



CUSTOM DOWNSTREAM SYSTEMS

AUTOMOTIVE

DOWNSTREAM EXTRUSION MACHINERY



In Line

With Your Future



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AUTOMOTIVE

DOWNSTREAM EXTRUSION MACHINERY

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

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

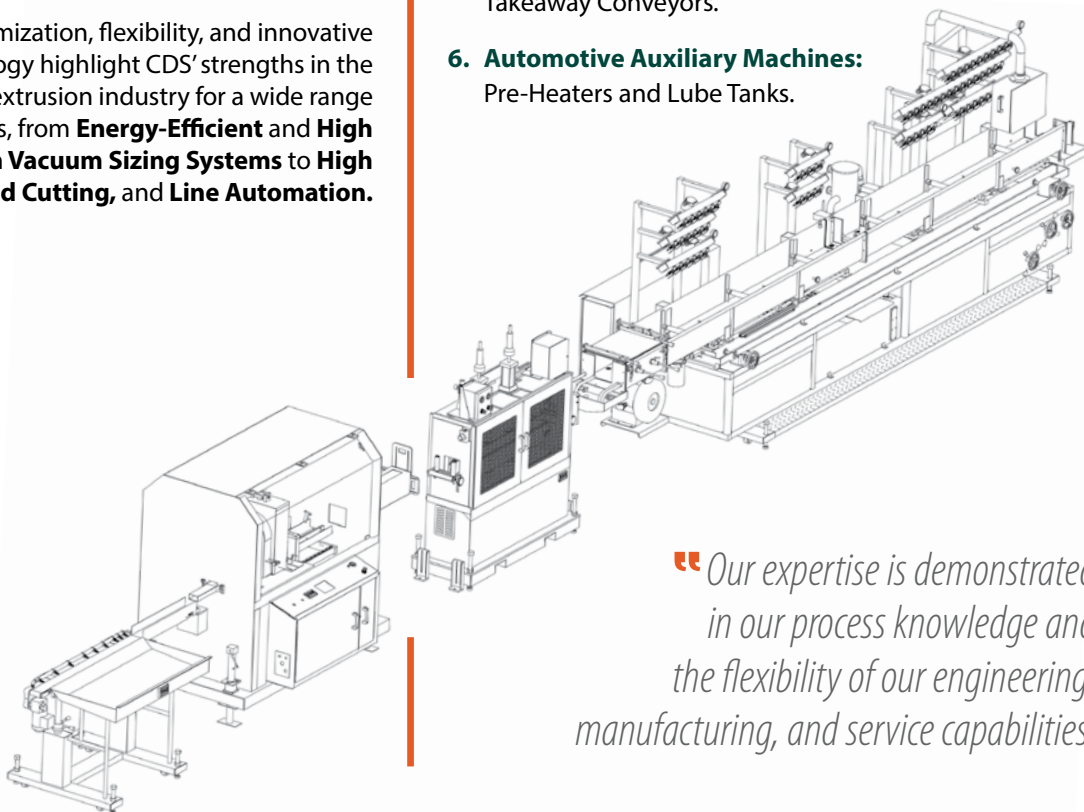
TECHNOLOGY

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

MACHINERY

CDS manufactures Automotive Downstream Extrusion Machinery in the following categories:

- 1. Automotive Cooling Machines:**
Vacuum Calibration Tables, High-Precision Vacuum Sizing Tanks, and Water Cooling Tanks.
- 2. Automotive Pulling Machines:**
Belt Haul-Offs and Horizontal Belt Haul-Offs.
- 3. Automotive Cutting Machines:**
Servo Saws, Servo Cutters and Traveling Guillotines.
- 4. Automotive Combination Units:**
Belt Haul-Off / Servo Fly-Knife or Servo Rotary Knife Cutter, and Belt Haul-Off / Chop Saw.
- 5. Automotive Collection Machines:**
Takeaway Conveyors.
- 6. Automotive Auxiliary Machines:**
Pre-Heaters and Lube Tanks.



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



AUTOMOTIVE COOLING MACHINES

CDS' Automotive Cooling Machines are recognized for their customized tables and tanks, which provide optimal cooling solutions for different types of flexible to semi-flexible and reinforced automotive profiles and tubes.

CALIBRATION TABLES

CDS' Vacuum Calibration Tables provide a flexible platform for sizing automotive profiles. The unit's mounting rails can accommodate calibration tooling and an auxiliary tank, both of which can be supplied with controllable vacuum and water cooling.

STANDARD SPECIFICATIONS:

- Heavy-duty steel construction
- Pendulum mounted operator panel
- Vacuum and Water manifolds
- 3-axis table movement for precise alignment with the extrusion line
- T-slot mounting rails for calibration tooling or auxiliary tanks
- Line direction: Right-Left / Left-Right

VACUUM CALIBRATION TABLES

- Integrated Haul-Off controls
- Motorized longitudinal movement and height adjustment
- Service step

*CVC: CDS Vacuum Calibration Table



ENERGY-EFFICIENT VACUUM CALIBRATION TABLES

- Energy saving system
- Touch screen controls (HMI)
- Integrated Haul-Off controls
- Variable pump speed control
- Motorized longitudinal movement and height adjustment
- Service step

*CVCE: CDS Energy-Efficient Vacuum Calibration Table



AUTOMOTIVE **COOLING** MACHINES

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:

- Heavy-duty steel construction
- Stainless steel upper tanks and reservoirs
- Water level control
- Pendulum mounted operator panel
- 3-axis precision movement
- Line direction: Right-Left / Left-Right



HIGH PRECISION VACUUM SIZING TANKS

- Product support rollers with swing arm motion
- Tempered glass lids
- Motorized longitudinal movement
- Touch screen controls (HMI)
- High-efficiency closed loop vacuum control system
- Vacuum levels: 0-130 inches of H₂O or 0-200 inches of H₂O

*CPVS: CDS High Precision Vacuum Sizing Tank

WATER COOLING TANKS

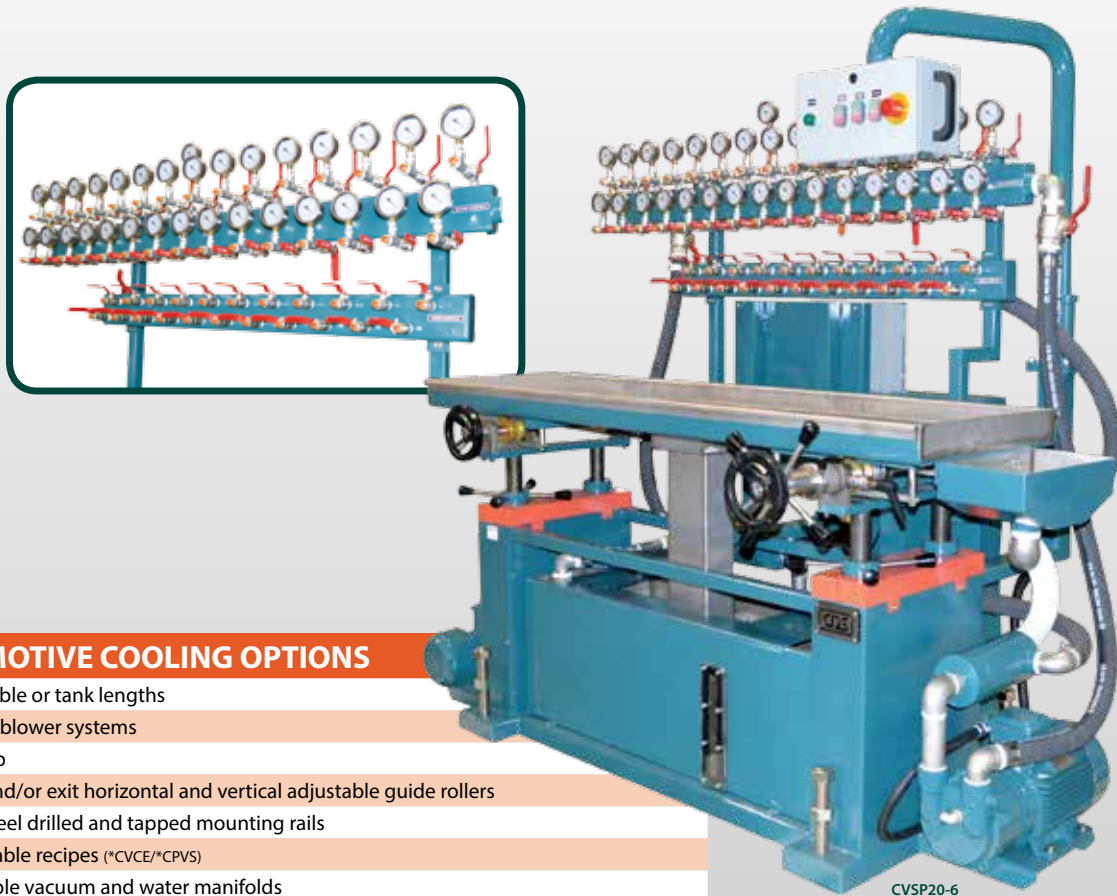
- Open upper tank for easy start-up
- Water turbulence bars
- Product support rollers
- Manually adjustable longitudinal movement

*CWT: CDS Water Cooling Tank

Note: Spray Cooling Tanks available upon request



AUTOMOTIVE COOLING MACHINES



AUTOMOTIVE COOLING OPTIONS

- Different table or tank lengths
- Air wipe or blower systems
- Service step
- Entrance and/or exit horizontal and vertical adjustable guide rollers
- Stainless steel drilled and tapped mounting rails
- Programmable recipes (*CVCE/*CPVS)
- Customizable vacuum and water manifolds
- Vacuum pumps – Dry vacuum (**)
- Cyclone systems – Wet vacuum (**) (*CVC /*CVCE)
- 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 (**)
- UV water purification system
- Loop control heating systems
- Temperature control
- Heavy-duty stainless steel support frame
- Motorized longitudinal movement
- Angularity adjustment (*CVCE)
- Insulation on tanks and/or all water components
- 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

CVSP20-6

*CVSP: CDS Vacuum Sizing Stand
Note: Vacuum Sizing Stands available upon request

(**): All motors are Energy-Efficient
 (*CVC): Applicable only on Vacuum Calibration Table
 (*CVCE): Applicable only on Energy-Efficient Vacuum Calibration Table
 (*CPVS): Applicable only on High Precision Vacuum Sizing Tank
 (*): Other brands available upon request
Note: All of the above machinery complies with UL-CSA-CE



AUTOMOTIVE PULLING MACHINES

To accommodate the size and the unique processing requirements of extruded automotive profiles and tubes, CDS offers its series of Automotive 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 extruded profiles or tubes
- 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)



CBH48-8V

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", and 4"				4", 6", 8", 10", and 12"					
Max. Conveyor Opening	3"				7"					

*CBH: CDS Belt Haul-Off



AUTOMOTIVE **PULLING** MACHINES

HORIZONTAL BELT HAUL-OFFS

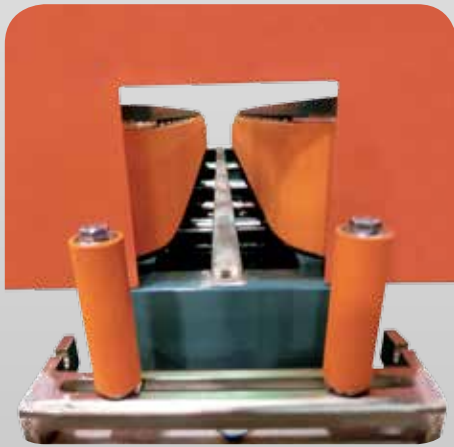
- Self-centering beam adjustment
- Chain drive system with vector controls

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	Up to 7"			

*CBH-H: CDS Horizontal Belt Haul-Off



CHB60-6HS



CHB60-6HS

AUTOMOTIVE PULLING OPTIONS

- Customizable belt configuration
- High temperature belt material
- Servo-motorized clamping control with touch screen controls (HMI)
- Upper beam with pneumatic clamping control
- Pneumatic self-centering beam adjustment
- Direct drive system with vector controls and motors (**) (Not applicable on *CBH Series 9.5 to 18)
- 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



AUTOMOTIVE CUTTING MACHINES

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

STANDARD SERVO SAW SPECIFICATIONS:

- Heavy-duty steel construction
- Servo table travel
- Upward blade cutting (Applicable only on Servo Precision Cut-Off Saws)
- Downward blade cutting (Applicable only on Servo Precision Down-Cut Saws)
- Fully guarded for maximum machine operator safety
- Cut length accuracy $\pm .015$ inch
- Brake motor for quick blade stop
- Integrated electronic length control with encoder
- Touch screen controls (HMI)
- Vacuum Dust/Chip Collector
- Line direction: Right-Left / Left-Right



CSSH3-3

SERVO PRECISION CUT-OFF SAWS

CSS / CSSH Series

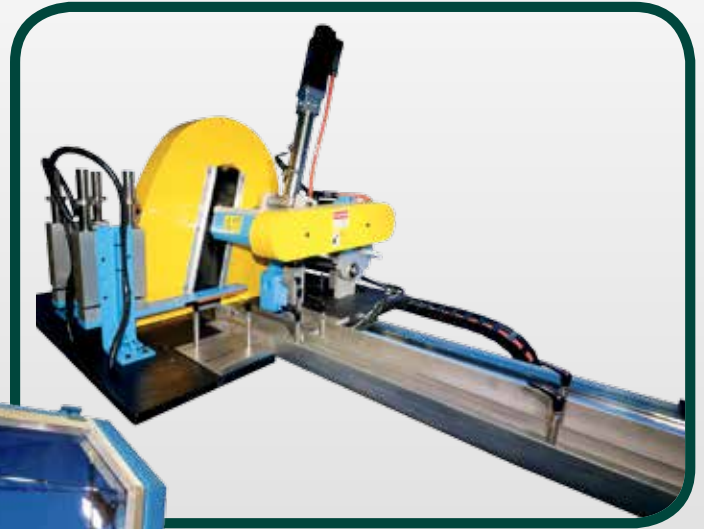
STANDARD FEATURES	CSS 3-3	CSS 45-8	CSS 65-13	CSS 85-18
Profile Cutting Window (W x H)	3.5" x 2.5"	8" x 3.5"	13" x 3.5"	18" x 4.5"
Profile Cutting Window (H x W)	3" x 2.5"	4.5" x 4"	6" x 2.5"	8" x 9"
Saw Blade Diameter	10"	14"	18"	24"

*CSS: CDS Servo Precision Cut-Off Saw

*CSSH: CDS High Velocity Servo Precision Cut-Off Saw



AUTOMOTIVE **CUTTING** MACHINES



CSSD45

SERVO PRECISION DOWN-CUT SAWS

CSSD / CSSDH Series

STANDARD FEATURES	CSSD 3-3	CSSD 45-8	CSSD 65-13	CSSD 85-18
Profile Cutting Window (W x H)	3.5" x 2.5"	8" x 3.5"	13" x 3.5"	18" x 4.5"
Profile Cutting Window (H x W)	3" x 2.5"	4.5" x 4"	6" x 2.5"	8" x 9"
Saw Blade Diameter	10"	14"	18"	24"

*CSSD: CDS Servo Precision Down-Cut Saw

*CSSDH: CDS High Velocity Servo Precision Down-Cut Saw



AUTOMOTIVE **CUTTING** MACHINES



CSFK45

STANDARD SERVO CUTTER 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

SERVO FLY-KNIFE CUTTERS

CSFK Series

STANDARD FEATURES	CSFK 25	CSFK 35	CSFK 45	CSFK 65
Rubber Cutting Window O.D.	2.25"	3.25"	4.25"	6.25"
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

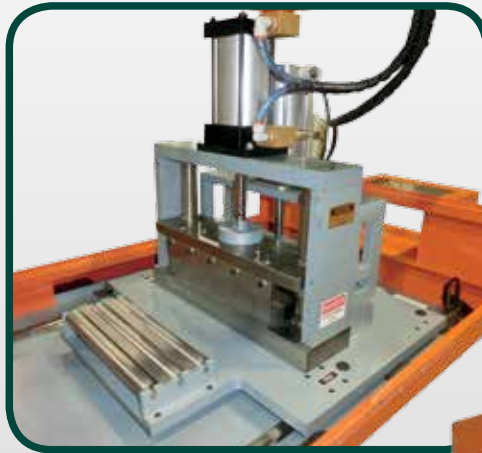
CSRK Series

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



AUTOMOTIVE **CUTTING** MACHINES



SERVO GUILLOTINE CUTTERS

- Full coverage safety enclosure
- Heavy-duty steel construction
- Pneumatically activated guillotine cutter head
- Servo table travel
- Line direction: Right to Left / Left to Right

*CGCPS: CDS Servo Guillotine Cutter/Punch



AUTOMOTIVE CUTTING OPTIONS

- Full coverage safety enclosure (Applicable only on Saws)
- Vacuum Dust/Chip Collector (Applicable only on Saws)
- Variable blade speed (Applicable only on Saws)
- Servo controlled vertical blade movement (Applicable only on Saws)
- Servo ball screw table travel (Not applicable on *CSFK/*CSRK Series)
- Soundproofing (Applicable only on Saws)
- Product support jig (Applicable only on Saws)
- 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
- Blade lubrication system with mist or bottle and blade wipe
- Blade heating system (*CSFK/*CSRK)
- Heated entrance tunnel (*CSFK/*CSRK)
- Cut-length activating sensor
- Pneumatic table travel
- Extended table travel for high speed (*CGCPS)
- Different cutting windows (*CGCPS)
- 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

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

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

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

(*): Other brands available on request

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



AUTOMOTIVE COMBINATION MACHINES

CDS' Automotive Combination Units are recognized for their compact designs, reducing their footprint while meeting high pull forces and precise cutting capabilities. CDS can customize a combination system for any automotive 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
- Upper and lower beam height adjustment
- Integrated electronic length control with encoder
- 0-10VDC, or 4-20 mA Line Integration
- Line direction: Right-Left / Left-Right



CCBVSK4-35

BELT HAUL-OFF / SERVO FLY-KNIFE CUTTER

CCBVSK / CCBSSK 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 / CCBSSRK 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



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

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



CCBVCS25-10

AUTOMOTIVE COMBINATION UNIT OPTIONS

- Customizable belt configuration
- High temperature belt material
- Horizontal belt configuration (Not applicable on *CCBVCS/*CCBSGS Series)
- Upper beam with pneumatic clamping control (Not applicable on Horizontal Combination Series)
- Servo-motorized clamping control (Not applicable on Horizontal Combination Series)
- Self-centering adjustment (Not applicable on *CCBVCS/*CCBSGS 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
- Additional set of cutter bushings (Not applicable on *CCBVCS/*CCBSGS Series)
- Stainless steel cutter bushings (Not applicable on *CCBVCS/*CCBSGS Series)
- Quick-change cutter bushings (Not applicable on *CCBVCS/*CCBSGS Series)
- Stainless steel cutter head (Not applicable on *CCBVCS/*CCBSGS 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/*CCBSGS Series)
- Cut-length activating sensor
- Adjustable blade speed (*CCBVCS/*CCBSGS)
- Vacuum Dust/Chip Collector (*CCBVCS/*CCBSGS)
- 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, CCBSK-H, CCBSRK-H, and CCBVSRK-H

Servo Fly-Knife Cutter Combination Series: CCBVSK, CCBVSK-H, CCBSK, CCBSK-H

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

(*CCBSGS): 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



AUTOMOTIVE COLLECTION MACHINES

CDS offers motorized Takeaway Conveyors that safely collect a wide range of extruded automotive profiles and tubes. Our durable and reliable Conveying Systems can quickly load material into a bundling rack or bin for easy pickup.

TAKEAWAY CONVEYORS

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

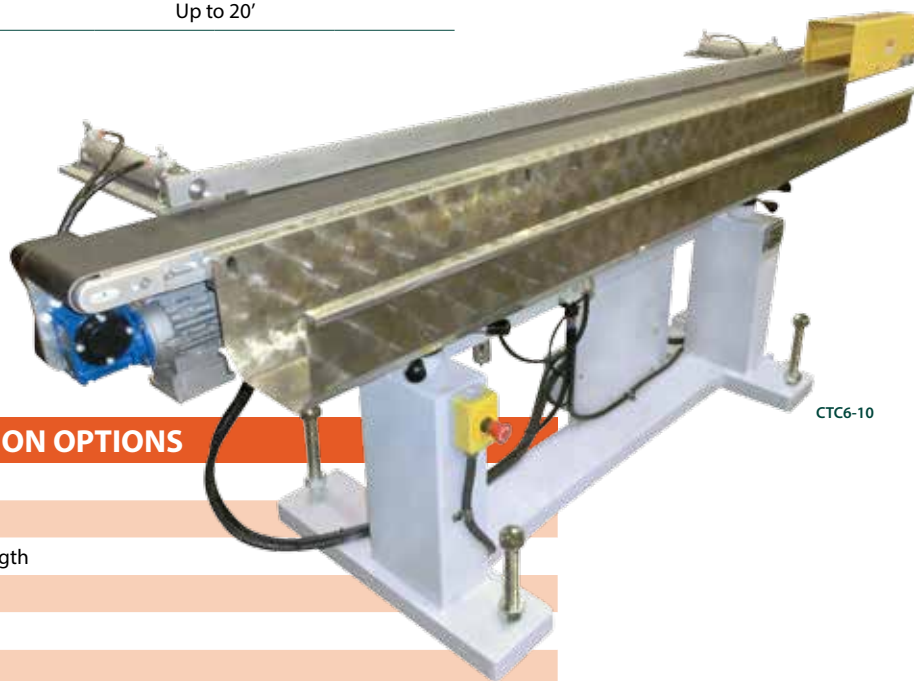


CTC4-8

CTC Series

STANDARD FEATURES	CTC 3	CTC 4	CTC 6	CTC 8
Conveyor Length	3"	4"	6"	8"
Cutting Capacity O.D.	Up to 20'			

*CTC: CDS Takeaway Conveyor



CTC6-10

AUTOMOTIVE COLLECTION OPTIONS

Line direction: Right-Left / Left-Right

Customizable collection area

Customizable conveyor width and length

Pneumatic diverter or push arm

Dual pneumatic part ejector system

Programmable recipes

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

All motors are Energy-Efficient

(*) Other brands are available upon customer request

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



AUTOMOTIVE AUXILIARY MACHINES

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



CPHM200L

LUBE TANKS

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

*CLT: CDS Lube Tank



CLT10-2



AUTOMOTIVE AUXILIARY OPTIONS

Line direction: Right-Left / Left-Right

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

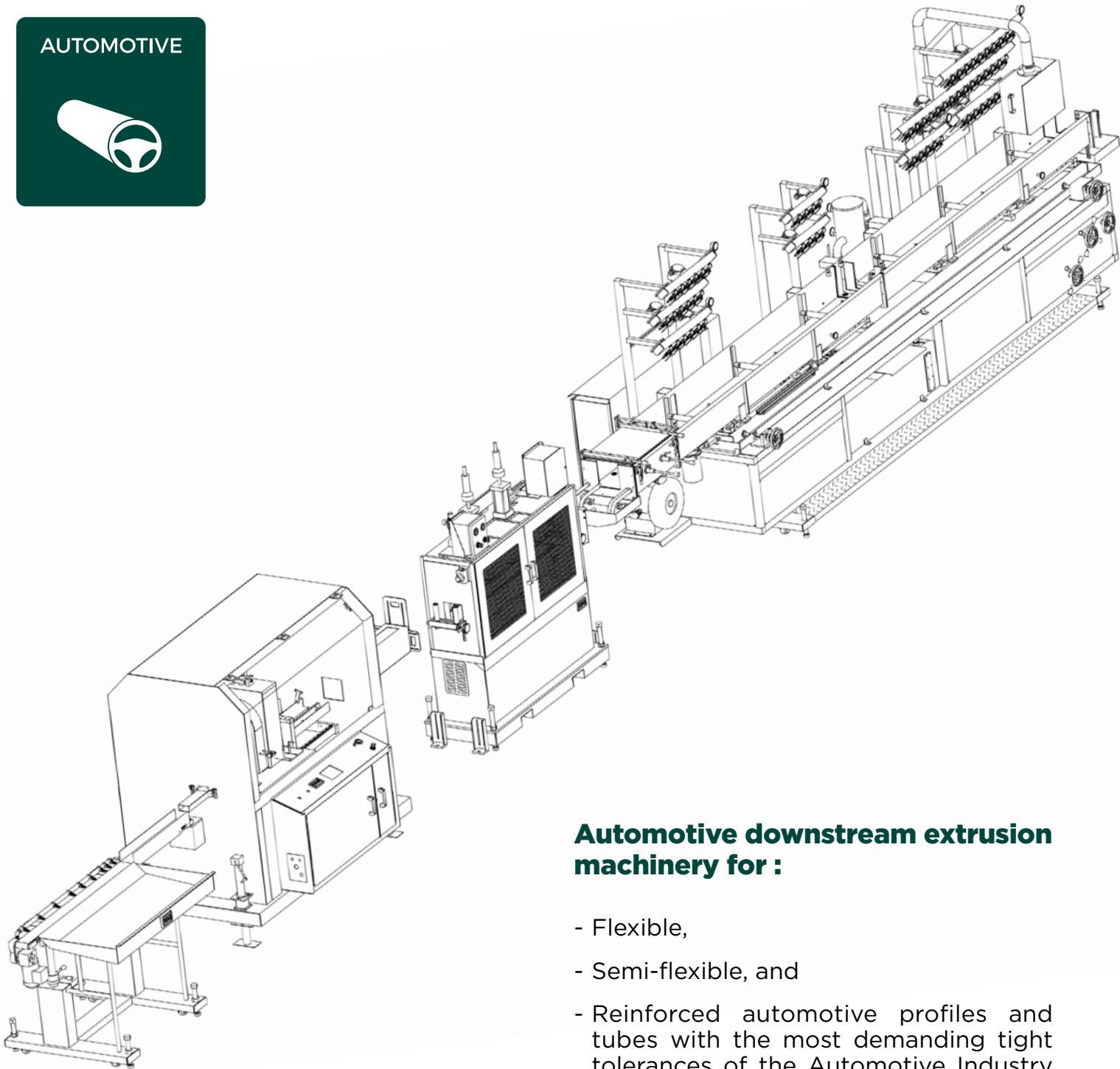
All motors are Energy-Efficient

(*): Other brands available upon request

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



AUTOMOTIVE



Automotive downstream extrusion machinery for :

- Flexible,
- Semi-flexible, and
- Reinforced automotive profiles and tubes with the most demanding tight tolerances of the Automotive Industry



CUSTOM DOWNSTREAM SYSTEMS

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