

## 2. MACHINE DESCRIPTION

The MAXI Sheeter machine will be newly constructed and newly manufactured. It is designed for the converter or printer that demands the competitive advantage of dual knife rotary technology and the versatility of running light weight papers and heavy calliper board grades. Ideal for the large formats.

## 3. KMEC ADAPTS TO THE CUSTOMER

KMEC offers the possibility to modify the software, configuration and adaptation of the different devices. Each machine is individually configured to meet customers' specific requirements. Readouts and position indicators will be in US Measures and Standards.

## 4. MATERIALS TO PROCESS/KNIFE LOADING

The Maximum Mechanical Knife load is 600lbs per 3,000 sq. ft. or 1,000 gsm, which equates to 48 point. Minimum recommended basis weight is 50lbs per 3,000 sq. ft. or 80 gsm. Under certain circumstances, some products may dictate that the total basis weight under the knife be reduced.

## 5. BASIC TECHNICAL SPECIFICATIONS

Maximum sheet width	65" (1650 mm)
Maximum unwind width	69" (1750mm)
Maximum mechanical speed	1000ft/min (300 mpm)
Maximum reel diameter & weight	72" (1820 mm) & 10,000lbs (4,500Kgs)
Core diameter I.D.	3" (76 mm) Schlumpf base Chuck
Maximum pile height	67" (1700 mm) pallet included
Maximum pile weight	6614 lb (3000 Kg)
Design knife loads	Max. 600lbs per 3,000 sq ft (48 point) Min. 50lbs per 3,000 sq. ft
Sheet accuracy	± 0.015" (± 0.4 mm.)
Square precision	0.019" x 39" (0.5x1000mm)
Minimum sheet length	16" (405 mm.)
Maximum sheet length	60" (1525 mm.)
Electric connection	460/480 V. 3 Ph. 50/60 Hz.

Pneumatic connection

7 bars (dry air)

## 6. MACHINE'S DESCRIPTION

### 6.1 6 SHAFTLESS PICK UP UNWIND STANDS.

Heavy duty steel fabrication for strength and quality.

Linear bearings are used for all sliding movements.

Inboard and outboard movement is hydraulic and alignment trim is electronic.

Minimum and maximum roll width is 25" and 69" width.

3" (76 mm) Schlumpf base Chuck

Each Unwind arm is complete with air cooled pneumatic disc brakes.

The arms are raised and lowered hydraulically for roll loading

Features included: auto stop at reel end.

Friendly operation: control buttons on both sides with additional remote wired control.

Hydraulic roll loading from floor level.

6 - In floor trolleys for the loading of individual rolls.

Electronic roll centering/alignment, for aligning 6 reels before slitting.

Manual adjustment/trim station for each unwind mounted adjacent to the slitting station control.

### 6.2 WEB TENSION

Web tension for each web is independently sensed and controlled by load cells working with the unwind braking system

### 6.3 ROLL LOADING TROLLEYS

Rolls are delivered to the individual unwind position on manually activated low profile roll loading trolleys with 32 feet of in-floor tracking. The shallow in-floor tracking minimizes foundation work and requires minimal maintenance

### 6.4 EDGE ALIGNMENT

Electronic roll centering/alignment, for aligning 6 reels before the slitting. Manual adjustment/trim station for each unwind mounted adjacent to the slitting station control.

## 6.5 OVERHEAD STRUCTURE FOR WEB TRANSPORTATION

Overhead bridge incorporates all web transport control to ensure perfect web delivery through edge guides to the cutting head.

## 6.6 6 DECURLING UNITS

Motorized roll/edge decurlers are mounted within the overhead structure for the control of curl in each web. Each decurler can be quickly and easily changed to either edge or roll mode.

Decurler positioning is controlled from the Operator's main control station

## 6.7 SLITTING UNIT

Four sets of Tidland Class III are included complete with bottom knives. The bottom knives are mounted on a pneumatic shaft. Bottom knives can be changed/replaced without having to remove the bottom knife pneumatic shaft from the machine.

## 6.8 EDGE TRIM

Not Applicable

## 6.9 IN-FEED ROLL SECTION

Situated after the slitting unit. The in feed roll section includes:

- An A.C. driven bottom steel draw roll.
- A pneumatically loaded, chevroned, rubber coated roll. Nip pressure in both sides individually adjusted.

## 6.10 DUAL ROTARY KNIFE

Heavy duty cross-cut knife and frames enable high accuracy, vibration-free conditions. Maximum Sheet width 65" (1650mm)

Dual knife rotary cutter powered by AC Drive and low inertia servomotor.

The Twin rotary knives are coupled together by anti backlash geared bathed by oil lubrication.

Digital setting of cut-off length from main panel.

The drive and control system ensures that the knives are synchronized with the web speed at the point of cut.

1 set of spare blades included.

#### 6.11 DELIVERY SECTION

- High speed Primary Tape conveyor system to take the cut sheets away from the knife section with adjustable first nip point.
  - Automatic reject gate with manual control and in conjunction with splice detection. Rejected sheets are delivered under the delivering section to the floor or customer supplied receptacle.
  - Sheet overlap conveyor section. The percentage of overlapping is adjusted from the main panel.
  - The overlap section is complete with individual adjustable narrow width tapes working in conjunction with a full width bottom "blanket style" belt.
  - Leading edge check roll carriage is mounted on a rack and pinion adjustment and the nip of the individual check rolls are pneumatically set.
  - The sheets are conveyed into the stacker through an adjustable nip final roller section.
  - Automatic jam detectors protect the delivery section in the event of jam ups
- Final nip section with pneumatic expandable shaft with remote controls for easy change of the wheel positions.

#### 6.12 STACKER/PILE DELIVERY SECTION

- The stacker table is raised and lowered hydraulically
- Automatic sensor in the back stop regulates stack height.
- The front jogger is independently driven
- Side joggers are pneumatically raised, lowered and vibrated.
- Stacker table to be minimum of 10mm thick and smooth surface
- the back stop and side joggers are mounted on heavy duty cross members which in turn are situated on a rack and pinion for ease of setting.

#### 6.13 PALLET CHANGE

Manual pallet changing. Full pallets exit at the front or at 90 degrees to machine direction.

#### 6.14 CONTROLS

Drive cabinet.

High quality electronic elements.

15" Touch screen on main panel.

Siemens PLC control

Additional control panels in key operation points.

MODEM for on-line checking and diagnostic service.

Software ready for future upgrades

#### 6.15 SAFETY PROTECTIONS IN ALL MOVABLE PARTS, AND OPERATING INSTRUCTIONS ACCORDING TO EFFECTIVE C.E. RULES

#### 6.16 COLOUR

The colour of the machine described above will be white RAL 9010 and green PANTONE 320C.