

# AFPS-1050LD 多功能全自动练习本生产线

Multifunctional Automatic Exercise Book Production Line



## Machine Description 机械简介

多功能全自动练习本生产线是一款高精密的制作钉线练习本、间线或无线线半成品，对折页或其它特别产品的生产线，适用于中或大批量生产，从卷筒纸至最终产品。基本机械配置包括有：单卷筒纸上料、柔印间线、横切、叠纸、集纸和计数、送封面、打钉、对折、压书脊，前横刀、纵刀分切为成品，及收料台。

The multifunctional automatic exercise book line is a highly sophisticated solution for the fabrication of wire-stitched exercise books, ruled and unruled pre-products, folding pages, or other special products. From reel to finished product, it can be used for medium and large runs. This machine includes a single reel unwind stand, flexo ruling, cross-cutting, overlapping, sheet counting and collating, feeding for index pages and covers, stitching, folding, back pressing, trimming, and a delivery table.

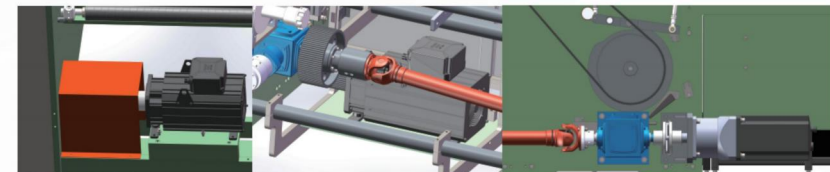
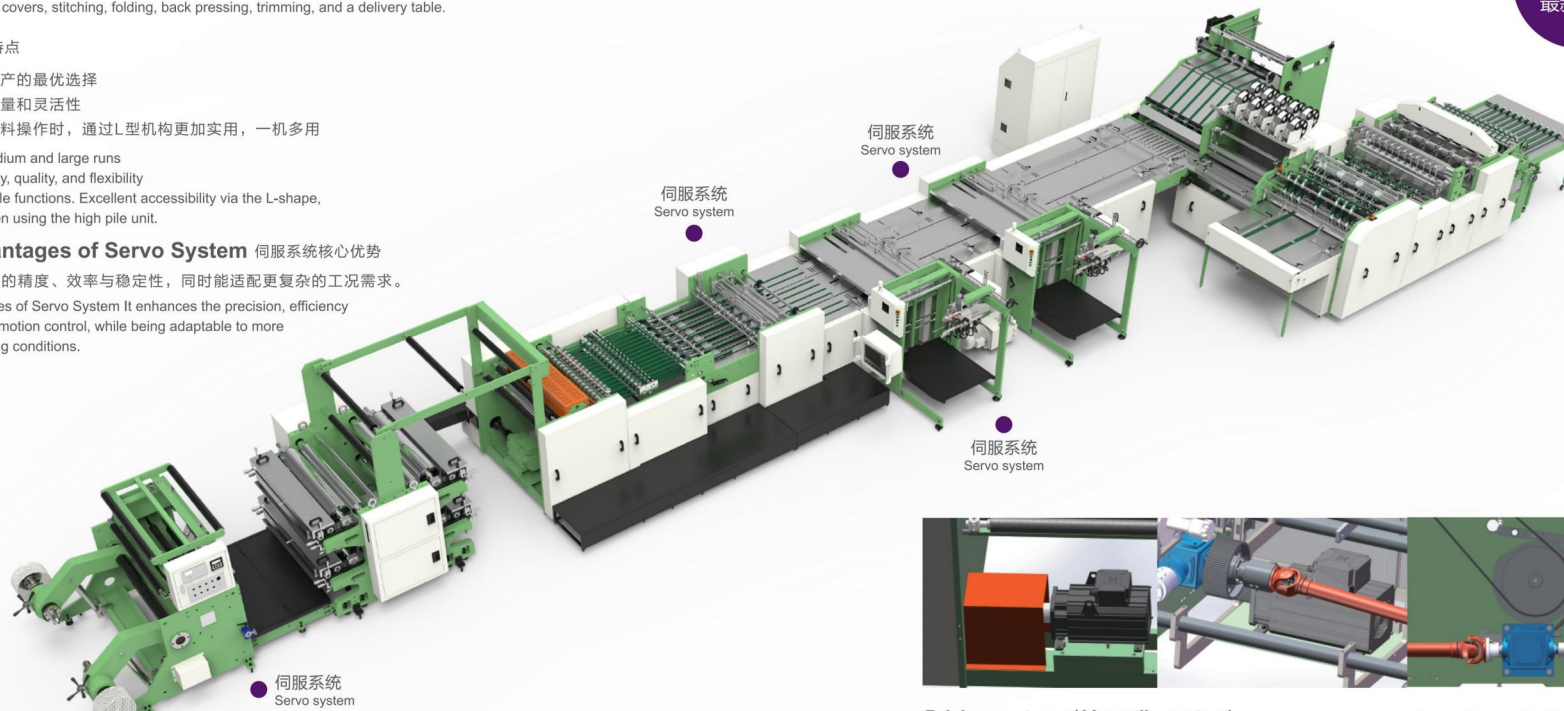
## Features 特点

- 中或大批量生产的最优选择
- 高生产率，质量和灵活性
- 特别是爬坡收料操作时，通过L型机构更加实用，一机多用
- Optimal for medium and large runs
- High productivity, quality, and flexibility
- Provides multiple functions. Excellent accessibility via the L-shape, particularly when using the high pile unit.

## Core Advantages of Servo System 伺服系统核心优势

- 提升运动控制的精度、效率与稳定性，同时能适应更复杂的工况需求。
- Core Advantages of Servo System It enhances the precision, efficiency and stability of motion control, while being adaptable to more complex working conditions.

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## Driving systems (Versatile system)

传动系统(多用途系统)

前后主机均采用大功率同步伺服电机驱动，轻松、快捷实现前后主机单独或联机生产。联机时前后主伺服电机与数页伺服电机采用运动控制，运行平稳，位置精准。

The front and rear system units use a high-power synchronous servo motor, which allows the units to operate independently or all together for easy and speedy production. The servo motors are all controlled by the modern motion control system when they work together to deliver a synchronous, reliable, precise, and simple-to-use operation.

## Counting unit 数页单元

数页采用伺服电机驱动，更换集纸张数只需在触摸屏上设置即可完成，彻底改变传统更换挂轮的方式，操作简单、快捷。

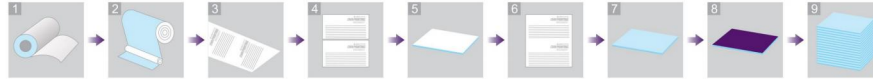
The counting unit adopts a synchronous servo motor and precision planetary reducers. Customers can modify the sheet's number through the touch screen without changing the hanging wheel gears, which is simple and easy to operate.

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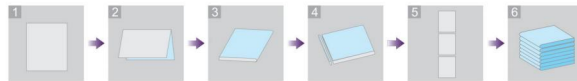
## Production Flow Chart (Flexo ruling machine with feeder) 生产功能流程图 (卷筒纸高速柔印自动配页机)



- 1 放卷 Reel Feeding
- 2 纠偏 Reel Auto Tension Web Alignment Balancing
- 3 印刷 Water Base Flexo Ruling
- 4 横切分纸 Sheeter
- 5 集纸 Sheet Collector
- 6 内页夹持 Overlapping
- 7 配扉页 Index Page Feeder
- 8 配封页 Cover Feeder
- 9 收纸 Pile Delivery

## Production Flow Chart (The semi-auto machine supports folding, back pressing, and trimming after the thread sewing book)

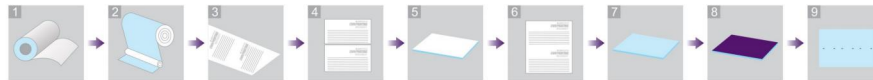
生产功能流程图 (缝线后的对折、平背、裁切生产线)



- 1 手动放本 Manual Feeding
- 2 对折 Folding
- 3 平背 Spine Pressing
- 4 横切 Long Trim
- 5 纵切 Side Trim
- 6 收本 Delivery

## Production Flow Chart (Fully automatic exercise book production line)

生产功能流程图 (全自动打钉联动装订线)



- 1 放卷 Reel Feeding
- 2 纠偏 Reel Auto Tension Web Alignment Balancing
- 3 印刷 Water Base Flexo Ruling
- 4 横切分纸 Sheeter
- 5 集纸 Sheet Collector
- 6 内页夹持 Overlapping
- 7 配扉页 Index Page Feeder
- 8 配封页 Cover Feeder
- 9 打钉 Stitching
- 10 对折 Folding
- 11 平背 Spine pressing
- 12 横切 Long Trim
- 13 纵切 Side Trim
- 14 收本 Delivery

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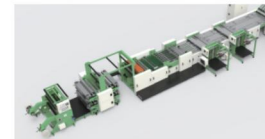


## TECHNICAL PARAMETERS 参数

最大纸卷直径	Max. reel diameter	1200mm
纸卷宽幅	Paper width	710-1060mm
印刷颜色	Printing color	2/2 (two colors on both sides)
印刷周长	Printing-cutting length	350-660mm (in steps of 5mm)
最大印刷宽度	Max. ruling width	1050mm
分切长度	Cutting length	260-660mm (in steps of 5mm)
最高机械速度	Max. machine running speed	350m/min (depend on paper GSM and quality)
数张分层页数	Number of sheets	6-50sheets
内页纸张克重	Inner page thickness	55-120g/m <sup>2</sup>
衬纸克重	Index page thickness	100-200g/m <sup>2</sup>
封面克重	Cover thickness	150-300g/m <sup>2</sup>
封底封面长度	Cover length	710-1060mm
封底封面宽度	Cover width	260-660mm
最大封底封面堆放高度	Max. cover pile height	800mm
最大收料堆纸高度	Max. deliver pile height	1300mm
钉头数量	Stitching head quantity	8pcs
最大装订厚度	Max. stitching thickness	5mm
装订长度	Binding length	130-300mm
装订宽度	Binding width	710-1060mm
横切	Long trim	710-1060mm
纵切	Side trim	130-300mm
分切厚度	Cutting thickness	2-10mm
总功率	Power	60kw 380v 3 phases (depend on user power require)
外形尺寸(长×宽×高)	Machine dimension (L×W×H)	21.8m×5m×2.6m
机械总重量	Total machine weight	Appr. 29 Tons

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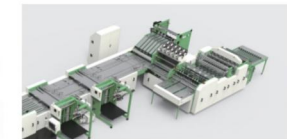
前段可单独作为卷筒纸高速柔印自动配页机使用

The front part can be worked individually, from flexo ruling to deep pile delivery without stitching.



后段可单独作为缝线后的对折、平背、裁切生产线使用

The rear park main machine can be worked individually from folding, back pressing, and trimming after sewn notebook.



联机后即成为全自动铁丝钉联动装订线。

Fully automatic stitching notebook production line when parts work together.