 5S Production Office
- Shopfloor, TPM, SMED

### PL STANDARD METHODS:

- Qualification programs of quality and environmental management
- thinkLean@pl: Green Belt training
- Compact seminars for sales, purchasing and process developer
- Quality Matrix 4.0
- TrainerNetWork-PL

### STANDARDS AND METHODS:

- ISO 9001, IATF 16949, VDA 6.4, VDA 6.2
- ISO 14001, EMAS, ISO 50001
- OHSAS 18001, ISO 45001
- HACCP
- ISO 27001
- Internal auditor training
- APQP, FMEA, SPC, MSA, PPAP
- VDA volumes in the currently valid version
- 5W, Ishikawa, Pareto, 8D
- VSM, spaghetti



## QUALIFICATION PROCESSES

- Conception, design, introduction and implementation of customer-specific, individual training programs on the subject areas of process management, management systems and lean6Sigma
- Design of modular qualification processes
- Development and implementation of training programs for new employees
- Introduction of staff development programs for team leaders and group leaders
- Design of coaching and train-the-trainer processes
- Support for funding applications
- Collaboration with certified educational institutions, in order to be able to fall back on eligible measures

## STANDARDS AND METHODS:

- Quality Program QM/EM
- Lean@Grass



## COMPANY ADDRESS

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fax + 49 7131 701032

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## OFFICE HEILBRONN

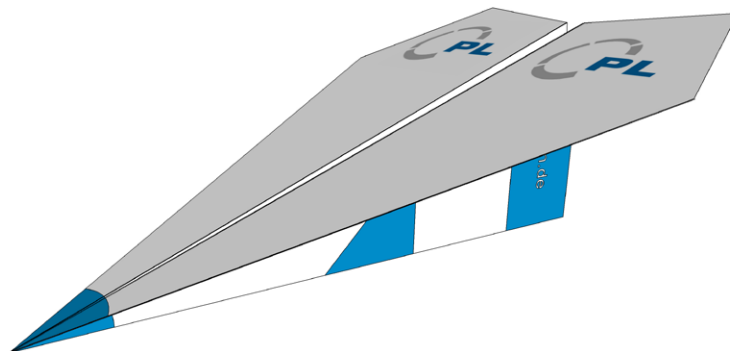
PL Engineering GmbH  
Stahläcker 22  
DE-74223 Flein

phone +49 7131 887406



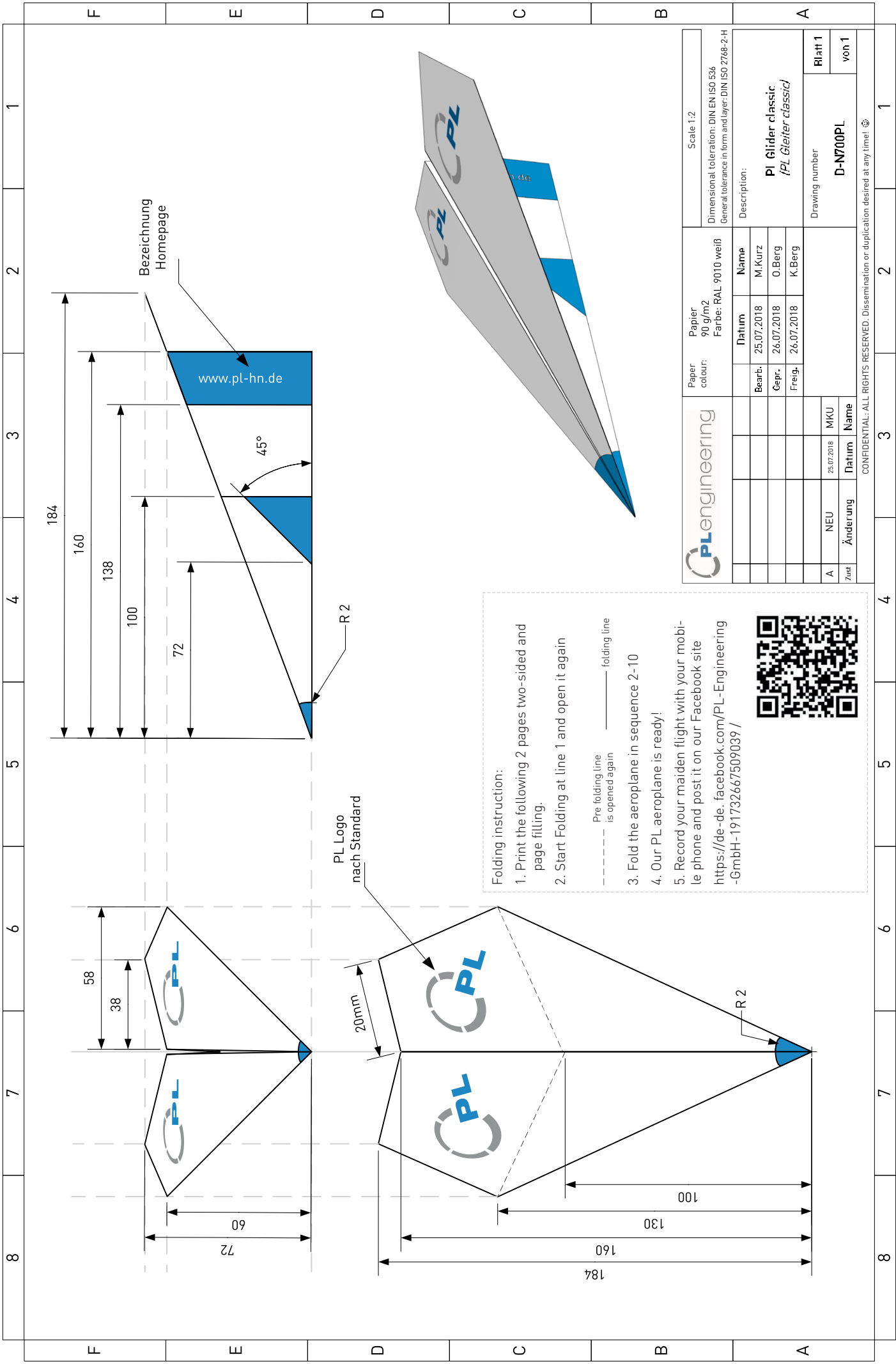


PROCESS DESIGN  
IS OUR PASSION.



Get a general idea – with us  
from another perspective.

Fold your own PL paper aeroplane now!



**Folding instruction:**

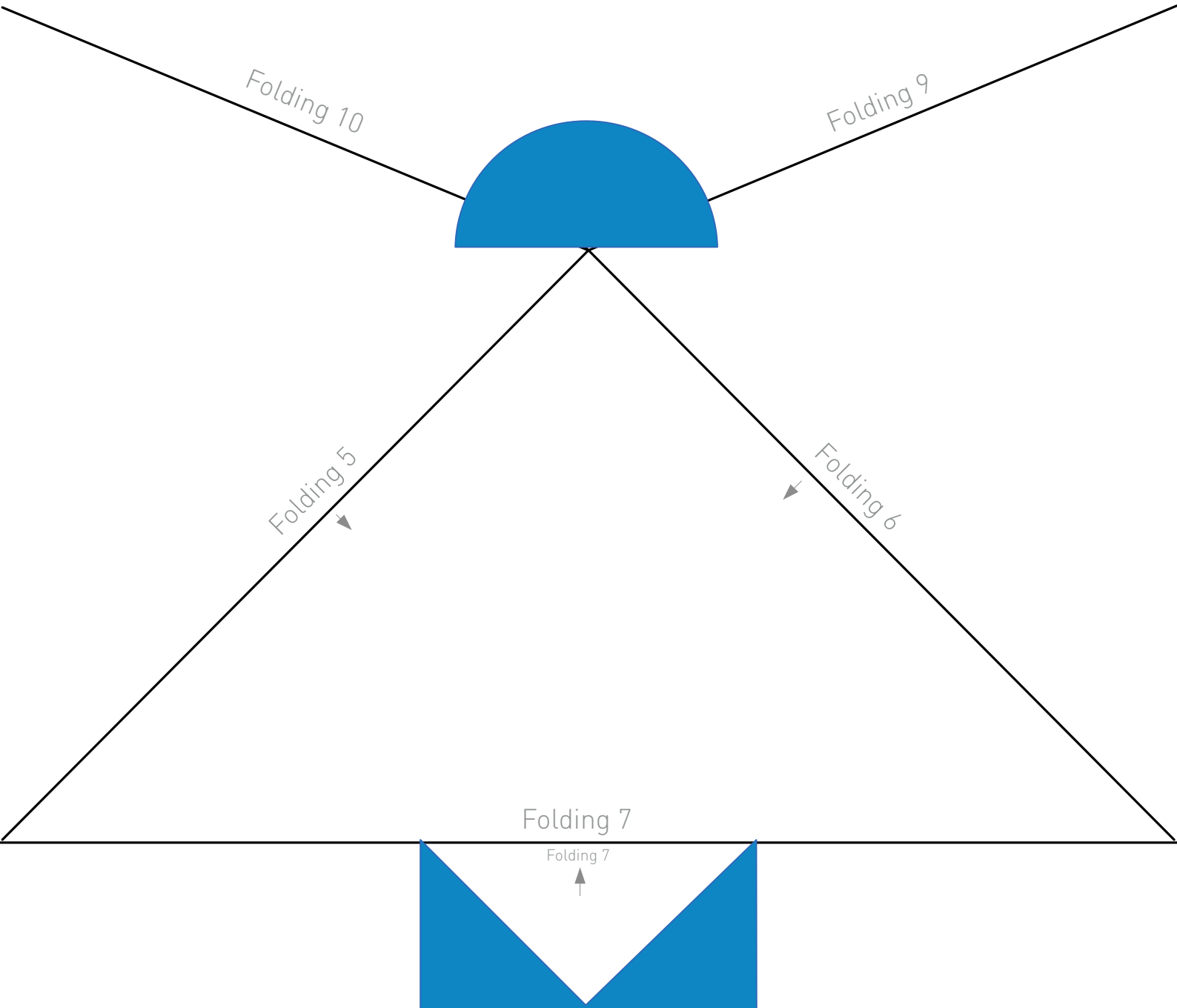
1. Print the following 2 pages two-sided and page filling.
2. Start Folding at line 1 and open it again
3. Fold the aeroplane in sequence 2-10
4. Our PL aeroplane is ready!
5. Record your maiden flight with your mobile phone and post it on our Facebook site <https://de-de.facebook.com/PL-Engineering-GmbH-191732667509039/>

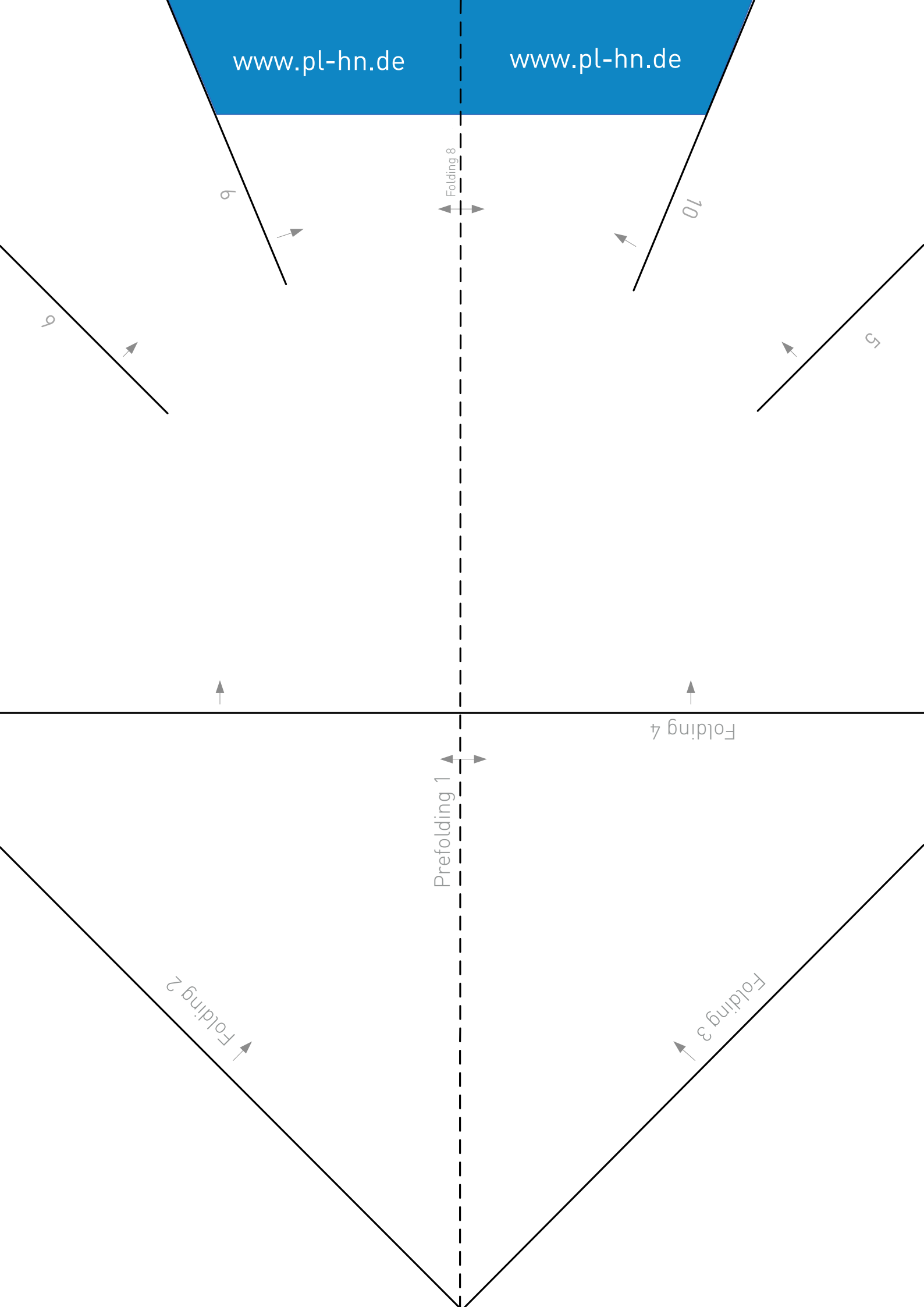
- - - - - Pre folding line is opened again  
 \_\_\_\_\_ folding line



Papier colour: 90 g/m <sup>2</sup> Farbe: RAL 9010 weiß		Scale 1:2 Dimensional toleration: DIN EN ISO 534 General tolerence in form and layer: DIN ISO 2768-2-H	
Datum: 25.07.2018 Name: M.Kurz		Description: <b>PL Glider classic</b> <i>(PL Gleiter classic)</i>	
Bearb.: 26.07.2018 Name: O.Berg		Drawing number <b>D-N700PL</b>	
Gepr.: 26.07.2018 Name: K.Berg		Blatt 1 von 1	
Änderung: A Name: NEU		Datum: 25.07.2018 Name: MKU	

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Prefolding 1



Folding 8



Folding 4



Folding 2



Folding 3



9



9



10



5

