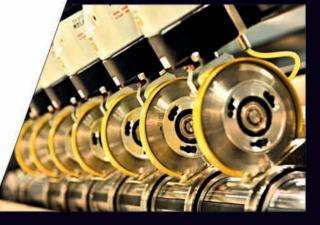
LONGITUDINAL SLITTING SYSTEMS AND MODULES







B



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GEELOS

C ITE



SYSTEM®



J2-40 Туре **J3L-48 J3H-75**

Pneumatic knife holder J Series for longitudinal shear cutting. Bearing mounted on precision ground slides.

Knife holder SELF LOCKING mechanism Automatic knife SAFETY GUARD

The new J Series knife holders incorporate all high performance features in a simple and innovative design.

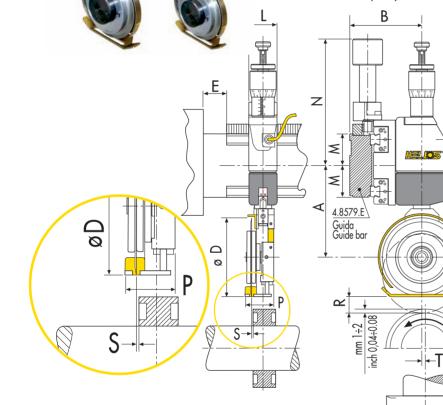
Thanks to the new rugged and stable design J Series knife holders can achieve higher cutting capacities, even for strong materials and high operating speeds.

J Series maintains the well known, tried and tested SOFT-CUT / STILO system which guarantees an excellent cut quality, no dust and prolonged knife life.

Direzione materiale

Web direction

-T



J Series knife holders are PATENTED and incorporate innovative features as standard, such as:

1	Inbuilt self locking brake.
2	Guide bar with rack and double slide rail.
3	Quick manual positioning utilising slides / bearings and pinion knob
4	Precise micrometer knife depth adjustment.
5	Cutting angle adjustment.
6	Graduated scale for cutting angle setting.
7	SOFT-CUT: flexible knife head for precise setting of cutting pressure
8	Quick removal knife head.
9	Automatic knife safety guard.
10	Bayonet knife locking system.
11	Interchangeability with razor cutting.

Knife holder specification J Series

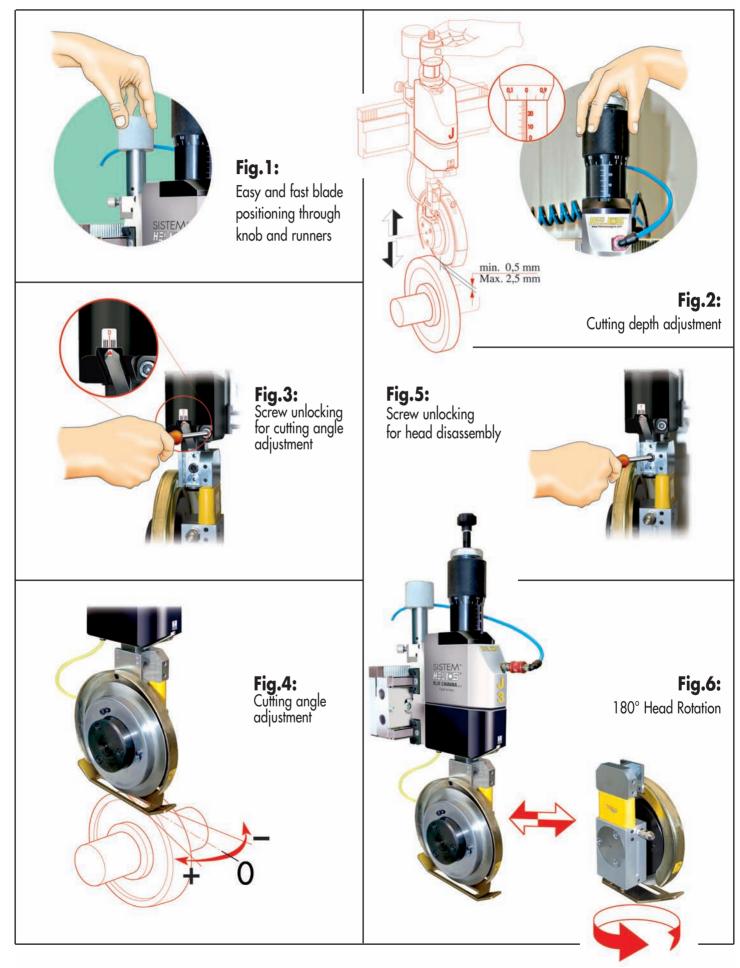
STILO TYPE	GUIDE TYPE	A min inch	A max inch	B inch	D	E inch	L inch	M inch	N inch	P inch	R inch	S inch	T inch	Min. slit. width inch	Max. paper cutting capacity gr/m ²	Max. plastic film capacity inch	Top speed capacity FPM
J2-40	4.8579.E	4.8	5.79	3.82	3.54÷4.1÷4.72	2.36	1.5	1.67	6.7	1.57	0.47	0.08	0.197	1.58	400	0.024	3,609
J3L-48	4.8579.E	6.41	8.0	4.6	5.12÷5.9	3.94	1.89	1.67	7.64	1.89	1.18	0.10	0.315	1.97	800	0.06	6,562
J3H-75	4.8579.E	6.41	8.0	4.6	5.12÷5.9÷7.09÷7.9	3.94	2.2	1.67	7.64	2.95	1.18	0.14	0.315	3.15	2,000	0.12 (*)	9,842
STILO	011125																
TYPE	GUIDE TYPE	A min mm	A max mm	B mm	D	E mm	L mm	M mm	N mm	P mm	R mm	S mm	T mm	Min. slit. width mm	Max. paper cutting capacity gr/m ²	Max. plastic film capacity mm	Top speed capacity m/min
		min	max			_	L mm 38					-	T mm 5	width	cutting capacity	capacity	capacity
J2-40	TYPE	min mm	max mm	mm	mm	mm		mm	mm	mm	mm	mm		width mm	cutting capacity gr/m ²	capacity mm	capacity m/min
TYPE J2-40 J3L-48 J3H-75	TYPE 4.8579.E	min mm 122	max mm 147	mm 97	mm 90÷105÷120	mm 60	38	mm 42,5	mm 170	- mm 40	mm 12	mm 2	5	width mm 40	cutting capacity gr/m ² 400	capacity mm 0,6	m/min 1100

0,5°÷ 2

(*) for materials thicker than 3mm please ask for confirmation by Helios

EASY SETTING & MAINTENANCE

Serie J



New Style... and New Technology

Туре **ЈЗВ•Ј2В**

New pneumatic knifeholder series J2B-J3B for longitudinal shear cut.

The **J3B** is a blade holder version equipped with mechanisms for moving the blade along with the Bottom Knives, e.g.: **FAST-MAN** and **AUTOMATIC** trim elimination systems; in all these solutions blade and Bottom Knive move in lockstep. This allows to achieve:

• A fixed blade holder with exact regulation of the cutting pressure, due to the possibility of reading the exerted force on the gauge;

As a consequence, the following is also achieved:

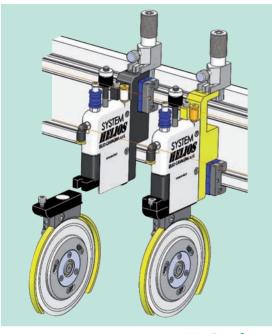
- Precision in adjusting the side pressure of the blade.
- The adjustment always stays the same and constant over time;
- There can not be calibration errors, hence increasing the blade lifetime.





Туре **J1-19**

Patented pneumatic knife holder **J1** Series for longitudinal shear cutting. Bearing mounted on precision ground slides.



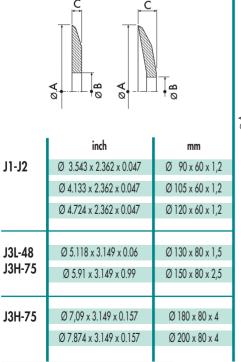
Knife holder specification **J1 Series**

Туре	Min cutting width inch	Max paper cutting capacity gr/m²	Max plastic films cutting capacity inch	Max speed FPM
J1-19	0.79	300	0.02	1.830

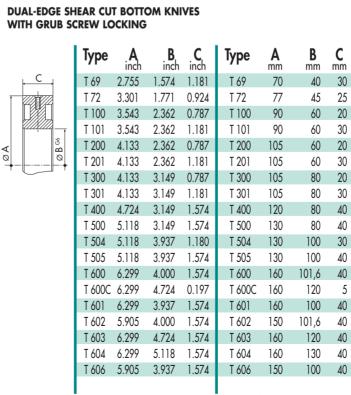
97 3.81 Attacco per Tubo ø4 45 Pipe ø4 Connection 4.65 1 77 Ш 118 ≙ 35 helos ~ <u>]</u>] 148 85 23-max.1 -max. ø3.54 4.8579.E ø90 Guida Guide bar min. ø105 ø4.13 max.25 80 19 0.75

Туре	Min cutting	Max paper	Max plastic films	Max
	width	cutting capacity	cutting capacity	speed
	mm	gr/m²	mm	m/min
J1-19	20	300	0.5	600

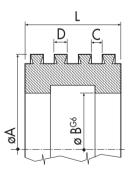
TOP AND BOTTOM KNIVES



SHEAR CUT TOP KNIVES



MULTI GROOVE BOTTOM KNIVES

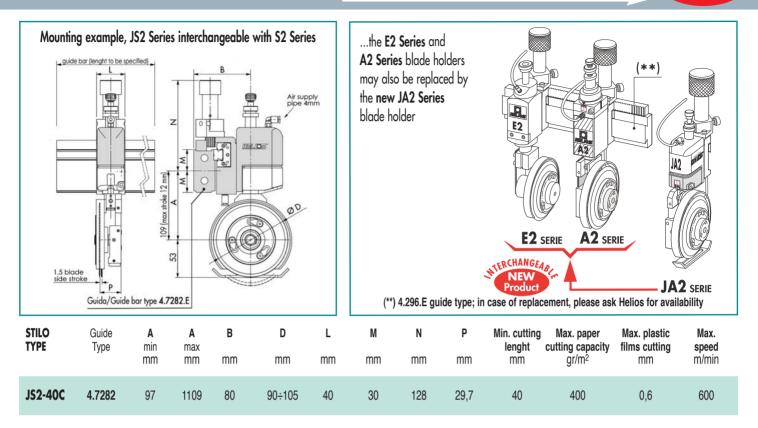


DIMENSIONS UPON REQUEST

Serie JS2-JA2

Interchangeable with old series

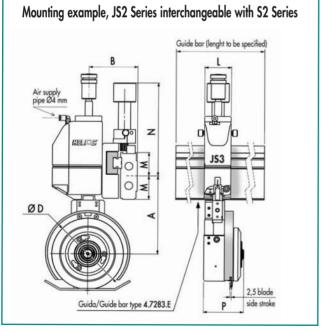
E2-A2-S2

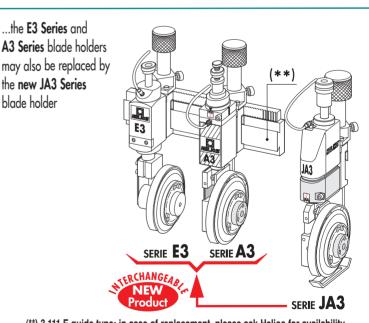


Serie JS3-JA3

Interchangeable with old series

E3-A3-S3



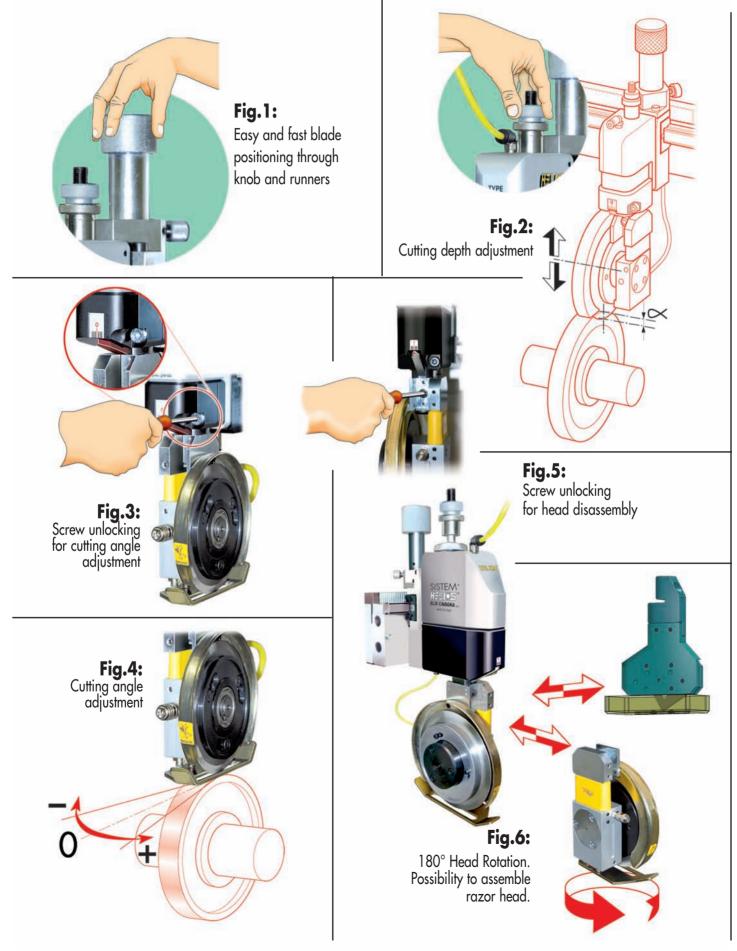


(**) 3.111.E guide type; in case of replacement, please ask Helios for availability

STILO TYPE	Guide Type	A min mm	A max mm	B mm	D mm	L	M	N mm	P mm	Min. cutting lenght mm	Max. paper cutting capacity ar/m ²	Max. plastic films cutting mm	Max speed m/min
100 10											5		
JS3-48	4.7283.E	142	167	88,5	130÷150	48	42,5	170	48	50	800	1,5	1300
JS3-75	4.7283.E	142	167	88,5	130÷150 180÷200	48	42,5	170	75	80	2000	2(*)	1500

(*) for materials thicker than 2mm please ask for confirmation by Helios

EASY SETTING & MAINTENANCE



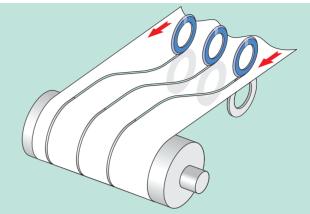
CUTTING MODULE FOR **AUTOMATIC** FORMAT CHANGE

TRV NON-STOP System

The patented TRV system has been used for many years in various different applications and utilises industry proven Helios technology.

- This automatic system was designed to allow:
- . Format changes with material in line.
- . Format changes during cutting, i.e. during production
- . Simultaneous positioning of all cutting groups to centre





As you can see from schematic drawing, this solution allows you to move the blades without disengaging the top and bottom knife, consequently without breaking the mate-rial or stopping the line. In short:

- productivity increase (there are no machine stops except to replace worn knives);
 waste reduction (machine is not stopped during format changes so normal production continues);

• production processes speed up (If line is continuous, there's no need to slow it down or stop it).

The patented **TRV** system achieves high precision positioning and long lasting life, even when the machine is not regularly or properly cleaned. **TRV** requires no specific maintenance.

HMB System

The Helios HMB system has been designed to be compact and versatile so that it can be assembled on small machines or in areas with limited overall space. Thanks to its clever design, HMB has a minimum cutting width of between 30 and 50 mm (1.18 inch and 1,97 inch).

The main feature is easiness of use. The system is very user friendly and does not need specific maintenance, except ordinary cleaning.

FORMAT CHANGE can be carried without breaking the material.

This reduces waste as the material does not need to be removed from the machine to change the slit pattern.



Helios software has been designed to be predictive and instant. The operator Interface is simple to use and requires only basic training to enter data so that everybody can quickly learn how to use it. Working formats (slit width configurations) can be saved and recalled later via their name or number. The recalled format can then be instantly loaded and set.

Software can be individually customised upon request.



HMB System Main features:

Format change: material in line: during cutting productior	1:	Yes Yes	Format change: material in line: during cutting production:		es lo
Minimum cutting width: Maximum cutting width: No. cutting units: Positioning accurancy:	100 mm 5600 mm n +/-0.2 mm	3.94 inch 220.47 inch o limit +/-0.0079inch	Minimum cutting width: Maximum cutting width: No. cutting units: Positioning accurancy:	30÷50 mm 8000 mm no +/-0.2 mm	1.18÷1.97 inch 314.96 inch limit +/-0.2 inch
Top speed capacity: shaft drive: indipendent motor drive	1100 m/min 2600 m/min	3,610 FPM 8,530 FPM	Top speed capacity: shaft drive: indipendent motor drive	1100 m/min 2600 m/min	3,610 FPM 8,530 FPM

New Style... and New Technology

TRV System

Main features:

SHEAR CUTTING MODULES FAST-MAN



TECHNICAL FEATURES

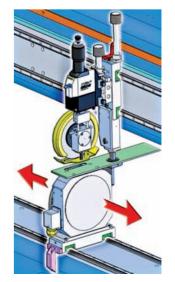
 Minimum cutting width: 	50 mm	1.97inch
 Max. cutting width: 	no lim	it
 Max. no of cutting units: 	no lim	it
 Top speed shaft driven system: 	1100 m/min	3,610 FPM
 Top speed on indipendent motors driven system: 	2600 m/min	8,530 FPM
 Format change with material in line: 	No	
Optional automatic positionina:	Yes	

FAST MAN means QUICK FORMAT CHANGES in manual mode

These are carried out during machine stop without material in the cutting area, i.e. web interrupted. This is the ideal solution for new rewinders as well as old ones that need to be retrofitted. **FAST MAN** is the best solution to reduce downtimes drastically, in manual mode. **WHAT'S FAST MAN**?

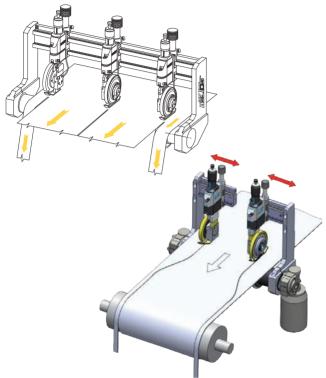
- it's QUICK cutting format measures change, blades and bottom knives move together;
- it's QUICK blades & bottom knives are independent;
- it's **FAST**, the operator must only position blades & bottom knives to desired measure, no other settings are required;
- it's TIME SAVING, only 2-3 minutes are required to position 20 cutting units;
- it's **HIGH PERFORMING**, thanks to independent motors You can reach high speed and minimum cutting width down to 50 mm (1.97 inch)
- it's FLEXIBLE, this system can be integrated with an automatic format change system.

The ideal solution for cardboard and tissue rewinder.



TRIMS AND CENTRAL CUTTING

STJ-TYPE, SCISSOR CUTTING FOR **TRIMS** AND **CENTRAL CUTTINGS** WITH MANUAL **NON-STOP** DISPLACEMENT



WITHOUT STOPPING THE PRODUCTION, change operated while the blades are cutting. They can be supplied with various combinations.

- 1) TRIMS only;
- 2) TRIMS + CENTRAL CUTTINGS
- 3) CENTRAL CUTTINGS only

Ideal solutions for extruders or wherever the format must be changed with no downtime.

It is also possible to move manually the cuts from the machine, so that the operator can always work safely and without wasting time.

It can be enhanced by the addition a display knob for viewing the cutting positions, in such a way as to:

- Move the cutting units with no downtime.;
- Move the cutting units without having to remove any material;
- Move the cutting units in complete safety.
- Fine positioning unit thanks to digital.

TECHNICAL FEATURES

 Min. cutting width: 	50 mm	1.97inch
 Max. cutting width: 	no limit	
• No. of cuts:	6 (ask for confirmatic	on if higher)
 Speed with transmission shaft: 	1100 m/min	3,610 FPM
 Speed with indipendent motors: 	2600 m/min	8,530 FPM
 In-line material format change: 	Yes	
 Format change during production: 	Yes	

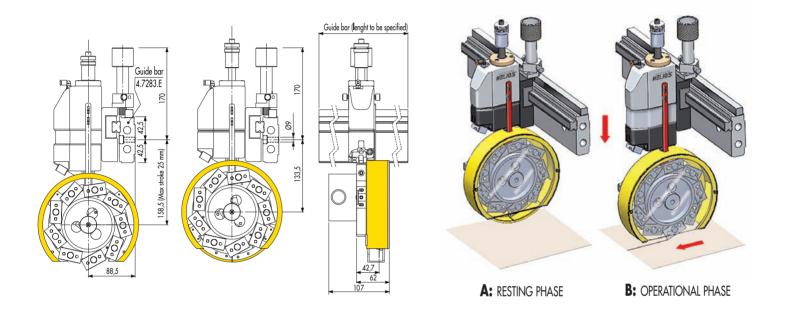


RAZOR BLADE

Multi-blade cutting with patented, Automatic SAFETY PROTECTION

TYPE TL 107 SELF-LOCKING

The **TL 107** type, MULTI-BLADE CUTTING system is recommended for cutting plastic films up to 25µ thickness. For cutting plastic materials beyond 25µ, shear cutting system is preferable.



Single blade cutting for high-thickness materials WITH PATENTED, AUTOMATIC, SAFETY PROTECTION

TYPE **J3 RB** SELF-LOCKING

For cutting high-thickness, plastic materials up to 2mm, the RB, single-blade cutting system is preferable.

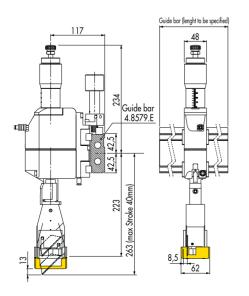




fig. A: NOT IN WORK fig. B: IN WORK

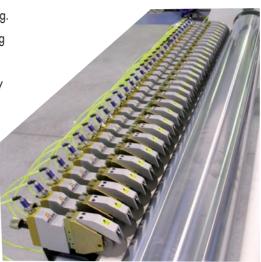
PRESSURE CUTTING

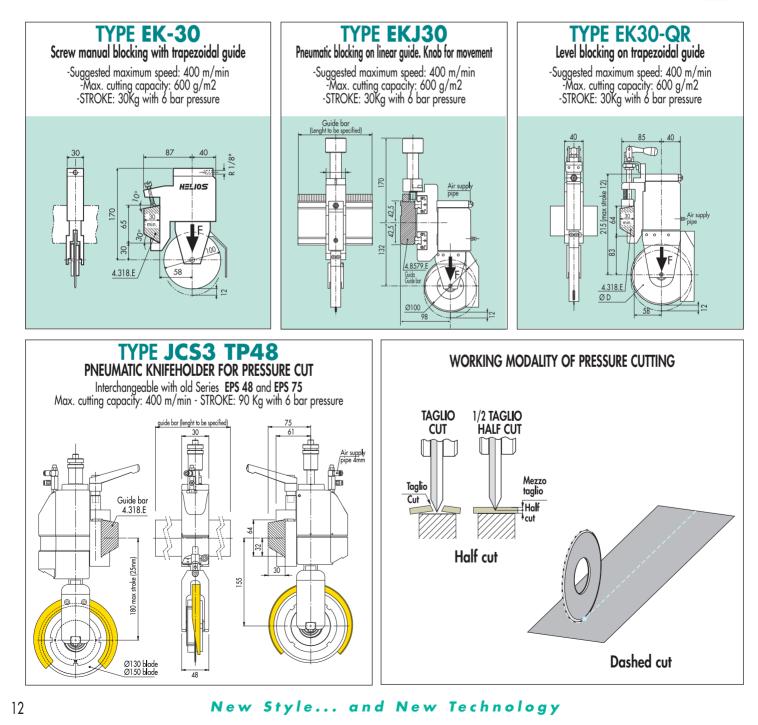
The **PRESSURE CUTTING** system is a traditional one, used for perforation-, half- and groove-cutting. Pressure cutting is used where high speed is not paramount, cutting material are soft and when cutting pressure is weak.

With direct contact between the blade and the counter-blade cylinder, blade wear is high and directly proportional to the pressure employed.

In the event of the cutting and production qualities are determining factors a shear cutting system, such as J serie, is necessary.

To obtain optimum scoring a special blade is used and air pressure must be carefully regulated. Helios can satisfy all needs, by supplying shear- or half-cutting systems or modules.





RETROFIT











HELIOS Elio Cavagna srl are specialists in the retrofit of slitting systems to a wide variety of converting machines such as winders, extruders, calendar lines & coaters etc.

Thanks to our extensive application knowledge and wealth of experience built up over many years, we can:

Modify old machines. Return to original cutting efficiency.

Increases production When our 'Fast man' or automatic cutting modules are installed.



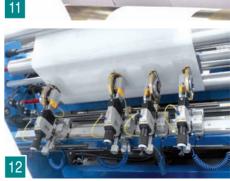












RETROFIT









With our innovative cutting solutions we can help to solve your cutting problems.

Ν







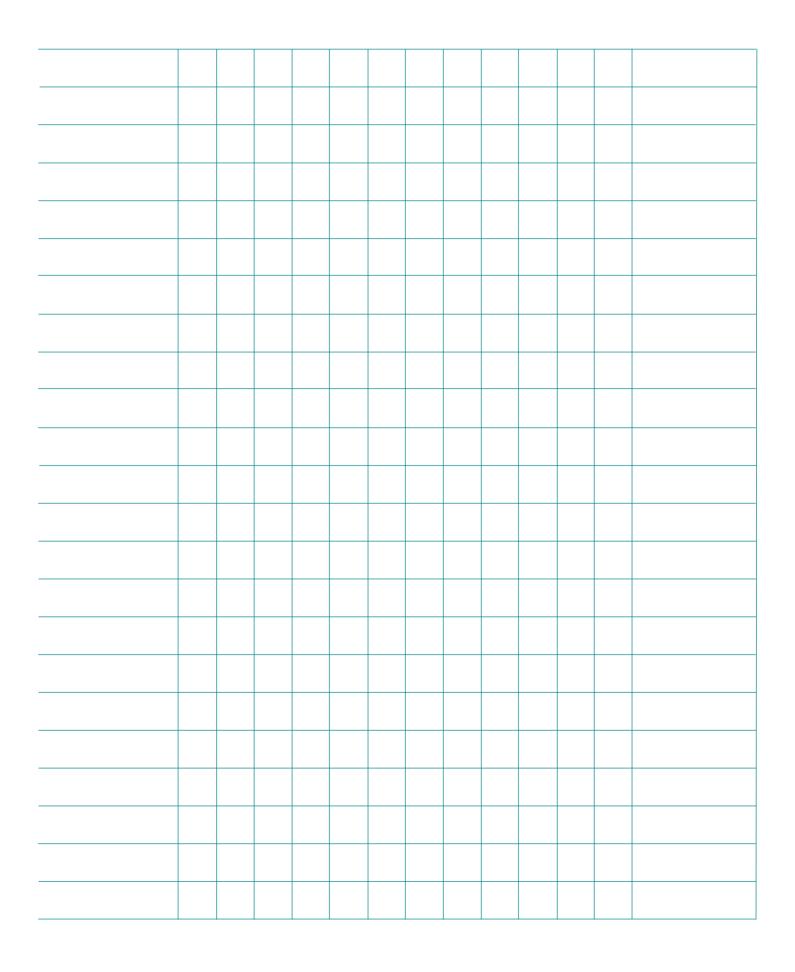




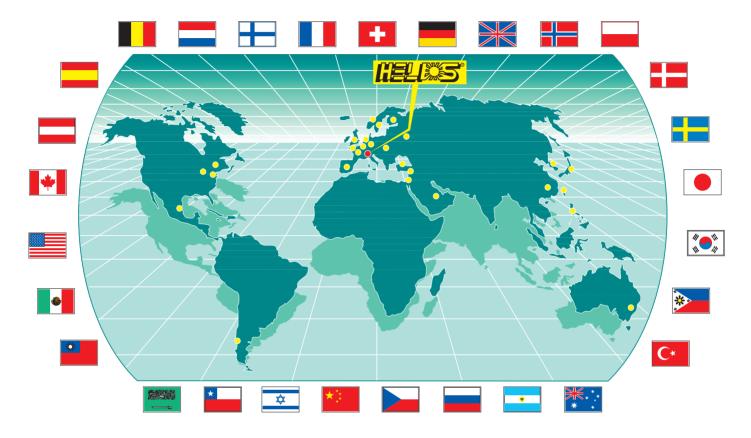


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NOTE







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