

# Scope of On-Site Overhaul of Intagliocolor 8 machine, serial no. 63303501

## Electrical overhaul

### **Upgrade of existing PLC system T300**

Including all I/O modules to EC500 Arcnet or Ethernet.

Package PLC\_UG\_003\_T300 - The package includes three PLC EC500, new I/O modules and an electrical modification kit.

### **Upgrade of existing cam switch/timing unit**

from ABB T300 / BDT L0056076 with 64 cams to ABB AC500 Arcnet or Ethernet.

Package CS\_UG\_004\_ - The package includes a new PLC based timing unit, a new encoder and a mechanical and electrical modification kit.

### **Replacement of fast power contactor**

CM 62-ITR-80DC/24DC (L0056137) which switches the main motor brake.

Package O6xx\_012\_power\_contactor - Package includes electrical modification kit including new circuit diagram.

### **Converting set main switch**

### **Relays, batteries, switches, etc.**

### **Replacement of DOS control console**

Package CC6xx\_007\_DOS\_KOSO.

The package includes new control console desk including computer system, Windows 7 and new application SW.

Remote maintenance (VPN) for printing machines, including VPN router.

### **Replacement of main drive BKD6/100/460 (L0052963)**

For current motor GNAG160KV

drive BKF12/200/420-703.

PLC must be KT 94 or newer.

### **Replacement of suction roller drives**

Package SR633\_001\_INT\_35-38 - The package includes 2 new brushless DC motors with integrated speed controller as well as mechanical and electrical modification parts.

### **Replacement of double sheet detection**

Package DS634\_001\_SOI\_02-11 - The package includes the new double sheet detection DB 18 UP and VDB12B and a mechanical modification kit.

### **Replacement of printing pressure measurement device VP-3/A (L0053968)**

Package O634\_005\_SOI\_11-23 - Package includes new sensors, new measuring device and new software for control console. Requires KOSO control console (Windows based).

### **Push button panels**

Replacement of all push buttons, wire terminals and light bulbs.

### **Documentation update**

- CZ (hard copy), EN/DE (USB flash drive)
- Software for operating and maintenance of the machine on a new control consoles (control, error messages, etc.) must have Czech localization

## **Mechanical overhaul**

### **Retrofit of new type wiping system in existing wiping tank**

#### **Chablon cylinder for mounting photopolymer plates**

with hydraulic plate clamping device, for direct inking.

#### **Set of mechanical parts such as cones, shafts and gears for the 4 inking cylinder stations.**

Supply of all the bearings, rings and seals to complete the exchange with the old and worn units.

#### **Electrically operated crane**

To be installed on the Intagliocolor 8 bridge to rise and lower the polychablon cylinders

#### **Hydraulic pump SKF**

For hydraulic plate clamping device with pressure gauge and flexible hose

#### **Thermoregulation 76 SF/M, without water chiller**

Compact 6 circuits unit for the automatic temperature control of reciprocating distributor rollers.

### **Auxiliary tank for wiping solution**

### **Cylinder surface repair**

### **On-Site mechanical overhaul:**

#### **Sheet Feeder**

- Replacing vacuum and pressure valve
- Replacing all drive chains
- Replacing plastic bevel gears

#### **Infeed**

- Drive Stop Drum
  - Replacing cam rollers and bolts;
- Cover Drive Stop Drum
  - Exchange of sealing;
- Stop Drum
  - Replacing gripper bar incl. bearings;
  - Exchange gripper pads on Stop Drum;
- Transfer Drum 1
  - Replacing gripper bar incl. bearings, screws and torsion spring ;
- Front Lays
  - Exchange Front Lays complete;
- Side Lays
  - Exchange Side Lays complete on machine SI and SII;
- Gripper Control Stop Drum
  - Replace all bearings and wear parts;

#### **Printing Unit**

- Printing Cylinder
  - Exchange of complete gripper bar;
  - New cam roller and gripper;
- Bearing Printing Cylinder

- Replacing bearings and cup springs of printing cylinder lift;
- Printing cylinder On/Off
  - Replacing hydraulic cylinders
- Plate cylinder
  - Replacing rotary unions and hoses;
- Plate clamping device
  - Replacing bolts and cup springs;

#### **Inking Unit**

- Ink fountain
  - Replace ink knives;
  - Exchange wear parts such as bearings and springs;
  - Replace screws;
- Distributor roller bearings
- Replace cam rollers, bolts and bearings

#### **Wiping Unit**

- Locking hydraulic cylinders
  - Exchange hydraulic cylinders;
- Wiping cylinder oscillation
  - Exchange cam rollers and drive;
- Wiping cylinder On/Off
  - Replace all wear nánd tear parts;
  - Replace hydraulic cylinders;
  - New adjustment of wiping cylinder;
- Drying blade
  - Exchange hydraulic cylinders;
- Wiping Tank
  - Replace wiping tank illumination;
- Steel blade
  - Exchange hydraulic cylinder;
- Tubing Spray Wiping
  - Exchange spray gun and hose;
- Main base
  - Exchange hydraulic cylinders;

#### **Delivery Unit**

- Gripper System control
  - Replacing hydraulic cylinders;
- Gripper system
  - Complete new gripper system;