



CUSTOM DOWNSTREAM SYSTEMS

ENGINEERING PLASTICS

DOWNSTREAM
EXTRUSION
MACHINERY



In Line
With Your Future



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ENGINEERING PLASTICS

DOWNSTREAM EXTRUSION MACHINERY

Since 1997, CDS has been a supplier to the engineering plastics industry, working with customers to build custom downstream machinery.

CDS' Engineering Plastics Downstream Extrusion Machinery will exceed your expectations, as our engineered solutions are endless. Our machinery can process extruded slabs, tubes, and rods from different materials, including **PE, PETFE, PVC, PP, Nylon, Acetal, Delrin, Peek,** and **other similar materials.**

TECHNOLOGY

Customization, flexibility, and innovative technology highlight CDS' strengths in the engineering plastics extrusion industry for a wide range of applications, from **High-Pressure Clamping, Pulling, and Braking** to **Multi-Pass Cutting** and **Line Automation.**

MACHINERY

CDS manufactures Engineering Plastics Downstream Extrusion Machinery in the following categories:

1. Engineering Plastics Pulling Machines:

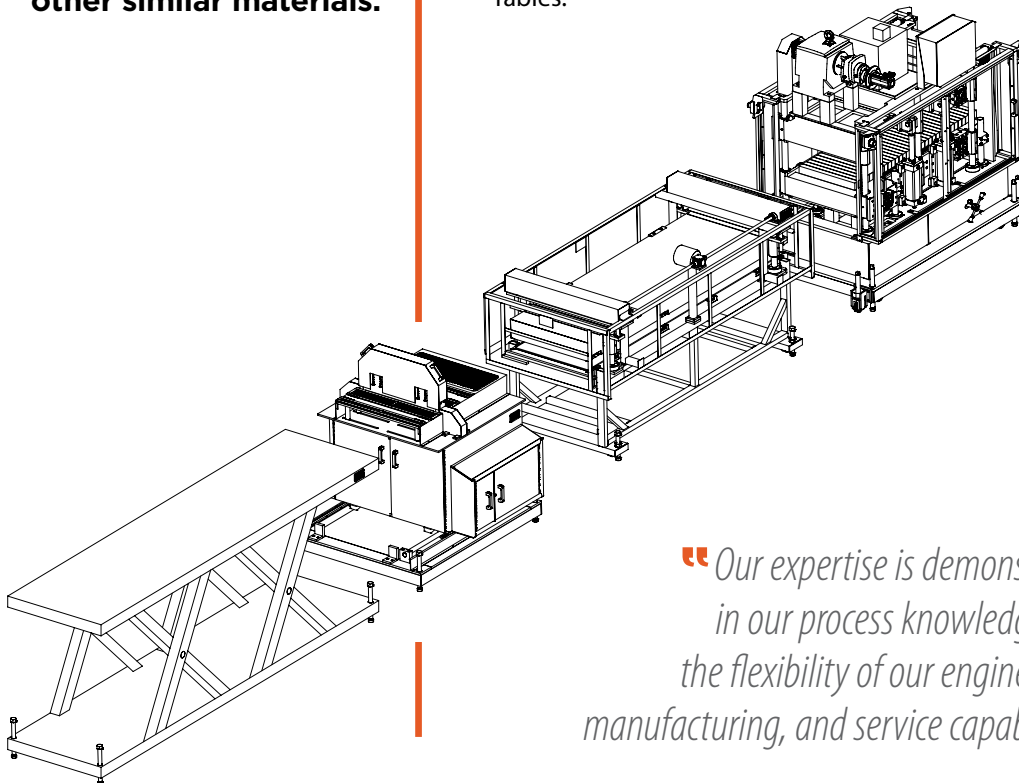
Slab, Rod, and Tube Haul-Offs.

2. Engineering Plastics Cutting Machines:

Cross-Cut Saws, Multi-Pass Cross-Cut Saws, and Traveling Planetary Saws.

3. Engineering Plastics Collection Machines:

Tilt Tables, Stacking Tables, Run-Off Tables, and Annealing Tables.



“Our expertise is demonstrated in our process knowledge and the flexibility of our engineering, manufacturing, and service capabilities.”



ENGINEERING PLASTICS PULLING MACHINES

To accommodate the size and the unique processing requirements of extruded slabs, rods, or tubes, CDS offers its series of Engineering Plastics Pulling Machines, designed to provide steady and precise braking and pulling.

- Consistent braking, pulling and torque
- Safe and easy to operate with minimal maintenance requirements
- Non-marking cleats that maximize grip
- Available in different sizes and configurations
- 0-10VDC, or 4-20 mA Line Integration

STANDARD SPECIFICATIONS:

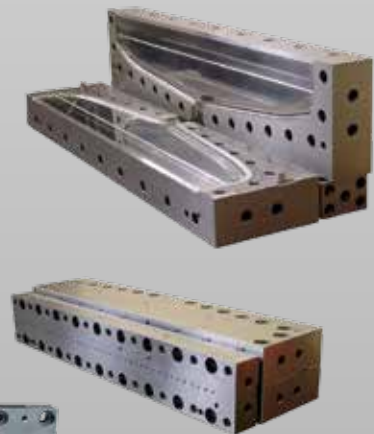
- Full coverage safety enclosure
- Heavy-duty steel frame construction
- Heavy-duty gearboxes
- Vector closed-loop electrical system with encoder feedback
- Upper beam with hydraulic clamping control system
- Lower beam with motorized/manual height adjustment
- Fixed or Quick-change cleats
- Cleat pads adapted for slab or rod applications
- Touch screen controls (HMI)
- Line direction: Right-Left / Left-Right



SLAB/ROD HAUL-OFF BRAKE

CCHB-H Series			
STANDARD FEATURES	CCHB 48H	CCHB 60H	CCHB 72H
Conveyor Length	48"	60"	72"
Conveyor Width	Up to 60"		
Max. Conveyor Opening (Between Cleats)	Up to 24"		

*CCHB-H: CDS Slab/Rod Haul-Off Brake



*Coat hanger dies with hot dies and adapter plates available



ENGINEERING PLASTICS PULLING MACHINES



CCHB48H-15SQ

TUBE/ROD HAUL-OFF BRAKE

CCHB-HQ Series

STANDARD FEATURES	CCHB 48HQ	CCHB 60HQ	CCHB 72HQ
Conveyor Length	48"	60"	72"
Conveyor Width	18"		
Max. Conveyor Opening (Between Cleats)	30"		

*CCHB-HQ: CDS Tube/Rod Haul-Off Brake

ENGINEERING PLASTICS PULLING OPTIONS

Customizable cleat configuration

Servo controls and motors (**)

Forklift slots on frame

Motorized/non-motorized mounted tooling bracket

Motorized longitudinal movement

Central greasing system

Allen-Bradley, Omron, and Siemens packages available (*)

Line Integration: Hard-wired interconnection (analog microprocessor interface, speed signal to measuring device, encoder I/O), Ethernet/IP available

Electrics: 230-460-575VAC / 3PH / 60 Hz, 380-400VAC / 3PH / 50 Hz

(**): All motors are Energy-Efficient

(*): Other brands available upon request

Note: All of the above machinery complies with UL-CSA-CE



ENGINEERING PLASTICS CUTTING MACHINES

CDS' Engineering Plastics Cutting Machines are designed and manufactured to accurately cut slabs, rods, or tubes of various materials. The unit's blade cuts in synchronization with the extrusion line speed to achieve cut-to-length precision.

STANDARD SAW SPECIFICATIONS:

- Heavy-duty steel frame construction
- Heavy-duty clamping system
- Pneumatic, air over oil, or servo table travel
- Fully guarded for maximum machine operator safety
- Electronic braking system for blade stop
- Integrated electronic length control with encoder (Servo packages)
- Pneumatically activated cross-cut stroke
(Applicable only on Cross-Cut Saws)
- Pneumatically-assisted carriage travel
(Applicable only on Planetary Saws)
- Vacuum Dust/Chip Collector (Servo packages)
- Touch screen controls (HMI)
- Line direction: Right-Left / Left-Right



CTSC60-28-75

CROSS-CUT SAWS

CTSC / CSSC Series		
STANDARD FEATURES	CSSC 40-15	CSSC 40-20
Cutting Width	24" or 28"	40" or 55"
Cutting Height	6"	

*CTSC: CDS Cross-Cut Saw

*CSSC: CDS Servo Precision Cross-Cut Saw

SAW SEQUENCE:

Once-through cross-cut as follows:

- ✓ Saw clamp comes down
- ✓ Blade travels across part width
- ✓ Clamp releases (opens)
- ✓ Saw blade returns home underneath the table
- ✓ Table returns home



CUTTING MACHINES



CTSCM60-50-75

MULTI-PASS CROSS-CUT SAWS

CTSCM Series

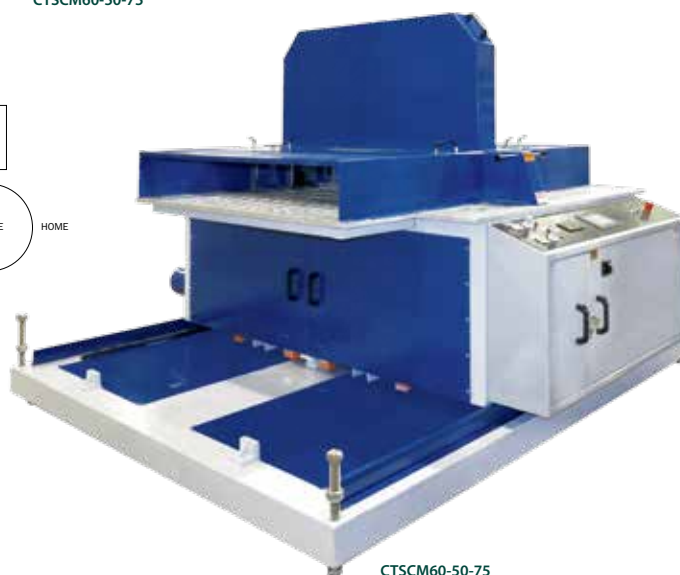
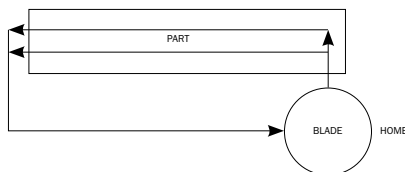
STANDARD FEATURES	CTSCM 80
Cutting Width	28", 40", and 55"
Cutting Height	10"

*CTSCM: CDS Multi-Pass Cross-Cut Saw

SAW SEQUENCE:

Multi-Pass cross-cut as follows:

- ✓ Blade comes up into the part at first
- ✓ Blade travels across part width
- ✓ Blade drops under table and returns home
- ✓ The above sequence is repeated multiple times until the cut is completed
- ✓ Saw clamp releases part
- ✓ Blade drops underneath the table
- ✓ Blade and table returns home



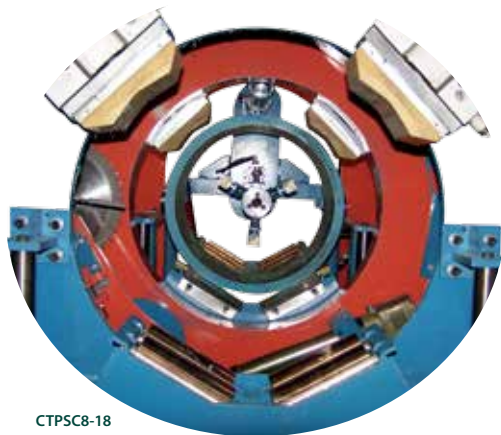
CTSCM60-50-75

TRAVELING PLANETARY SAWS

CTPS Series

STANDARD FEATURES	CTPSC 6-18	CTPSC 8-24
Tube Capacity O.D.	6" to 18"	8" to 24"

*CTPS: CDS Traveling Planetary Saw



CTPSC8-18

ENGINEERING PLASTICS CUTTING OPTIONS

Vacuum Dust/Chip Collector (*CTSC) (**)

Variable saw blade speed

Servo ball screw table travel

Dual pre-set electronic length control (*CTSC)

Selector switch for automatic/manual mode

Programmable recipes

Central greasing system

Allen Bradley, Omron, and Siemens packages available (*)

Line Integration: Hard-wired interconnection (analog microprocessor interface, speed signal to measuring device, encoder I/O), Ethernet/IP available

Electrics: 230-460-575VAC / 3PH / 60 Hz, 380-400VAC / 3PH / 50 Hz

(**): All motors are Energy-Efficient

(*CTSC): Applicable only on Cross-Cut Saw

(*): Other brands available upon request

Note: All of the above machinery complies with UL-CSA-CE



ENGINEERING PLASTICS COLLECTION MACHINES

CDS offers its series of Engineering Plastics Collection Machines which have been designed to offer a complete line extrusion process.



TILT TABLES

- Heavy-duty steel construction
- Transfer quickly tubes or rods to a collection area
- Tilt action control

*CTT: CDS Tilt Table

STACKING TABLES

- Heavy-duty steel construction
- Adjustable table height to product thickness
- Hydraulic or servo actuation system

*CSM: CDS Stacking Machine

RUN-OFF TABLES

- Heavy-duty steel construction
- Run-out table
- Sorting area

*CRT: CDS Run-Off Table



ENGINEERING PLASTICS COLLECTION OPTIONS

Line direction: Right-Left / Left-Right

Customizable table width and bin type (*CTT)

Customizable table width and length

Tilt action controlled via an electronic timer, mechanical limit switch or photo-optic sensor (*CTT)

Electrics: 120VAC / 1 PH / 60 Hz, 220VAC / 1 PH / 50 Hz

(*CTT): Applicable only on Tilt Table

Note: All of the above machinery complies with UL-CSA-CE



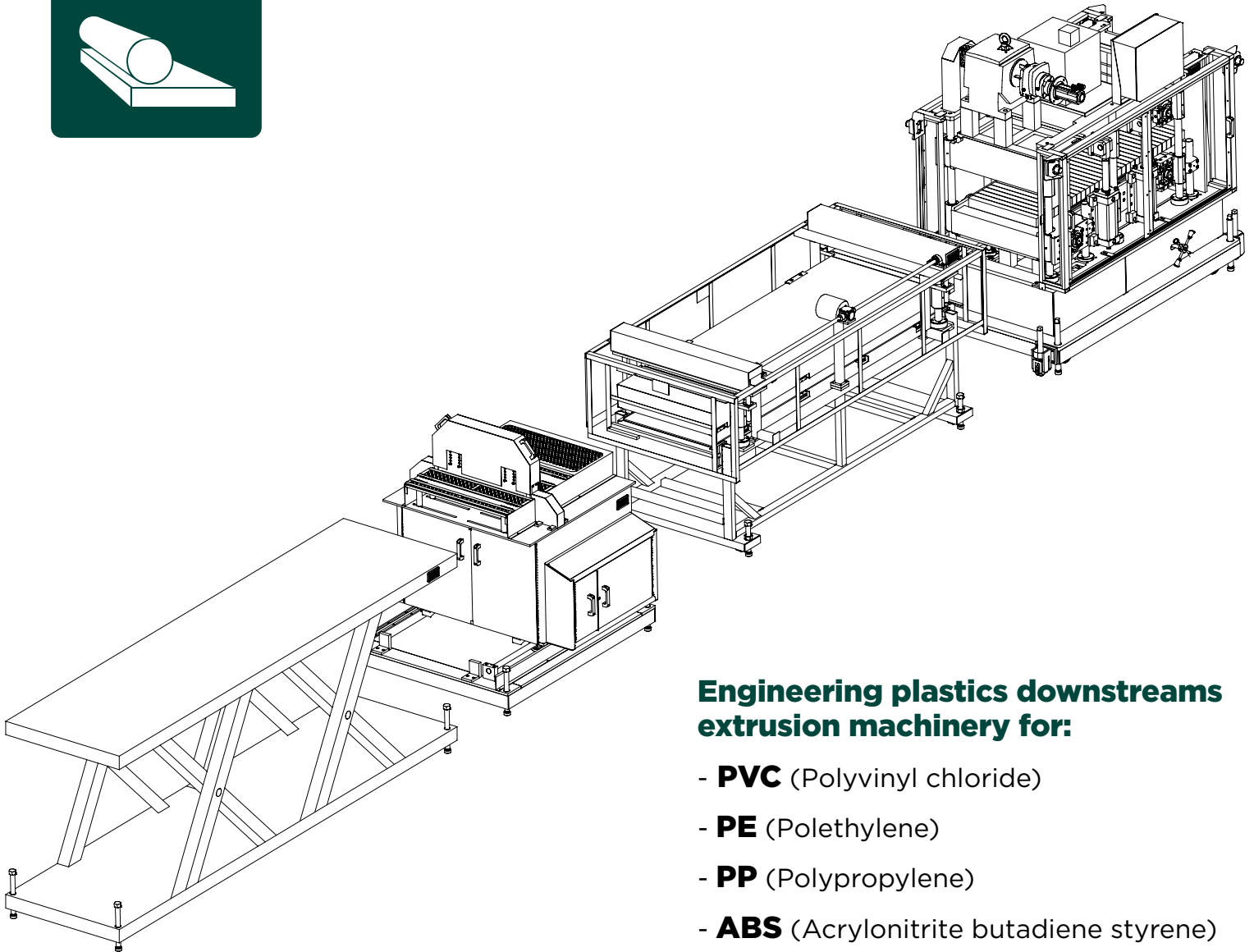
INLINE ANNEALING TABLES

- Heavy-duty steel construction
- Fully guarded for maximum machine operator safety
- Up to 400°F/204°C exposed surface
- Adjustable opening
- Temperature controllers
- Touch screen controls (HMI)

*CIAT: CDS Inline Annealing Table



ENGINEERING
PLASTICS



**Engineering plastics downstreams
extrusion machinery for:**

- **PVC** (Polyvinyl chloride)
- **PE** (Polyethylene)
- **PP** (Polypropylene)
- **ABS** (Acrylonitrile butadiene styrene)
- **PTFE** (Polytetrafluoroethylene)
- **Nylon**
- **Acetal**
- **Delrin**
- **Peek**, and other similar materials



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