



**Your satisfaction is our reward.**



The company **POLYGRAF PRINT, spol. s r.o.** was established in the year 1996 and is a subsidiary of an international **GRAFOBAL GROUP**. The company is a leader in the polygraphic market specialised in a customer-oriented sheetfed offset full colour printing.

The philosophy of the company **POLYGRAF PRINT, spol. s r.o.** is to provide customers with complex services:

- professional approach and counselling in the polygraphic industry
- goods transport arrangement
- distribution service
- storing services

At present the company **POLYGRAF PRINT, spol. s r.o.** has 230 employees, who annually produce more than 4,500,000 pieces of hardcovers, 4,000,000 pieces of paperbacks and almost 250,000 pieces of spiral bindings.

The quality of production is provided not only by high-tech equipment, but also by implemented Quality Management System ISO 9001:2008 and acquired FSC and PEFC certificates.

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The company has own graphic CTP studio for processing of materials, which after being processed are printed on sheetfed offset machines of **HEIDELBERG** make and then they are bookbinding processed by a **KOLBUS** book production line.



Production premises of the company consist from preparation of printing, printing itself, and bookbinding processing with total area of 4,700 m<sup>2</sup>.

In the year 1998 administration premises with area above 1,000 m<sup>2</sup> were additionally completed, which are used for business and economic department. The premises include an indoor storehouse with area of 480 m<sup>2</sup> and outdoor storehouse with area of 2,380 m<sup>2</sup>, which are accessible when necessary for customers for storing of produced books.





# Prepress

At the department of print matrix design we work with professional software tools, which provide for trouble free processing of PDF and PS files.

- Method of data providing may be through FTP server, external data media, and lately also through an Insite Kodak Prepress Portal system.
- Working stations Apple Macintosh with respective software serve for inspection of provided data for processing in a Prinergy Conect ripping system and for digital elimination of sheet assembly.
- We produce for our customers colour plotters 1:1 of the best quality with two HP 1050 and Epson 9800 plottering equipment.
- Digital certified proof-sheet system Epson 4800 - GMG Color Proof is used for producing of proof-sheets, through which the customer may consider in advance the final colouring of print.



To achieve a good printing result it is important to have a printing plate. The plates are produced digitally by Computer-to-plate (CTP) technology with Trendsetter 800 III Quantum and Trendsetter 800 equipment, which enable us to have undisturbed production of plates when one of them is dropped-out or maintained.

# Press



The newest offset machine - **Heidelberg Speedmaster SM 102-8-P** is a 8-colour printing machine with a turning device with maximum sheet form of 720 x 1020 mm with maximum speed of 13,000 sheets per hour. It can print sheets of paper even with thickness of 0.8 mm. It has a modern patented control system based on the newest platform with decentralised control of drive for feeder, printing units, and unloader. Control information is transferred by means of a CANbus technology.

Apart from that we also use offset machine **Heidelberg Speedmaster SM 102-10**, i.e. a 10-colour printing machine with a turning device with capacity of 12,000 sheets per hour and **Heidelberg CD 102-5**, i.e. a 5-colour printing machine with capacity of 12,500 sheets per hour, whereas one aggregate serves as lacquering unit for printing lacquer. These machines also have maximum sheet format of 720 x 1020 mm.

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**Heidelberg Speedmaster SM 102-10 with capacity of 12,000 sheets per hour.**  
**Heidelberg Speedmaster SM 102-8-P with capacity of 13,000 sheets per hour.**

# Postpress

The laminating machine Omega from the company Komfi enables us to hot laminate paper sheets by regular polypropylene or polyester films. The feeder accurately passes a paper with paper stock weight between 115g and 350g with adjustable overhang. Electronic control enables to regulate fluently the speed of laminating even to 50m/min., pressure of pressurised mechanism, and temperature of laminating.

The newest cutting line from the company Polar helps us with completing bookbinding processing of products. The cutting machine of paper, Polar 115 XT, is a programmable high speed cutting machine for precise cutting of papers, cartons, and plastic films. It is a high speed cutting machine with maximum length of cut of 115 cm. An elevator with a platform arranges for ergonomic work with automatic lifting and lowering of pallets of cut material to a working height. A shaking automatic machine exhausts air from the cut material.



# Postpress

To process cases we use a modern casemaking automatic machine DA 270 from the German producer Kolbus. We can process various kinds of covering materials with this machine. The maximum output is 65 cycles/min. We can produce cases, which are connected in formats with binding line min. 75x100 and max. 305x307 mm.

In case of paperback, to produce covers with flaps, or flexo binding, we have a machine Cordo Garda from the Italian producer Fidia, which manages to produce products with speed of 300 m/min.

The newest combined folding machine Heidelberg Finishing KH 78/6 KTL has a MCT modular control system, which enables self-adjusting. This system is based on central control of a feeder, and following independently working digital controls of folding stations and unloader.

Apart from that we have another two Heidelberg folding machines.



# Postpress

The key element of our bookbinding processing is the most modern line from the producer Kolbus. Finishing processing of our hardcovers is implemented by a complete line, which consists of individual machines synchronised in a way to form one production unit with maximum output of 70 cycles/min.

At the beginning of the line the book blocks are processed by a Sigloch SB7020 gluing line and then they are cut by three-knife trimmer HD143.P. Cut blocks are hung into book cases in a Kolbus BF530 hanger.

This modern machine can process books with minimum format of 80x105 mm with thickness of 7 mm and maximum format of the book 285x 385 mm with thickness of 90 mm. One of the most important parts of the line is also automatic jacketing machine Kolbus SU651 and at the end of the line there is a Hugo Beck packaging machine.

With this bookbinding line we can bind book blocks into hard, flexible, or plastic cases.



**Bookbinding line for production of hardcovers**



# Postpress

To produce paperbacks we use a line from the German producer Kolbus.

At the beginning of the line there is gatherer ZU804 with 20 stations, which is equipped with automatic optic control of components, which enables sound gathering. This gatherer may work independently or as a part of the line in case of glued paperback.

The ratiobinder KM470 has a possibility to make use of various kinds of glue, for instance PUR glue or Hotmelt (fusion glue).

The three-knife trimmer HD 150 is a last element of the line and trims products from three sides to a final format with minimum dimensions 95x120 mm and max. dimensions 300x388 mm.

The whole line is synchronised to maximum processing output of 5,000 cycles per hour.



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**Bookbinding line for production of a glued or stitched paperback.**

# Products

The right choice of book binding is a key factor of success of a printed book and provides for aesthetic value and user comfort for a reader. Our product portfolio offers classic types of bindings as well as non-traditional methods of processing:

## **V1 – saddle stitched soft cover**

The simplest type of stapled paperback of low cost, it is characterised by simple use, the most often for prospects, magazines, company manuals, textbooks.

## **V2 – perfect bound**

Frequently used paperback for short-term use for practical publications like magazines, annual reports, catalogues, paperbacks. We use a standard fusion glue Hotmelt or its more qualitative variant PUR for gluing.

## **V4 – soft cover sewn**

It is a suitable binding for higher mechanical loading, however, not frequent use. Considering the technology, it is more demanding for processing, however, it has higher quality, which is required for instance for tourist guides.



### **V8 – hardcover**

It is the most sophisticated and hardest binding with higher lifetime and attractiveness of proportionally higher price, used for picture publications and all kinds of literatures. Technical processing is varied, from straight through round back, foam cases, cases with covering materials throughout the entire case or its part – half-cloth binding (V7).

### **Spiral bound**

It is used for production of table and wall calendars or manuals and instructions. Sheets of the block are connected with an envelope by a metal spiral, which makes a book easy to open and comfortable to read.

### **Other bindings like otabind binding, flexo binding, Japanese binding or spiral block.**

Nowadays it is not enough just to select a suitable book binding. The book has to attract a customer, it has to be a different. Therefore it is important to offer to your customers various surface adjustments of books, which you can find in our offer:

- perforation in printing, printing both on silver laminate and synthetic paper,
- structural, glossy, mat or abrasion resistant laminate,
- various types of full-area and relief lacquers,
- embossing, full-area and relief stamping,
- offcuts,
- various covering materials (Guaflex, Geltex, Skivertex ...),
- bindings with rubber bands,
- bindings with rounded corners.

# Formats

Type of binding		Size (mm)		
		width	length	thickness
<b>Soft cover</b>				
<b>Saddle stitched V1</b> Taisen Bonitz	max.	230	300	5
	min.	95	90	
<b>Saddle stitched V1</b> Hand saddle stitched	max.	297	420	
	min.			
<b>Perfect bound V2</b>	max.	300	388	60
	min.	100	125	2
<b>Soft cover sewn V4</b>	max.	300	388	60
	min.	95	120	2
<b>PUR Perfect bound</b>	min.	95	120	5
<b>Spiral binding / Wire-O</b>				
<b>Wall calendars</b>	max.	500	620	6
	min.	60	210	1
<b>Table calendars</b>	max.	320	320	9
	min.	105	114	2
<b>Finished format</b>	max.	320	320	10,5
	min.	105	114	4,5
	max.	320	320	16

# Formats

Type of binding		Size (mm)		
		width	length	thickness
Hard cover				
Cloth on the boards V8	Gross size max.	285	385	90
		315	385	30
	Gross size min.	80	105	7
	Inner pages max.	280	375	80
		305	375	30
	Inner pages min.	75	100	3
Half bound with cloth V7	Gross size max.	285	385	90
	Gross size min.	128	140	7
	cloth on the spine max.	150	428	
	cloth on the spine min.	60	170	
	half cover min.	130		
Flexo binding with flaps	max.	290	310	50
	min.	100	100	12
	open cover max.	680		
	open cover min.	272		
	width of the flaps	30 - 95 mm		





**POLYGRAF PRINT, spol. s.r.o.**  
Čapajevova 44  
080 17 Prešov  
Slovenská republika  
Tel.: +421 51 74 60 111  
Fax: +421 51 77 13 270  
obchod@polygrafprint.sk  
www.polygrafprint.sk

