



CUSTOM DOWNSTREAM SYSTEMS

PIPE

DOWNSTREAM
EXTRUSION
MACHINERY



In Line
With Your Future



CUSTOM DOWNSTREAM SYSTEMS

PIPE

DOWNSTREAM EXTRUSION MACHINERY

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** to **Swarfless Cutting**, and **Line Automation**.

MACHINERY

CDS manufactures Pipe Downstream Extrusion Machinery in the following categories:

1. Pipe Cooling Machines:

Vacuum Spray Sizing Tanks, and Spray Cooling Tanks.

2. Pipe Pulling Machines:

Belt, Cleat, and Pipe Haul-Offs.

3. Pipe Cutting Machines:

Planetary Saws, Traveling Cut-Off Saws, Rotary Knife and Swarfless Cutters.

4. Pipe Collection Machines:

Tilt Tables, Run-Off Tables, and Automatic Coil Winders.



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



PIPE COOLING MACHINES

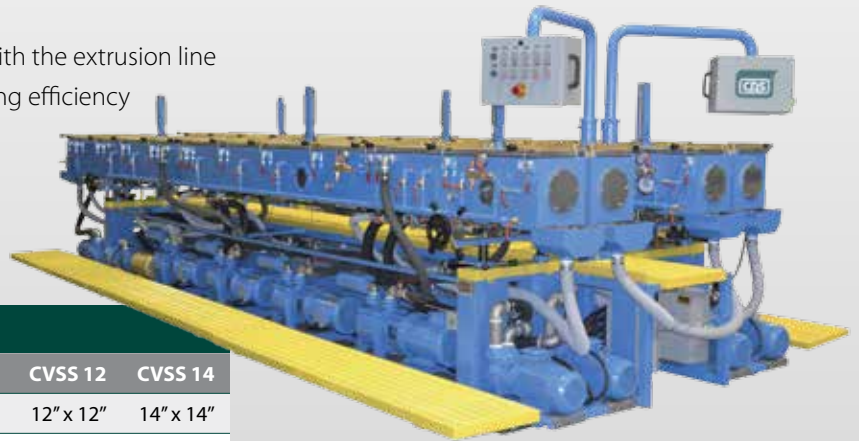
CDS' Pipe Cooling Machines are recognized for their Vacuum Sizing and Cooling Tanks, which cool and size a variety of pipes from 1" to 60" diameter, using vacuum, spray, or a combination of both.

- Cools and sizes a variety of pipes
- Upper tanks, reservoirs, and spray bars made of stainless steel to prevent corrosion and water contamination
- 3-axis movement for precise alignment with the extrusion line
- Value-added options that maximize cooling efficiency

VACUUM SPRAY SIZING TANKS

CVSS Series				
STANDARD FEATURES	CVSS 8	CVSS 10	CVSS 12	CVSS 14
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



CVSS12-20D

DODECAGONAL VACUUM SPRAY SIZING TANKS

CVSSD Series						
STANDARD FEATURES	CVSSD 16	CVSSD 20	CVSSD 24	CVSSD 30	CVSSD 36	CVSSD 40
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



CVSSD40-25



*Sizing sleeves available



Pipe die with pins and bushings
*Pipe sleeves available



CVSSD34-20



PIPE COOLING MACHINES

ROUND VACUUM SPRAY SIZING TANKS



CVSS40R-20L

CVSS-R Series

STANDARD FEATURES	CVSS-R 48	CVSS-R 60	CVSS-R 72
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



CSTC16-20

SPRAY AND CURTAINS SPRAY COOLING TANKS

CST / CSTC Series

STANDARD FEATURES	CST 8	CST 10	CST 12	CST 14	CST 18	CST 20	CST 24	CST 36	CST 40	CST 48	CST 60	CST 72
Tank Cross Section	8'x8'	10'x10'	12'x12'	14'x14'	18'x18'	20'x20'	24'x24'	36'x36'	40'x40'	48'x48'	60'x60'	72'x72'
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 MACHINES

PIPE COOLING OPTIONS

- Line direction: Right-Left / Left-Right
- Dual or Quad configuration
- Different tank lengths
- Air wipe systems
- Gas springs (locking lids)
- Stainless steel lids
- Catwalk with guarded rail
- Plate and Frame / Shell and Tube heat exchangers
- Differential pressure and temperature gauges
- Dual or single stainless steel basket filter with bypass system
- Customizable vacuum and water manifolds
- Water recirculation systems (**)
- Integrated cooling systems (**)
- Loop control heating systems
- Temperature control
- Heavy-duty stainless steel support frame
- Water evacuation pumps (**)
- Motorized longitudinal tank movement: 2-speed forward, 1-speed reverse
- Contoured support rollers or saddles
- Motorized product support rollers
- Tank insulation
- Ovality control roll assembly
- Touch screen controls (HMI)
- Allen-Bradley, Omron, 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



CVSS48R-30L



CSTC16-30



PIPE PULLING MACHINES

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 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 pipe
- Available in different sizes and configurations
- 0-10VDC, or 4-20 mA Line Integration

STANDARD SPECIFICATIONS:

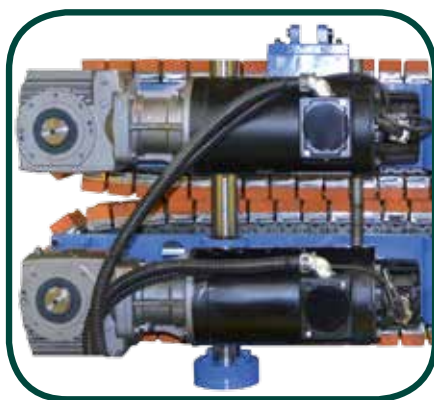
- Full coverage safety enclosure
- Heavy-duty steel construction
- Adjustable guide rollers
- Vector closed-loop electrical system with encoder feedback
- Inline reducer(s)
- Line direction: Right-Left / Left-Right

CLEAT HAUL-OFFS

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



CCH40-4VQD



CCH40-4VQD

CCH Series

STANDARD FEATURES	CCH36	CCH 40	CCH 48
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 **PULLING** MACHINES

PIPE HAUL-OFFS

- Bottom conveyor beam(s) with manual or motorized adjustment
- Pneumatic beam adjustment (top and sides)
- Direct drive system



CPHV460-10

CPH Series

STANDARD FEATURES	CPH 240	CPH 260	CPH 440	CPH 460	CPH 660	CPH 872	CPH 1072	CPH 1084	CPH 1284	CPH 1484
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 cleat configuration
- Manual self-centering conveyor height adjustment (*CCH)
- Servo-motorized clamping control with touch screen controls (HMI)
- Remote control
- Direct drive system with vector controls and motors (*CCH) (**)
- Direct drive system with servo controls, motors, and touch screen (**)
- Length or Footage counter
- Wall thickness controller system
- Central greasing system
- Touch screen controls (HMI)
- Allen-Bradley, Omron, Siemens packages available (*)
- Line Integration: Hard-wired interconnection (analog microprocessor interface, speed signal to measuring device, encoder I/O), Ethernet/IP available
- Electrics: 230-460-575V AC / 3PH / 60 Hz, 380-400V AC / 3PH / 50 Hz

(**): All motors are Energy-Efficient

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

(*): Other brands available upon request

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



CPHV460-10



CPHV660-6



PIPE CUTTING MACHINES

CDS' Pipe Cutting Machines are designed and manufactured to 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.

- 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
- Sturdy construction for straight, clean cuts

TRAVELING CUT-OFF SAWS

- Heavy-duty steel construction
- Pneumatic or Servo table travel
- Fully guarded for maximum machine operator protection
- Cut length accuracy $\pm .015$ inch (Servo packages)
- V-shaped pipe clamps
- Brake motor for quick blade stop
- Integrated electronic length control with encoder (Servo packages)
- Touch screen controls (HMI) (Servo packages)
- Vacuum Dust/Chip collector (Servo packages)
- Line direction: Right-Left / Left-Right



CTS65-13

CTS / CSS Series

STANDARD FEATURES	CTS 3-3	CTS 45-8	CTS 65-13	CTS 85-18	CTS 11-24	CTS 13-28
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

- Heavy-duty steel construction
- Fully guarded for maximum machine operator safety
- Cut length accuracy $\pm .015$ inch
- Flywheel for added cutting torque (Applicable only on Rotary Knife Cutters)
- 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)
- Line direction: Right-Left / Left-Right



CSRK45L

CSRK Series

STANDARD FEATURES	CSRK 45	CSRK 65
Pipe Cutting Capacity O.D.	4"	6"

*CSRK: CDS Servo Rotary Knife Cutter

*Cutting capacity depends on wall thickness



PIPE CUTTING MACHINES

TRAVELING PLANETARY SAWS AND SWARFLESS CUTTERS

- Full coverage safety enclosure
- Heavy-duty steel construction
- Pneumatically-assisted carriage travel
- V-shaped pipe clamps
- Integrated electronic length control with encoder
- Touch screen controls (HMI)
- Line direction: Right-Left / Left-Right



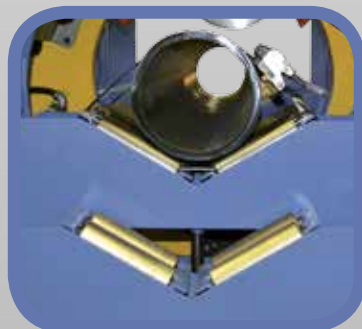
CTPSC2-24

CTPSC / CTPS Series

STANDARD FEATURES	CTPSC 3-12	CTPSC 3-16	CTPSC 6-18	CTPSC 8-24	CTPSC 10-36	CTPSC 24-48
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



PIPE CUTTING OPTIONS

Full coverage safety enclosure (*CTS/*CSS)
Soundproofing (*CTS/*CSS)
Dual configuration (*CTS/*CSS)
Vacuum Dust/Chip Collector (*CTS/*CSS/*CTPS) (**)
Variable saw blade speed (*CTS/*CSS/*CTPS)
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)
12" X-axis travel movement (*CSRK)
Programmable recipes
Chamfering kits (*CTPS)
Blade lubrication system with mist or bottle and blade wipe
Blade heating system (*CSRK)
Heated entrance tunnel (*CSRK)
Cut-length activating sensor
Enhanced traveling length for high-velocity line (*CSS)
Central greasing system
Touch screen controls (HMI) (*CTS)
Allen Bradley, Omron, 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

(*CTPS): Applicable only on Traveling Planetary Saw

(*CTPSC): Applicable only on Traveling Planetary Swarfless Cutter

(*CSRK): Applicable only on Servo Rotary Knife Cutter

(*): Other brands available upon request

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



PIPE COLLECTION MACHINES

CDS offers pneumatically-activated Tilt Tables, Run-Off Tables, and Automatic Coil Winders 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.



CTTP8-50

PIPE TILT TABLES

- Heavy-duty steel construction
- Transfer pipes quickly to a collection area
- V-shaped table
- Tilt action control

CTTP Series

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

*CTTP: CDS Pipe Tilt Table

PIPE RUN-OFF TABLES

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



CRTP24-20

CRTP Series

STANDARD FEATURES	CRTP 12	CRTP 24	CRTP 48	CRTP 60
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

AUTOMATIC COIL WINDERS

- Heavy-duty steel construction
- Adjustable inner coil diameter
- Take-up speed automatically synchronizes with line speed to maintain line tension

CAW Series		
STANDARD FEATURES	CAW 1	CAW 2
Maximum Spool Diameter	54"	22"
Spool Width	24"	12"
Number of Spools	1	2

*CAW: CDS Automatic Coil Winder



CAW1

PIPE COLLECTION OPTIONS

Line direction: Right-Left / Left-Right

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

Customizable table width and bin type (*CTTP)

Customizable roller orientation and collection area (*CRTP)

Oscillation movement (*CAW)

Automatic traverse system (*CAW)

Foot pedal activation (*CAW)

Fixed or Collapsible core (*CAW)

Central greasing system (*CAW)

Programmable recipes (*CAW)

Touch screen controls (HMI) (*CAW)

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

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

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

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

(**): All motors are Energy-Efficient

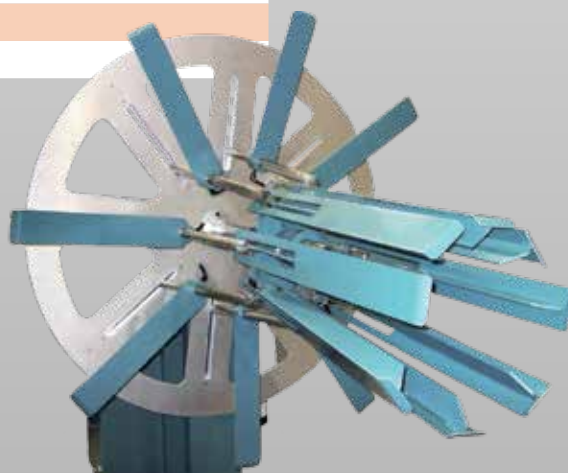
(*CTTP): Applicable only on Pipe Tilt Table

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

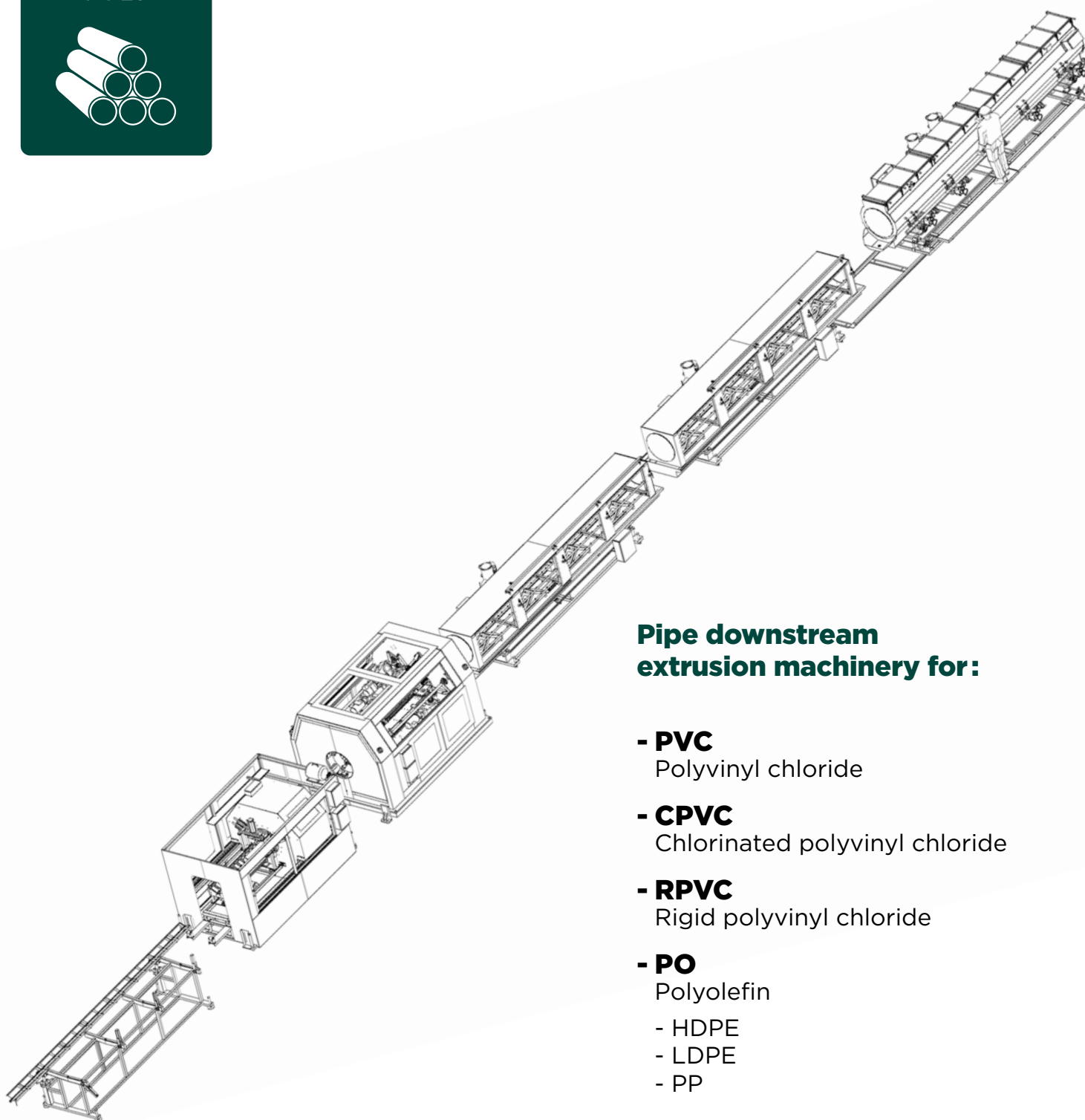
(*CAW): Applicable only on Automatic Coil Winder

(*): Other brands available upon request

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



PIPES



Pipe downstream extrusion machinery for:

- **PVC**
Polyvinyl chloride
- **CPVC**
Chlorinated polyvinyl chloride
- **RPVC**
Rigid polyvinyl chloride
- **PO**
Polyolefin
 - HDPE
 - LDPE
 - PP



CUSTOM DOWNSTREAM SYSTEMS

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