

## Automatic Sheet Stackers & Collection Trays



stencil processing



screen printing



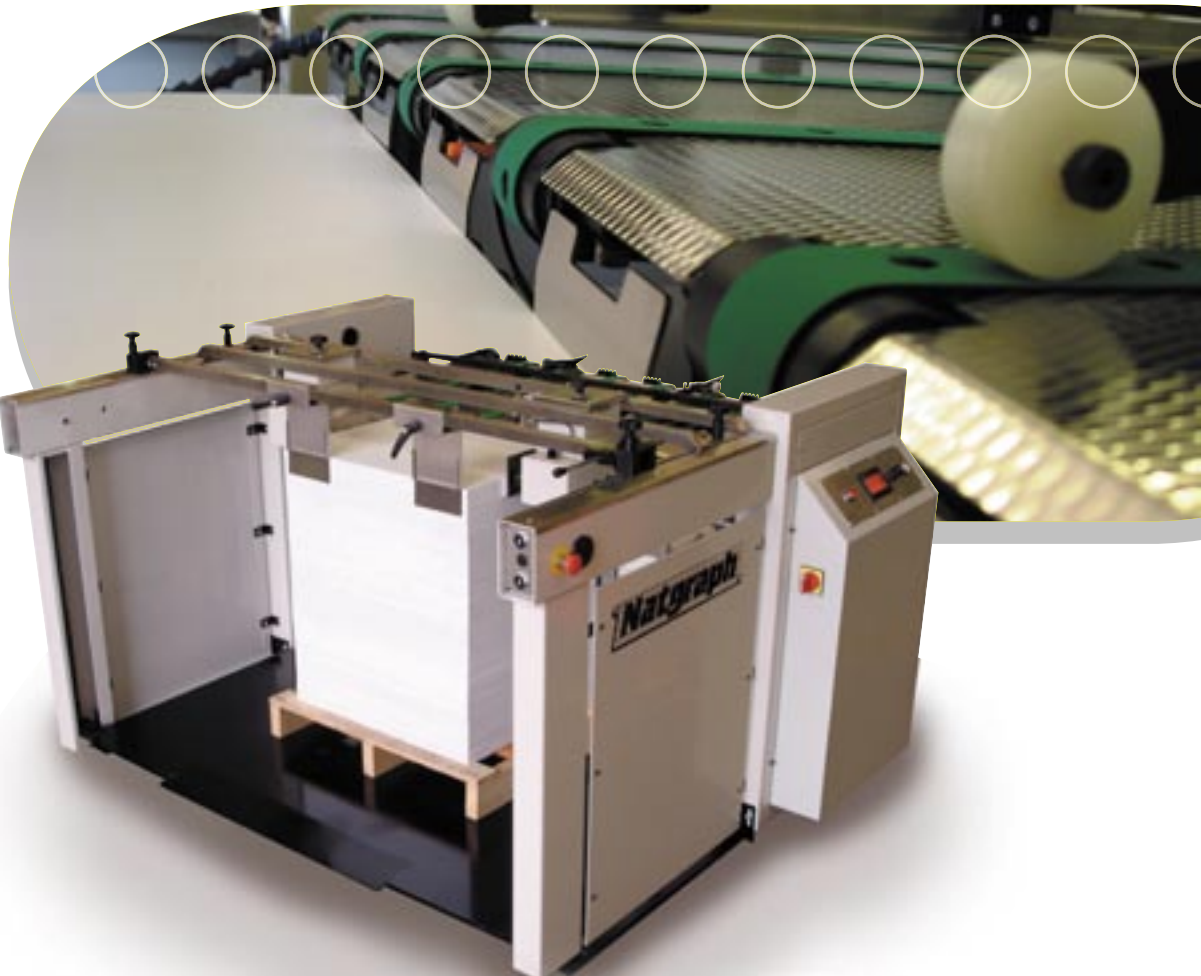
air force



ultra violet



infra red



Natgraph's Automatic Sheet Stackers have been developed over many years with 100's of these units in daily use world-wide. Available in 8 standard sizes, there are also purpose built versions for high pile/high speed applications and special substrates.

An optional CCTV Stack Monitoring System can be added to allow the print machine operator to view the operation of the stacker remotely.

Automatic Sheet Stackers  
Continuous Operation Option  
Vibrating Collection Trays

Natgraph also manufacture a range of Collection Trays for smaller print runs, these are available in all 8 standard sizes, as well as special versions for side take-off applications.

A range of Vibrating Collection Trays is manufactured to all Natgraph's standard dryer sizes.

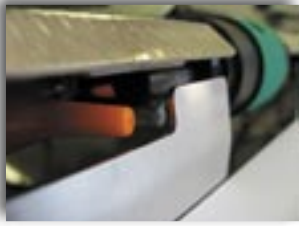
Collection Trays  
CCTV Stack Monitoring System





# Automatic Sheet Stackers & Collection Trays

## Automatic Sheet Stackers



Adjustable Air Blowers



Precision Stacking



Pneumatic Joggers

### Features

- Independant control or synchronisation with Natgraph dryer
- PLC Touch Screen Control System
- Digital sheet counter
- Sheet 'jam' sensing system
- Feeder stop switch
- Side load/unload option
- Touch screen control of:-
  - Inlet conveyor speed
  - Vacuum on/off
  - Pneumatic side jogger delay/frequency
  - Joggers open/closed
  - Air blower delay time/duration
  - Stack height adjustment

The Natgraph Automatic Sheet Stackers are designed to stack a wide variety of substrates at high speeds, automatically positioning them on top of each other to provide a uniform vertical pile of material that can then further processed.

These Stackers are completely self contained with their own drive motor, air blower and hoist. Available in a variety of sizes to suit all print formats, this unit is extremely efficient and versatile, with special versions able to accept sheets at up to 8,000 per hour. A combination of thick plate steel side frames and heavy duty tie bars means these machines are capable of continual operation. The hoist is chain operated with a reinforced steel base plate with ramp front, capable of lifting 1,500kgs.

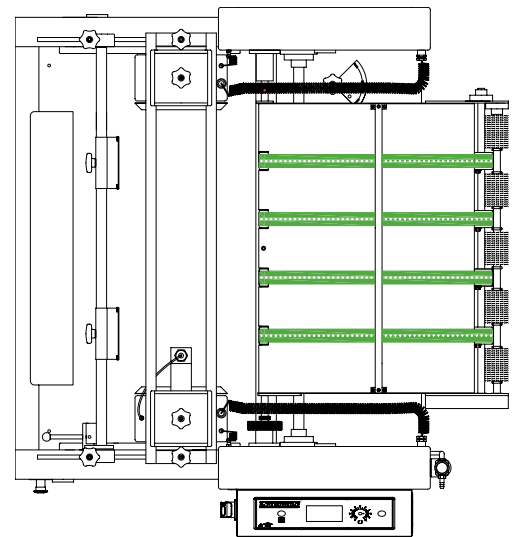
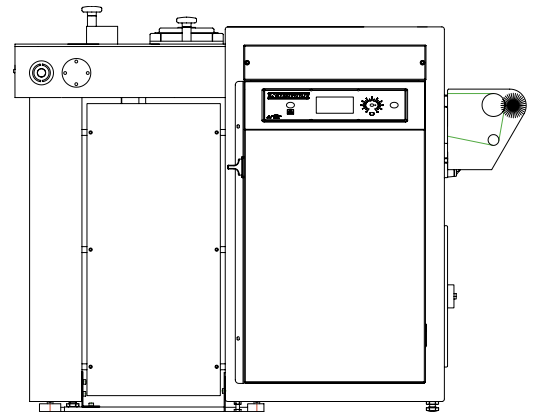
The in-feed section consists of a variable speed, belt driven feed table (vacuum option), with fully adjustable spring loaded delivery wheels and an adjustable air floatation system aiding sheet transfer into the stack. This air system consists of a near silent blower connected to a number of air pipes blowing air under each sheet to create an air cushion as it enters the stacking area.

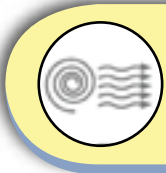
Stack uniformity is achieved by 2 heavy duty, electro mechanical side joggers, (4 on larger models) and a full width rear jogger. A sheet sensor located above the in-feed table operates the joggers via an adjustable delay timer. The complete rear section of the stacking area moves in and out in conjunction with the side joggers to ensure a positive sheet position against the head lay. The pile is automatically self lowering, with a height sensor and full stack safety cut out device.

Controls consist of variable speed belt drive, hoist raise/lower, blower on/off, sheet counter, feeder stop, emergency stops etc. A 'sheet jam' sensor is built into the stacker's control system, with a feeder stop signal being automatically sent if the stack is full, or a sheet gets caught.

As an option these units can be supplied in the side loading/unloading versions, a CCTV Stack Monitoring System and optional vacuum in-feed table are also available.

These stackers require a three phase power supply.





# Automatic Sheet Stackers & Collection Trays

## Continuous Operation Option



### Features

- Pneumatically operated support 'gate'
- PLC control system
- Fault Signals



The Natgraph Automatic Sheet Stacker can be fitted with a Continuous Operation feature. This consists of a pneumatically operated support 'gate' that provides a temporary sheet support to approximately 60mm of substrate height whilst the stack below is unloaded. This system is operated via the units PLC control system, which automatically controls the 'gate' insertion and withdrawal timing. In the event of a new substrate pallet not being inserted in time, the stacker will enter a fault condition, the feeder will be stopped and a fault signal displayed.

This feature allows a small or large pile of printed substrate to be removed from the stacker without interrupting the printing cycle, therefore allowing continuous operation.



## Sheet Collection Trays

### Features

- Adjustable sheet stop
- Height and angle adjustment
- Large hand wheels
- 8 sizes
- Castors (Not vibrating model)
- Optional air blower tube
- Optional vibrating model

The Natgraph Sheet Collection Trays have been designed to operate with all of the Natgraph dryer sizes, as well as other makes of dryer. They are of a steel construction, with a heavy duty framework and fabricated sheet tray.

The sheet tray has a movable sheet stop to accept different paper sizes whilst the stand is adjustable both in height and angle. The tray can also be tilted to either side so the substrate will fall that way. The box section stand is on swivel castors and is easy to move. An optional air blower tube can be fitted to aid in the delivery of larger or heavier substrates.

A vibrating version is available which will 'jog' the substrate into a neat stack. This version has a special heavy base frame with rubber feet. An adjustable vibrating motor assembly is located below the sheet tray, making it vibrate and move the substrate into one corner. A separate electrical control box requires mounting close by. These units require a single phase power supply.



Vibrating Collection Tray  
model 110



# CCTV / Specifications



CCTV Stack Monitoring System

## CCTV Stack Monitoring System

A colour CCTV system can be fitted to all Natgraph dryers, this system includes a freestanding, mast mounted camera above the stacker and a dedicated TV monitor mounted on a fully adjustable stand above the inlet of the dryer.

This allows the operator to see the stacker without leaving the printing machine, which is very important when operating long, high speed, fully automatic printing lines.

## Automatic Sheet Stackers

Model No.	90	110	130	155	170	185	215
<b>Max. Sheet Size</b>	96 x 78cm (38" x 31")	112 x 86cm (44" x 34")	136 x 96cm (53" x 38")	161 x 119cm (63" x 47")	176 x 139cm (69" x 55")	191 x 154cm (75" x 60")	221 x 165cm (87" x 65")
<b>Height</b>	Belt height of dryer plus 10cm						
<b>Width</b>	156cm (61")	172cm (68")	196cm (77")	221cm (87")	236cm (93")	251cm (99")	281cm (111")
<b>Depth</b>	139cm (55")	157cm (62")	165cm (65")	190cm (75")	210cm (83")	225cm (89")	236cm (93")
<b>Weight</b>	tbc	tbc	tbc	tbc	tbc	tbc	tbc
<b>Voltage</b>	Three Phase 400 Volts 50 Hz. AC						
<b>Power</b>	1kW						
<b>Current</b>	5 Amps						

## Sheet Collection Trays

Model No.	70	90	110	130	155	170	185	215
<b>Max. Paper Size</b>	76 x 68cm (30" x 27")	96 x 78cm (38" x 31")	112 x 86cm (44" x 34")	136 x 96cm (53" x 38")	161 x 119cm (63" x 47")	176 x 139cm (69" x 55")	191 x 154cm (75" x 60")	221 x 165cm (87" x 65")
<b>Height</b>	Belt height of dryer (adjustable)							
<b>Width</b>	91cm (36")	111cm (44")	131cm (52")	151cm (60")	176cm (69")	191cm (75")	205cm (81")	236cm (93")
<b>Depth</b>	74cm (29")	84cm (33")	95cm (37")	102cm (40")	125cm (49")	145cm (57")	160cm (63")	169cm (67")
<b>Weight</b>	tbc	tbc	tbc	tbc	tbc	tbc	tbc	tbc
<b>Voltage</b>	Single Phase 220/240 Volts 50 Hz. AC							
<b>Current</b>	5 Amps (Vibrating models only)							

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