

Business process	Business process key elements	Text recognition
Cooperation agreement	<ul style="list-style-type: none"> ● Requirement clarification ● Workflow estimation 	
Pre-production (prepress)	<ul style="list-style-type: none"> ● Data management, file overlapping and trapping, form exposure ● Plate production using setters, computer plotters (aluminum, photopolymer, polyester plates), or other suitable equipment ● Image creation with standard internal marks and colored control marks ● Objective determination ● File preparation ● File printing 	
Raw materials	<ul style="list-style-type: none"> ● Material receipt, identification, quarantine, storage, handling, sampling, testing, and approval or rejection ● Ensuring appropriate, controlled environment 	<ul style="list-style-type: none"> ● Material thickness ● Torsional and shear stiffness ● Tensile strength ● Bursting strength ● Water penetration ● Vapor permeability
UV, varnish	<ul style="list-style-type: none"> ● Work area conformity inspection 	<ul style="list-style-type: none"> ● Environmental conformity (temperature, humidity) ● Machine set-up ● Equipment cleaning ● Equipment usage
Printing	<ul style="list-style-type: none"> ● Color registering and aligning ● Color management and matching ● Color transitioning ● In-process checks 	<ul style="list-style-type: none"> ● Environmental conformity (temperature, humidity) ● Machine set-up ● Equipment cleaning ● Equipment usage

		<ul style="list-style-type: none"> • Printing density
Stamping	<ul style="list-style-type: none"> • Holographic image, holographic hot stamping foil, holographic metallized paper and cardboard preparation • Final resizing and positioning 	<ul style="list-style-type: none"> • Environmental conformity (temperature, humidity) • Machine set-up • Equipment cleaning • Equipment usage • Stock management
Cutting, creasing	<ul style="list-style-type: none"> • Machine set-up (sharp cutting, blunt creasing) • Material folding • Knife maintenance 	<ul style="list-style-type: none"> • Environmental conformity (temperature, humidity) • Machine set-up • Equipment cleaning • Equipment usage
Material perforation	<ul style="list-style-type: none"> • Following acknowledged perforation rules for tight tolerances and registration to ensure smooth, burr-free edges 	<ul style="list-style-type: none"> • Environmental conformity (temperature, humidity) • Machine set-up • Equipment cleaning • Equipment usage
Braille	<ul style="list-style-type: none"> • Diameter, character, point height, line spacing, size, positioning, perception verification • Damage prevention 	<ul style="list-style-type: none"> • Environmental conformity (temperature, humidity) • Machine set-up • Equipment cleaning • Equipment usage • Text conformity
Stripping	<ul style="list-style-type: none"> • Waste stripping • Waste disposal after pruning 	<ul style="list-style-type: none"> • Environmental conformity (temperature, humidity) • Machine set-up • Equipment cleaning • Equipment usage • Waste control
Folding	<ul style="list-style-type: none"> • Defect rejection using scanners 	<ul style="list-style-type: none"> • Environmental conformity (temperature, humidity) • Machine set-up • Equipment cleaning

		<ul style="list-style-type: none"> • Equipment usage
Gluing	<ul style="list-style-type: none"> • Glue application before bending • Glue spreading over surface • Defect prevention (poor or excessive application) 	<ul style="list-style-type: none"> • Environmental conformity (temperature, humidity) • Machine set-up • Equipment cleaning • Equipment usage
Product packaging	<ul style="list-style-type: none"> • Production completion • Line clearance 	<ul style="list-style-type: none"> • Environmental conformity (temperature, humidity) • Machine set-up • Equipment cleaning • Equipment usage
Quality control	<ul style="list-style-type: none"> • Documentation review • Quality assurance 	<ul style="list-style-type: none"> • Environmental conformity (temperature, humidity) • Design, dimensions, holograms, embossing, physical defects, composition consistency