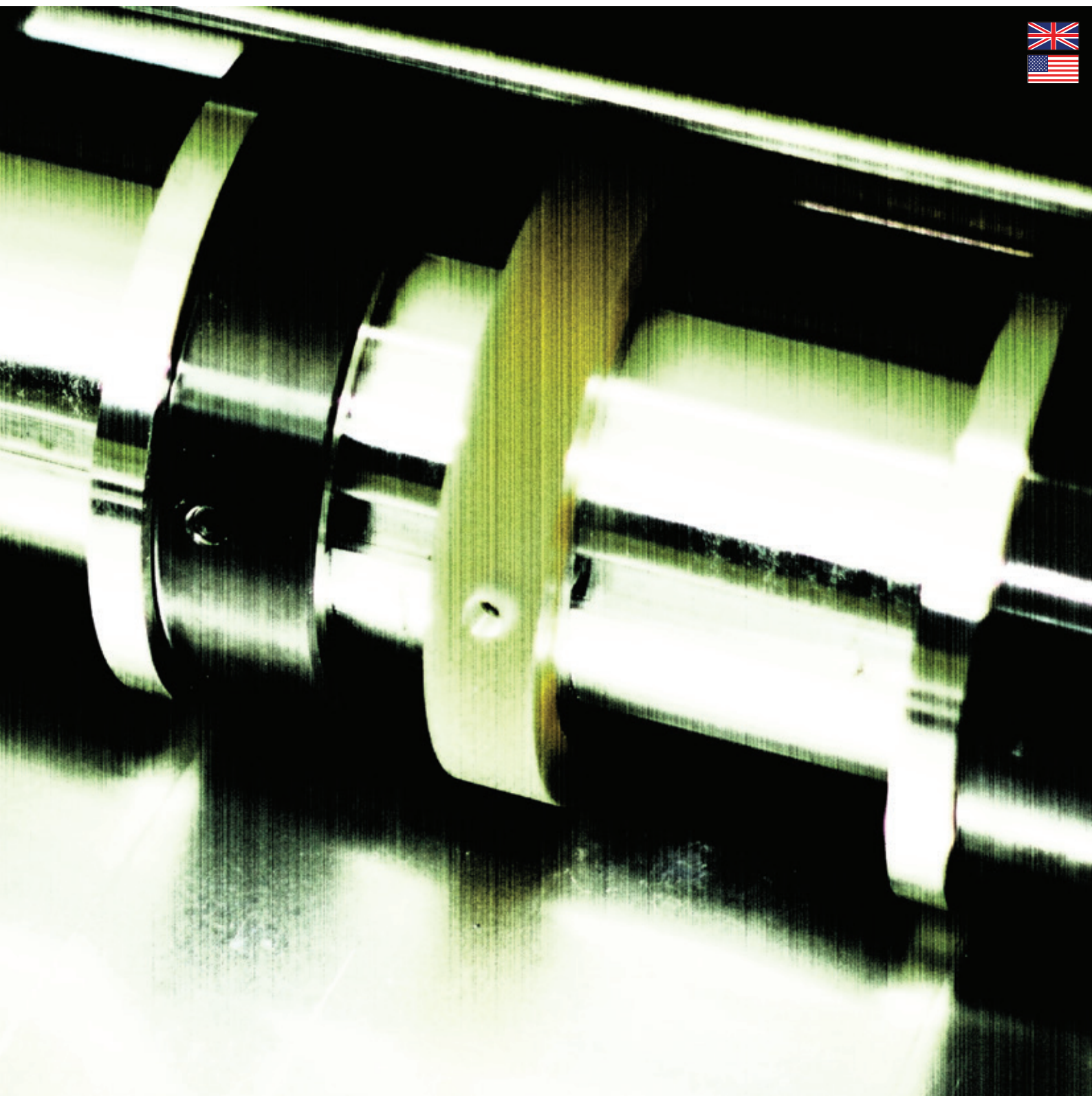


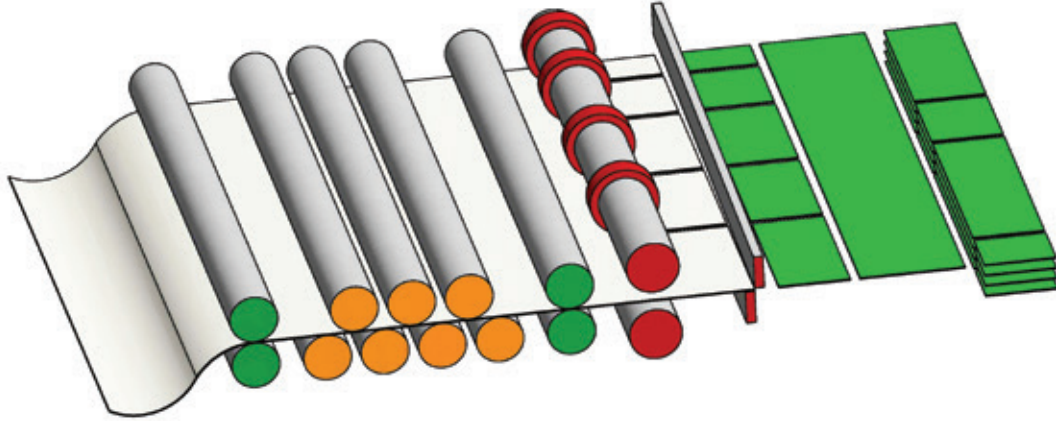


COIL PROCESSING & SHEARING SYSTEMS



CIDAN
BY PETERSEN MACHINERY

GREEN POWER



REDUCTION OF RAW MATERIAL COST

Cost of material in coil is 15 -20 % less than cost of material in blanks



REDUCTION OF SCRAP MATERIAL

Instead of fixed sized blanks, you produce any size needed without scrap



REDUCTION OF PROCESSING TIME

From coil to required blanks with minimum material handling



REDUCTION OF MAN POWER

No lifting and handling of heavy sheets



JUST IN TIME !

Quick response to customer demand

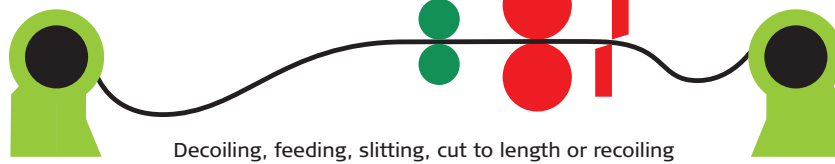
System 1



System 2



System 2 RCO



System 3



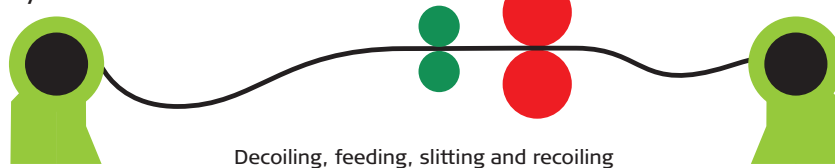
System 4



System 4 RCO



System 5 RCO



COMPACT



The CIDAN cut to length line model Compact is a fully automatic line and supplied in a very compact construction for coil widths, 1250 mm (49") and 1550 mm (61"). No other manufacturer can beat the quality and accuracy of the cut and slit pieces in a line of this size. With this line, the productivity can be drastically increased by programming different lengths and pieces and the use of material will be optimized with much less scrap.

System 3



Decoiling, straightening, feeding and cut to length

System 4



Decoiling, straightening, feeding, slitting and cut to length

The Compact has a straightening unit with 5 rolls and the cut to length is done by a motorized mechanical shear.

The LineLink control with a color touch screen gives you the possibility to store many programs as well as a library of coils.

The Compact is prepared and can be fitted with a slitting unit and multiple slitting blades.

The Compact will handle pre-painted sheets and other sensitive materials. It also minimizes scratches and marks on the surface.

As standard, the line is operated from the left side, but can be supplied in "right side operation" in order to satisfy the individual space requirements.

STANDARD FEATURES

- Straightening unit with 5 straightening rolls (70 mm/2,8")
- Sheet guide for in-feed
- Guillotine shear with hold down beam
- Programmable control system (LineLink) with touch screen and multiple languages
- 2 feeding rolls (1 rubber coated)
- Mechanical fencing at rear of the machine
- Control panel on the left side

OPTIONS

- Slitting unit with 1- 8 pairs of slitting knives (system 4)
- Device for adding protecting foil (upper and lower roll)
- Foot pedal for remote feeding
- Manual or motorized decoilers
- Control panel on the right side
- Hardened rolls - for stainless steel applications
- Chromed rolls - for stainless steel and sensitive materials
- Position indicator with digital outread
- Punching unit (on customers request)

Model	Cutting length	Capacity			Speed	Motor	Weight
	mm (")	Steel* mm (ga)	Stainless steel** mm (ga)	Aluminium*** mm (ga)	m/min. (ft/min.)	kW (hp)	Kg (lbs) Approx.
Compact 12	1250 (49)	1.25 (18)	0.75 (24)	2.50 (12)	12 (37)	1.5(2.0)+1.1(1.5)	1500 (3307)
Compact 15	1550 (61)	1.00 (20)	0.50 (26)	2.00 (14)	12 (37)	1.5(2.0)+1.1(1.5)	1600 (3525)

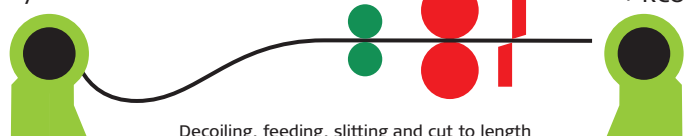
*at 400 N/mm² – 58000 psi –**at 700 N/mm²–87000 psi –***at 200 N/mm²–29000 psi



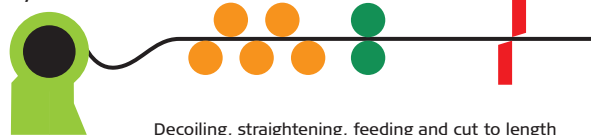
System 1



System 2



System 3



System 4



The CIDAN line model Profi comes in 5 different customer demands, and they are made for coil widths 1250 mm (49") and 1550 mm (61"). The Profi is constructed with heavy duty side frames for high demanding production. The Profi can be supplied with a wide range of options in order to fulfill different customers demands.

The systems that have straightening unit can have 5 or 7 straightening rolls.

Cut to length is done by a heavy duty mechanical shear.

The Profi will handle pre-painted sheets and other sensitive materials. It also minimizes scratches and marks on the surface.

System 2 and 4 can also be used together with recoiling.

System 5 RCO



STANDARD FEATURES

- Sheet guide for in-feed
- Feeding unit with 2 feeding rolls (one rubber coated)
- Straightening unit 5 rolls (systems 3 and 4)
- Programmable control system (LineLink) with touch screen and multiple languages
- Control panel on the left side

OPTIONS

- Slitting unit with 1 – 8 pairs of slitting knives (system 4)
- Device for adding protective foil (upper and lower roll)
- Foot pedal for remote feeding
- Extra set of straightening rolls (total 7 rolls)
- Hardened rolls - for stainless steel applications
- Chromed rolls – for stainless steel and sensitive materials
- Manual or motorized decoilers
- Stacking systems
- Recoiling systems

Model	Cutting length	Capacity			Speed	Motor	Weight
		Steel* mm (ga)	Stainless steel** mm (ga)	Aluminium*** mm (ga)			
Profi 12	1250 (49)	1.75 (15)	1.00 (20)	3.50 (10)	20 (60)	1.5(2.0)+2.2(3.0)	2500 (5512)
Profi 15	1550 (61)	1.50 (16)	1.00 (20)	3.00 (11)	20 (60)	1.5(2.0)+2.2(3.0)	2750 (6063)

*at 400 N/mm² – 58000 psi – **at 700 N/mm²–87000 psi – ***at 200 N/mm²–29000 psi

TURBO



The CIDAN line model Turbo comes in 2 different systems, and they are made for coil widths 1250 mm (49") and 1550 mm (61").

The Turbo is designed with 50 mm (2 ") heavy duty side frames for feeding, straightening, slitting (system 4) and cut to length.

The rolls are gear driven and the heavy solid rolls and other parts have been dimensioned for high production in maximum capacity.

The Turbo line has two sets of feeding rolls (one roll in each set is rubber coated), and 7 straightening rolls as standard.

The Turbo will handle pre-painted sheets and other sensitive materials. It also minimizes scratches and marks on the surface.

The Turbo system 4 can be used together with recoiling.

System 3



Decoiling, straightening, feeding and cut to length

System 4



Decoiling, straightening, feeding, slitting and cut to length

+ RCO

STANDARD FEATURES

- Sheet guide for in-feed
- 2 sets of feeding units with each 2 rolls
- Straightening unit with 7 rolls
- Programmable control system (LineLink) with touch screen and multiple languages
- Control panel on the left side

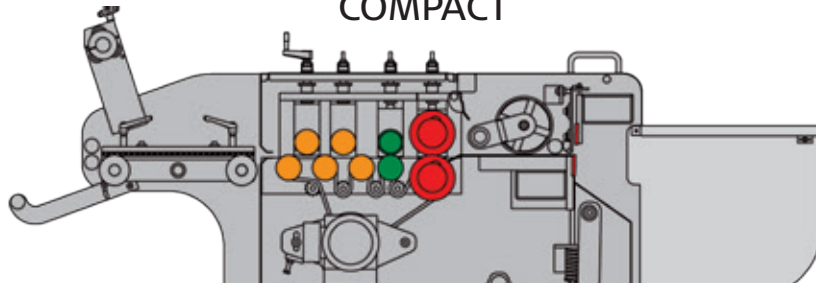
OPTIONS

- Slitting unit with 1 – 8 pairs of slitting knives
- Device for adding protective foil (upper and lower roll)
- Foot pedal for remote feeding
- Hardened rolls - for stainless steel applications
- Chromed rolls - for stainless steel and sensitive materials
- Manual or motorized decoilers
- Stacking systems
- Recoiling systems

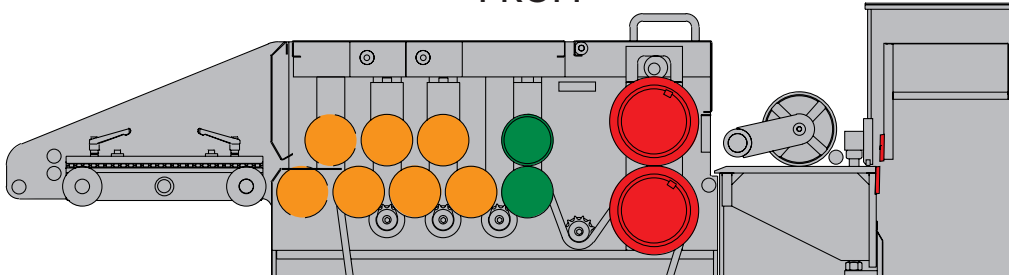
Model	Cutting length	Capacity			Speed	Motor	Weight
	mm (")	Steel* mm (ga)	Stainless steel** mm (ga)	Aluminium*** mm (ga)	m/min. (ft/min.)	kW (hp)	Kg (lbs) Approx.
Turbo 12	1250 (49)	2.25 (14)	1.50 (16)	4.00 (9)	30 (90)	2.2(3.0)+4.0 (5,5)	3030 (6680)
Turbo 15	1550 (61)	2.00 (14)	1.25 (18)	3.50 (10)	30 (90)	2.2(3.0)+4.0 (5,5)	3360 (7410)

*at 400 N/mm² – 58000 psi –**at 700 N/mm²–87000 psi –***at 200 N/mm²–29000 psi

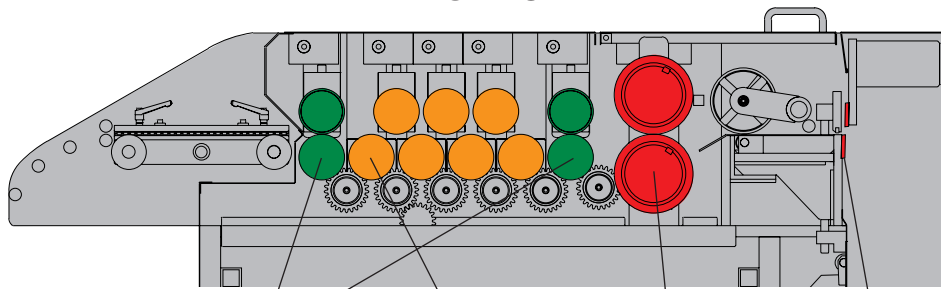
COMPACT



PROFI

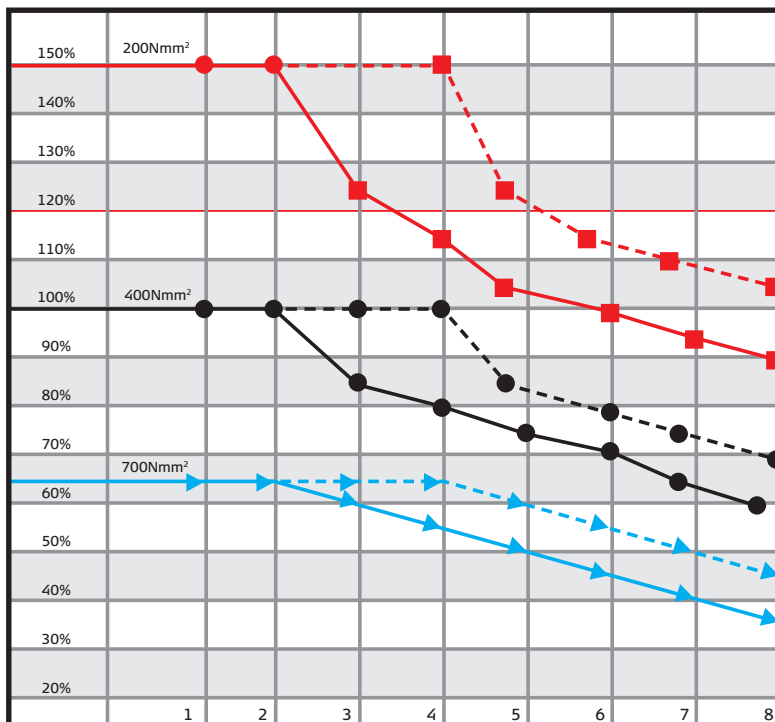


TURBO



Feeding rolls Straightening rolls Slitting unit Mechanical shear

SLITTING CAPACITY – CUTTING LINES



If trimming coils from (1,25 meter / 49 inches) up to (1,5 meter / 60 inch), use the capacity on the "dash line".

In order to obtain correct sheet thickness information, replace the 100% with steel capacity from desired CTL line.

The reduced or increased percentage figures refer to maximum material thickness.

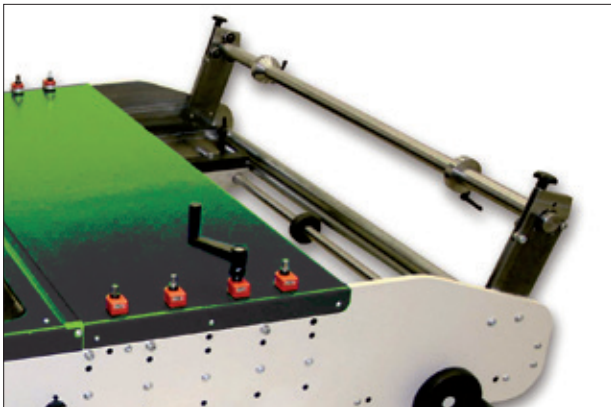
Pairs of slitting blades

OPTIONS



FOOTPEDAL

The foot pedal is used for remote control of the feeding. This is to simplify the process of changing coil.



DEVICE FOR ADDING PROTECTIVE FOIL

Device for adding protective foil on top side and / or lower side of the material. This device can be equipped with a brake in order to adjust the tension and is mainly used for sensitive material.



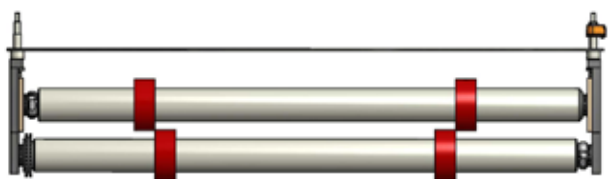
SLITTING UNIT

All our lines can be fitted with a slitting unit that consists of upper and lower rolling knives. The unit can be equipped with 1–8 pair of knives. The slitting unit can be activated or de-activated by moving the upper knives up or down via a hand wheel.

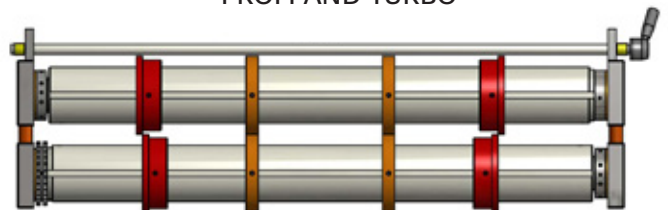


Slitting knives are easily adjusted with an Allen key. The half moon key is made of bronze to avoid scoring/markings of the shafts, when sliding and tightening the slitting knives.

COMPACT



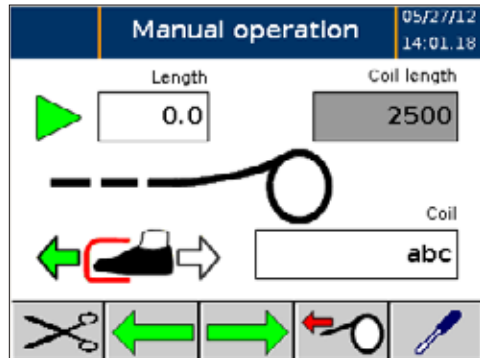
PROFI AND TURBO



The knives on our slitting units are easily adjusted horizontally and they all have two cutting edges to double the lifespan. Minimum distance between the knives is 50 mm (2"). Shafts are precision ground and hardened. Knives are tool steel. Tolerance between shafts and knives are 0,01 mm (0,0005") which guarantees accurate slitting

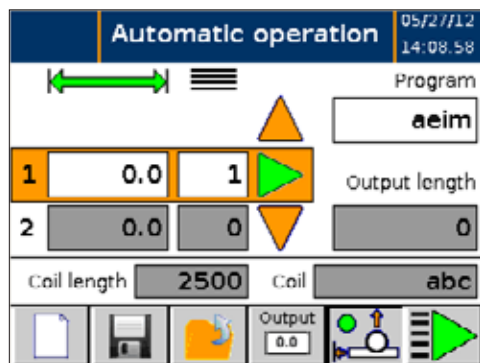
LINELINK TOUCH SCREEN CONTROL

All our coil processing units are equipped with the LineLink Control that has a 6" colour touch screen that is very user friendly. The LineLink has a flash card where all parameters, programs and coils are stored.



THE MANUAL OPERATION MODE IS USED FOR:

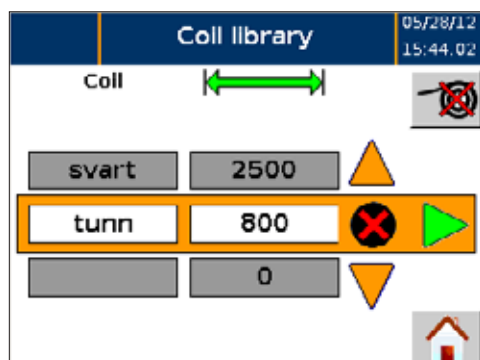
- Manual feeding of material in both directions
- Manual clean cut
- Choose coil from library
- Set length for single cut
- Choose language, metric/imperial etc.



THE AUTOMATIC OPERATION MODE IS USED FOR:

Write a program by selecting cutting length and quantity. Each program can have several lengths and quantities in combination

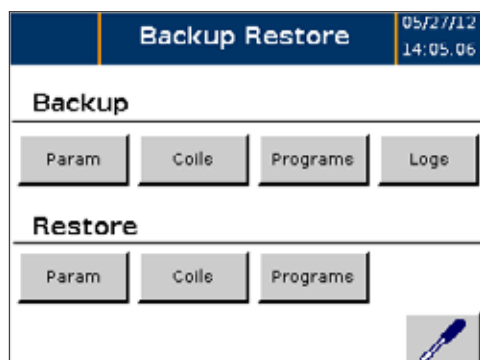
- Single or automatic mode
- Storing of programs in a large memory bank



COIL LIBRARY

Storing of different coils (own or customer related), for example entering coil width, weight or length, color quality, thickness etc.

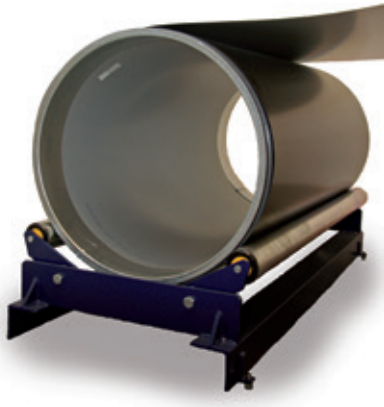
By entering the length of material in a coil, the automatic calculation processor will advise whether a coil has sufficient material for a certain program.



BACKUP RESTORE

This screen mode is used when doing back up of programs, parameters, coil library on a USB stick.

MANUAL DECOILERS 1 – 5 TONS CAPACITY



CRADLE

STANDARD FEATURES

- 4 supporting rolls
- Fixture for transportation of pallet jack



DO 2-12

STANDARD FEATURES

- Manual decoiler with single frame and expandable mandrel
- Brake system, manually adjusted



DC 5

STANDARD FEATURES

- Manual decoiler with mandrel
- Expandable mandrel with side guides
- Brake system, manually adjusted

Model	Coil Weight	Coil width	Capacity max.	Coil diameter	
	Kg (lbs)	mm (")	mm (ga.)	Inside mm (")	Outside mm (")
Cradle	1000 (2200)	1250 (49)	1.0 (20)		
DO 2-12	2000 (4400)	1250 (49)	1.5 (16)	360 – 520 (14 – 25)	850 (33)
DC 5-12	5000 (11000)	1250 (49)	1.5 (16)	360 – 630 (14 – 25)	1100 (43)
DC 5-15	5000 (11000)	1520 (60)	1.5 (16)	360 – 630 (14 – 25)	1100 (43)

MOTORIZED DECOILERS 5 – 10 TONS



Heavy duty motorized decoiler for 5 and 10 tons coils and high speed production.

Our Rotocoil decoiler is a unique innovation with an intelligent and clean design, where all parts are placed inside the structure, in order to prevent any damages in heavy industrial environments.

The Rotocoil communicates with the cut to length / slitting line, to ensure a smooth and fast production. The motor is frequency controlled and the decoiler reaches a speed of maximum 45 meters per minute.

The hydraulic mandrel has 4 support plates to maintain a perfect round shape of coil during expansion and mandrel is equipped with hydraulic wedges to keep the coil tight to the mandrel during decoiling process.

The Rotocoil is developed for high speed production.

The optical loop control sensor measures the distance from floor to the loop and makes sure the decoiler will start and stop decoiling smoothly.

STANDARD FEATURES

- Loop control
- Hand control
- Hydraulic expansion
- Frequency converter to control the speed

OPTIONS

- Coil wagon
- Wireless remote control
- Presser arm pneumatic (standard on Rotocoil 10-15)

Model	Coil Weight	Coil Width	Capacity max.	Speed	Motor	Coil diameter	
	Kg (lbs)	mm (")	mm (ga.)	m/min (ft/min)	kW	Inside mm (")	Outside mm (") max.
Rotocoil 5-15	5000 (11000)	1550 (61)	2.5 (12)	45 (150)	3.0 (4)	460 - 515 (18 - 21)	1300 (51)
Rotocoil 10-15	10000 (22000)	1550 (61)	2.5 (12)	45 (150)	7.5 (10)	460 - 580 (18 - 23)	1500 (59)

OPTIONS



The wireless remote control is an option to avoid cables and gives flexibility especially when changing and mounting coils, and is controlled by an optical sensor. This unit controls the following movements :

- Coil wagon up/down
- Coil wagon in/out
- Mandrel expansion in/out
- Mandrel rotation forward/backward
- Presser arm up/down



When working with heavy material, the pneumatic presser arm is essential to make sure the coil stays closed and to simplify changing/handling of coils.



The hydraulic coil wagon makes the changing and handling of coils safe, easy and quick.

The wagon is a very important feature as it will eliminate coil damage during fork lift loading (overhead crane) and unloading.

Model	Max coil width	Max coil weight	Horizontal stroke	Vertical stroke	Speed	Motor
	mm (")	ton	mm (")	mm (")	mm /min	kW (hp)
CW 5	1550 (61)	5	1650 (65)	300 (11.8)	9	0.75 (10)
CW 10	1550 (61)	10	1650 (65)	300 (11.8)	9	1.10 (1.5)

STACKING SYSTEMS



Our standard stacking systems are made for non-sensitive materials and comes in two different versions; 3 and 5 tons.

Solutions for sensitive materials are available on customer request.

The hydraulic scissor table moves automatically downwards, following the shearing process and is controlled by optical sensor.

The system includes adjustable side guides for better positioning of cut sheets.

The entire CTL line is mounted on linear guides and can be moved away from the stacking table in order to unload the material.

Model	Maximum load	Table size		Maximum stacking height
	Kg (lbs)	Width mm (")	Length mm (")	mm (")
ST 3000 - 12	3000 (6600)	1250 (49)	3100 (122)	500 (20)
ST 3000 - 15	3000 (6600)	1550 (61)	3100 (122)	500 (20)
ST 5000 - 12	5000 (11000)	1250 (49)	3100 (122)	500 (20)
ST 5000 - 15	5000 (11000)	1550 (61)	3100 (122)	500 (20)

RECOILING SYSTEMS RCO



We offer recoiling systems for sheet thickness max. 1 mm (20 ga) and 1,5 mm (16 ga). All systems are for maximum 5 tons recoiling capacity and coils widths 1250 mm and 1500 mm. All our systems are very compact and do not necessarily need a pit for the sheet loop.

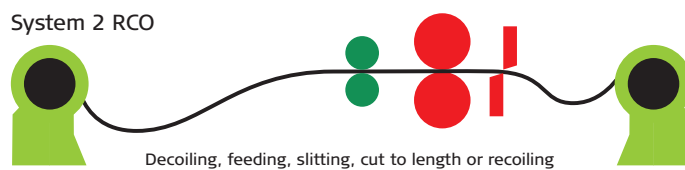
MAIN ADVANTAGES

- Perfect recoiling
- Compact design
- Low investment costs
- Easy operation
- Easy and quick change of coils

System 5 RCO



System 2 RCO



System 4 RCO



RECOILING SYSTEMS RCO



Our compact slitting and recoiling lines are especially suitable for suppliers of sheet metal, for example fabricators and sheet metal shops.
Our system has been proven for its adaptability for all kind of different operations.

STANDARD FEATURES

- Loop control
- Control system
- Sheet tensioner via pneumatic felt brake
- Sheet strip separators
- Motorized recoiler
- Recoiling mandrel manual expansion

OPTIONS

- Hydraulic expansion of mandrel (standard on RCO 5-15)
- Pneumatic presser arm (standard on RCO 5-15)
- Ejector plate (standard on RCO 5-15)
- Additional guiding disks (more than 5 strips)
- Manual rotary shear
- Electric rotary shear
- Higher speed

Model	Coil weight	Coil width	Material thickness	Min. strip width	Coil diameter		Speed max.	Motor
	Kg (lbs)	mm (")	mm (ga)	mm (")	inside mm (")	outside mm (")	m/min (ft/min)	kW (hp)
RCO 5 - 12	5000 (11000)	1250 (49)	0.4 -1.0 (28 - 20)	50 (2)	480-508 (19 - 20)	1200 (47)	25 (76)	11 (15)
RCO 5 - 15	5000 (11000)	1500 (49)	0.4 -1.5 (28 - 16)	50 (2)	480-508 (19 - 20)	1200 (47)	25 (76)	22 (30)

*at 400 N/mm² – 58000 psi –**at 700 N/mm²–87000 psi –***at 200 N/mm²–29000 psi

RAPIDO



The Rapido is a heavy built mechanical guillotine shear.

It will cut material thicknesses from minimum to maximum without any settings at all.

This shear again proves our philosophy regarding the environment as it uses only very little energy and has a very low noise level.

The shear is well equipped as standard and also has a wide range of options such as different back gauge systems, including sheet handling systems.

STANDARD FEATURES

- Sturdy, low noise gear motor
- Single or continuous stroke control
- Double edged blades
- LED cutting line light
- Finger protection
- Squaring arm with scale
- Table with measuring lines
- Spring loaded hold down beam

OPTIONS

- Manual back gauge 0 – 750 mm operated from the front side
- Motorized back gauge incl CutLink Control and ball screw spindles, 750 mm or 1000 mm
- Pneumatic sheet support including return plate (blanks to front side of shear)
- Pneumatic sheet support with movable blank wagon
- Pneumatic sheet support with rolls (blanks to rear side of shear)
- Pneumatic hold down beam
- Different safety guards for machine back side
- Table extension
- Adjustable angle gauge system with graduated scale
- Different squaring arms

Model	Cutting length	Capacity			Speed	Motor	Weight
	mm (")	Steel* mm (ga)	Stainless steel** mm (ga)	Aluminium*** mm (ga)	Cuts/min.	kW (hp)	Kg (lbs.) Approx.
Rapido 13	1350 (53)	3.50 (10)	2.00 (14)	6.00 (.236)	35	3,0 (4)	1400 (3100)
Rapido 20	2050 (80)	3.00 (11)	1.75 (15)	6.00 (.236)	35	3,0 (4)	1700 (3750)
Rapido 25	2550 (100)	2.50 (13)	1.50 (16)	5.00 (.196)	35	3,0 (4)	1900 (4200)
Rapido 30	3100 (122)	2.50 (13)	1.50 (16)	5.00 (.196)	35	3,0 (4)	2100 (4630)

*at 400 N/mm² – 58000 psi – **at 700 N/mm²–87000 psi – ***at 200 N/mm²–29000 psi



Model MS-R is the strongest shear in CIDAN's program. The MS-R is supplied with blade gap adjustment as a standard feature.

The blade gap adjustment makes it possible to achieve the best cutting result in all kind of sheet thicknesses. The blade gap is set quickly and correctly via two handles, and the size of the blade gap is read off scales.

The rail arrangements on the table can be combined to meet the customer's demands – squaring arm and table extensions are available in different lengths with groove, tilting stops and scales. Plastic coated rails are offered as an option.

STANDARD FEATURES

- Sturdy, low-noise gear motor
- Single or continuous stroke control
- Double edged blades
- Finger protection
- Blade gap adjustments
- Manual back gauge 0 – 750 mm (0-29")
- Spring loaded hold down beam

OPTIONS

- Motorized back gauge with fine adjustment by hand wheel
- Programmable motorized back gauge
- Sheet support with return plate (blanks to front side of shear)
- Pneumatic sheet support with rolls (blanks to rear side of shear)
- Pneumatic hold down
- Adjustable squaring arm with graduated scale
- Cutting line light
- Safety guard – mechanical or with light guard
- Squaring arm 650 mm or 1000 mm

Model	Cutting length	Capacity			Speed	Motor	Weight
	mm (")	Steel* mm (ga)	Stainless steel** mm (ga)	Aluminium*** mm (ga)	Cuts/min.	kW (hp)	Kg (lbs.) Approx.
MS-R 13	1350 (53)	4.50 (8)	2.00 (13)	6.00 (.236)	30	5.5 (7.5)	1270 (2800)
MS-R 20	2050 (80)	4.00 (9)	2.25 (14)	6.00 (.236)	30	5.5 (7.5)	1635 (3605)
MS-R 25	2550 (100)	4.00 (9)	2.25 (14)	6.00 (.236)	30	5.5 (7.5)	1890 (4167)
MS-R 31	3100 (122)	4.00 (9)	2.25 (14)	6.00 (.236)	30	5.5 (7.5)	2180 (4806)
MS-R 40	4050 (159)	2.00 (14)	1.25 (18)	3.25 (.128)	30	5.5 (7.5)	2670(5778)

*at 400 N/mm² – 58000 psi –**at 700 N/mm²–87000 psi –***at 200 N/mm²–29000 psi

SHEET HANDLING SYSTEMS

When cutting thin materials the sheet must be supported during measuring. A sheet support system prevents the material from hanging down until it reaches the back gauge rail.

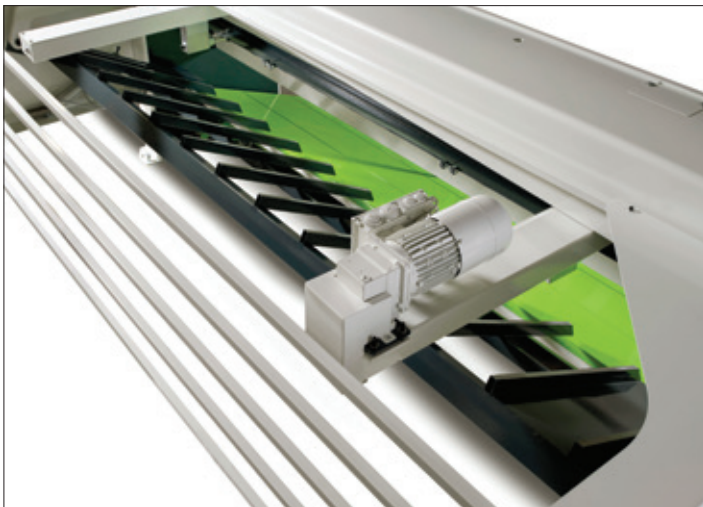
Furthermore, Rapido and MS-R shears can be supplied with different systems to deliver the cut-off sheets to the front or to the rear of the machine.



SHEET SUPPORT WITH DELIVERY TO THE FRONT

SHEET SUPPORT WITH RETURN PLATE

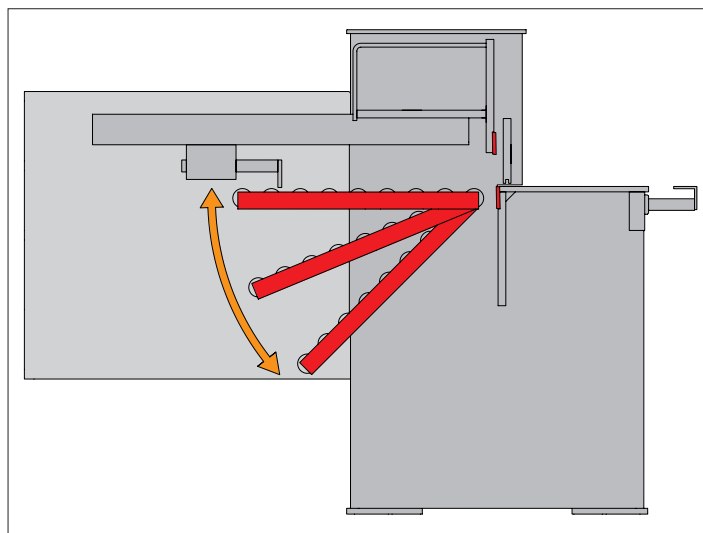
Delivers the cut-off sheets to the front of the shear. The sheet support is activated by a gas spring and is easy to connect and disconnect.



SHEET SUPPORT WITH DELIVERY TO THE REAR

PNEUMATIC SHEET SUPPORT WITH ROLLS

Delivers the cut-off sheets to the rear of the machine.



MEASURING SYSTEMS



MANUAL BACK GAUGE

0-750 mm (0-29.5").

Via hand wheel and scale.

Not available with sheet support systems.



MOTOR DRIVEN BACK GAUGE

0-750 mm (0-29.5") or 0-1000 mm (0-39.3").

Motor driven back gauge with manual fine adjustment.

Only available with acme spindles.

Only available for MS-R.



PROGRAMMABLE BACK GAUGE - CUTLINK

This motor driven back gauge is a fast and accurate positioning system, with many interesting features for easier handling of sheets, like selection of position of the sheet support. Even the movement of the hold down bar can be controlled separately.

Only available for RAPIDO

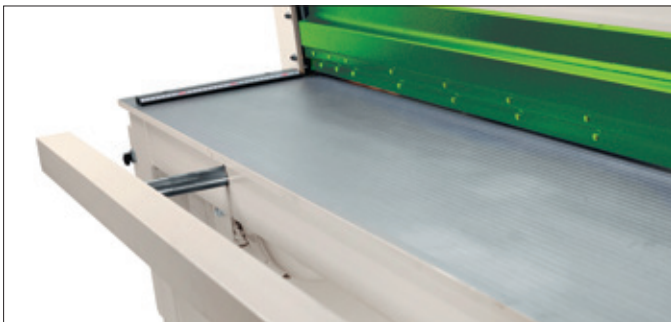


TABLE EXTENSION

Support can be extended to 800 mm (31.5") from the cutting line.



SQUARING ARM

Squaring arm with T-groove for tilting stop.

Available in 650 mm (25.5") or 1000 mm (39.3").



ANGLE GAUGE

Adjustable angle gauge with graduated scale.

OUR COMPANIES



Petersen Machinery markets the brands CIDAN and GÖTENEDS world wide, and our machines are sold via dealers and agents in more than 30 countries.

For more than 60 years our factories have produced sheet metal machinery, and together the factories offer one of the widest machine programmes on the market.

Our machines are produced in comprehensive production facilities of totally more than 11.000 m² (100.000 sq ft).

All our machine concepts are based on our own developments and our own patents, and we focus on flexible and simple-to-use solutions of the highest quality.

This catalogue is one of 2 showing our wide programme of sheet metal machinery.



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