



BARFIDE[®]

Parts catchers & Spindles reduction

CATALOGUE

BARFIDE®

Parts catchers & Spindles reduction

BARFIDE has been designing and creating machine tool peripheral products and spindle reduction tubes since 2008.

BARFIDE has been a brand of ERRIC GROUPE since May 2021.

BARFIDE constantly invests, to offer you ever more innovative products.

Quality and reliability are our primary concerns.



BARFIDE PRODUCTS LET YOU:

- Increase productivity.
- Increase the autonomy of your production equipment.
- Reduce sorting and inspection times.
- Reduce scrap.
- Reduce impacts on parts.

PRESENTATION OF THE RANGE

SORTERS WITH CONTAINERS

- SP0: Ø 125 mm to Ø 180 mm
- SP1: Ø 200 mm to Ø 350 mm
- SP1-INDEX MS16



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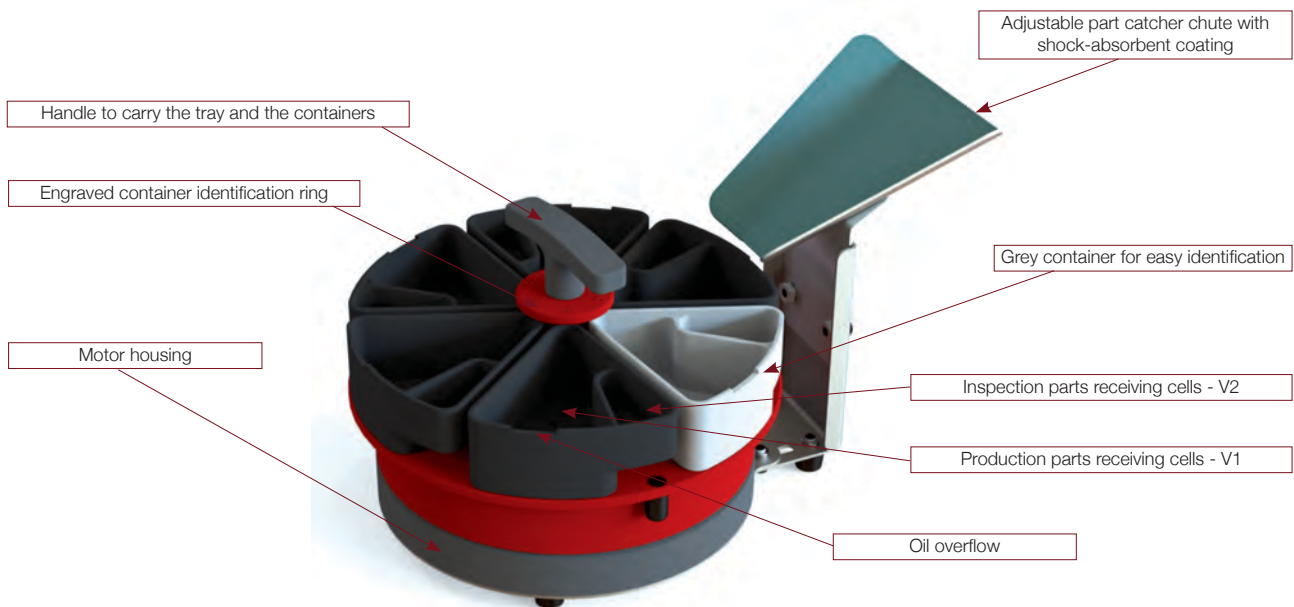
MACHINE COWLING

- CP



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SORTER WITH CONTAINERS: SPO



SEPARATE CONTROL UNIT, TWO TYPES OF UNIT: TEMPO OR TACTILE

Turntable to collect parts that come out of the machine and to separate the inspection parts.

The parts collector disc is divided up by six containers, each with one dish to collect production parts and a second, smaller dish for the inspection parts to be collected separately.

The whole assembly is resistant to cutting oils and shavings, and can be incorporated into the inside of the machining centres.

The top part is interchangeable according to the size of the parts to be processed.

The sorter has an electric motor powered at 24 Vdc.

It can be powered directly from the machining centre, or via a 200-Vac/24-Vdc transformer.

- **“TEMPO”** consisting of an On/Off button, a time delay for the production part (V1) and a time delay for the sampling part (V2). The time delays must be set according to the desired cycle time and number of parts.

- **“TACTILE”** consisting of an On/Off button and a touch screen to configure the number of production parts (V1) and the number of sample parts (V2). A 24-Vdc input counts the parts via signals from the machining centre.

There are two versions of each type of unit: magnet at the top, or magnet at the back.

ELECTRICAL CONNECTIONS:

- Power supply cable kit (M12 5-core cable, length 5 m).
- Internal power supply kit (24-V 2.5-A power supply / M12 bulkhead gland fitting / M12 5-core cable, length 5 m).
- External power supply kit (cable with a 24-V transformer).



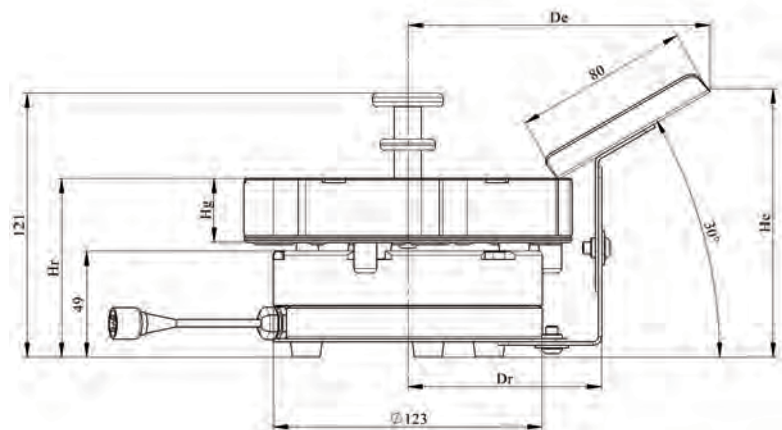
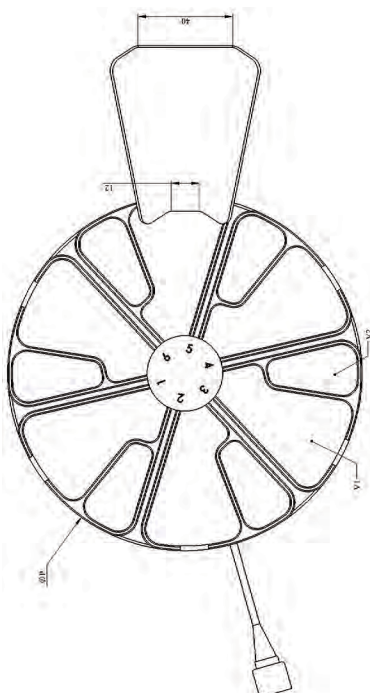


PRODUCT CHARACTERISTICS

- Red and grey anodised aluminium drive block.
- 24-Vdc motor.
- Moving tray with built-in sampling containers.
- Three possible configurations: Ø125 / Ø150 / Ø180 mm.
- Adjustable ramp.
- Maximum rate: 3 seconds/part.
- 1 container of the 6 is a different colour, to indicate the progression of the SP0 at a glance.
- Bulk storage with tolerance to impacts between the parts.
- Minimum dimensions of parts = Ø1 mm, length 1 mm.
- Maximum dimensions of parts = Ø5 mm, length 15 mm.

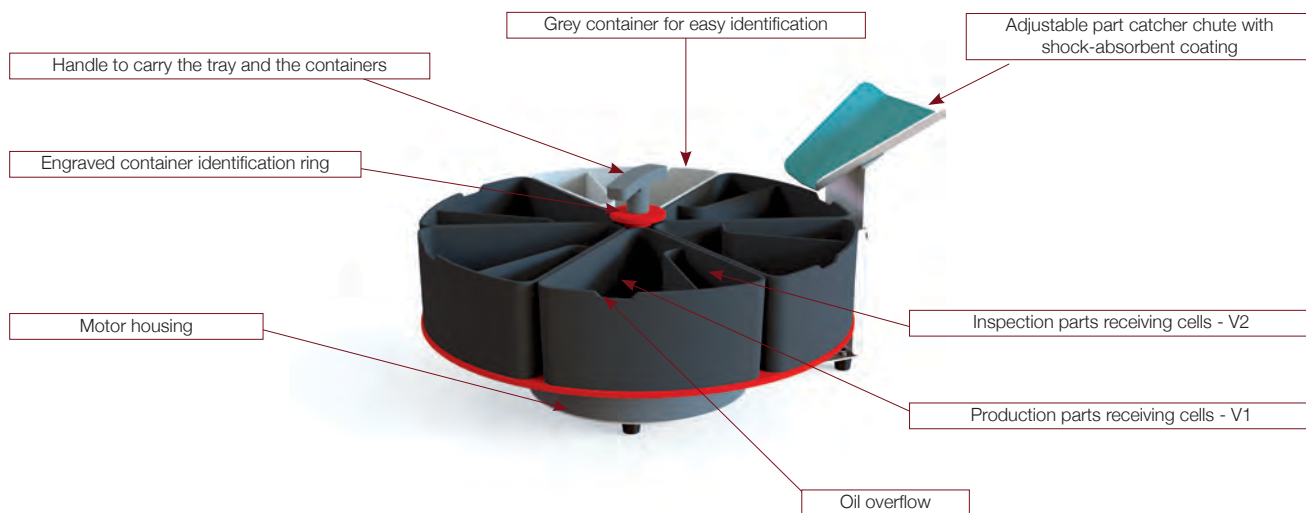


SPECIAL MANUFACTURE ON REQUEST



ØP	Ø 125mm	Ø 150mm	Ø 180mm
Hg	30mm	40mm	
Hr	85mm	95mm	
He	125mm	135mm	
Dr	76.5mm	89mm	104mm
De	126.5mm	139mm	154mm
V1	20cm ³	32cm ³	65cm ³
V2	3cm ³	8cm ³	15cm ³

SORTER WITH CONTAINERS: SP1



Turntable to collect parts that come out of the machine and to separate the inspection parts.

The parts collector disc is divided up by six containers, each with one dish to collect production parts and a second, smaller dish for the inspection parts to be collected separately.

The whole assembly is resistant to cutting oils and shavings, and can be incorporated into the inside of the machining centres.

The top part is interchangeable according to the size of the parts to be processed.

The sorter has an electric motor powered at 24 Vdc.

It can be powered directly from the machining centre, or via a 200-Vac/24-Vdc transformer.

SEPARATE CONTROL UNIT, TWO TYPES OF UNIT: TEMPO OR TACTILE

- **“TEMPO”** consisting of an On/Off button, a time delay for the production part (V1) and a time delay for the sampling part (V2). The time delays must be set according to the desired cycle time and number of parts.

- **“TACTILE”** consisting of an On/Off button and a touch screen to configure the number of production parts (V1) and the number of sample parts (V2). A 24-Vdc input counts the parts via signals from the machining centre.

There are two versions of each type of unit: magnet at the top, or magnet at the back.

ELECTRICAL CONNECTIONS:

- Power supply cable kit (M12 5-core cable, length 5 m).
- Internal power supply kit (24-V 2.5-A power supply / M12 bulkhead gland fitting / M12 5-core cable, length 5 m).
- External power supply kit (cable with a 24-V transformer).



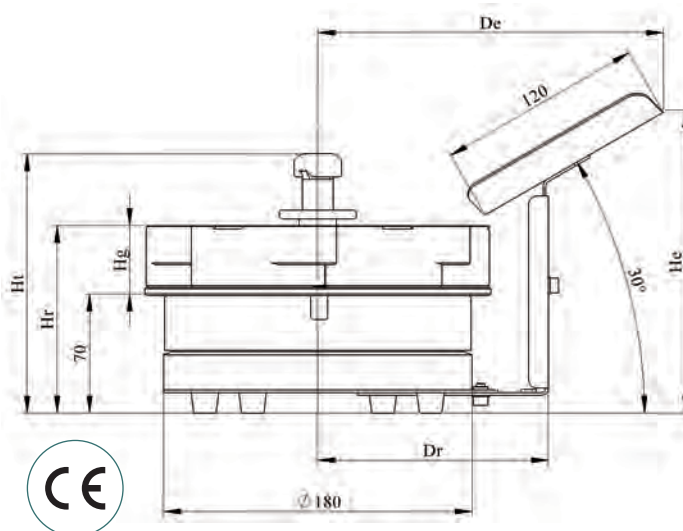
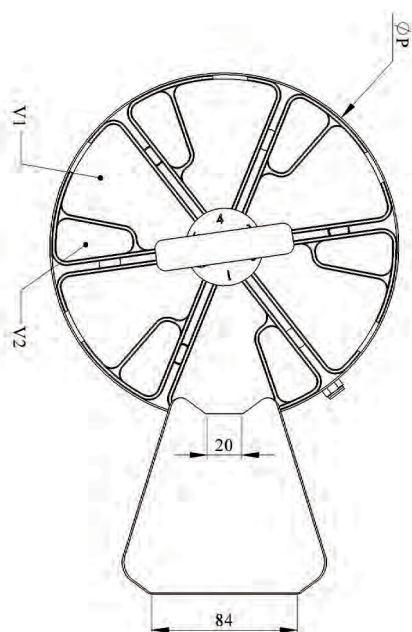


PRODUCT CHARACTERISTICS

- Red and grey anodised aluminium drive block.
 - 24-Vdc motor.
 - Moving tray with built-in sampling containers.
 - Three possible configurations with plastic containers, built-in sampling Ø200 / Ø275 / Ø350 mm.
 - Two possible configurations with steel containers, separate sampling Ø350 H130 mm and Ø350 H210 mm.
 - Adjustable ramp.
 - Maximum rate: 4 seconds/part.
 - 1 plastic container of the 6 is a different colour, to indicate the progression of the SP1 at a glance.
-
- Bulk storage with tolerance to impacts between the parts.
 - Minimum dimensions of parts = Ø1 mm, length 1 mm.
 - Maximum dimensions of parts = Ø40 mm, length 100 mm.

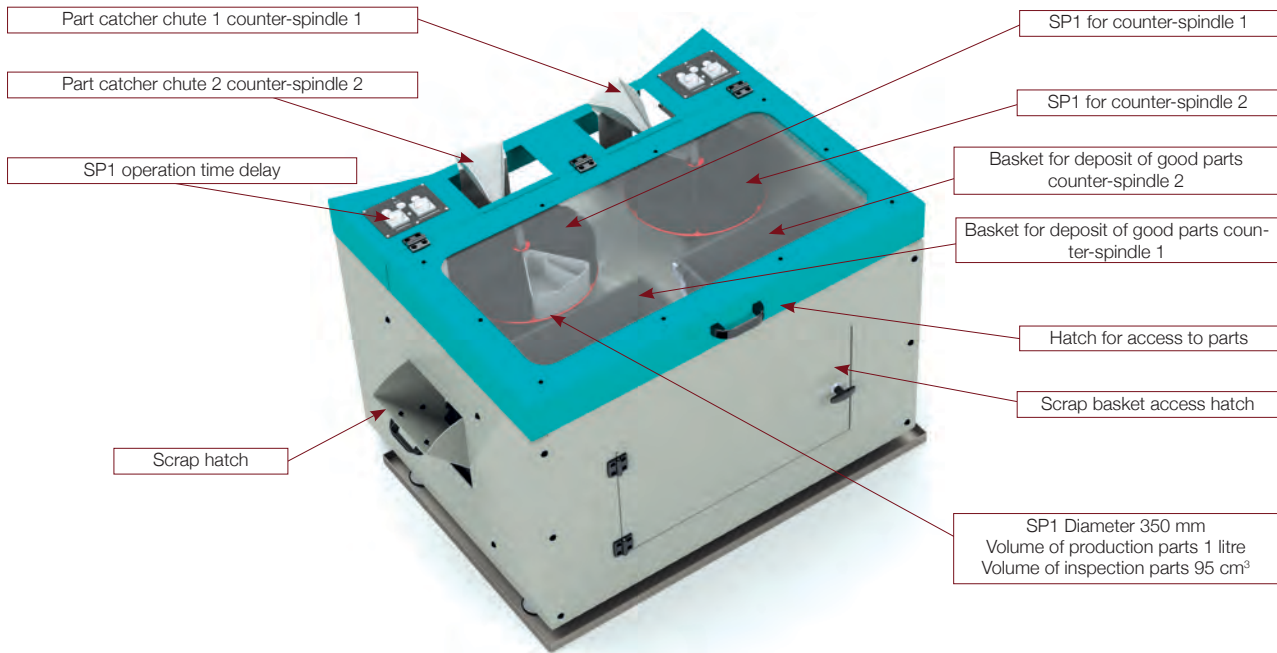


SPECIAL MANUFACTURE ON REQUEST



ØP	Ø 200mm	Ø 275mm	Ø 350mm		
Hg	40mm	50mm	70mm	130mm	210mm
Hr	110mm	120mm	140mm	200mm	280mm
Ht	152mm	190mm		200mm	280mm
He	178mm	188mm	208mm	268mm	348mm
Dr	134.5mm	172mm	209.5mm		
De	201.5mm	239mm	276.5mm		
V1	94cm ³	251.5cm ³	595.5cm ³	1L	2L
V2	14.5cm ³	49.5cm ³	121.5cm ³	117.5cm ³	

SORTER WITH CONTAINERS: SP1-INDEX MS16



SEPARATE CONTROL UNIT, TWO TYPES OF UNIT: TEMPO OR TACTILE

Turntable to collect parts that come out of the machine and to separate the inspection parts.

The parts collector disc is divided up by six containers, each with one dish to collect production parts and a second, smaller dish for the inspection parts to be collected separately.

The whole assembly is built into a structure made of sheet metal, so it can be perfectly integrated into an INDEX MS16 multi-spindle lathe.

The sorter has an electric motor powered at 24 Vdc. It can be powered directly from the machining centre, or via a 200-Vac/24-Vdc transformer.

- **“TEMPO”** consisting of an On/Off button, a time delay for the production part (V1) and a time delay for the sampling part (V2). The time delays must be set according to the desired cycle time and number of parts.

- **“TACTILE”** consisting of an On/Off button and a touch screen to configure the number of production parts (V1) and the number of sample parts (V2). A 24-Vdc input counts the parts via signals from the machining centre.

There are two versions of each type of unit: magnet at the top, or magnet at the back.

ELECTRICAL CONNECTIONS:

- Power supply cable kit (M12 5-core cable, length 5 m).
- Internal power supply kit (24-V 2.5-A power supply / M12 bulkhead gland fitting / M12 5-core cable, length 5 m).
- External power supply kit (cable with a 24-V transformer).

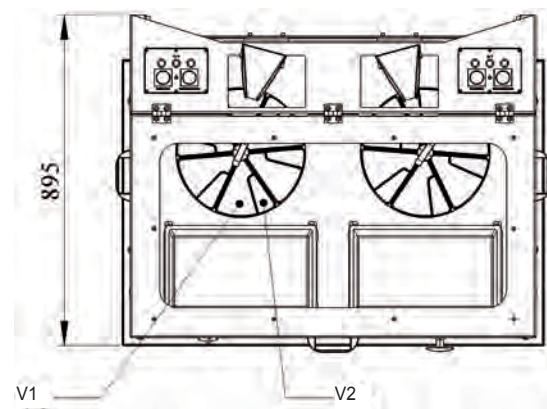
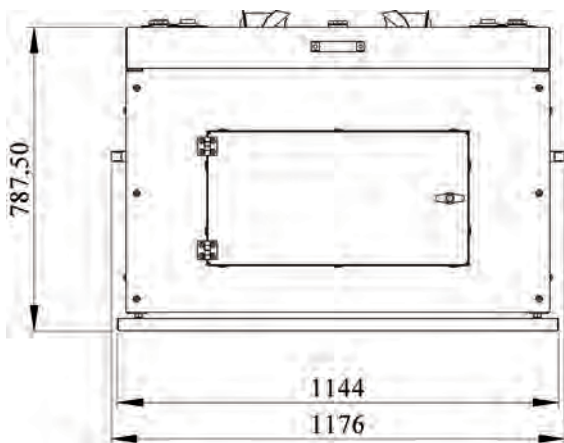




PRODUCT CHARACTERISTICS

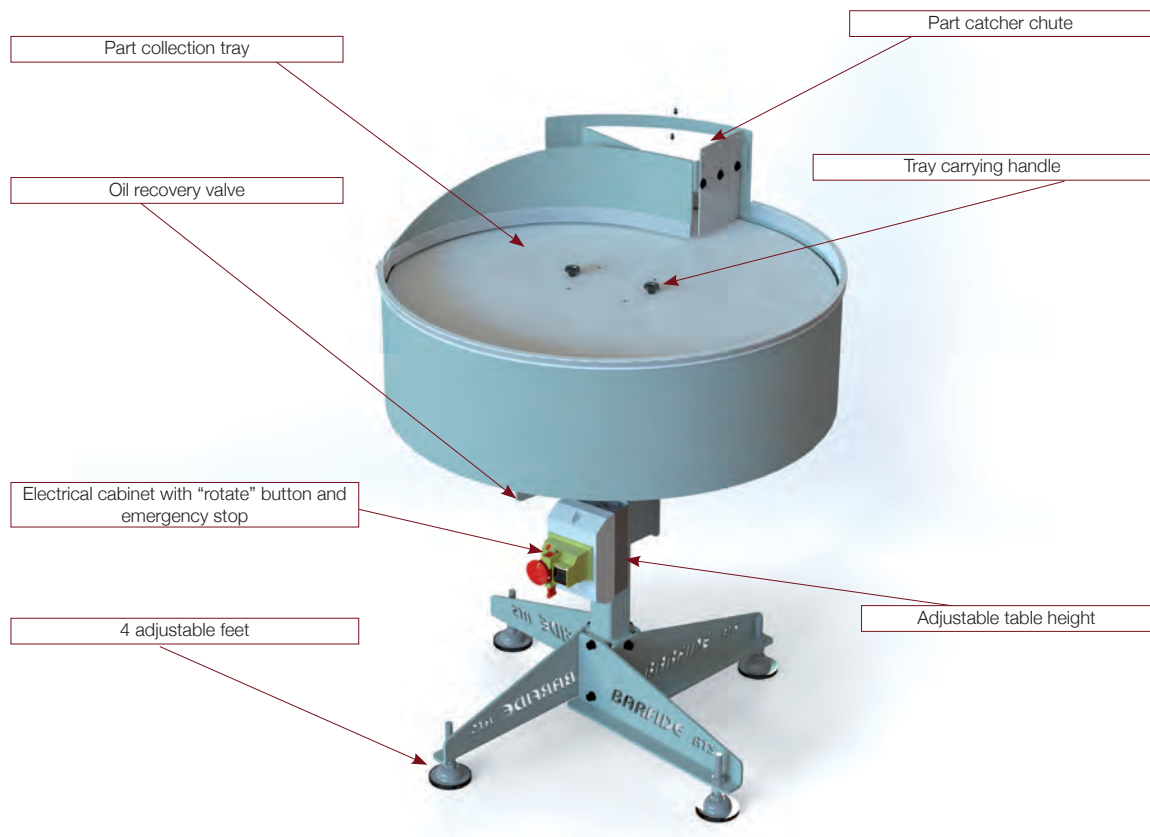
- Anodised aluminium drive block.
 - 24-Vdc motor.
 - One possible configuration with plastic containers, built-in sampling Ø350 mm, height 70 mm.
 - One possible configuration with steel containers, separate sampling Ø350 H130 mm.
 - Adjustable ramp ± 9 mm.
 - Maximum rate: 4 seconds/part.
 - 1 plastic container of the 6 is a different colour, to indicate the progression of the SP0 at a glance.
 - Possibility of removing the tray with all of its containers together, if they are plastic containers, or removing the containers one by one, if they are steel containers.
 - Basket (410x250x125) for good parts, unoccupied beside the SP1(s).
 - Basket (410x250x125) for scrap parts, centred in front of hatches in a lower compartment.
 - Built-in pipe on upper collection tank.
 - Scrap compartment collection tank and floor tank to be emptied manually.
 - Height-adjustable feet.
-
- Bulk storage with tolerance to impacts between the parts.
 - Minimum dimensions of parts = Ø1 mm, length 1 mm.
 - Maximum dimensions of parts = Ø40 mm, length 100 mm.

SPECIAL MANUFACTURE ON REQUEST



	SP (single, plastic containers)	DP (double, plastic containers)	SA (single, steel containers)	DA (double, steel containers)
V1	595.5 cm ³		1L	
V2	121.5 cm ³		117.5 cm ³	

ACCUMULATION TABLE: ATS



The ATS turntable is used to collect parts coming out of machining centres whilst avoiding impacts.

This turntable is powered simply at 400 Vac, and rotates so that it collects the parts at its middle, without them colliding with one another.

All surfaces in contact with parts, and the tray, are coated in a shock-absorbent material.

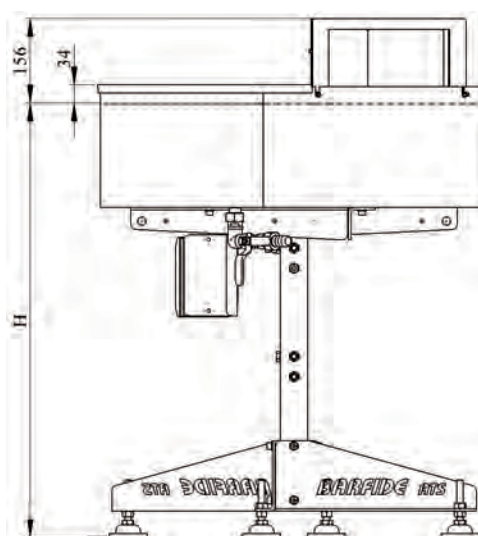
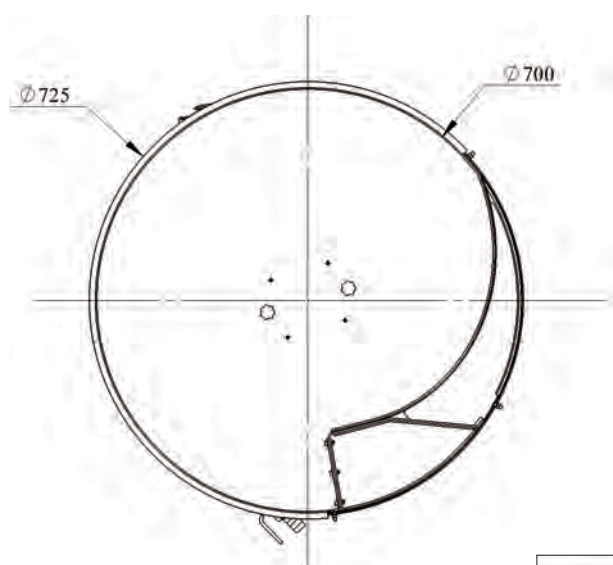
Oils are evacuated at the edge of the tray and collected in the table. A manual 1/4-turn valve is used to drain the table.



PRODUCT CHARACTERISTICS

- Ø700 mm turntable with shock-absorbent coating (Chavand 80SHA 3 mm thick).
- Tray height varying from 600 mm to 800 mm or 800 mm to 1000 mm.
- Height adjustment: sliding tube/tube perforated every 25 mm, locked by a screw.
- Maximum dimensions of parts = Ø65x100 mm.
- Minimum dimensions of parts = Ø8x8 mm.
- Spherical parts are not recommended.
- Collection tank with drain valve, return height 330 to 530 mm or 530 to 730 mm.
- Inside Ø of oil return pipe = 21 mm.
- Turntable rotation speed = 1 rpm.
- Max. rate = 8 seconds / part for the biggest parts.
- Max. rate = 3 seconds / part for the smallest parts.
- Allowable weight: 50 kg uniformly distributed.
- Circuit breaker box with built-in emergency stop button.
- Power supply voltage = 400V, 3 Phases + Earth.
- Frequency 50 Hz.
- Power consumption = 0.09 KVA.
- Two types of electrical connection: Canalis or Machine.
- Colour: RAL 7035 grey.

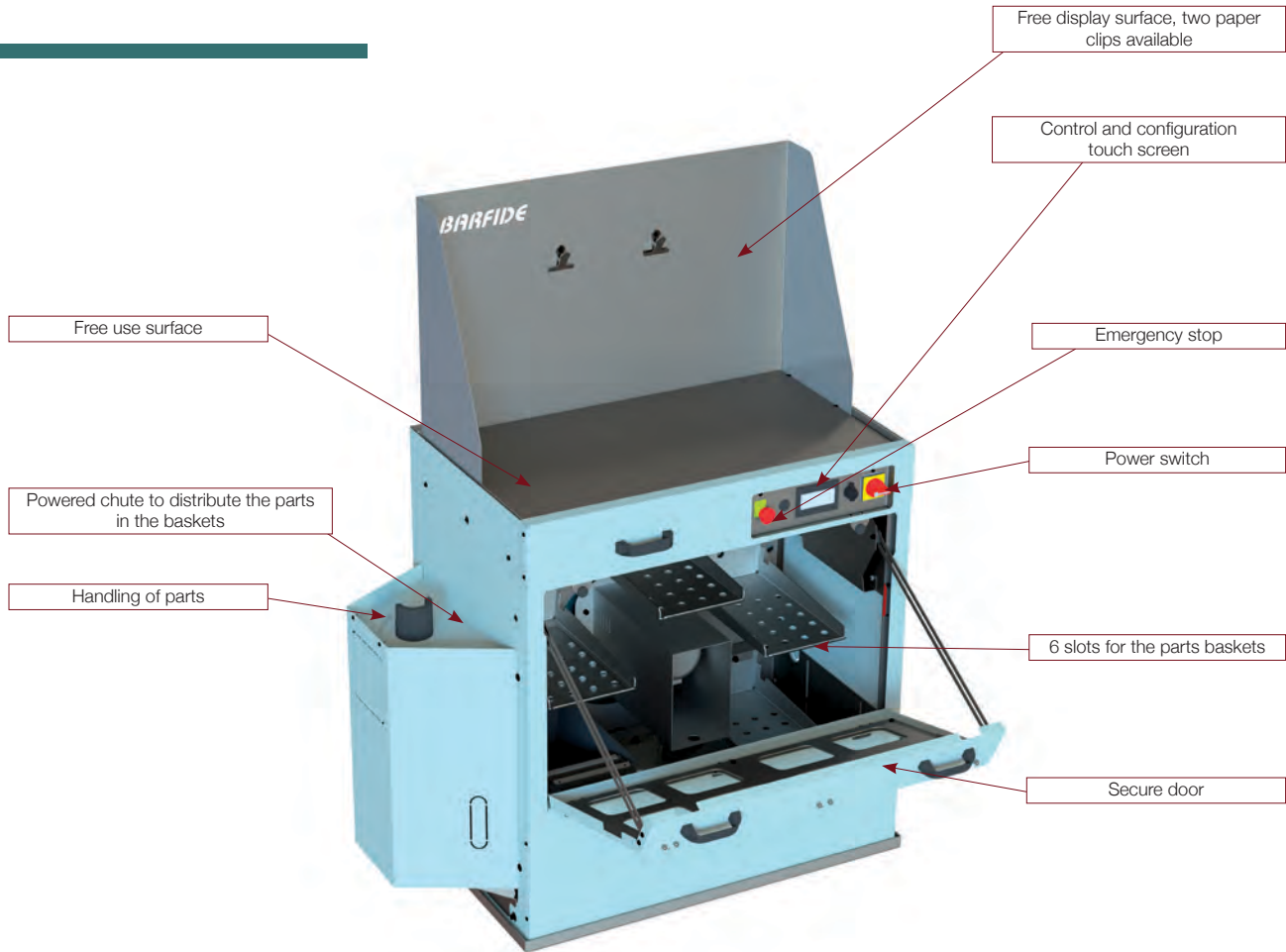
SPECIAL MANUFACTURE ON REQUEST



	Min.	Max.
H	600	800
	800	1000



PARTS CATCHER WITH BASKETS: SPR



THE SPR PARTS CATCHER CAN:

- Increase productivity.
- Increase the autonomy of your production equipment.
- Reduce sorting and inspection times.

With BARFIDE technology, SPR collects parts coming out of your lathes and machining centres.

BARFIDE technology allows significant autonomy with a reduced footprint. Its chassis can accommodate six baskets.

This SPR consists of a work surface available for the use of inspection instruments and production tracking sheets.

Control from the touch screen console: the operator inputs the number of parts per basket and the number of sampled parts to be isolated per basket.

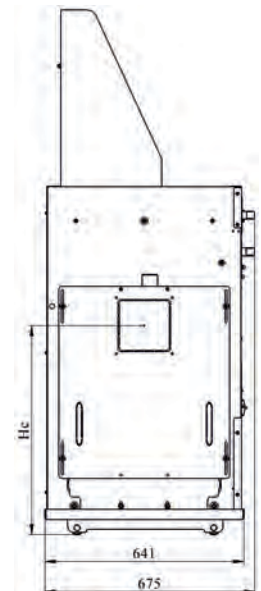
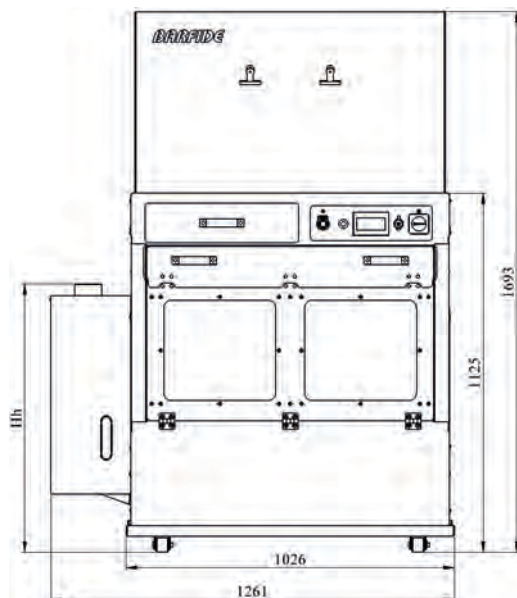
The touch screen can also be used to track the filling of the baskets.



PRODUCT CHARACTERISTICS

- Autonomy of six baskets of dimensions 200x380x130 (Novel MD410 basket).
- Min. vertical inlet height = 745 mm, max = 845 mm.
- Min. lateral inlet height = 585 mm / max = 685 mm.
- Version with part infeed to the right or left.
- Version with vertical or lateral part infeed.
- Part contained, without restriction, in a sphere of min. $\varnothing = 10$ mm / max. $\varnothing = 50$ mm.
- Maximum rate: 3 seconds/part.
- 3.8" touch screen to configure the number of production parts.
- Power consumption: 2.3 KVA.
- Rated voltage: 220 V.
- Number of phases: 1PH + N + Earth.
- Counting from an external signal supplied by the machining centre.
- Colour: RAL 7035 GREY.

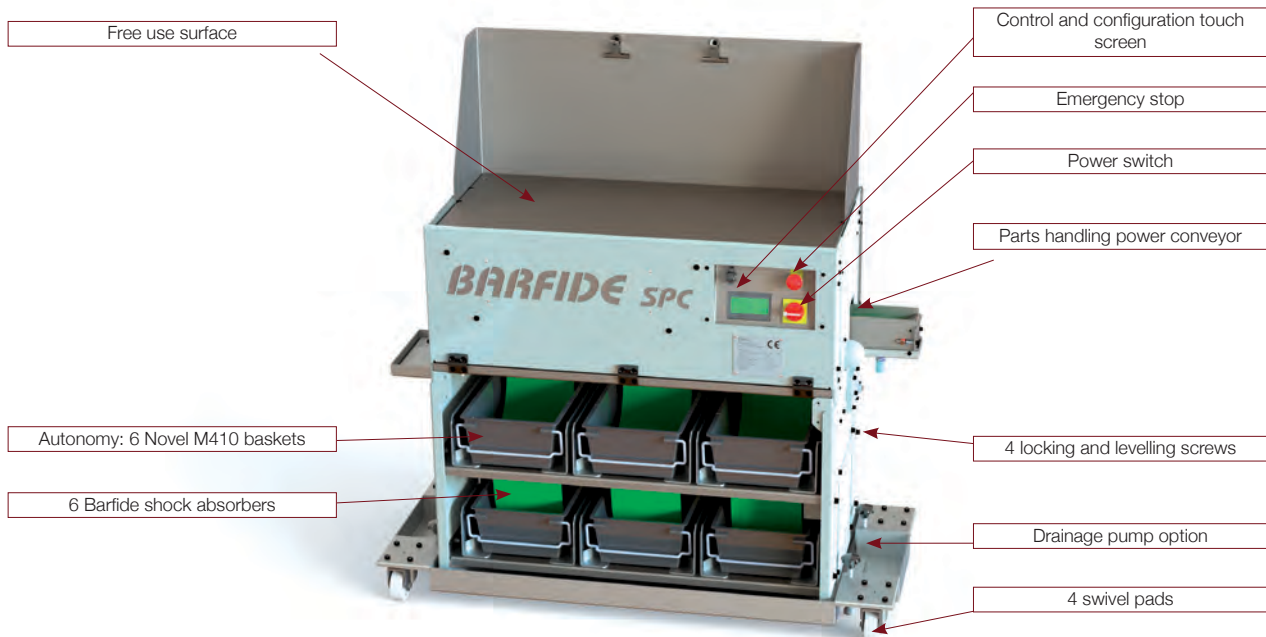
SPECIAL MANUFACTURE ON REQUEST



	Min.	Max.
Hh	745	845
Hc	585	685



PARTS CATCHER WITH BASKETS: SPC



THE SPC PARTS CATCHER WITH SHOCK ABSORBER CAN:

- Increase productivity.
- Increase the autonomy of your production equipment.
- Reduce sorting and inspection times.
- Reduce scrap.

With BARFIDE shock-absorbent technology, SPC collects parts coming out of your lathes and machining centres.

BARFIDE technology allows significant autonomy with a reduced footprint. Its chassis can accommodate six baskets.

Each of the filling points is equipped with the BARFIDE shock absorber system.

This SPC consisting of a work surface is available for the use of inspection instruments and production tracking sheets.

Control from the touch screen console: the operator inputs the number of parts per basket.

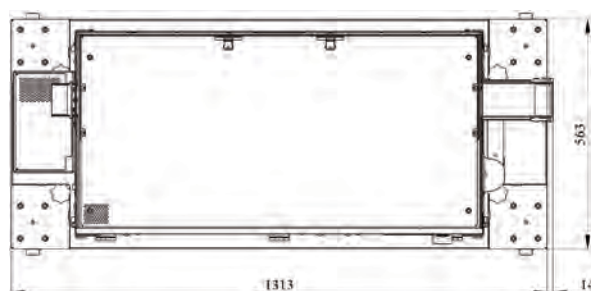
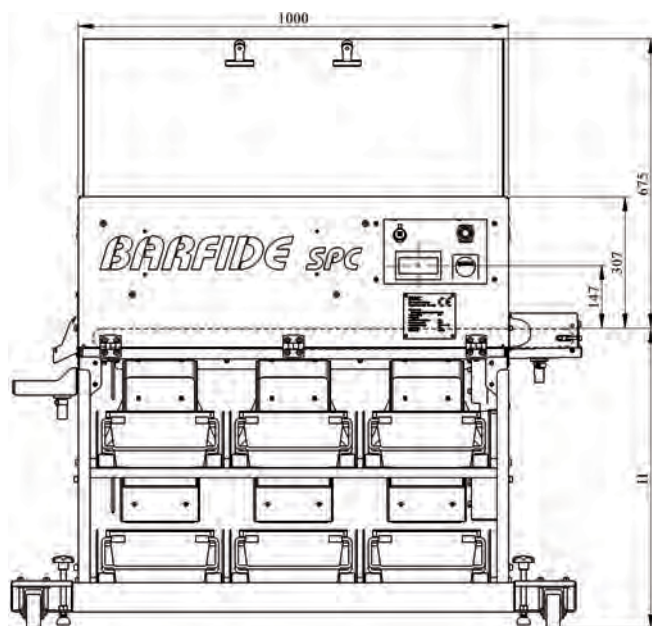
The touch screen can also be used to track the filling of the baskets.



PRODUCT CHARACTERISTICS

- Autonomy of six baskets of dimensions 200x380x130 (Novel MD410 basket).
- Min. conveyor belt height = 700 mm, max = 935 mm.
- Version with part infeed to the right or left.
- Parts: min. $\varnothing = 3$ mm / max. $\varnothing = 35$ mm. Min. length = 3 mm / max. length = 120 mm.
- Washer type parts $\varnothing > 4 \times$ length.
- Long parts, length $> 4 \times \varnothing$.
- Spherical parts are prohibited.
- Max. rate with shock absorption: 5 seconds/part.
- Max. rate without shock absorption: 3 seconds/part.
- 3.8" touch screen to configure the number of production parts.
- Power consumption: 1.4 KVA.
- Rated voltage: 220 V.
- Number of phases: 1PH + N + Earth.
- Colour: RAL 7035 GREY.

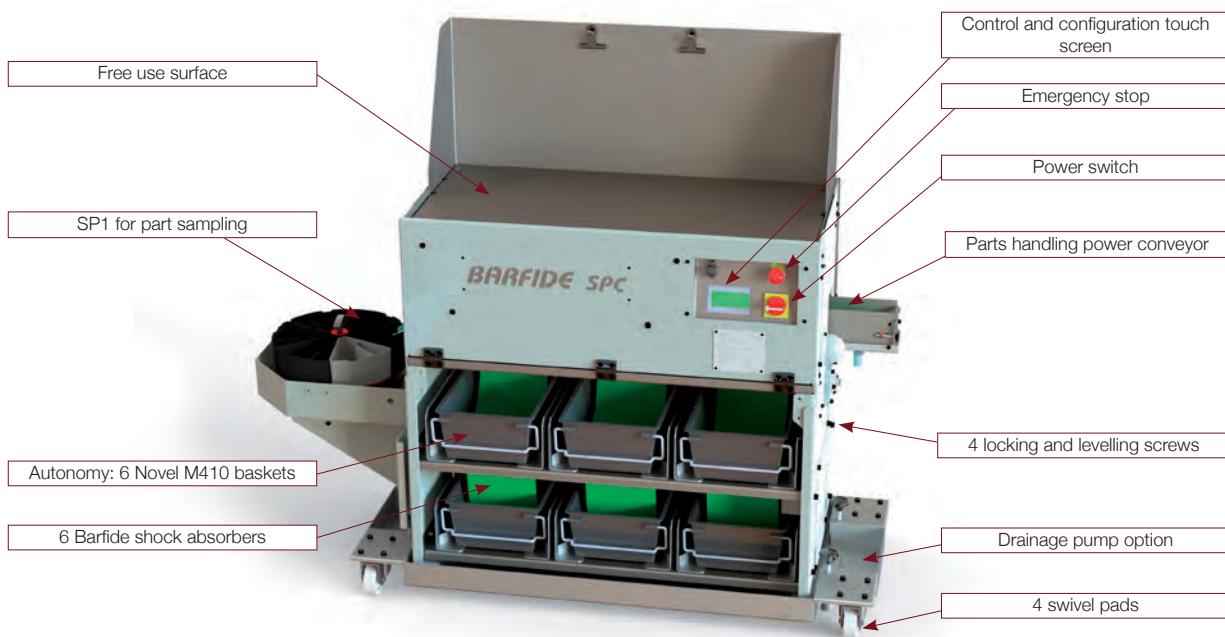
SPECIAL MANUFACTURE ON REQUEST



H	Min.	Max.
	700	935



SAMPLING PARTS CATCHER WITH BASKETS: SPC P



THE SPC P PARTS CATCHER WITH SHOCK ABSORBER CAN:

- Increase productivity.
- Increase the autonomy of your production equipment.
- Reduce sorting and inspection times.
- Reduce scrap.

With BARFIDE shock-absorbent technology, the SPC.P collects parts coming out of your lathes and machining centres.

BARFIDE technology allows significant autonomy with a reduced footprint. Its chassis can accommodate six baskets.

Each of the filling points is equipped with the BARFIDE shock absorber system. This SPC.P consisting of a work surface is available for the use of inspection instruments and production tracking sheets.

Control from the touch screen console: the operator inputs the number of parts per basket and the number of sampling parts to be isolated per basket.

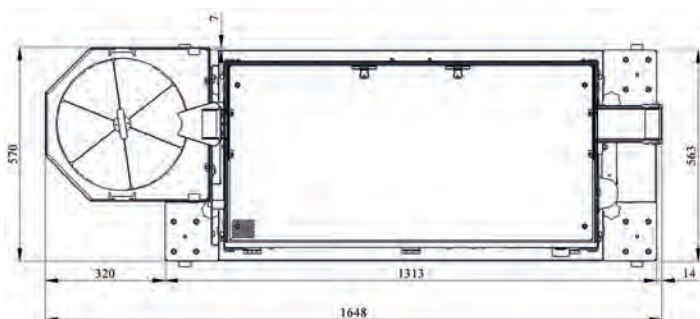
The touch screen can also be used to track the filling of the baskets.



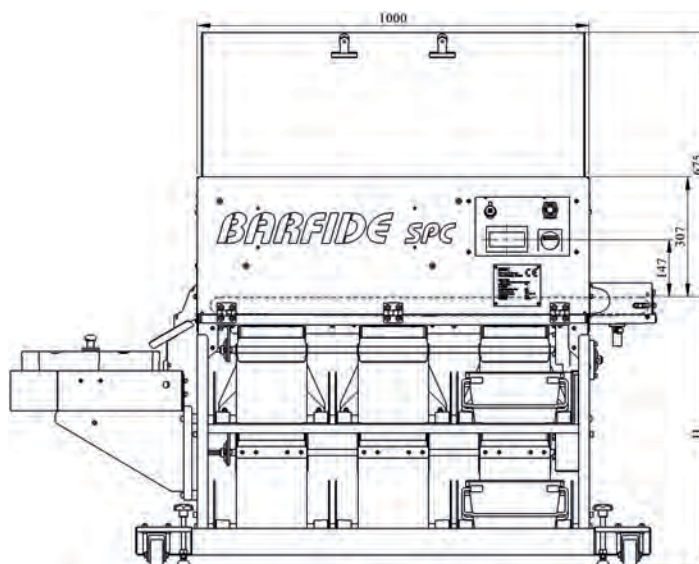
PRODUCT CHARACTERISTICS

- Autonomy of six baskets of dimensions 200x380x130 (Novel MD410 basket).
 - Min. conveyor belt height = 700 mm, max = 935 mm.
 - Version with part infeed to the right or left.
 - Sampling per basket with SP1 at end of conveyor.
-
- Parts: min. $\varnothing = 3$ mm / max. $\varnothing = 35$ mm. Min. length = 3 mm / max. length = 120 mm.
 - Washer type parts $\varnothing > 4 \times$ length.
 - Long parts, length $> 4 \times \varnothing$.
 - Spherical parts are prohibited.
-
- Max. rate with shock absorption: 5 seconds/part.
 - Max. rate without shock absorption: 3 seconds/part.
 - 3.8" touch screen to configure the number of production parts and the number of sampling parts.
 - Power consumption: 1.4 KVA.
 - Rated voltage: 220 V.
 - Number of phases: 1PH + N + Earth.
-
- Colour: RAL 7035 GREY.

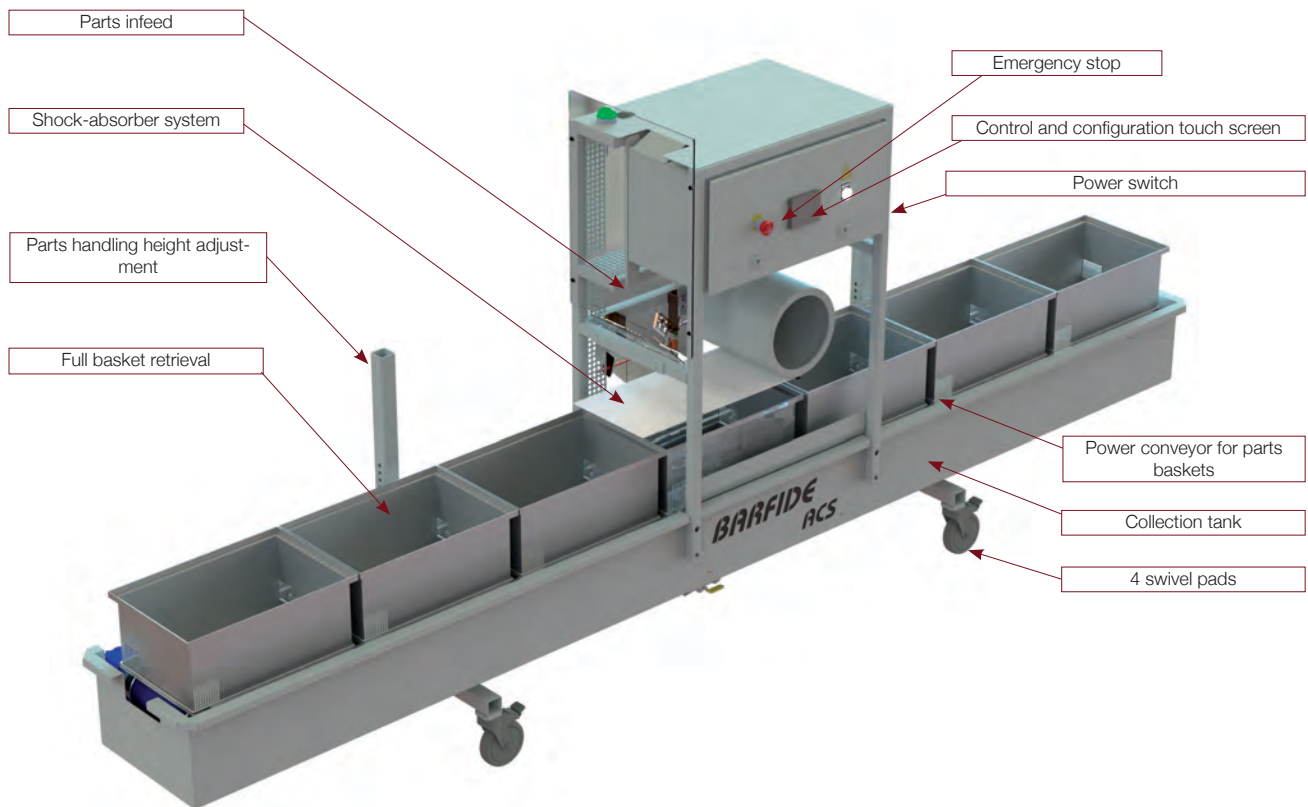
SPECIAL MANUFACTURE ON REQUEST



	Min.	Max.
H	700	935



ANTI CHOC SYSTEM: ACS XP



THE ACS PARTS CATCHER WITH SHOCK ABSORBER CAN:

- Increase the autonomy of your production equipment.
- Reduce scrap.

With BARFIDE shock-absorbent technology, the ACS XP system collects parts coming out of your lathes and machining centres.

Its chassis can accommodate X baskets. The filling point is equipped with the BARFIDE shock absorber system.

The baskets can also be configured in length, width, and height.

Control from the touch screen console: the operator inputs the number of parts per basket.

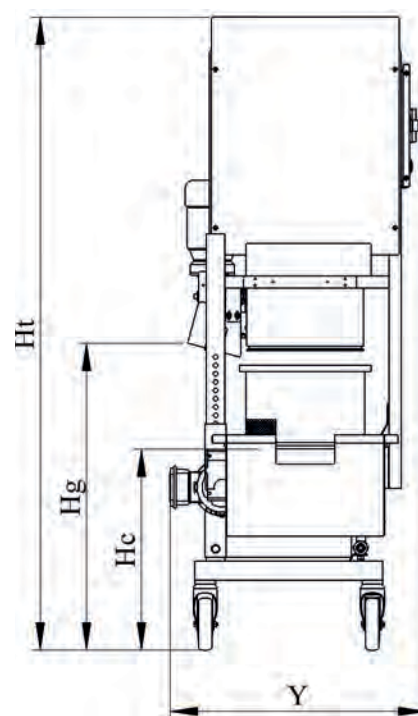
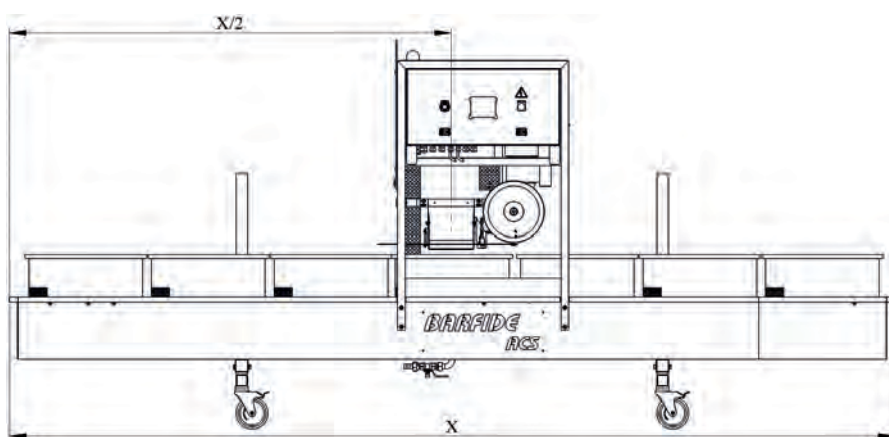
The touch screen can also be used to track the filling of the baskets.



PRODUCT CHARACTERISTICS

- Configurable autonomy.
- Configurable basket.
- Parts: min. $\varnothing = 3$ mm / max. $\varnothing = 35$ mm. Min. length = 3 mm / max. length = 120 mm.
- Washer type parts $\varnothing > 4 \times$ length.
- Long parts, length $> 4 \times \varnothing$.
- Maximum rate: 5 seconds/part.
- 3.8" touch screen to configure the number of production parts.
- Power consumption: 1.4 KVA.
- Rated voltage: 400 V.
- Number of phases: 3PH + Earth.
- Counting from an external signal supplied by the machining centre.
- Colour: RAL 7035 GREY.

SPECIAL MANUFACTURE ON REQUEST



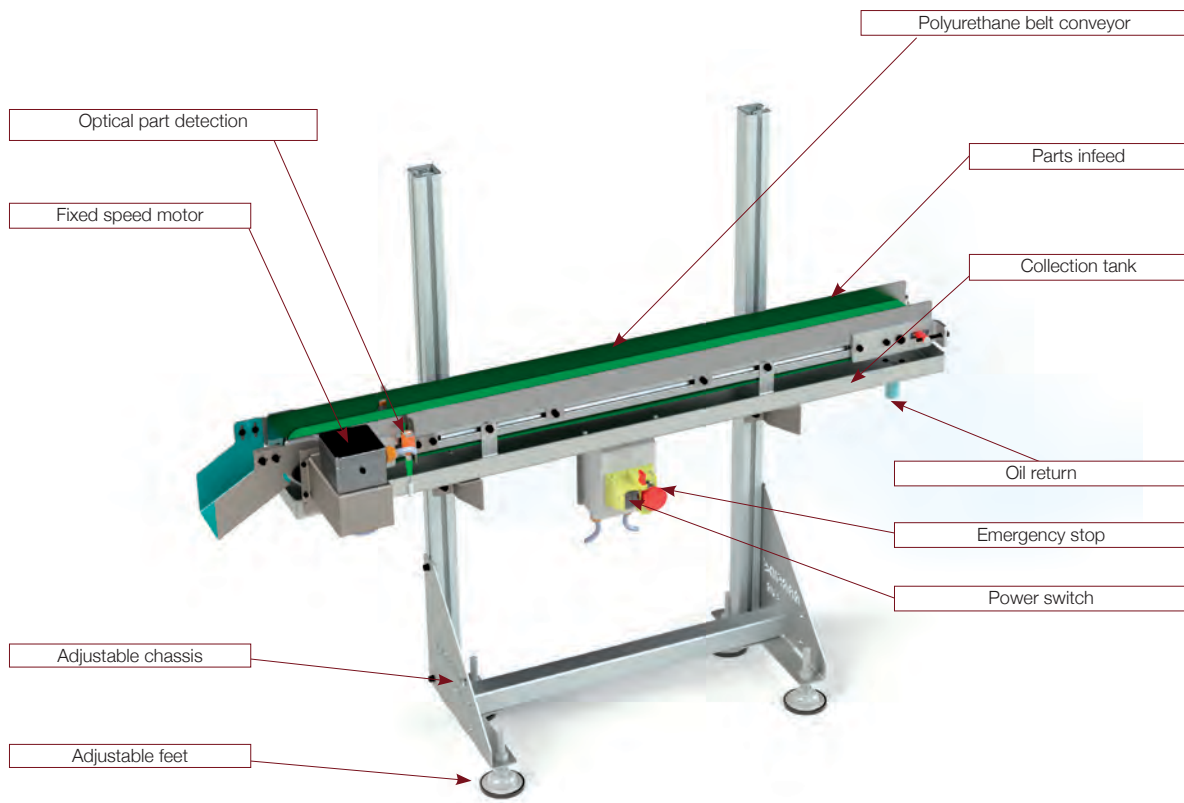
	Length 1	Length 2	Length 3
X	2000	2500	3000

	Width 1	Width 2	Width 3
Y	560	660	760

	Min.	Max.
Hc	483	943
Hg	738	1198
Ht	1517	1977



POWER BELT CONVEYOR: CVB



The BARFIDE range of power belt conveyors can transfer parts as they leave a machining centre. Either to collect parts or to transfer them to a BARFIDE retrieval system.

Five available conveyor lengths: 500, 750, 1000, 1250 or 1500 mm.
A single width of oil-resistant polyurethane belt: 78 mm.

The configurable motor location facilitates its integration.
BARFIDE also has adjustable feet, to facilitate the implementation of the conveyor.

It is easy to set the conveyor running, thanks to a simple electrical box.
The feed rate is fixed and permanent.



PRODUCT CHARACTERISTICS

- Five conveyor lengths: 500, 750, 1000, 1250 and 1500 mm.
- Useful belt width 78 mm.
- Adjustable outlet chute with shock-absorbent protection.
- Maximum dimensions of parts = Ø65x100 mm.
- Minimum dimensions of parts = Ø7x7 mm.
- Spherical parts are not recommended.
- Collection tank with drain inside Ø of oil return pipe = 21 mm.
- Fixed conveyor rotation speed 2 metres/minute.
- Circuit breaker box with built-in emergency stop button.
- Power supply voltage = 220 V.
- Frequency 50 Hz.
- Power consumption = 0.09 KVA.
- Two types of electrical connection: Canalis or Machine.
- Colour: RAL 7035 grey.

OPTIONS:

- Machine mounting bracket.
- Profiles floor anchoring feet.
- Part collection chute.

SPECIAL MANUFACTURE ON REQUEST



REDUCTION TUBES FOR SINGLE-SPINDLE LATHE: RBMO



PRODUCT CHARACTERISTICS

- Steel reduction tube for main spindle of single-spindle lathe.
- Unfinished tube with two shrink-fit rings.
- Inside diameter every mm from 5 to 90.
- We recommend a tube diameter 1 mm greater than the diameter of the bar to be machined.
- The length of the tube and the outside ring diameters must be defined by the customer according to the spindle drawing.
- Optional extended version (length to be decided according to the \emptyset).
- Reduction maintained by a flange system.
- Sold individually or in batches.

POSSIBLE OPTIONS:

- Galvanised.
- Mounting flange.
- Wall bracket.

SPECIAL MANUFACTURE ON REQUEST

REDUCTION TUBES FOR MULTI-SPINDLE LATHE: RBMU



PRODUCT CHARACTERISTICS

- Spindle reduction tube kit for multi-spindle lathe INDEX MS16 to MS52, consisting of a basket, an extraction tool and tubes.
- Tubes and rings fitted by hot shrink-fit.
- Created in two parts, they are inserted in the spindle on the clamp side.
- The special tool in the kit is used to extract the reducers.
- The length and the outside diameters are defined according to the lathe model and how it is equipped.
- We recommend a tube diameter 1 mm greater than the diameter of the bar to be machined.

D int.	D ext.	D FRET	D Lopin	Date / N° OF	Client :	D bague AV	D1
					N° commande	D bague AR	D2
					Date :	D épaulement	D3 *
					Marque :	Epaisseur épaulement	E1
					Type :	Lg totale réduction broche	L1
					D broche :	Position bague AV	L2
					Lg broche :	D ext. Flasque	D4
					Type pot :	D inscrit fixation	D6 *
					Réf. Tube :	Qté (x) et Alésage (My)	x My
					Réf. Flasque :	Angle	A°

* D3 > D6 : flasque intégrée
* D3 < D6 : flasque séparée

BARFIDE
Récupérateurs de pièces & Tubes de réduction

Réduction de Broche - Standard (3 Oreilles)

D int.	D ext.	D FRET	D Lopin	Date / N° OF	Client :	D bague AV	D1
∅..					N° commande	D bague AR	D2
∅..					Date :	D épaulement	D3 *
∅..					Marque :	Epaisseur épaulement	E1
∅..					Type :	Lg réduction broche sans rallonge	L1
∅..					D broche :	Lg Rallonge	L3
∅..					Lg broche :	Lg totale réduction broche	L1 + L3
∅..					Type pot :	Position bague AV	L2
∅..					Réf. Tube :	D ext. Flasque	D4
∅..					Réf. Flasque :	D inscrit fixation	D6 *
∅..						Qté (x) et Alésage (My)	x My
∅..						Angle	A°

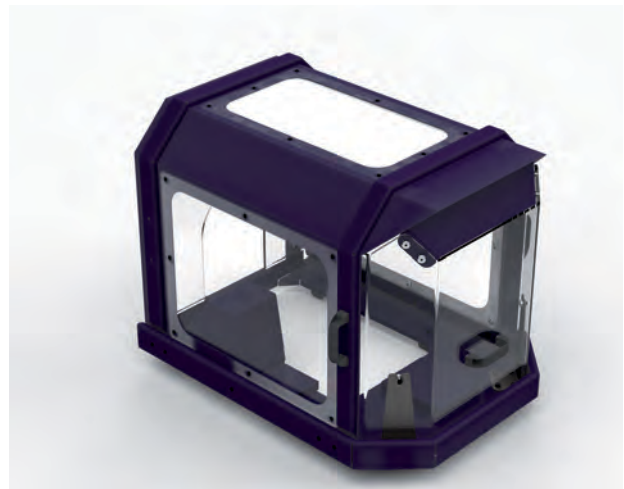
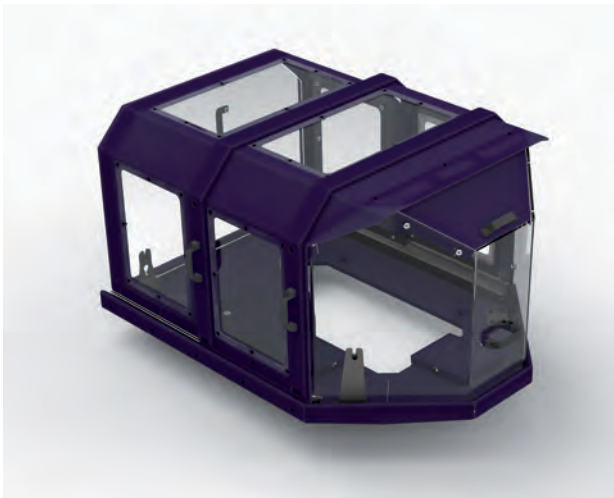
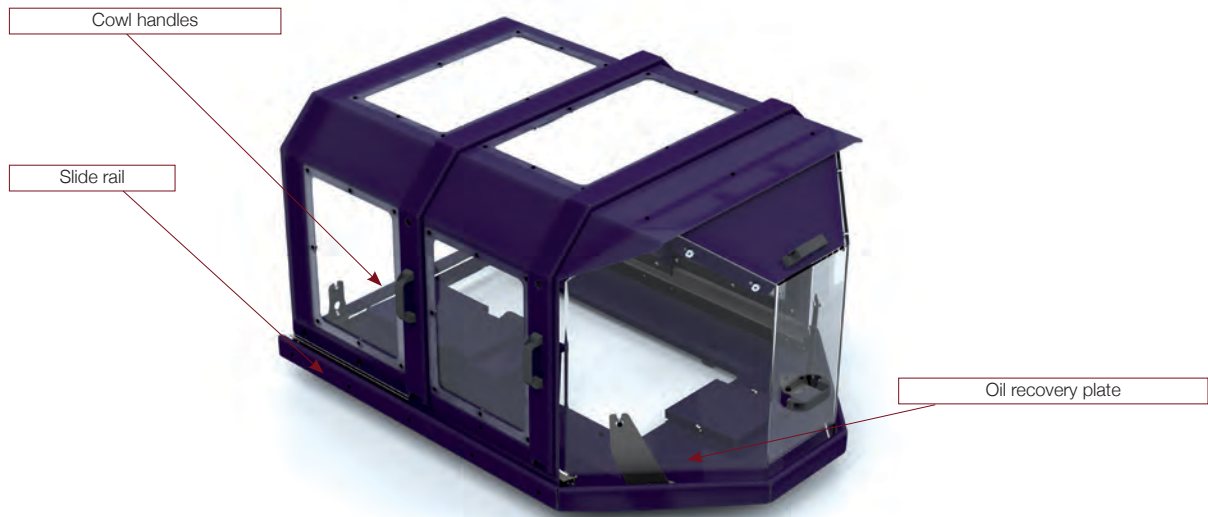
* D3 > D6 : flasque intégrée
* D3 < D6 : flasque séparée

BARFIDE
Récupérateurs de pièces & Tubes de réduction

Réduction de Broche - Rallongé

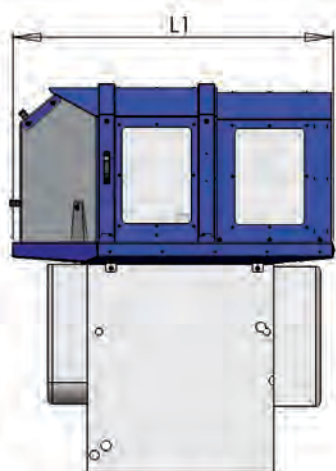
MACHINE COWL: CP

Creation of a telescopic protective cowl for cam lathes. These cowls provide protection from oil splashes and shavings. Access to the machining centre is facilitated by the moving parts of the cowls. They adapt specifically to the machine models.

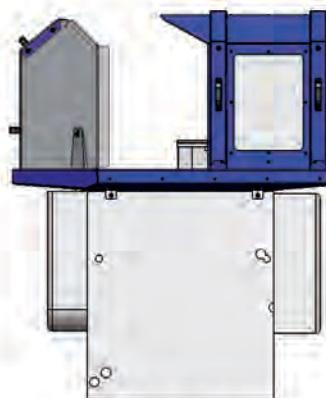


SPECIAL MANUFACTURE ON REQUEST

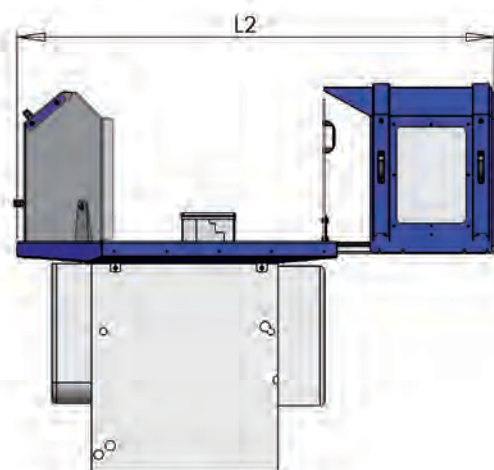
CP DIMENSIONS



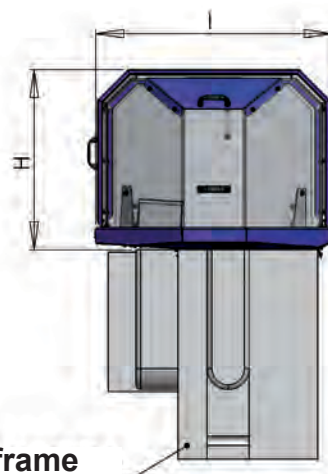
Operating position



Inspection position



Adjustment position



Machine frame

Cowling	M4/T4	M7	MS7	R10	P16
L1	910		1 375		1685
L2	1 675		2 045		
I	680		1 015		1 090
H	700		770		905
Number of openings	1 External		2 External		2 Crossed

ORDER TECHNICAL INFORMATION

Date:	Delivery:	Customer:	Bid No.:
-------	-----------	-----------	----------

Machine Tool Make:	New Machine: YES / NO
Model:	Serial No. / Date:

Types of parts

Min. Ø (mm) =	Min. length (mm) =	Min. weight (g) =
Max. Ø (mm) =	Max. length (mm) =	Max. weight (g) =
Part rate (/sec) = Part material =		

Mechanical interface

* A: Part outlet height (mm) =
* B: Part outlet offset (mm) =
* C: Part outlet offset (mm) =
* D: Part outlet chute height (mm) =
* E: Part outlet chute width (mm) =

Machine outlet:

Oil type: WHOLE / SOLUBLE Quantity: LITTLE / MUCH / VERY MUCH
Oil return height in machine (mm):
Shavings: NOT MUCH / VERY MUCH Separation of parts: CONSTANT / RANDOM

Transfer of parts

Complexity of transfer of parts: EASY / COMPLEX / VERY COMPLEX
Type of transfer to implement: GRAVITY / CONVEYOR / MANIPULATOR

Electrical interface

Machine tool power supply:	V
Dialogue with machine tool: YES / NO	*The customer is responsible for the machine-side interface
Part counting by the machine: YES / NO	
Type of connector:	

Documents to be supplied

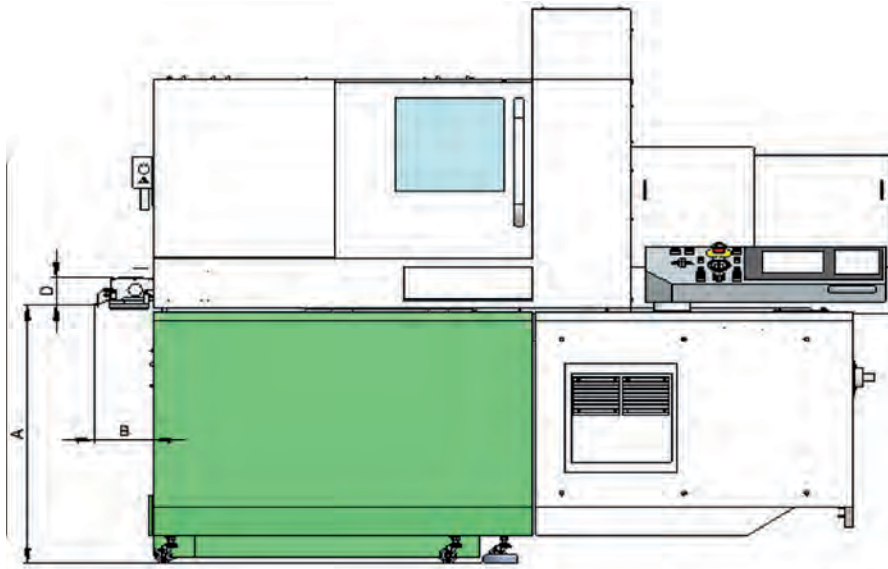
* Parts outlet photos (profile and front)
* Overall photos (machine + environment)
* Videos of 3-4 part exits with the machine in production mode
* Photos of the electrical interface
* Samples of customer parts
* Photos of baskets for the case of an ACS

For the case of an ACS

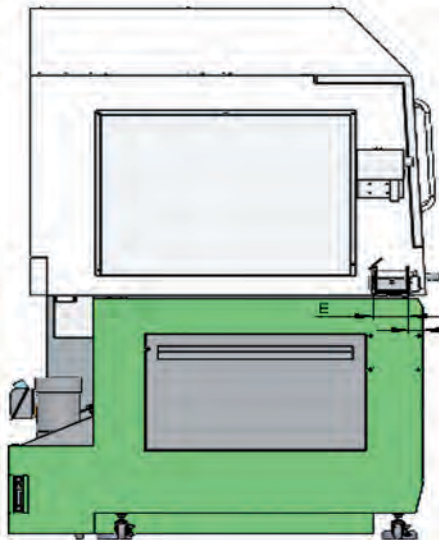
Baskets:	Model:
Autonomy (number):	Dimensions in mm (L x w x h):

Options	Comments
ACS colour: RAL =	
Drainage pump: YES / NO	

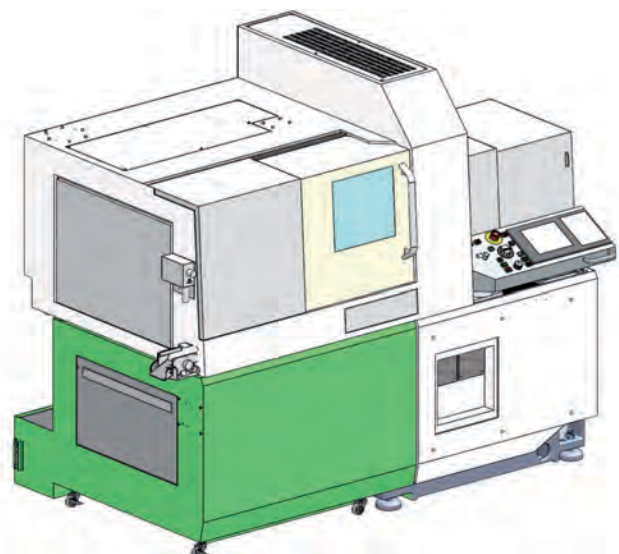
PART OUTLET FRONT VIEW

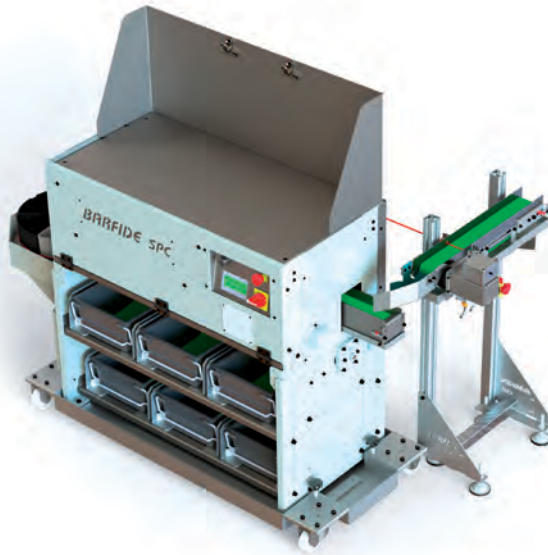


PART OUTLET PROFILE VIEW



PART OUTLET ISOMETRIC VIEW





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