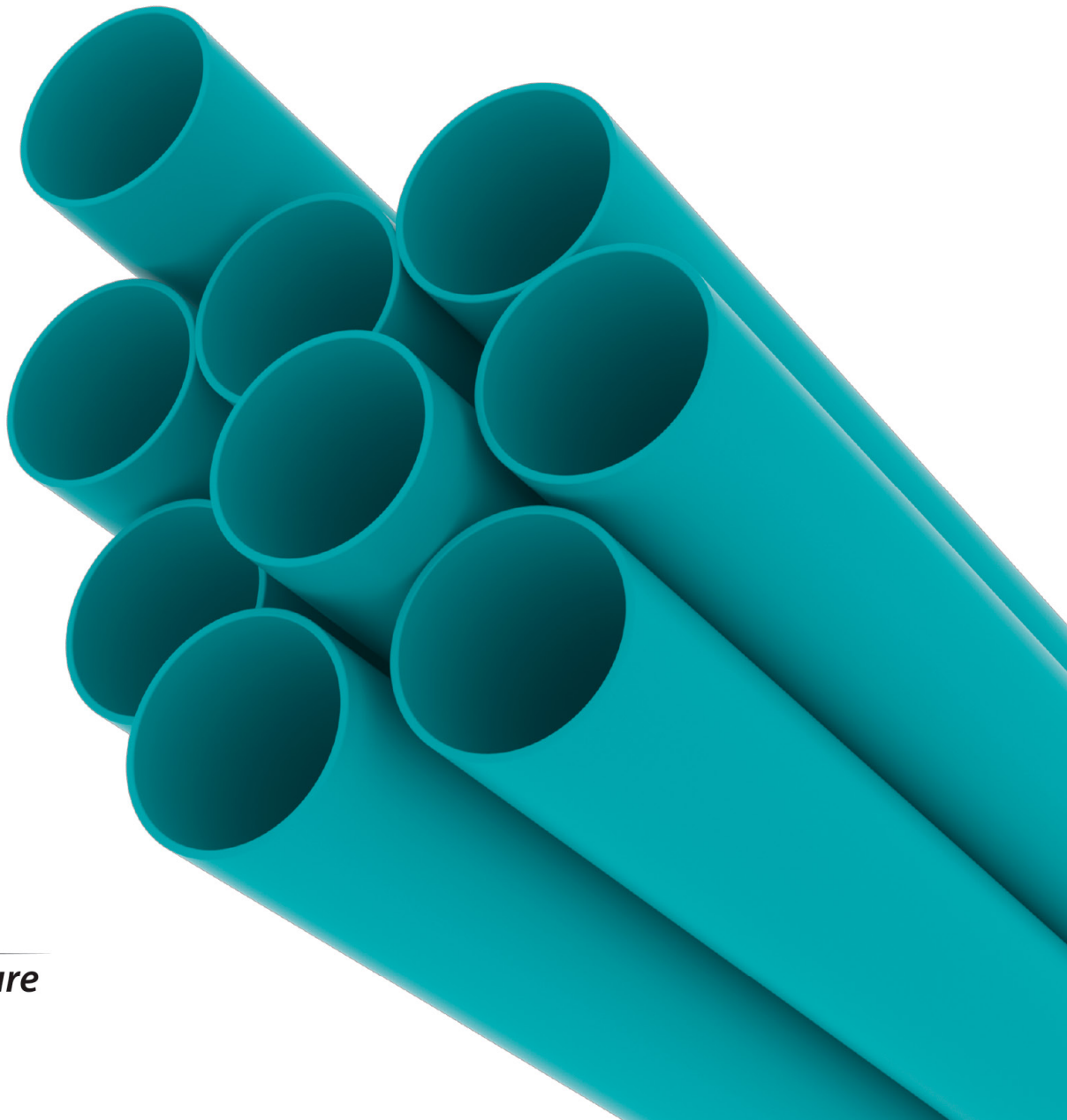




# Pipe

Downstream Extrusion Machinery



*In Line*  

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*With Your Future*



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

CDS' Pipe Downstream Extrusion Machinery will exceed your expectations, as our engineered solutions are endless. Our machinery can process extruded pipes from various materials, including PVC, CPVC, HDPE, LDPE, PP, and Nylon.

### TECHNOLOGY

Customization, flexibility, and innovative technology highlight CDS' strengths in the pipe extrusion industry for a wide range of applications, from **Efficient Cooling Systems** and **Consistent Pulling** to **Swarfless Cutting**, **Advanced Collection Systems**, and **Line Automation**.

### MACHINERY

CDS manufactures Pipe Downstream Extrusion Machinery in the following categories:

- Pipe Cooling Machines:** Vacuum Spray Sizing Tanks and Spray Cooling Tanks.
- Pipe Pulling Machines:** Belt, Cleat, and Pipe Haul-Offs.
- Pipe Cutting Machines:** Traveling Planetary Saws, Traveling Cut-Off Saws, Servo Rotary Knife and Swarfless Cutters.
- Pipe Collection Machines:** Tilt Tables, Run-Off Tables, and Reel Coilers.
- Pipe Auxiliary Equipment:** Start-Up Winches.



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

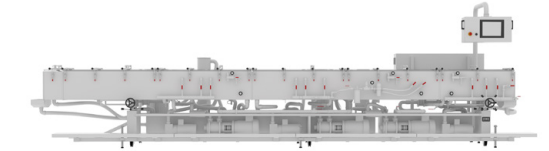


CDS' Pipe Cooling Machines are recognized for their Vacuum Sizing and Cooling Tanks, which cool and size a variety of pipes from 1" to 60" diameter, using vacuum, spray, or a combination of both.

### VACUUM SPRAY SIZING TANKS

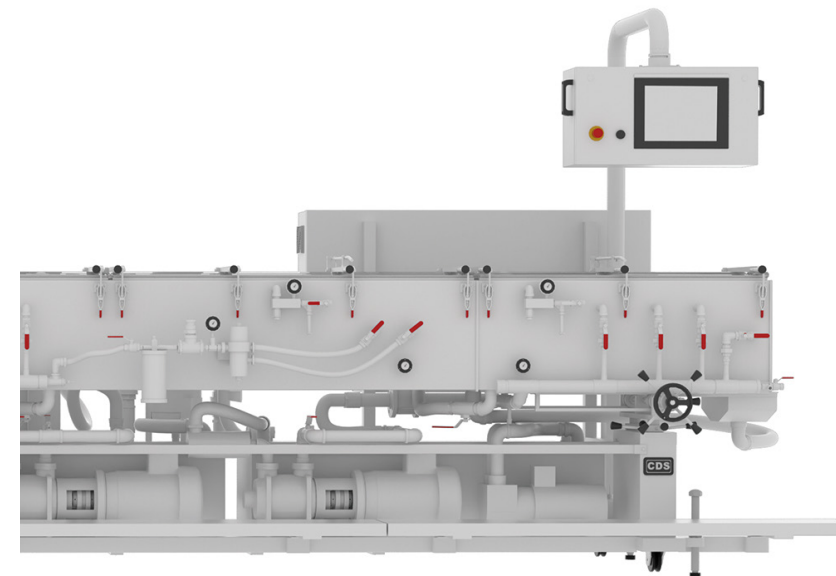
CVSS Series				
STANDARD FEATURES	CVSS8	CVSS10	CVSS12	CVSS14
Tank Cross Section	8" x 8"	10" x 10"	12" x 12"	14" x 14"
Tank Length	Up to 30'			
Pipe Capacity O.D.	1"	2"	3"	4"

\*CVSS: CDS Vacuum Spray Sizing Tank



### STANDARD SPECIFICATIONS

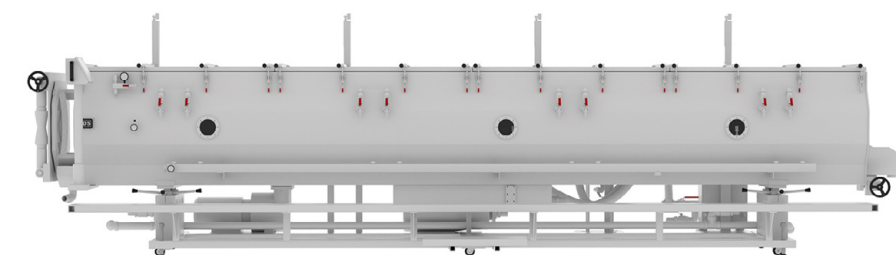
- Heavy-duty steel construction
- Stainless steel upper tanks, reservoirs, and spray bars to prevent corrosion and water contamination
- Stainless steel spray bars with quick-change spray nozzles
- Hinged safety clear-view lids (Not Applicable on Curtains Spray Cooling Tanks)
- Front or pendulum mounted operator panel
- Water level control
- Product support rollers
- Vacuum, spray and/or flood capabilities
- 3-axis movement for precise alignment with the extrusion line
- 1" to 60" Pipe/Tube diameters
- Line direction: Right-Left/Left-Right
- Value-added options that maximize cooling efficiency



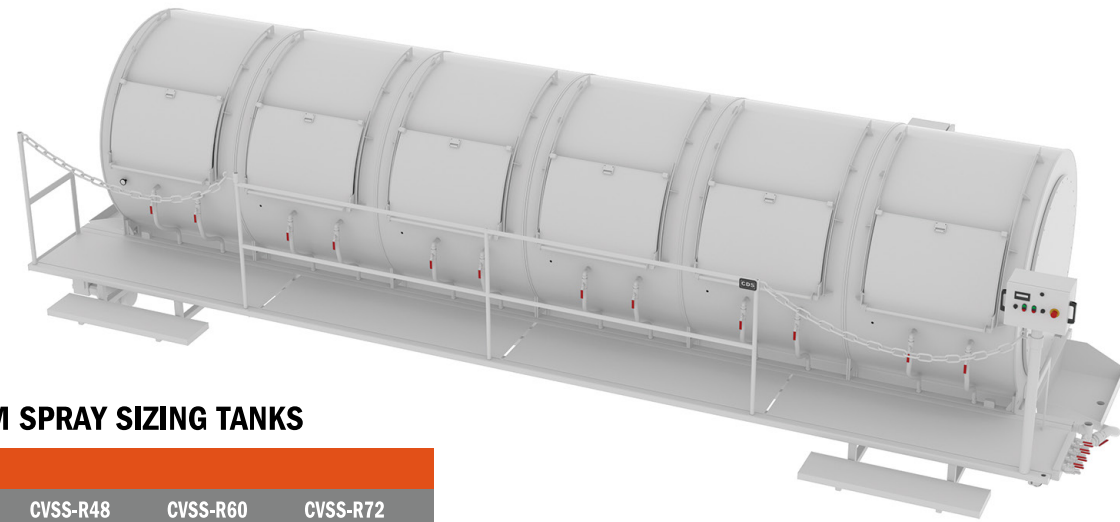
### DODECAGONAL VACUUM SPRAY SIZING TANKS

CVSSD Series						
STANDARD FEATURES	CVSSD16	CVSSD20	CVSSD24	CVSSD30	CVSSD36	CVSSD40
Tank Cross Section	16" x 16"	20" x 20"	24" x 24"	30" x 30"	36" x 36"	40" x 40"
Tank Length	Up to 30'					
Pipe Capacity O.D.	6"	10"	12"	18"	24"	30"

\*CVSSD: CDS Dodecagonal Vacuum Spray Sizing Tank



\*Sizing sleeves available

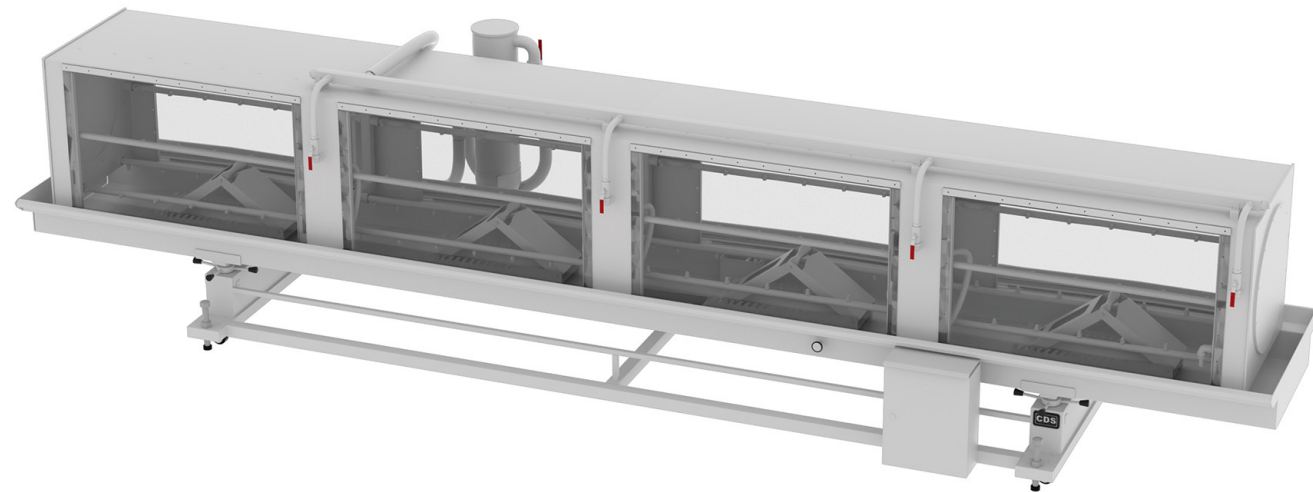


## ROUND VACUUM SPRAY SIZING TANKS

### CVSS-R Series

STANDARD FEATURES	CVSS-R48	CVSS-R60	CVSS-R72
Tank O.D.	48"	60"	72"
Tank Length	Up to 30'		
Pipe Capacity O.D.	36"	48"	60"

\*CVSS-R: CDS Round Vacuum Spray Sizing Tank



✓ Clear view curtains for easy access (\*CSTC)

## SPRAY AND CURTAINS SPRAY COOLING TANKS

### CST/CSTC Series

STANDARD FEATURES	CST8	CST10	CST12	CST14	CST18	CST20	CST24	CST36	CST40	CST48	CST60	CST72
Tank Cross Section	8" x 8"	10" x 10"	12" x 12"	14" x 14"	18" x 18"	20" x 20"	24" x 24"	36" x 36"	40" x 40"	48" x 48"	60" x 60"	72" x 72"
Tank Length	Up to 30'											
Pipe Capacity O.D.	1"	2"	3"	4"	6"	8"	12"	24"	30"	36"	48"	60"

\*CST: CDS Spray Cooling Tank

\*CSTC: CDS Curtains Spray Cooling Tank

## PIPE COOLING OPTIONS

- Dual or Quad configuration
- Different tank lengths
- Customizable vacuum and water manifolds (\*CVSS/\*CVSSD/\*CVSS-R)
- Air wipe or blower systems
- Vacuum pumps – Dry vacuum (\*\*) (\*CVSS/\*CVSSD/\*CVSS-R)
- Ultrasonic wall unit mounting
- Gas springs (locking lids)
- Stainless steel lids
- Catwalk with guarded rail
- Service step
- Entrance and/or exit horizontal and vertical adjustable guide rollers
- Water evacuation pumps (\*CVSS/\*CVSSD/\*CVSS-R)
- Motorized longitudinal tank movement: 2-speed forward, 1-speed reverse
- Contoured support rollers or saddles
- Adjustable product support rollers from outside of tank via hand wheel
- Ovality control roll assembly
- 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, integrated cooling, and loop control heating systems (\*\*)
- Temperature control
- Heavy-duty stainless steel support frame
- Insulation on tanks and/or all water components
- UV water purification system
- Touch screen controls (HMI)
- Programmable recipes
- 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
- UL-CSA-CE Certification

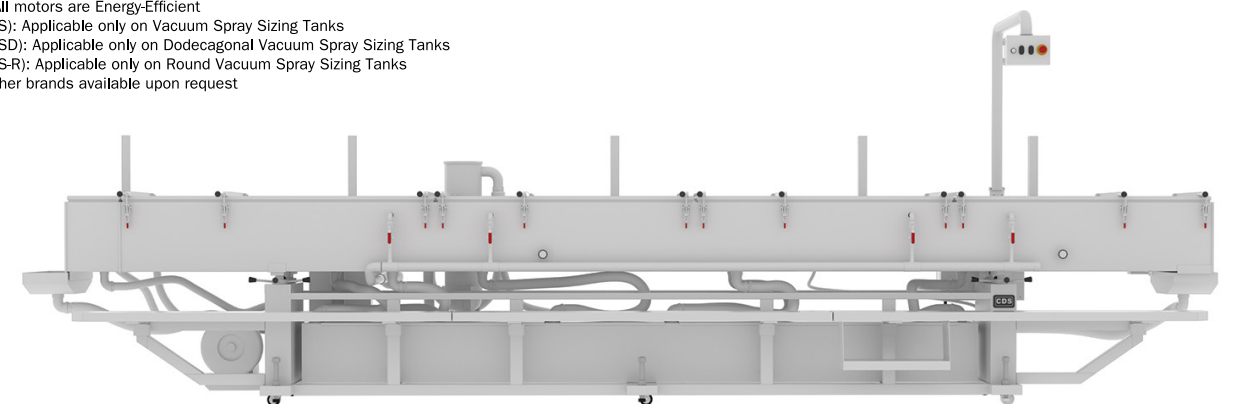
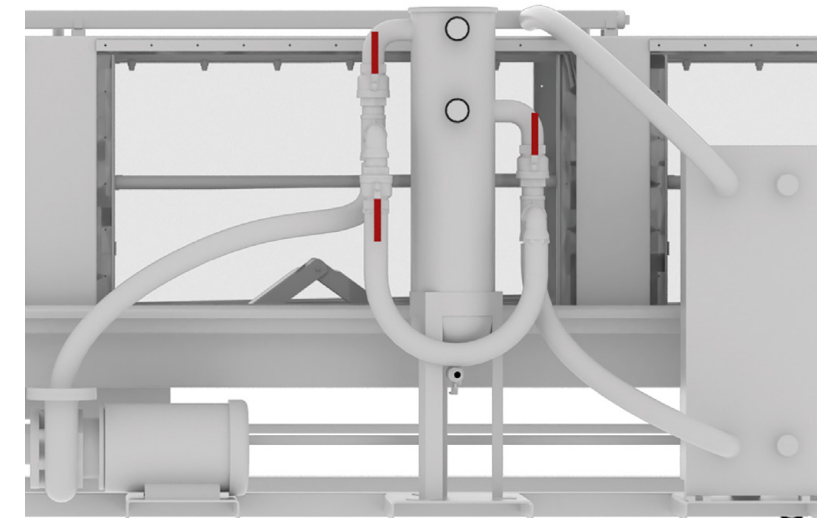
(\*\*): All motors are Energy-Efficient

(\*CVSS): Applicable only on Vacuum Spray Sizing Tanks

(\*CVSSD): Applicable only on Dodecagonal Vacuum Spray Sizing Tanks

(\*CVSS-R): Applicable only on Round Vacuum Spray Sizing Tanks

(\*): Other brands available upon request





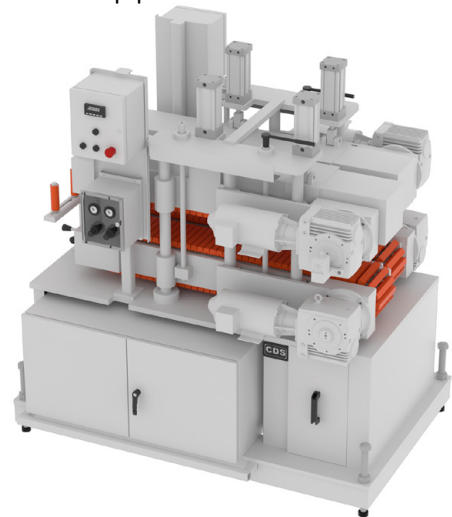
To accommodate the size and the unique processing requirements of extruded pipes, CDS offers its series of Pipe Pulling Machines, designed to provide steady, precise traction for pipes from 1" to 60" diameter of various materials and hardness ratings.

## STANDARD SPECIFICATIONS

- 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 pipe
- Full coverage safety enclosure
- Heavy-duty gearboxes steel construction
- Adjustable guide rollers
- Vector closed-loop electrical system with encoder feedback
- Safety doors for easy operator access
- Inline reducer(s)
- Line direction: Right-Left/Left-Right
- 0-10VDC, or 4-20 mA Line Integration

## CLEAT HAUL-OFFS

- ✓ Upper beam with pneumatic clamping control
- ✓ Manual lower beam height adjustment
- ✓ Chain drive system
- ✓ V-cleats for pipe



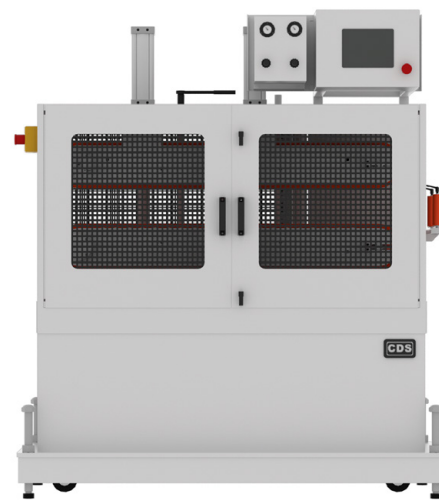
## BELT HAUL-OFFS

- ✓ DuraGrip covered belts
- ✓ Manual conveyor beam height adjustment
- ✓ Chain drive system

### CBH Series

STANDARD FEATURES	CBH25	CBH36	CBH40	CBH48	CBH60
Conveyor Length	25"	36"	40"	48"	60"
Conveyor Width	4", 6", 8", 10", 12"				
Max. Conveyor Opening	7"				

\*CBH: CDS Belt Haul-Off



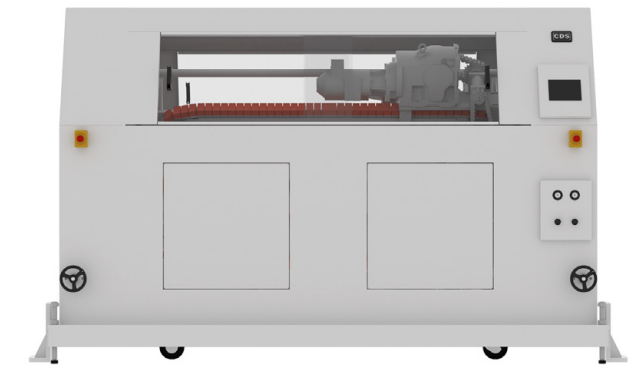
### CCH Series

STANDARD FEATURES	CCH36	CCH40	CCH48
Conveyor Length	36"	40"	48"
Cleat Width	3.5"	3.5"	3.5"
Pipe Capacity O.D.	¼" to 4"	¼" to 4"	¼" to 4"

\*CCH: CDS Cleat Haul-Off

## PIPE HAUL-OFFS

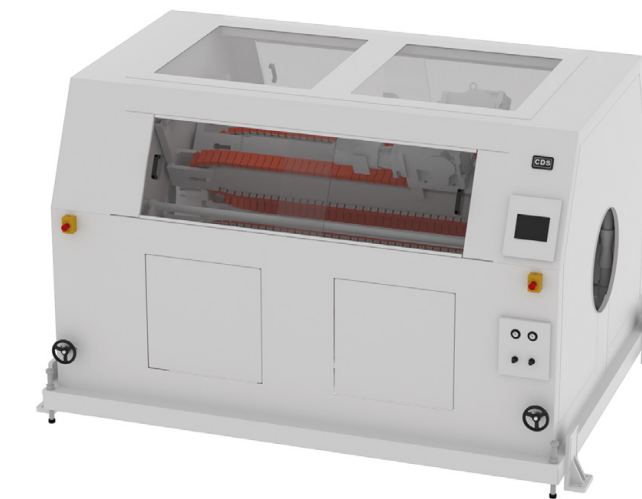
- ✓ Heavy-duty gearboxes and steel construction
- ✓ Pneumatic beam adjustment (top and sides)
- ✓ Bottom conveyor beam(s) with manual or motorized adjustment
- ✓ Direct drive system



### CPH Series

STANDARD FEATURES	CPH240	CPH260	CPH440	CPH460	CPH660	CPH872	CPH1072	CPH1084	CPH1284	CPH1484
Conveyor Length	40"	60"	40"	60"	60"	72"	72"	84"	84"	84"
Cleat Width	3.5"	3.5"	3.5"	3.5"	4"	4"	4"	4"	4"	4"
Conveyor Arms	2	2	4	4	6	8	10	10	12	14
Pipe Capacity O.D.	½" to 6"	½" to 6"	¼" to 6"	½" to 16"	6" to 24"	18" to 36"	20" to 40"	24" to 48"	30" to 54"	36" to 60"

\*CPH: CDS Pipe Haul-Off



## PIPE PULLING OPTIONS

- Dual configuration (\*CCH)
- Customizable belt and cleat configuration
- Different belt and cleat materials, thicknesses, colours, and durometers available
- Servo-motorized clamping control with touch screen controls (HMI)
- Upper beam with pneumatic clamping control (\*CBH)
- Pneumatic self-centering conveyor adjustment
- Manual self-centering conveyor height adjustment (\*CBH/\*CCH)
- Conveyor angle adjustment to prevent part distortion (\*CBH)
- Direct drive system with vector controls and motors (\*\*) (\*CBH/\*CCH)
- Direct drive system with servo controls, motors, and touch screen controls (HMI)(\*\*)
- Length or Footage counter
- Digital gap indicator
- Forklift slots on frame
- Wall thickness control system
- Central greasing system
- Remote control (wireless remote control available)
- Touch screen controls (HMI)
- Programmable recipes
- 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
- UL-CSA-CE Certification

(\*\*): All motors are Energy-Efficient  
 (\*CBH): Applicable only on Belt Haul-Offs  
 (\*CCH): Applicable only on Cleat Haul-Offs  
 (\*): Other brands available upon request



CDS' Pipe Cutting Machines are designed and manufactured with a sturdy construction for straight, clean cuts. They accurately cut pipes of various materials and diameters. The unit's blade cuts in synchronization with the extrusion line speed to achieve cut-to-length precision.

## STANDARD SPECIFICATIONS

- Fast, accurate cuts for a wide range of pipes from 1" to 60" diameter
- Servo models increase line speed and cutting accuracy, and provide consistent cutting
- Heavy-duty steel construction
- Line direction: Right-Left/Left-Right



## TRAVELING CUT-OFF SAWS

- ✓ Pneumatic or Servo table travel
- ✓ Fully guarded for maximum machine operator protection
- ✓ Cut length accuracy  $\pm .125$  inch (Pneumatic packages)
- ✓ Cut length accuracy  $\pm .015$  inch (Servo packages)
- ✓ V-shaped pipe clamps
- ✓ Brake for quick blade stop
- ✓ Integrated electronic length control with encoder (Servo packages)
- ✓ Touch screen controls (HMI) (Servo packages)
- ✓ Vacuum Dust/Chip collector (Servo packages)

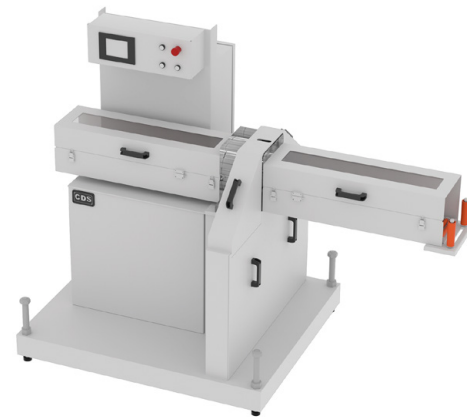
## CTS/CSS Series

STANDARD FEATURES	CTS3-3	CTS45-8	CTS65-13	CTS85-18	CTS11-24	CTS13-28
Pipe Cutting Window O.D.	3"	4.5"	6.5"	8.5"	11"	13"
Saw Blade Diameter	10"	14"	18"	24"	28"	33"

\*CTS: CDS Traveling Cut-Off Saw  
\*CSS: CDS Servo Precision Cut-Off Saw

## SERVO ROTARY KNIFE CUTTERS

- ✓ Fully guarded for maximum machine operator safety
- ✓ Cut length accuracy  $\pm .015$  inch
- ✓ Flywheel for added cutting torque
- ✓ Lock-down bushings
- ✓ Adjustable blade speed
- ✓ Blade-holder system driven by heavy-duty servo motor and drive
- ✓ Integrated electronic length control with encoder
- ✓ Touch screen controls (HMI)



## CSRK Series

STANDARD FEATURES	CSRK45	CSRK65
Pipe Cutting Capacity O.D.	4"	6"

\*CSRK: CDS Servo Rotary Knife Cutter  
\*Cutting capacity depends on wall thickness

## CTPSC/CTPS Series

STANDARD FEATURES	CTPSC3-12	CTPSC3-16	CTPSC6-18	CTPSC8-24	CTPSC10-36	CTPSC24-48
Pipe Capacity O.D.	3" to 12"	3" to 16"	6" to 18"	8" to 24"	10" to 36"	24" to 48"

\*CTPSC: CDS Traveling Planetary Swarfless Cutter  
\*CTPS: CDS Traveling Planetary Saw

## TRAVELING PLANETARY SAWS AND SWARFLESS CUTTERS

- ✓ Full coverage safety enclosure
- ✓ Pneumatically-assisted carriage travel
- ✓ V-shaped pipe clamps
- ✓ Free-driven toothless blades (Applicable only on Swarfless Cutters)
- ✓ Saw blade system driven by AC motor (Applicable only on Traveling Planetary Saws)
- ✓ Blade rotation system driven by heavy-duty motor and gearbox
- ✓ Integrated electronic length control with encoder
- ✓ Touch screen controls (HMI)



## PIPE CUTTING OPTIONS

- Dual configuration (\*CTS/\*CSS)
- Full coverage safety enclosure (\*CTS/\*CSS)
- Soundproofing (\*CTS/\*CSS)
- Vacuum Dust/Chip Collector (\*\*) (\*CTS/\*CTPS)
- Variable saw blade speed (\*CTS/\*CSS/\*CTPS)
- Motorized exit conveyors (\*CTPS/\*CTPSC)
- Electronic length control (\*CTS)
- Batch counter (\*CTS)
- Servo controlled vertical blade movement (\*CSS)
- Servo ball screw table travel (\*CSS/\*CTPS/\*CTPSC)
- Additional set of cutter bushings (\*CSRK)
- Stainless steel cutter bushings (\*CSRK)
- Quick-change cutter bushings (\*CSRK)
- Stainless steel cutter head (\*CSRK)
- Heated entrance tunnel (\*CSRK)
- Forklift slots on frame (\*CSRK/\*CTPS/\*CTPSC)
- Stop/Cut/Go mode (Capable of 2-3 cuts per second) (\*CSRK)
- 12" X-axis travel movement (\*CSRK)
- Chamfering kits (\*CTPS)
- Product support jig (\*CTS/\*CSS/\*CTPS)
- Blade lubrication system with mist or bottle and blade wipe (\*CSRK)
- Blade heating system (\*CSRK)
- Heated entrance tunnel (\*CSRK)
- Cut-length activating sensor
- Enhanced traveling length for high-velocity line (\*CSS)
- Central greasing system
- Blade lubrication device (\*CTS/\*CSS/\*CTPS/\*CTPSC)
- Touch screen controls (HMI) (\*CTS)
- Programmable recipes
- 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  
UL-CSA-CE Certification

(\*\*) All motors are Energy-Efficient  
(\*CTS): Applicable only on Traveling Cut-Off Saws  
(\*CSS): Applicable only on Servo Precision Cut-Off Saws  
(\*CTPS): Applicable only on Traveling Planetary Saws  
(\*CTPSC): Applicable only on Traveling Planetary Swarfless Cutters  
(\*CSRK): Applicable only on Servo Rotary Knife Cutters  
(\*): Other brands available upon request

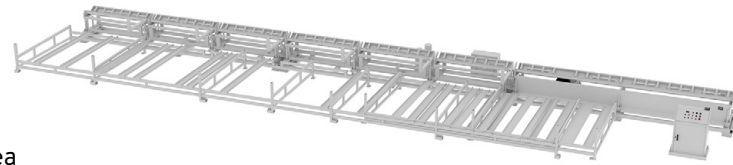
# Pipe Collection Machines



CDS offers pneumatically-activated Tilt Tables, Run-Off Tables, and Reel Coilers that safely collect a wide range of plastic extruded pipes from 1" to 60" diameter. Our rugged and reliable Pipe Collection Machines can quickly load material into a bundling rack or bin for easy pickup.

## PIPE TILT TABLES

- ✓ V-shaped table
- ✓ Heavy-duty steel construction
- ✓ Transfer pipes quickly to a collection area
- ✓ Tilt action control
- ✓ Line direction: Right-Left/Left-Right



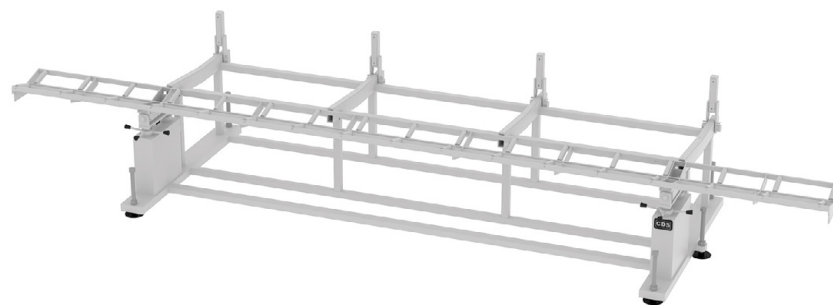
### CTP Series

STANDARD FEATURES	CTP6	CTP8	CTP12
Table Length		Up to 24'	
Pipe Capacity O.D	Up to 6"	Up to 8"	Up to 12"

\*CTP: CDS Pipe Tilt Table

## PIPE RUN-OFF TABLES

- ✓ Fixed V-shaped table
- ✓ Heavy-duty steel construction
- ✓ Run-out rack with rollers
- ✓ Manual push-off
- ✓ Adjustable deflector plate
- ✓ Sorting area
- ✓ Customizable roller orientation and collection area
- ✓ Line direction: Right-Left/Left-Right



### CRTP Series

STANDARD FEATURES	CRTP12	CRTP24	CRTP48	CRTP60
Table Length		Up to 24'		
Pipe Capacity O.D	Up to 12"	Up to 24"	Up to 48"	Up to 60"

\*CRTP: CDS Pipe Run-off Table



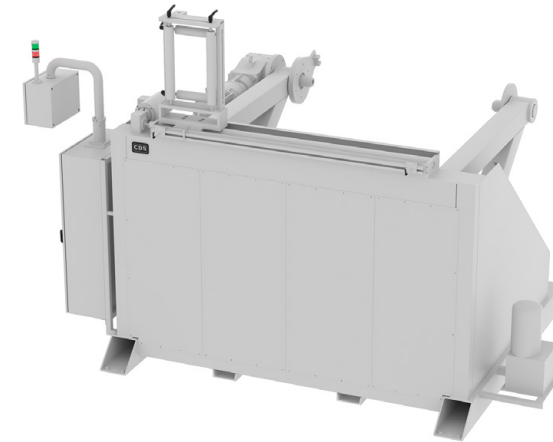
# Pipe Collection Machines

## REEL COILERS

- ✓ Heavy-duty steel construction
- ✓ Spool driven by heavy-duty gearbox
- ✓ Reels lifted mechanically
- ✓ Touch screen controls (HMI)
- ✓ Programmable recipes
- ✓ Line direction: Right-Left/Left-Right

\*CRC: CDS Reel Coiler

**Note:** Different Reel Coiler configurations available upon request



## PIPE COLLECTION OPTIONS

Dual configuration (\*CTP)

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

Pipe cart (\*CTP)

Customizable table width and bin type (\*CTP)

Customizable roller orientation and collection area (\*CRTP)

Customizable receiving area for different reel widths and diameters (\*CRC)

Oscillation movement (\*CRC)

Automatic traverse system (\*CRC)

Foot pedal activation (\*CRC)

Fixed or Collapsible core (\*CRC)

Loop control (electronic or mechanical) (\*CRC)

Central greasing system (\*CRC)

Forklift slots on frame (\*CRC)

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

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

Electrics: 120 / 1PH / 60 Hz, 220 / 1 PH / 50 Hz (\*CTP/\*CRTP)

Electrics: 230-460-575VAC / 3PH / 60 Hz, 380-400VAC / 3PH / 50 Hz (\*CRC)

UL-CSA-CE Certification

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

(\*CTP): Applicable only on Pipe Tilt Tables

(\*CRTP): Applicable only on Pipe Run-Off Tables

(\*CRC): Applicable only on Reel Coilers

(\*): Other brands available upon request

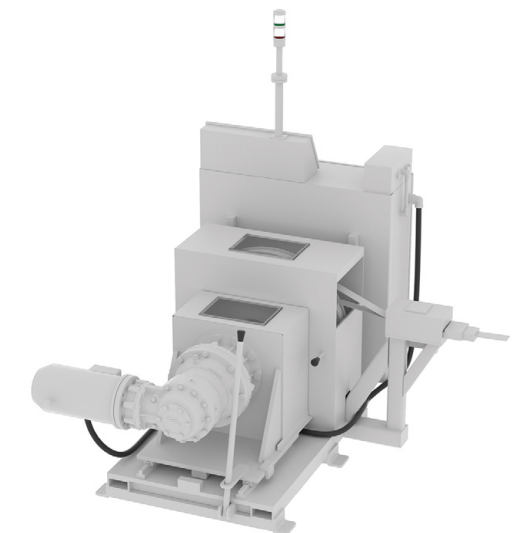


# Pipe Auxiliary Equipment

## START-UP WINCHES

- ✓ Heavy-duty steel construction
- ✓ Safety shear pin for gearbox protection
- ✓ Direct drive system
- ✓ Pull force up to 10,000 lbs
- ✓ Integrated device to prevent winch strap from twisting
- ✓ Locking device for winch drum
- ✓ Line direction: Right-Left/Left-Right

\*CWCP: CDS Haul-Off Winch



# PIPES



## Pipe downstream extrusion machinery for:

- ✓ Water pipes
- ✓ Drinking water pipes
- ✓ Sewage and drainage pipes
- ✓ Electrical conduits
- ✓ Gas pipes
- ✓ PEX pipes
- ✓ Irrigation tubes
- ✓ Cable ducts

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CUSTOM DOWNSTREAM SYSTEMS