



**NON-WOVEN
CONVEYING
SYSTEMS**



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NON-WOVEN SYSTEMS

PNEUMATIC CONVEYING

Using positive and/or negative air pressure to capture, transport and deliver non-woven materials has proved highly effective for non-wovens producers and converters throughout the world. Properly designed systems are clean, quiet, safe, efficient and cost effective.

Quickdraft pioneered the development of pneumatic conveying. Systems are specifically designed, engineered and stocking tested to handle the special requirements of non-woven production and converting.

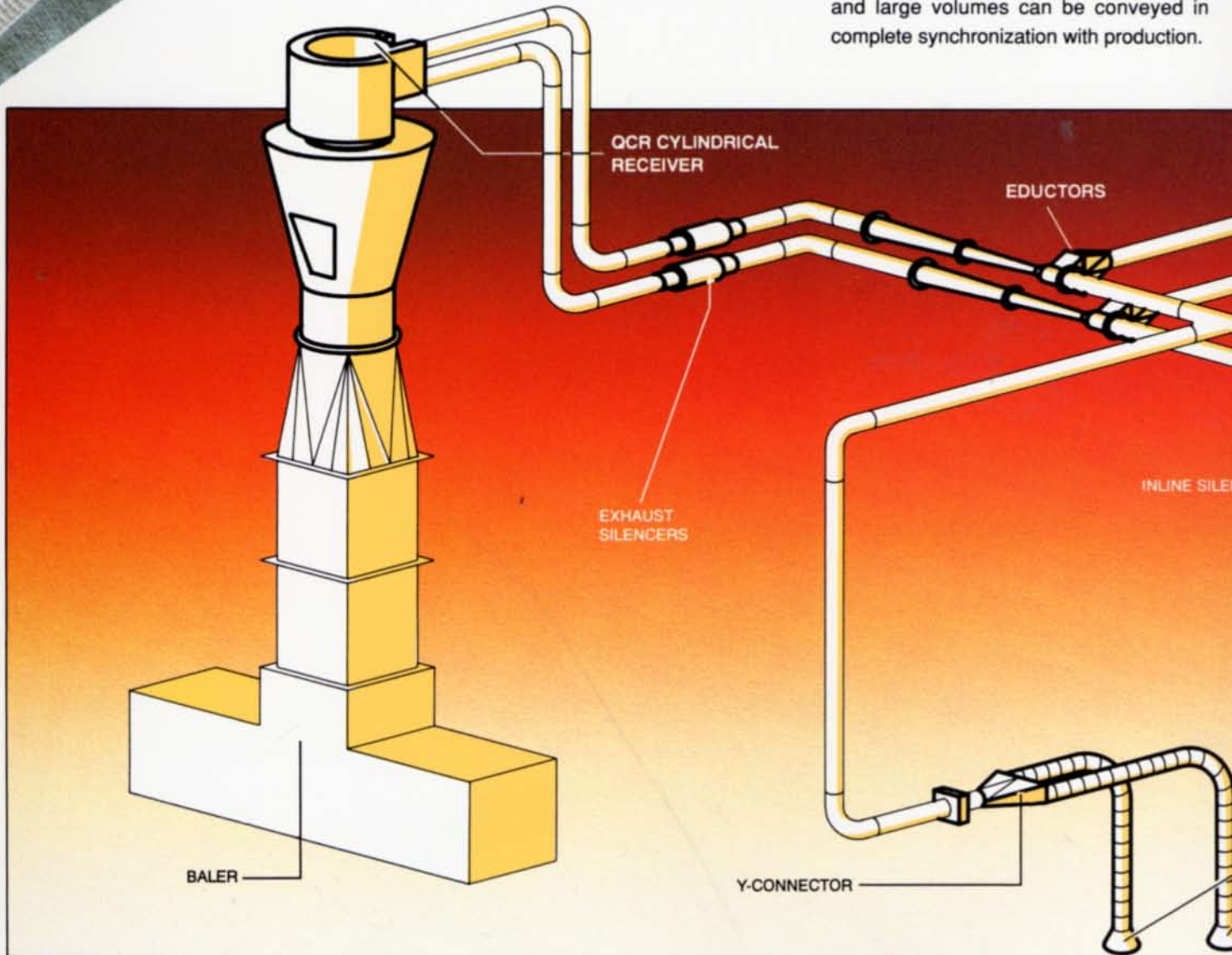
APPLICATIONS

Non-wovens are engineered to specific product requirements. They can be hard to handle. They may have static charges and other characteristics which prevent handling

with traditional approaches that work so well in paper, textile and other industries. Quickdraft has developed systems and techniques to meet the special needs of the non-woven processes in manufacturing and in converting. Customers throughout the industry have experienced the unique benefits of Quickdraft applications.

START-UP WASTE

One of the prime concerns in many non-woven facilities is conveying start-up waste away from the production process quickly, safely and effectively so as to optimize the manufacturing cycle. The Quickdraft educator's motive force induced by powerful turbo units has proved to be the most efficient means for accomplishing this task. The material doesn't have to be chopped and large volumes can be conveyed in complete synchronization with production.



TRIM HANDLING

Capturing and conveying trim is common to most non-woven manufacturing and converting operations. Quickdraft systems are designed to seize a specific non-woven material without having any adverse affect on the web. The trim can then be conveyed to any desired location safely and unobtrusively.

WASTE HANDLING

Cut outs, punch outs, matrix, skeleton and other waste material can be conveyed surely and efficiently with a Quickdraft system, sometimes the very same Quickdraft system which is providing other pneumatic conveying functions. The waste material can be delivered to a receiver in the form most suitable for disposal or recycling.

REJECT HANDLING

Rejected product anywhere in the manufacturing or converting process can be safely and promptly seized from the production facility and conveyed to a location suitable for reprocessing or disposal.

SPECIAL APPLICATIONS

Many applications are unique to a specific customer because they involve processes, procedures or techniques which are proprietary. Quickdraft system designers and application engineers are available to provide engineering services for new or existing installations. All customer related data is treated in a completely confidential manner.

APPLICATION INTEGRITY

The non-wovens industry has achieved spectacular growth through its innovations and expertise. Many of the processes and methods used in producing and converting

are proprietary.

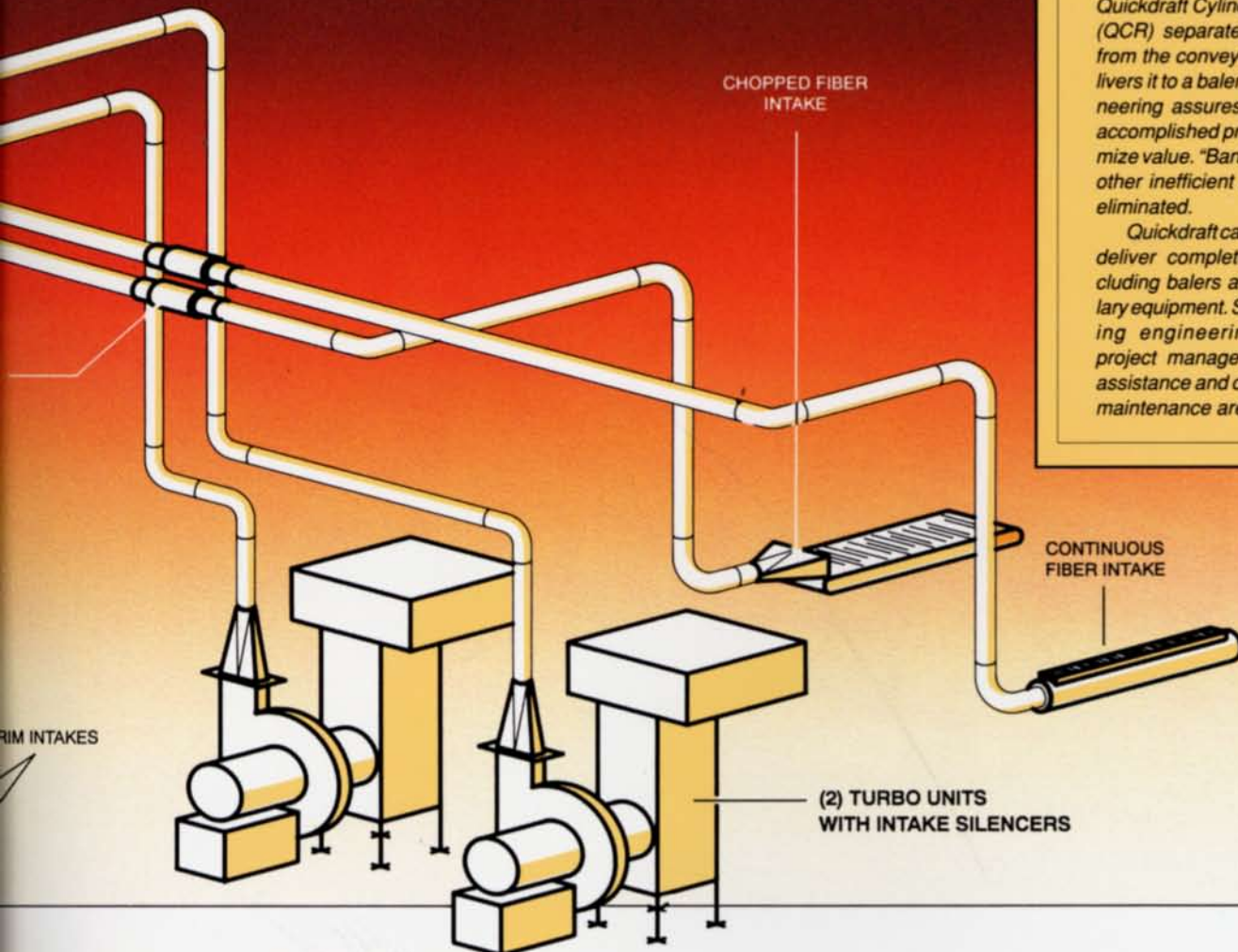
Quickdraft has joined forces with each customer to preserve application integrity. Quickdraft experience in the techniques of pneumatic conveying are made available to all customers, but any customer's proprietary processes, techniques or methods are held strictly confidential.



SYSTEM INTEGRATION

The system depicted here captures start up waste, continuous fiber material, chopped fiber reject and trim. The ductors are remote from the turbo power units to accommodate space requirements. A unique Quickdraft Cylindrical Receiver (QCR) separates the material from the conveying air and delivers it to a baler. System Engineering assures that baling is accomplished properly to maximize value. "Banana" bales and other inefficient processes are eliminated.

Quickdraft can engineer and deliver complete systems including balers and other ancillary equipment. Services including engineering drawings, project management, start-up assistance and comprehensive maintenance are available.



TRIM INTAKES

CHOPPED FIBER INTAKE

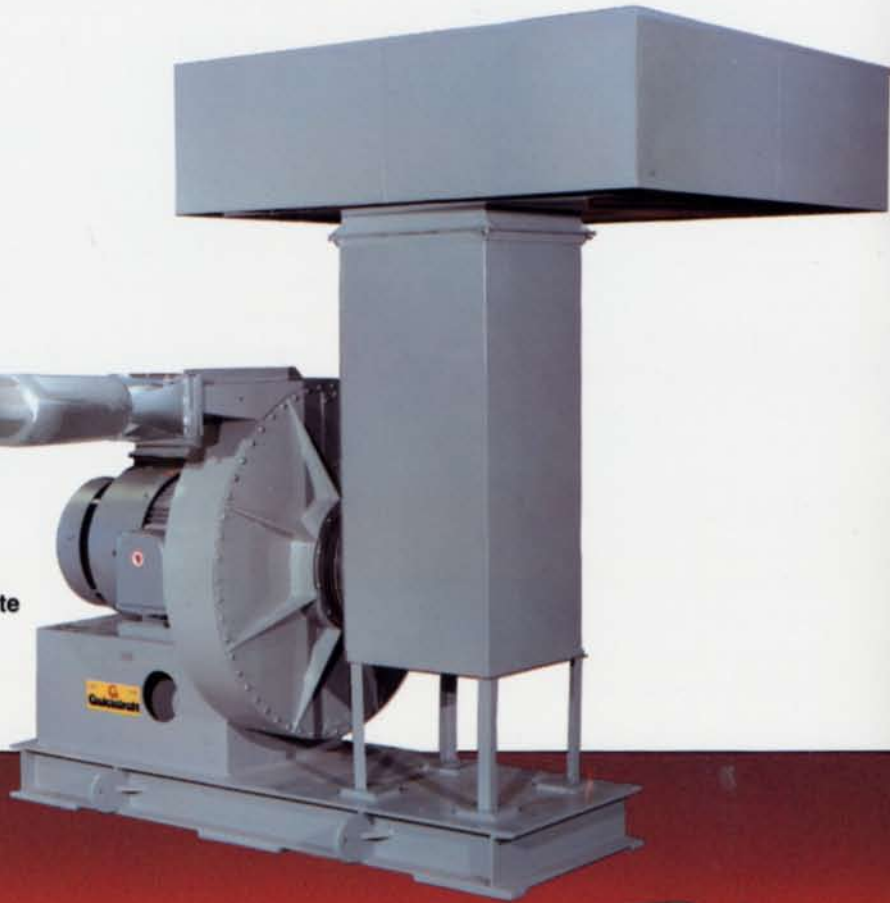
CONTINUOUS FIBER INTAKE

(2) TURBO UNITS WITH INTAKE SILENCERS

STOCKING TESTING

To ensure that all surfaces which the conveyed materials contact are clean and snag-free, Quickdraft and several non-wovens producers have developed a standard which requires that a 15 Denier nylon stocking be passed over the inside surfaces without snagging.

Eductor with Remote Turbo Blower



Eductor with Sirocco Blower, Tapered Exhaust Silencer and Cylindrical Intake Silencer



EDUCTORS

Quickdraft eductors pioneered the concept of continuous trim handling. They continue to set the standards for quality and performance for all applications requiring a clear-through (unimpeded) flow path.

Several types of blowers are available to inject air and induce flow through the eductors. Among the most popular are the Sirocco and the Quickdraft turbo.

Intake and exhaust silencers are available for all applications and complete sound enclosures may be furnished when desired.

SEPARATORS

QUICKDRAFT CYLINDRICAL RECEIVER (QCR)

The QCR is a state-of-the-art engineering advancement specifically developed by Quickdraft for trim and waste handling applications. It uses cyclonic action but with design innovations that preclude the usual cyclone problems such as plugging with variable loading. An optional shroud is available to surround the basic unit and capture any dust or fines which may be present. These can be conveyed elsewhere... to a dust collector, for example.

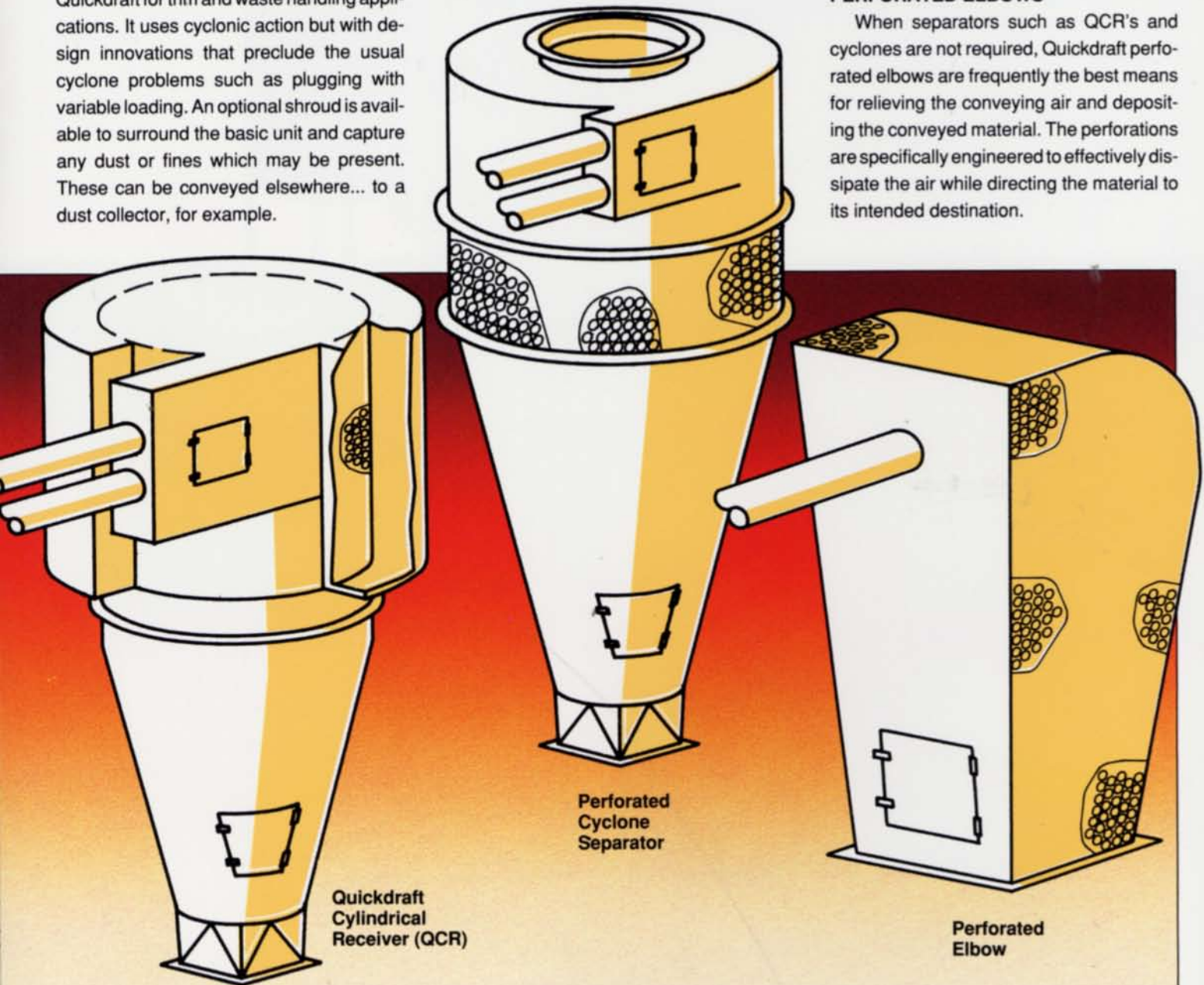
PERFORATED CYCLONE SEPARATORS

The Perforated Cyclone Separator is another example of Quickdraft engineering innovation. A band of perforated metal is custom designed into the midsection of the cyclone. This prevents many types of materials from being discharged out of the top of the cyclone. Instead, the material is delivered from the bottom of the unit as desired. The perforated cyclone separator is especially effective with continuous and light trim materials.

Q U I C K D R A F T

PERFORATED ELBOWS

When separators such as QCR's and cyclones are not required, Quickdraft perforated elbows are frequently the best means for relieving the conveying air and depositing the conveyed material. The perforations are specifically engineered to effectively dissipate the air while directing the material to its intended destination.



SERVICES

System designs are implemented by a task force of personnel under the direction of an experienced project manager, who coordinates all elements of the project to deliver the desired performance.

After the installation is completed, Quickdraft service is on call to keep the system functioning as designed and to provide parts and accessories whenever required.

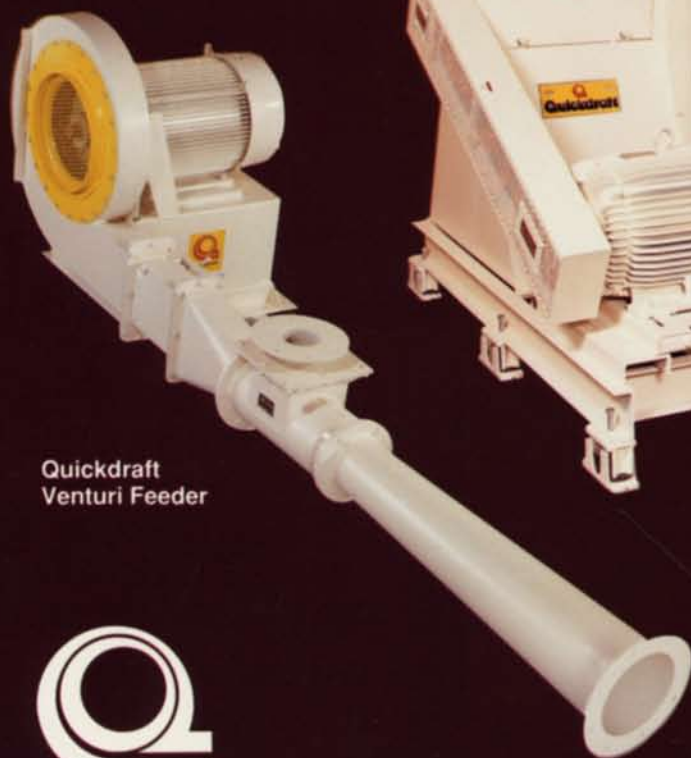
ENGINEERED SYSTEMS

Quickdraft design engineers develop complete systems including capture devices, power units, air/material separators and all necessary components and accessories. The total project may include compactors, balers and other auxiliary equipment.

Quickdraft
G U A R A N T E E

*The Quickdraft guarantee goes far beyond the usual product repair or replacement policy for "defects in workmanship or material." It can extend to on-site **system performance**. We are told it is the best in the industry and it has been in force for almost half a century. Full details are provided with each quotation.*

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