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## Agfa Graphics

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### ANAPURNA M2050 & Wasatch Key Operator Training (Trainee required checking all topics)

1. Safety First ( )
  - a. UV Inks
    - i. UV Inks (and waste) are chemicals, when handling the ink, wear protective gloves to protect your skin. Also wear protective glasses to avoid splashes
  - b. UV Light
    - i. Do not look directly into the UV Light when printing
    - ii. Don't expose your skin directly to UV light
    - iii. If you need to look at the direction of the light, wear protective glasses
  - c. Ozone
    - i. Make sure printing room exhausts are working and lead to the outside air
  - d. Anapurna Engine
    - i. Know the Emergency 'Stop' buttons
    - ii. Make sure that the 'Safety Sensors' & 'Wing Sensors' are working (turned 'ON')
    - iii. Before printing, make sure no one is around the engine
    - iv. After printing, always put the engine to 'OFF LINE'
2. Anapurna Inks, Cleaning Solution & Waste ( )
  - a. Storage of inks
    - i. Ideal between 4 & 10 degrees Celsius. No more than 25 degrees at any time
  - b. Shelf Life of inks
  - c. Use
    - i. Take care when filling the main ink tank / cleaning tank
    - ii. Keep waste separate from the ink bottles
  - d. Dispose off waste as per local council regulations
  - e. Never mix solvent waste or aqueous waste with UV waste
3. Environment ( )
  - a. Dust Free
  - b. Ideal Room Temperature : 22 degrees Celsius (Range between 18 – 25 degrees C)
  - c. Ideal Humidity : 50 % (Range between 40% - 60 % relative humidity)
4. Anapurna M2050 Component Overview ( )
  - a. Terminologies used (Home Side, Capping side etc etc)
  - b. Anapurna Shuttle (carriage) Layout
    - i. Print Heads, sub tanks etc
    - ii. 2 way ink valves / solution valve (For color & white ink)
    - iii. UV Lamps
  - c. Purge Button (Ink), Flushing Button (Cleaning Solution)
  - d. Negative Vacuum 'Gauge' & 'Digital Indicator' (For color & white ink)
  - e. Ink Supply System (Main Ink tanks, Ink pumps, Ink Filters, Ink lines, Sub ink tanks, 2 way ink valves and Print heads)
5. Anapurna M2050 – Start Up Sequence ( )
  - a. Compressor & Drier (to get compressed dry air)
  - b. Exhaust (in the room)
  - c. Main Switch (Power), Circuit Breakers (if applicable), Power switch on Anapurna Engine
  - d. Emergency Buttons on Anapurna Engine
  - e. Power 'ON' the PC on the engine
  - f. Power 'ON' (Start Button on Anapurna Engine)

6. Making Anapurna Mw Ready for printing ( )
  - a. Print Head Test (Prime Test from Control Panel)
  - b. Roll to roll print
    - i. Media Loading
    - ii. Vacuum Settings on the bed (Vacuum Control)
    - iii. Head Gap (Head Height Calibration in regard to the media thickness)
    - iv. Margins (Parameters)
    - v. UV Lamps (Power settings: Full / Half and Mode settings: Normal / Both / Reverse)
  - c. Rigid media printing
    - i. Media Set Bar
    - ii. Vacuum Settings on the bed (Vacuum Control)
    - iii. Head Gap (Head Height Calibration)
    - iv. Left & Top Margins
    - v. Borderless Printing / Dual Board Printing
    - vi. Input / output Support Tables
    - vii. UV Lamps (Power settings: Full / Half and Mode settings: Normal / Both/ Reverse)
  - d. Printing with White (Have a look at the document 'Creative with White Ink')
  - e. Heater Settings
    - i. Sub Ink Tanks
    - ii. Head Base
  - f. Vacuum Control
    - i. How to change settings
  - g. Negative Pressure Settings
  - h. Print Quality
    - i. Horizontal Alignment
    - ii. Bi Direction Alignment
    - iii. Step Size (Feed)
    - iv. Carriage Speed
  - i. Printing Artefacts
    - i. Gloss Banding
    - ii. Peppering (solution in the ink)
    - iii. Pooling (due to less vacuum, static or air in the ink system)
    - iv. Step Banding / Nozzle-missing banding
  - j. White Print head maintenance
  - k. Anti Static
7. Print Head Purging / Cleaning ( )
 

(Function of 2 way valve)

  - a. 'Quick' Purge if 'Prime Test' (nozzle test) not good
  - b. 'Long' Purge
  - c. Head 'Bleeding' (drop the negative pressure down to -.010)
  - d. Head Cleaning using Cleaning Solution
  - e. Weekend / Long Break engine preparation
8. Anapurna 'Control', 'Online' and 'Test' windows ( )
  - a. 'Control' Window
    - i. Gap Setting
    - ii. Nozzle Check (Prime)
    - iii. Horizontal, Bi Direction and Feed alignment
    - iv. Turning lamps OFF
  - b. 'Online' Window
    - i. Selecting a print (color & white rtl files)
    - ii. UV Mode
    - iii. Uni / Bi
    - iv. Margins
    - v. White Options (All, White, C/W & W/C)
    - vi. Pausing and Cancelling a print
    - vii. Null Point & Feed Back
  - c. 'Test' Window
9. Preventive Maintenance (operator) ( )
  - a. Daily
  - b. Weekly
  - c. Alignment of Conveyor (Media) Belt

## 10. What can go wrong!!!!

( )

- a. Air in the Ink Filter (always make sure enough ink in the main tanks)
- b. White ink in Solution Tank or Light colours in Dark colour tanks
- c. Check Over Flow (sub air) tank (part of weekly maintenance)
- d. Keep an eye on Waste Tank (part of weekly maintenance)
- e. Printing on the Conveyor Belt (specially when printing borderless) – resulting in poor vacuum
- f. Static on Media (specially rigid media)
- g. Gap Setting !!!

## 11. Advanced Scheduled Maintenance

( )

- a. Adjustment of conveyor belt
- b. Replacement of conveyor belt (service engineer)
- c. Cleaning the Feed Table (operator & service engineer)
- d. UV Lamp Replacement (operator)
- e. Cleaning of Crystal Glass (operator)
- f. Calibration (Horizontal, Bi-dir, Feed Adjust)
- g. Cleaning / Lubricating the Carriage Rail & Greasing the Carriage Bearings

## 12. Consumables Required

( )

- a. Inks (color + white)
- b. Cleaning Solution
- c. Lint Free Cloth
- d. Part #'s
- e. Recommended Media

Wasatch & Agfa Rip Operations

## 1. Rip Station

( )

- a. Do not load any design software (DTP applications)
- b. Never download anything from the internet (updates 'OFF')
- c. Have 2 network cards in the CPU; one for the office network & the other for the Anapurna engine (cross over network cable)
- d. How to connect Wasatch with Anapurna (using AgfaRip)
- e. Defrag the CPU every week
- f. Clear Rip queues & Print queues

## 2. Wasatch Set Up

( )

- a. Printing Modes (4 pass, 8 pass, bi-dir, uni-dir)
- b. Imaging Configuration
- c. Media Width
- d. Color Related Info
  - i. Color Correction Curves
  - ii. Spot Color Replacement
  - iii. Color Gamut view
  - iv. Do not touch Ink Limits, do not over write Agfa Profiles

## 3. Ripping &amp; Printing

( )

- a. Supported File formats
- b. Opening a file
- c. File preparation: size, scale, crop, mirror, rotate, tiling
- d. Selection of correct Imaging Configuration (print mode)
- e. White Ink Options
- f. Print Strategy (Rip only or Rip & Print to engine)
- g. Use of Agfa Rip (from the Anapurna PC)

## 4. Wasatch Exercises

( )

## 5. Have you received the Operator's Manual + other operational documents

( )

## 6. Have you received the Anapurna M2050 Ink MSDS

( )

## 7. Have you printed samples on Anapurna engine using flexible &amp; rigid media

( )

## 8. Are you comfortable

(YES) (NO)

## 9. What other information do you need