



CUSTOM DOWNSTREAM SYSTEMS

RUBBER

DOWNSTREAM
EXTRUSION
MACHINERY



*In Line
With Your Future*



CUSTOM DOWNSTREAM SYSTEMS

RUBBER

DOWNSTREAM EXTRUSION MACHINERY

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

CDS' Rubber Downstream Extrusion Machinery will exceed your expectations, as our engineered solutions are endless. Our machinery can process **flexible**, **semi-flexible**, and **reinforced rubber profiles** or **tubes**.

TECHNOLOGY

Customization, flexibility, and innovative technology highlight CDS' strengths in the rubber extrusion industry for a wide range of applications, from **Multi-Pass** and **U-Shaped Cooling Tanks** to **Pre-Heaters, Panning Systems**, and **Line Automation**.

MACHINERY

CDS manufactures Rubber Downstream Extrusion Machinery in the following categories:

1. Rubber Cooling Machines:

Cooling Tanks and Multi-Pass Drum Coolers.

2. Rubber Pulling Machines:

Belt Haul-Offs and Horizontal Belt Haul-Offs.

3. Rubber Cutting Machines:

Servo Fly-Knife, Servo Rotary Knife, and Traveling Guillotine Cutters.

4. Rubber Combination Units:

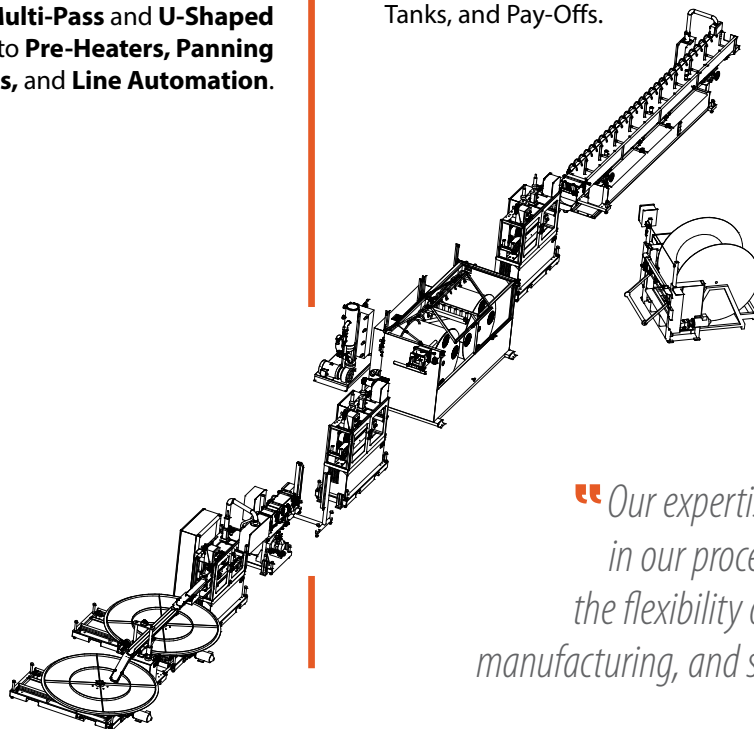
Belt Haul-Off / Servo Fly-Knife or Servo Rotary Knife Cutter, and Belt Haul-Off / Chop Saw.

5. Rubber Collection Machines:

Takeaway Conveyors, Automatic Coil Winders, and Panners.

6. Rubber Auxiliary Machines:

Pre-Heaters, Strip Feeders, Ultrasonic Loop Controls, Lube Tanks, and Pay-Offs.



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



RUBBER COOLING MACHINES

CDS' Rubber Cooling Machines are recognized for their customized tanks and drum coolers, which provide a flexible platform for cooling different types of flexible to semi-flexible and reinforced rubber profiles and tubes.

TANKS

CDS' Cooling Tanks can be equipped with a closed-loop water recirculation system that minimizes water consumption accompanied by stainless steel components to prevent corrosion and water contamination.

Value-added options can be incorporated to maximize cooling efficiency and production output.

STANDARD SPECIFICATIONS:

- Stainless steel upper tanks, reservoirs, and spray bars
- Heavy-duty steel construction
- Precision tank movement
- Line direction: Right-Left / Left-Right

WATER COOLING TANKS

- Open upper tank for easy start-up
- Water level control
- Water turbulence bars
- Product support rollers

*CWT: CDS Water Cooling Tank

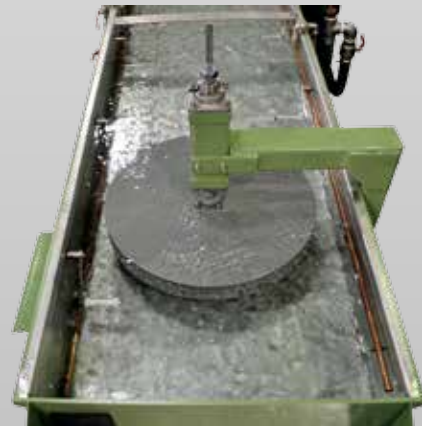
CWT12-40



MULTI-PASS WATER COOLING TANKS

- Spray and/or flood capabilities
- Water level control
- Driven/non-driven sheave(s)
- Variable speed control system

*CWTM: CDS Multi-Pass Water Cooling Tank



CWTM12-32-20

SPRAY AND CONVEYORIZED SPRAY COOLING TANKS

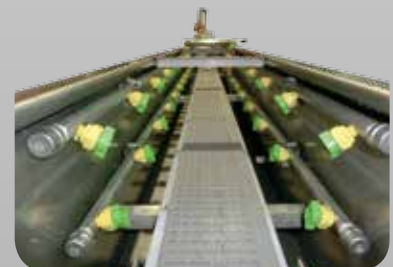
- Stainless steel spray bars with nozzles
- Hinged clear-view lids
- Stainless steel or plastic conveyor system (Applicable only on Conveyorized Tanks)
- Variable speed control system (Applicable only on Conveyorized Tanks)

*CST: CDS Spray Cooling Tank

*CCST: CDS Conveyorized Spray Cooling Tank



CST12-16



CCST14-14L



RUBBER **COOLING** MACHINES

U-SHAPED WATER COOLING TANKS

- U-shaped configuration
- Water level control
- Water turbulence bars
- Product support rollers
- Driven/non-driven stainless steel wheel

*CUWT: CDS U-Shaped Water Cooling Tank



CUWT14-9-10



CUWT8-84L

MULTI-PASS DRUM COOLERS

CDS' Drum Coolers are designed with a small footprint, in a variety of widths and lengths to match specific cooling needs and provide optimal cooling solutions.

STANDARD SPECIFICATIONS:

- Heavy-duty steel construction
- Stainless steel driven/non-driven drums
- Variable speed control system
- Guide roller system for product tracking
- Vertical or horizontal orientation
- Line direction: Right-Left / Left-Right

*CMDC: CDS Vertical Multi-Pass Drum Cooler

*CHMDC: CDS Horizontal Multi-Pass Drum Cooler

VERTICAL DRUM COOLERS



CMDC2-60



RUBBER COOLING MACHINES

HORIZONTAL DRUM COOLERS

RUBBER COOLING OPTIONS

- Different tank lengths
- Different drum widths and diameters
- Air wipe systems
- Service step
- Vector or Servo control systems
- Entrance and/or exit horizontal and vertical adjustable guide rollers
- 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
- Motorized longitudinal tank movement
- Tank insulation
- 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

(*): Other brands available upon request

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



CHMDC38-40



CHMDC5-12



RUBBER PULLING MACHINES

To accommodate the size and the unique processing requirements of extruded rubber profiles and tubes, CDS offers its series of Rubber Pulling Machines, designed to provide steady and precise traction.

- Consistent pulling speed and torque
- Safe and easy to operate with minimal maintenance requirements
- Conveyor belts that maximize traction while minimizing the distortion of the extruded rubber profile or tube
- 0-10VDC, or 4-20 mA Line Integration

STANDARD SPECIFICATIONS:

- Full coverage safety enclosure
- Heavy-duty steel construction
- Entrance horizontal and vertical adjustable guide rollers
- Both belts driven
- DuraGrip covered belts
- Inline reducer(s)
- Line direction: Right-Left / Left-Right

BELT HAUL-OFFS

- Manual self-centering conveyor adjustment
(Series 9.5 to 18)
- Manual conveyor beam height adjustment
(Series 25 to 60)
- Timing belt drive system with servo controls
(Series 9.5 to 11)
- Timing belt drive system with vector controls
(Series 16 to 18)
- Chain drive system with vector controls
(Series 25 to 60)



CBH36-4VL

CBH Series									
STANDARD FEATURES	CBH 9.5	CBH 11	CBH 16	CBH 18	CBH 25	CBH 36	CBH 40	CBH 48	CBH 60
Conveyor Length	9.5"	11"	16"	18"	25"	36"	40"	48"	60"
Conveyor Width	2", 3", 4"				4", 6", 8", 10", 12"				
Max. Conveyor Opening	3"				7"				

*CBH: CDS Belt Haul-Off



RUBBER **PULLING** MACHINES

HORIZONTAL BELT HAUL-OFFS

- Self-centering beam adjustment
- Chain drive system with vector controls

CBH-H Series				
STANDARD FEATURES	CBH 25H	CBH 36H	CBH 40H	CBH 48H
Conveyor Length	25"	36"	40"	48"
Conveyor Width:	4", 6", and 8"			
Max. Conveyor Opening	7"			

*CBH-H: CDS Horizontal Belt Haul-Off



CHB60-6HS

RUBBER PULLING OPTIONS

Customizable belt configuration
High temperature belt material
Servo-motorized clamping control with touch screen controls (HMI) (Applicable only on *CBH Series 25 to 60)
Upper beam with pneumatic clamping control
Pneumatic self-centering beam adjustment
Direct drive system with vector controls and motors (**)
Direct drive system with servo controls and motors (**)
Horizontal and vertical adjustable guide rollers
Length or Footage counter
Digital belt gap indicator
Forklift slots on frame
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

(*): Other brands available upon request

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



CHB60-6HS



RUBBER CUTTING MACHINES

CDS' Rubber Cutting Machines are designed and manufactured to accurately cut rubber profiles or tubes. 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 customized rubber profiles and tubes
- Servo models increase line speed and cutting accuracy, and provide consistent cutting
- Sturdy construction for straight, clean cuts

STANDARD SPECIFICATIONS:

- 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



CSFK45

SERVO FLY-KNIFE CUTTERS

CSFK Series

STANDARD FEATURES	CSFK 25	CSFK 35	CSFK 45	CSFK 65
Rubber Cutting Window O.D.	2.25"	36"	40"	48"
Bushing O.D.	2.5"	3.5"	4.5"	6.5"
X-axis Travel Movement	12"			

*CSFK: CDS Servo Fly-Knife Cutter



CSRK45L

SERVO ROTARY KNIFE CUTTERS

CSRK Series

STANDARD FEATURES	CSRK 45	CSRK 65
Rubber Cutting Window O.D.	4.25"	6.25"
Bushing O.D.	4.5"	6.5"

*CSRK: CDS Servo Rotary Knife Cutter



RUBBER **CUTTING** MACHINES

TRAVELING GUILLOTINE CUTTERS

- Full coverage safety enclosure
- Heavy-duty steel construction
- Pneumatically activated guillotine cutter
- Table travel on precision-aligned rails
- Line direction: Right-Left / Left-Right

CGCP / CGCPS Series

STANDARD FEATURES	CGCP 8	CGCP 13
Rubber Cutting Window (Widest)	8"	13"
Rubber Cutting Window (Highest)	3"	6"

*CGCP: CDS Pneumatic Guillotine Cutter/Punch

*CGCPS: CDS Servo Guillotine Cutter/Punch



RUBBER CUTTING OPTIONS

Servo ball screw table travel (*CGCPS)
Electronic length control (*CGCP)
Length or Footage counter
Additional set of cutter bushings (*CSFK/*CSRK)
Stainless steel cutter bushings (*CSFK/*CSRK)
Quick-change cutter bushings (*CSFK/*CSRK)
Stainless steel cutter head (*CSFK/*CSRK)
High-torque planetary gearbox (*CSFK)
12" X-axis travel movement (*CSRK)
Programmable recipes (*CSFK/*CSRK/*CGCPS)
Blade lubrication system with mist or bottle and blade wipe (*CSFK/*CSRK)
Blade heating system (*CSFK/*CSRK)
Heated entrance tunnel (*CSFK / *CSRK)
Cut-length activating sensor
Extended table travel for high speed (*CGCPS)
Central greasing system (*CGCP/*CGCPS)
Touch screen controls (HMI) (*CGCP)
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

(*CGCP): Applicable only on Pneumatic Guillotine Cutter/Punch

(*CGCPS): Applicable only on Servo Guillotine Cutter/Punch

(*CSFK): Applicable only on Servo Fly-Knife Cutter

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

(*): Other brands available on request

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



CGCPS4-12



RUBBER COMBINATION UNITS

CDS' Rubber Combination Units are recognized for their compact designs that reduce their footprint while meeting high pull forces and precise cutting capabilities. CDS can customize a combination system for any rubber application.

STANDARD SPECIFICATIONS:

- Heavy-duty steel common base construction
- Fully enclosed for operator safety
- Cut length accuracy $\pm .015$ inch
- 12" X-axis travel movement
- Touch screen controls (HMI)
- Both belts driven
- Vector closed-loop electrical system with encoder feedback
- Top and bottom beam height adjustment
- Integrated electronic length control with encoder
- 0-10VDC, or 4-20 mA Line Integration
- Line direction: Right-Left / Left-Right



CCBVSK4H-35

BELT HAUL-OFF / SERVO FLY-KNIFE CUTTER

CCBVSK / CCBVSK-H Series

STANDARD FEATURES	CCBVSK 4-25	CCBVSK 4-35	CCBVSK 4-45	CCBVSK 6-35	CCBVSK 6-45
Conveyor Length	25", 36", and 40"				
Conveyor Width	4"	4"	4"	6"	6"
Cutting Capacity O.D.	2.25"	3.25"	4.25"	3.25"	4.25"

*CCBVSK: CDS Combination Vector Belt Haul-Off / Servo Fly-Knife Cutter

*CCBSSK: CDS Combination Servo Belt Haul-Off / Servo Fly-Knife Cutter

BELT HAUL-OFF / SERVO ROTARY KNIFE CUTTER

CCBVSRK / CCBVSRK-H Series

STANDARD FEATURES	CCBVSRK 4-25	CCBVSRK 4-35	CCBVSRK 4-45	CCBVSRK 6-35	CCBVSRK 6-45
Conveyor Length	25", 36", and 40"				
Conveyor Width	4"	4"	4"	6"	6"
Cutting Capacity O.D.	2.25"	3.25"	4.25"	3.25"	4.25"

*CCBVSRK: CDS Combination Vector Belt Haul-Off / Servo Rotary Knife Cutter

*CCBSSRK: CDS Combination Servo Belt Haul-Off / Servo Rotary Knife Cutter



CCBVSRK4-45



RUBBER COMBINATION UNITS

BELT HAUL-OFF / CHOP SAW

- Upper and lower beam with manual height adjustment
- Inline reducer(s)
- Downward blade cutting
- Blade driven by AC motor

CCBVCS / CCBSCS Series

STANDARD FEATURES	CCBVCS 25-10	CCBVCS 36-14
Conveyor Length	25"	36"
Cutting Capacity O.D.	3"	4.5"

*CCBVCS: CDS Combination Vector Belt Haul-Off / Chop Saw

*CCBSCS: CDS Combination Servo Belt Haul-Off / Chop Saw



CCBVCS25-10

RUBBER COMBINATION UNIT OPTIONS

Customizable belt configuration

High temperature belt material

Horizontal belt configuration (Not applicable on *CCBVCS/*CCBSCS Series)

Upper beam with pneumatic clamping control (Not applicable on Horizontal Combination Series)

Servo-motorized clamping control (Not applicable on Horizontal Combination Series)

Pneumatic self-centering beam adjustment (Not applicable on *CCBVCS/*CCBSCS Series)

Timing belt drive system

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

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

Digital belt gap indicator

High temperature belt material

Additional set of cutter bushings (Not applicable on *CCBVCS/*CCBSCS Series)

Stainless steel cutter bushings (Not applicable on *CCBVCS/*CCBSCS Series)

Quick-change cutter bushings (Not applicable on *CCBVCS/*CCBSCS Series)

Stainless steel cutter head (Not applicable on *CCBVCS/*CCBSCS Series)

High-torque planetary gearbox (Applicable only on Servo Fly-Knife Cutter Combination Series)

Blade lubrication system with mist or bottle and blade wipe

Blade heating system (Not applicable on *CCBVCS/*CCBSCS Series)

Cut-length activating sensor

Adjustable blade speed (*CCBVCS/*CCBSCS)

Vacuum Dust/Chip Collector (*CCBVCS/*CCBSCS)

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

Horizontal Combination Series: CCBVSK-H, CCBSSK-H, CCBSSRK-H, and CCBVSRK-H
Servo Fly-Knife Cutter Combination Series: CCBVSK, CCBVSK-H, CCBSSK, CCBSSK-H

(*CCBVCS): Applicable only on Combination Vector Belt Haul-Off / Chop Saw

(*CCBSCS): Applicable only on Combination Servo Belt Haul-Off / Chop Saw

(*): Other brands available upon request

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



RUBBER COLLECTION MACHINES

CDS offers motorized Takeaway Conveyors and Automatic Winders that safely collect a wide range of extruded rubber profiles and tubes. Our durable and reliable Rubber Collection Machines can quickly load material into a bundling rack or bin for easy pickup.



CTC4-8

TAKEAWAY CONVEYORS

- Heavy-duty steel construction
- Motorized conveyor
- Single axis height adjustment
- Pneumatic part ejector system

CTC Series

STANDARD FEATURES	CTC 3	CTC 4	CTC 6	CTC 8
Conveyor Width	3"	4"	6"	8"
Conveyor Length	Up to 20'			

*CTC: CDS Takeaway Conveyor

AUTOMATIC COIL WINDERS

- Heavy-duty steel construction
- Adjustable inner coil diameter
- Coiler 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



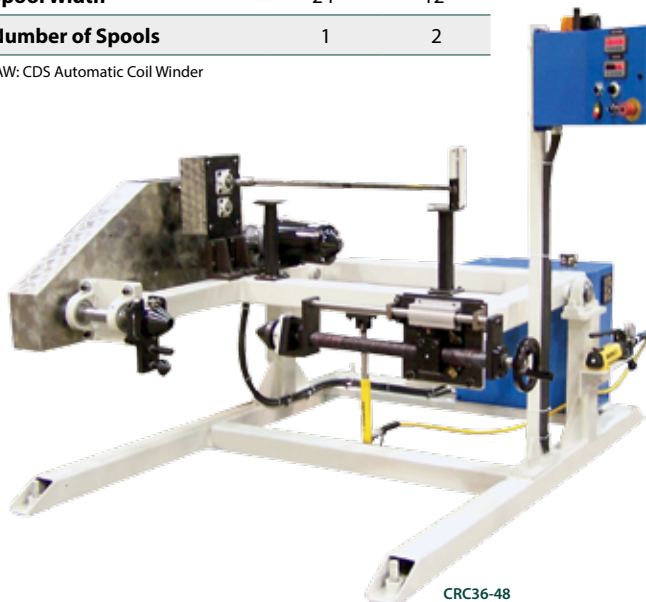
CAW1

REEL COILERS

- Heavy-duty steel construction
- Spool driven by heavy-duty gearbox
- Reels lifted mechanically
- Automatic traverse system

*CRC: CDS Reel Coiler

Note: Different Reel Coiler configurations available upon request



CRC36-48



RUBBER COLLECTION MACHINES



CVW37-8

VERTICAL WINDERS

- Heavy-duty steel construction
- Automatic traverse system
- Inline reducer(s)
- Dancer system for line speed synchronization

*CVW: CDS Vertical Winder

Note: Different Vertical Winder configurations available upon request

RUBBER COLLECTION OPTIONS

Line direction: Right-Left / Left-Right

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

Customizable collection area (*CTC)

Customizable table width and bin type (*CTC)

Pneumatic push arm or blow-off (*CTC)

Pneumatic diverter arm (*CTC)

Automatic traverse system (*CAW)

Foot pedal activation (*CAW)

Fixed or Collapsible core (*CAW)

Central greasing system (Not applicable on Takeaway Conveyors)

Programmable recipes

Touch screen controls (HMI) (Not applicable on Panners)

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 / 3 PH / 60 Hz, 380-400VAC / 3 PH / 50 Hz

All motors are Energy-Efficient

(*CRC): Applicable only on Take Away Conveyor

(*CVW): Applicable only on Vertical Winder

(*CTC): Applicable only on Takeaway Conveyor

(*CAW): Applicable only on Automatic Coil Winder

(*): Other brands are available upon customer request

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

PANNERS

COMBINATION HAUL-OFF / CRIMPER / CONVEYOR/PANNER

- Heavy-duty steel construction
- Touch screen controls (HMI)
- DuraGrip covered belts
- Both belts driven
- Driven crimper wheels
- Pneumatic chute system
- Panning speed automatically synchronizes with line speed to maintain proper tension

Note: Combination Crimper / Cutter can be replaced by a Servo Fly-Knife Cutter or a Servo Rotary Knife Cutter
Panning station can be manually operated
Guards can be designed according to operator interface



CCPWPCTCP6



RUBBER AUXILIARY MACHINES

STRIP FEEDERS

- Heavy-duty steel construction
- Pneumatic clamping system
- Dancer system for line speed synchronization
- Driven/non-driven serrated rollers
- Inline reducer(s)
- Product detection alarm

*CSFM: CDS Strip Feeding Machine



CSFM12



CSFM12D



CPHM200L

PRE-HEATERS

- Heavy-duty steel construction
- Compact stainless steel tunnel design
- Air blower heating system
- Insulated tunnel for heat retention

*CPHM: CDS Pre-Heating Machine

Note: Infrared (IR) and Radiant Heat Ovens available upon request

ULTRASONIC LOOP CONTROLS

- Easy loop adjustment
- Ultrasonic signal
- Low tension control

*CULC: CDS Ultrasonic Loop Control



CULC-HL

LUBE TANKS

- Heavy-duty steel construction
- Stainless steel upper tank and reservoir
- Lube recirculation system with pump
- Air wipe system

*CLT: CDS Lube Tank



CLT14-12-2



RUBBER **AUXILIARY** MACHINES

PAY-OFFS



CRW1-36

RIM PAY-OFFS

- Heavy-duty steel construction
- Single reel station pay-off
- Adjustable guides for different reels and flange thicknesses
- Dancer system for line speed synchronization

*CRW: CDS Rim Pay-Off

DRIVEN PAY-OFFS

- Heavy-duty steel construction
- Customizable receiving area for different reel widths and diameters
- Dancer system for line speed synchronization
- Inline reducer(s)

*CDPO: CDS Driven Pay-Off



CDPO37-64

RUBBER AUXILIARY OPTIONS

Line direction: Right-Left / Left-Right (Not applicable on Ultrasonic Loop Controls)

Touch screen controls (HMI) (Not applicable on Ultrasonic Loop Controls)

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 (Not applicable on Ultrasonic Loop Controls)

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

All motors are Energy-Efficient

(*): Other brands available upon request

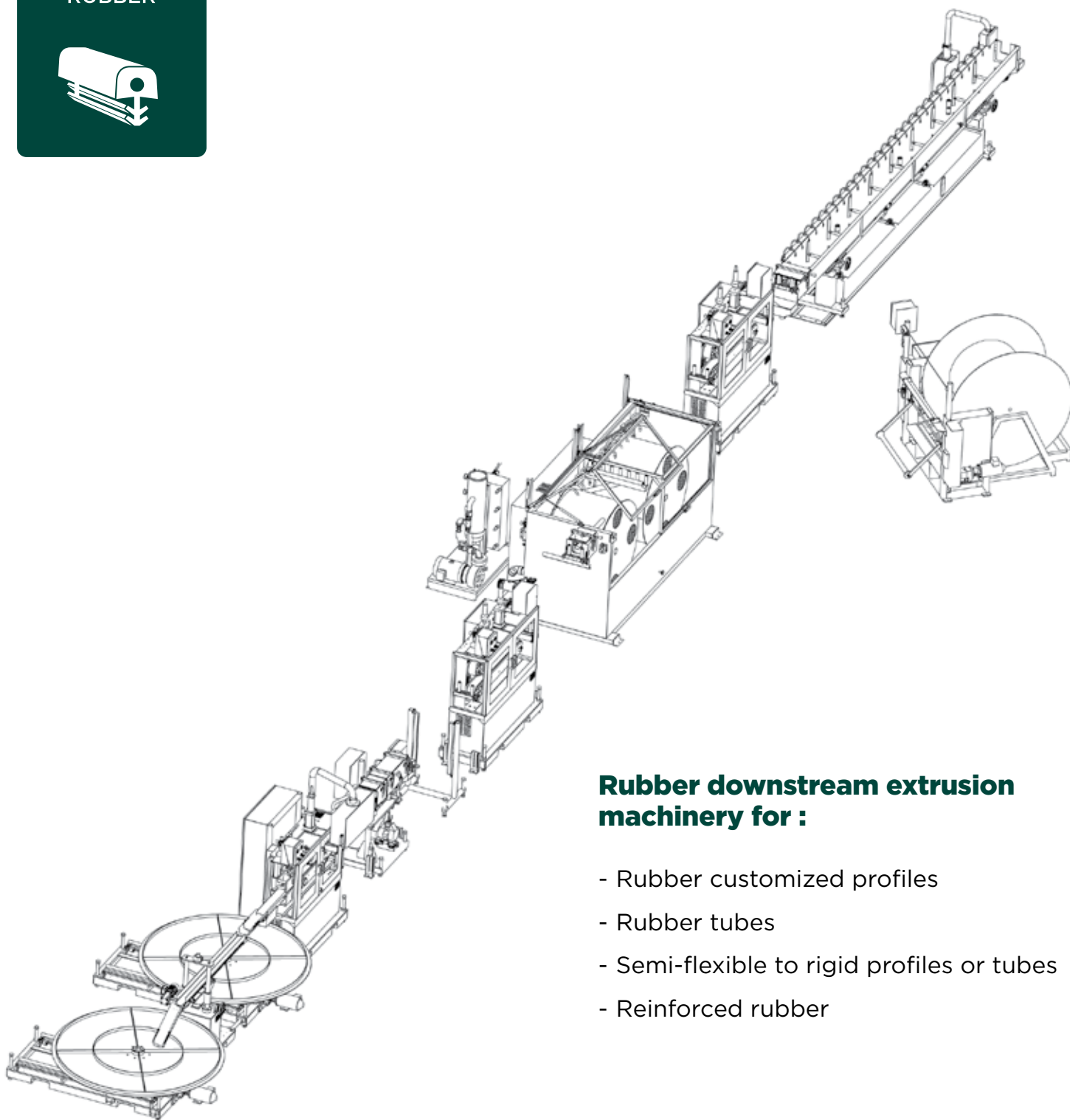
Note: All of the above machinery complies with UL-CSA-CE



CCBVS4-35



RUBBER



Rubber downstream extrusion machinery for :

- Rubber customized profiles
- Rubber tubes
- Semi-flexible to rigid profiles or tubes
- Reinforced rubber



CUSTOM DOWNSTREAM SYSTEMS

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