



CUSTOM DOWNSTREAM SYSTEMS

# PROFILE

DOWNSTREAM  
EXTRUSION  
MACHINERY



*In Line*  
*With Your Future*



CUSTOM DOWNSTREAM SYSTEMS

# PROFILE

## DOWNSTREAM EXTRUSION MACHINERY

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

CDS' Profile Downstream Extrusion Machinery will exceed your expectations, as our engineered solutions are endless. Our machinery can process extruded **window and door profiles, fencing profiles, and panels.**

### TECHNOLOGY

Customization, flexibility, and innovative technology highlight CDS' strengths in the profile extrusion industry for a wide range of applications, from **Energy-Efficient Vacuum Calibration Systems, High Precision Pulling to Chipless Cutting and Line Automation.**

### MACHINERY

CDS manufactures Profile Downstream Extrusion Machinery in the following categories:

**1. Profile Cooling Machines:**

Vacuum Calibration Tables and Energy-Efficient Vacuum Calibration Tables.

**2. Profile Pulling Machines:**

Belt Haul-Offs and Cleat Haul-Offs.

**3. Profile Cutting Machines:**

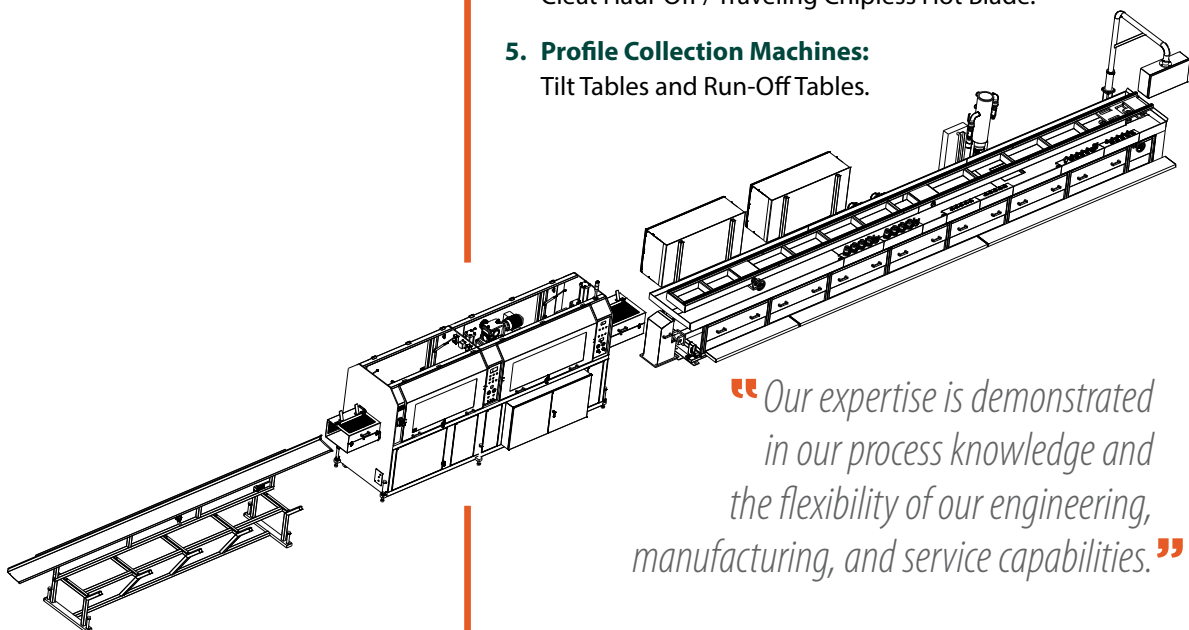
Traveling Cut-Off Saws, Cross-Cut Saws, and Traveling Chipless Hot Blades.

**4. Profile Combination Units:**

Cleat Haul-Off / Traveling Cut-Off Saw and  
Cleat Haul-Off / Traveling Chipless Hot Blade.

**5. Profile Collection Machines:**

Tilt Tables and Run-Off Tables.



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



# PROFILE COOLING MACHINES

CDS' Profile Cooling Machines are recognized for their Vacuum Calibration Tables, which provide a flexible platform for sizing various rigid polymer profiles.

- Stainless steel components to prevent corrosion and water contamination
- T-slot mounting rails for calibration tooling or auxiliary tanks
- 3-axis table movement for precise alignment with the extrusion line

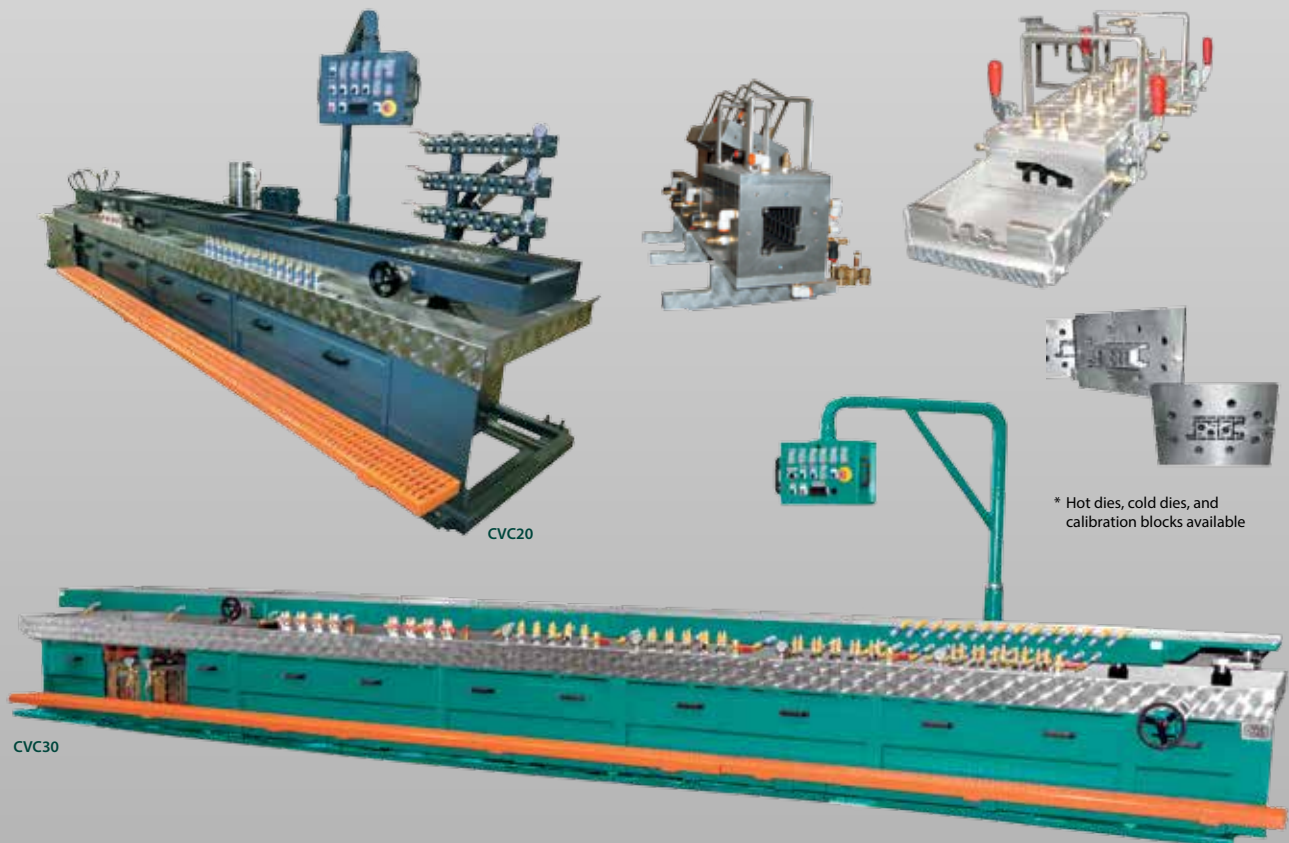
## VACUUM CALIBRATION TABLES

- Pendulum mounted operator panel
- Integrated Haul-Off controls
- Vacuum and Water manifolds
- Motorized longitudinal movement and height adjustment
- Service step
- Line direction: Right-Left / Left-Right



CVC Series									
STANDARD FEATURES	CVC 140	CVC 160	CVC 180	CVC 230	CVC 280	CVC 340	CVC 420	CVC 500	CVC 750
Table Length	14'	16'	18'	23'	28'	34'	42'	50'	75'
Table Width	Up to 40"								

\*CVC: CDS Vacuum Calibration Table



\* Hot dies, cold dies, and calibration blocks available



# PROFILE **COOLING** MACHINES

## ENERGY-EFFICIENT VACUUM CALIBRATION TABLES

- Energy saving system
- Pendulum mounted operator panel with touch screen controls (HMI)
- Integrated Haul-Off controls
- Vacuum and Water manifolds
- Variable pump speed control
- Motorized longitudinal movement and height adjustment
- Service step
- Line direction: Right-Left / Left-Right



CVCE400D

### CVCE Series

STANDARD FEATURES	CVCE 140	CVCE 160	CVCE 180	CVCE 230	CVCE 280	CVCE 340	CVCE 420	CVCE 500	CVCE 750
Table Length	14'	16'	18'	23'	28'	34'	42'	50'	75'
Table Width	Up to 40"								

\*CVCE: CDS Energy-Efficient Vacuum Calibration Table

### PROFILE COOLING OPTIONS

- Dual configuration
- Different table lengths
- Air blower systems
- Programmable recipes (\*CVCE)
- Customizable vacuum and water manifolds
- Vacuum pumps – Dry vacuum (\*\*)
- Cyclone systems – Wet vacuum (\*\*)
- Pump service slides with quick-disconnects
- Plate and Frame/Shell and Tube heat exchangers
- Differential pressure and temperature gauges
- Dual or single stainless steel basket filter with bypass system
- Water recirculation systems (\*\*)
- Loop control heating systems
- Temperature control
- Heavy-duty stainless steel support frame
- Stainless steel drilled and tapped mounting rails
- Angularity adjustment (\*CVCE)
- Insulation on all water components
- Central greasing system
- Touch screen controls (HMI) (\*CVC)
- 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

(\*CVC): Applicable only on Vacuum Calibration Table

(\*CVCE): Applicable only on Energy-Efficient Vacuum Calibration Table

(\*): Other brands available upon request

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



CVCE300





# PROFILE PULLING MACHINES

To accommodate the size and the unique processing requirements of extruded profiles, CDS offers its series of Profile Pulling Machines, designed to provide steady, precise traction for profiles of various materials, sizes, and hardness ratings.

- Consistent pulling speed and torque
- Safe and easy to operate with minimal maintenance requirements
- Cleats or belts that maximize traction while minimizing the distortion of the extruded profile
- Available in different sizes and configurations
- 0-10VDC, or 4-20 mA Line Integration

## STANDARD SPECIFICATIONS:

- Full coverage safety enclosure
- Heavy-duty steel construction
- Adjustable guide rollers
- Vector closed-loop electrical system with encoder feedback
- Both belts driven
- Inline reducer(s)
- Line direction: Right-Left / Left-Right

## BELT HAUL-OFFS

- Individual beam height adjustment
- DuraGrip covered belts



CBH36-4V



CBH48-8V

## CBH Series

STANDARD FEATURES	CBH 40	CBH 48	CBH 60
Conveyor Length	40"	48"	60"
Conveyor Width	Up to 10"		
Max. Conveyor Opening	7"		

\*CBH: CDS Belt Haul-Off



# PROFILE **PULLING** MACHINES

## CLEAT HAUL-OFFS

- Upper beam with pneumatic clamping control
- Fixed or Quick-change cleats
- Direct drive system
- Hinged door for easy operator access



CCH96

### CCH Series

STANDARD FEATURES	CCH 60	CCH 72	CCH 84	CCH 96	CCH 120	CCH 144
Conveyor Length	60"	72"	84"	96"	120"	144"
Conveyor Width (Fixed Cleats)	7", 10", 12", 15", 18", 24", 36", 48", and 60"					
Conveyor Width (Quick-Change Cleats)	7", 10", 12", 15", 18", and 24"					
Max. Conveyor Opening (Between Cleats)	6"					

\*CCH: CDS Cleat Haul-Off

### PROFILE PULLING OPTIONS

Dual configuration

Customizable belt and cleat configuration

High temperature belt material

Upper beam with pneumatic clamping control (\*CBH)

Manual lower beam height adjustment (\*CCH)

Direct drive system with vector controls and motors (\*CBH) (\*\*)

Direct drive system with servo controls and motors (\*\*)

Central greasing system

Touch screen controls (HMI)

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

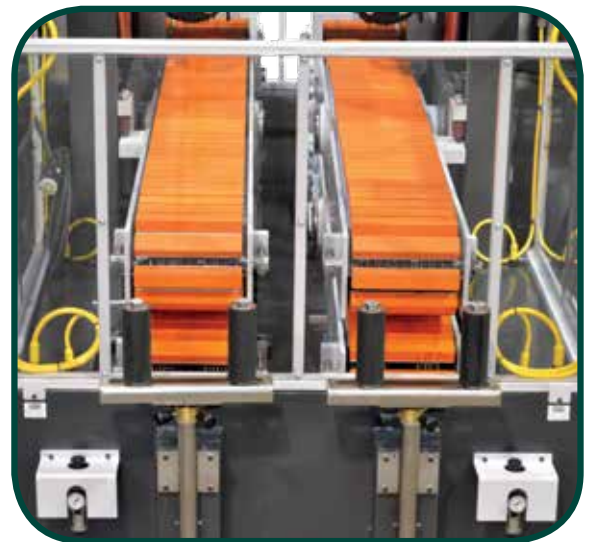
(\*\*): All motors are Energy-Efficient

(\*CBH): Applicable only on Belt Haul-Off

(\*CCH): Applicable only on Cleat Haul-Off

(\*): Other brands available upon request

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



CCH96D



# PROFILE CUTTING MACHINES

CDS' Profile Cutting Machines are designed and manufactured to accurately cut profiles of various materials. The unit's blade cuts in synchronization with the extrusion line speed to achieve cut-to-length precision.

- Fast, accurate cuts for a wide range of profiles
- Servo models increase line speed and cutting accuracy, and provide consistent cutting
- Sturdy for straight, clean cuts

## STANDARD SAW SPECIFICATIONS:

- Heavy-duty steel construction
- Pneumatic or Servo table travel
- Fully guarded for maximum machine operator safety
- Cut length accuracy  $\pm .015$  inch (Servo packages)
- Brake motor for quick blade stop
- Integrated electronic length control with encoder (Servo packages)
- Pneumatically activated cross-cut stroke (Applicable only on Cross-Cut Saws)
- Once-through cross-cut (Applicable only on Cross-Cut Saws)
- Vacuum Dust/Chip Collector (Servo packages)
- Line direction: Right-Left / Left-Right



CTS45-8



CSS45-8

## TRAVELING CUT-OFF SAWS

CTS / CSS Series						
STANDARD FEATURES	CTS 3-3	CTS 45-8	CTS 65-13	CTS 85-18	CTS 11-24	CTS 13-28
Profile Cutting Window (W x H)	3.5" x 2.5"	8" x 3.5"	13" x 3.5"	18" x 4.5"	22" x 4.5"	28" x 5"
Profile Cutting Window (H x W)	3" x 2.5"	4.5" x 4"	6" x 2.5"	8" x 9"	10" x 4.5"	12.5" x 4.5"
Saw Blade Diameter	10"	14"	18"	24"	28"	33"

\*CTS: CDS Traveling Cut-Off Saw

\*CSS: CDS Servo Precision Cut-Off Saw



CTSC48-44-5

## CROSS-CUT SAWS

CTSC / CSSC Series		
STANDARD FEATURES	CTSC 45	CTSC 60
Available Cutting Width:	21", 31", and 62"	31"
Cutting Window (W x H)	21" x 4.5"	-
Cutting Window (W x H)	31" x 4.5"	31" x 6"
Cutting Window (W x H)	62" x 4.5"	-

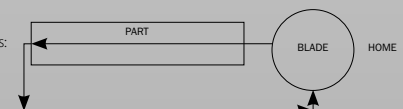
\*CTSC: CDS Cross-Cut Saw

\*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



# PROFILE **CUTTING** MACHINES

## TRAVELING CHIPLESS HOT BLADE

- Heavy-duty steel construction
- Blade heating system
- Integrated electronic length control with encoder
- Chipless no-waste hot blade cutting
- Hinged door for easy operator access
- Touch screen controls (HMI)
- Line direction: Right-Left / Left-Right



CUTPRO300S

### CUTPRO / CUTPRO-S Series

STANDARD FEATURES	CUTPRO 300	CUTPRO 300S	CUTPRO 600	CUTPRO 600S
Profile Cutting Window (W x H)	9" x 4.75"	9" x 4.75"	20" x 6.5"	20" x 6.5"
Profile Cutting Window (H x W)	5.5" x 6.5"	5.5" x 6.5"	10" x 10"	10" x 10"
Cut length accuracy	± .120	± .015"	± .120	± .015"
Table travel	18"	26"	20"	26"

\*CUTPRO: CDS Traveling Chipless Hot Blade

\*CUTPRO-S: CDS Servo Precision Chipless Hot Blade

### PROFILE CUTTING OPTIONS

Full coverage safety enclosure (Applicable only on Saws)

Soundproofing (Applicable only on Saws)

Dual configuration (Not applicable on Cross-Cut Saws)

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

Variable saw blade speed

Servo ball screw table travel (\*CSS/\*CSSC/\*CUTPRO-S)

Product support jig (Applicable only on Saws)

Electronic length control (\*CTS/\*CTSC)

Batch counter (\*CTS/\*CTSC)

Programmable recipes (Not applicable on Traveling Cut-Off Saws)

Enhanced traveling length for high-velocity line (\*CSS)

Central greasing system

Touch screen controls (HMI) (\*CTS)

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

(\*CTS): Applicable only on Traveling Cut-Off Saw

(\*CSS): Applicable only on Servo Precision Cut-Off Saw

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

(\*CSSC): Applicable only on Servo Precision Cross-Cut Saw

(\*CUTPRO-S): Applicable only on Servo Precision Chipless Hot Blade

(\*): Other brands available upon request

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



CUTPRO300





# PROFILE COMBINATION UNITS

CDS' Profile Combination Units are recognized for their compact designs that reduce their footprint while combining high pull forces with precise cutting capabilities. CDS can customize a combination system for any profile application.

## STANDARD SPECIFICATIONS:

- Heavy-duty steel common base construction
- Fully enclosed with hinged doors for easy operator access
- Touch screen controls (HMI)
- Direct drive system
- Upper beam with pneumatic clamping control
- Fixed lower conveyor
- Integrated electronic length control with encoder
- Automatic clamp adjustment
- Vacuum Dust/Chip collector
- 0-10VDC, or 4-20 mA Line Integration
- Line direction: Right-Left / Left-Right



CCHS96-65

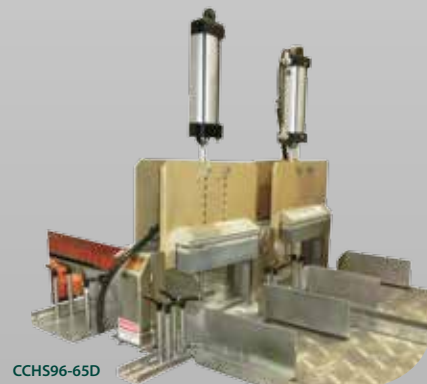
## CLEAT HAUL-OFF / TRAVELING CUT-OFF SAW

### CCHS / CCHS-S Series

STANDARD FEATURES	CCHS 60-45	CCHS 60-65	CCHS 72-45	CCHS 72-65	CCHS 96-65	CCHS 96-85	CCHS 120-65	CCHS 120-85	CCHS 144-65	CCHS 144-85
Conveyor Length	60"	60"	72"	72"	96"	96"	120"	120"	144"	144"
Conveyor Width (Fixed Cleats)	7", 10", 12", 15", 18", 24", 36", 48", and 60"									
Conveyor Width (Quick-Change Cleats)	7", 10", 12", 15", 18", and 24"									
Profile Cutting Window (W x H)	8" x 3.5"	13" x 3.5"	8" x 3.5"	13" x 3.5"	13" x 3.5"	18" x 4.5"	13" x 3.5"	18" x 4.5"	13" x 3.5"	18" x 4.5"
Profile Cutting Window (H x W)	4.5" x 4"	6" x 2.5"	4.5" x 4"	6" x 2.5"	6" x 2.5"	18" x 4.5"	6" x 2.5"	18" x 4.5"	6" x 2.5"	18" x 4.5"

\*CCHS: CDS Combination Cleat Haul-Off / Traveling Cut-Off Saw

\*CCHS-S: CDS Combination Cleat Haul-Off / Servo Precision Cut-Off Saw



CCHS96-65D



# PROFILE COMBINATION UNITS



CCHC96-300



## CLEAT HAUL-OFF / TRAVELING CHIPLESS HOT BLADE

### CCHC / CCHC-S Series

STANDARD FEATURES	CCHC 60-300	CCHC 72-300	CCHC 96-300	CCHC 96-600	CCHC 120-300	CCHC 120-600	CCHC 144-300	CCHC 144-600
Conveyor Length	60"	72"	96"	96"	120"	120"	144"	144"
Conveyor Width (Fixed Cleats)	7", 10", 12", 15", 18", 24", 36", 48", and 60"							
Conveyor Width (Quick-Change Cleats)	7", 10", 12", 15", 18", and 24"							
Profile Cutting Window (W x H)	9" x 4.75"	9" x 4.75"	9" x 4.75"	20" x 6.5"	9" x 4.75"	20" x 6.5"	9" x 4.75"	20" x 6.5"
Profile Cutting Window (H x W)	5.5" x 6.5"	5.5" x 6.5"	5.5" x 6.5"	10" x 10"	5.5" x 6.5"	10" x 10"	5.5" x 6.5"	10" x 10"

\*CCHC: CDS Combination Cleat Haul-Off / Traveling Chipless Hot Blade

\*CCHC-S: CDS Combination Cleat Haul-Off / Servo Precision Chipless Hot Blade

### PROFILE COMBINATION UNIT OPTIONS

Dual configuration

Customizable cleat configuration

Direct drive system with servo controls and motors (\*\*)

Lower beam adjustment

Servo ball screw table travel

Programmable recipes

Push-button controls

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



# PROFILE COLLECTION MACHINES

CDS offers pneumatically-activated Tilt and Run-Off Tables that safely collect a wide range of plastic extruded profiles. Our rugged and reliable Profile Collection Machines can quickly load material into a bundling rack or bin for easy pickup.

## TILT TABLES

- Heavy-duty steel construction
- Transfer profiles quickly to a collection area
- Tilt action control



CTT Series				
STANDARD FEATURES	CTT 6	CTT 8	CTT 12	CTT 15
Table Length	Up to 24'			
Table Width	6"	8"	12"	15"

\*CTT: CDS Tilt Table

## RUN-OFF TABLES

- Heavy-duty steel construction
- Run-out rack with rollers
- Fixed V-shaped table
- Manual push-off

CRT Series		
STANDARD FEATURES	CRT 32	CRT 58
Table Length	Up to 24'	
Roller Width	32"	58"

\*CRT: CDS Run-Off Table

## PROFILE COLLECTION OPTIONS

Line direction: Right-Left / Left-Right

Dual configuration (\*CTT)

Customizable table width and bin type (\*CTT)

Customizable roller orientation and collection area (\*CRT)

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

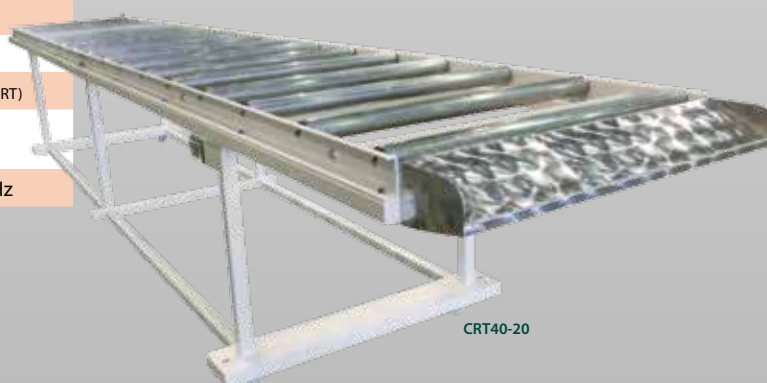
Electrics: 120V AC / 1 PH / 60 Hz, 220V AC / 1 PH / 50 Hz

(\*CTT): Applicable only on Tilt Table

(\*CRT): Applicable only on Run-Off Table

(\*): Other brands available upon request

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



## PROFILES



### **Profile downstream extrusion machinery for :**

- Window and door profiles
- Fencing profiles
- Technical profiles
- Pannel profiles



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