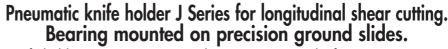


Type J2-40 • J3L-48 • J3H-75

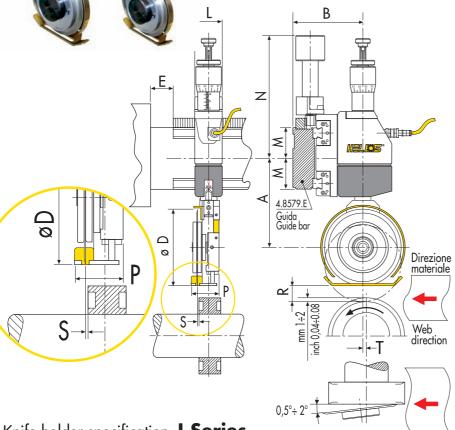


Knife holder SELF LOCKING mechanism Automatic knife SAFETY GUARD

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.



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**

GUIDE TYPE	A min inch	A max inch	B inch	D inch	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/m²	Max. plastic film capacity inch	Top speed capacity
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
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
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
GUIDE TYPE	A min mm	A max mm	B mm	D mm	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
4.0570.5																
4.8579.E	122	147	97	90÷105÷120	60	38	42,5	170	40	12	2	5	40	400	0,6	1100
4.8579.E 4.8579.E	122 163	147 203	97 117	90÷105÷120 130÷150	100	38 48	42,5 42,5	170 194	40 48	12 30	2,5	5 8	40 50	400 800	0,6 1,5	1100 2000
	4.8579.E 4.8579.E 4.8579.E GUIDE TYPE	TYPE min inch 4.8579.E 4.8 4.8579.E 6.41 4.8579.E 6.41 GUIDE A min mm	TYPE min max inch inch 4.8579.E 4.8 5.79 4.8579.E 6.41 8.0 4.8579.E 6.41 8.0 GUIDE A A A TYPE min max mm	TYPE min inch inch inch inch max inch inch inch 4.8579.E 4.8 5.79 3.82 4.8579.E 6.41 8.0 4.6 4.8579.E 6.41 8.0 4.6 GUIDE TYPE A min max mm mm mm mm	TYPE min inch inch inch inch inch inch inch inch inch inch inch inch inch inch 4.8579.E 4.8 5.79 3.82 3.54÷4.1÷4.72 4.8579.E 6.41 8.0 4.6 5.12÷5.9 4.8579.E 6.41 8.0 4.6 5.12÷5.9÷7.09÷7.9 GUIDE TYPE A min max mm mm mm mm mm mm	TYPE min inch inch inch max inch inch inch inch inch inch inch inch inch inch 4.8579.E 4.8 5.79 3.82 3.54÷4.1÷4.72 2.36 4.8579.E 6.41 8.0 4.6 5.12÷5.9 3.94 4.8579.E 6.41 8.0 4.6 5.12÷5.9÷7.09÷7.9 3.94 GUIDE TYPE A min max mm mm mm mm mm mm mm mm mm mm	TYPE min inch max inch inch	TYPE min inch inch inch max inch inch inch inch inch inch inch inch inch inch inch	TYPE min inch inch inch max inch inch inch inch inch inch inch inch inch inch inch inch inch inch inch inch inch inch inch	TYPE min inch inch inch inch inch inch inch in	TYPE min inch max inch inch	TYPE min inch max inch inch	TYPE min inch max inch inch	TYPE min inch max inch width inch 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 4.8579.E 6.41 8.0 4.6 5.12÷5.9÷7.09÷7.9 3.94 1.89 1.67 7.64 1.89 1.18 0.10 0.315 3.15 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 GUIDE TYPE A A B D E L M N P R S T Min. slit. width width midth TYPE min mm mm <td>TYPE min inch max inch inch</td> <td>TYPE min inch max inch inch</td>	TYPE min inch max inch inch	TYPE min inch max inch inch

EASY SETTING & MAINTENANCE

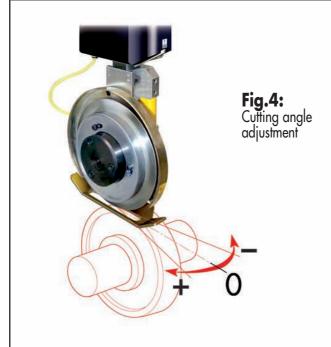
Serie J

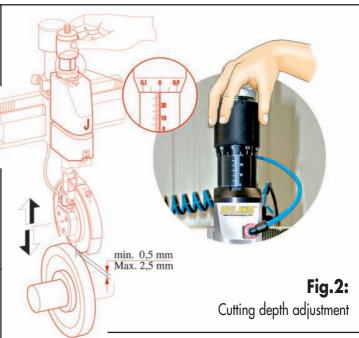


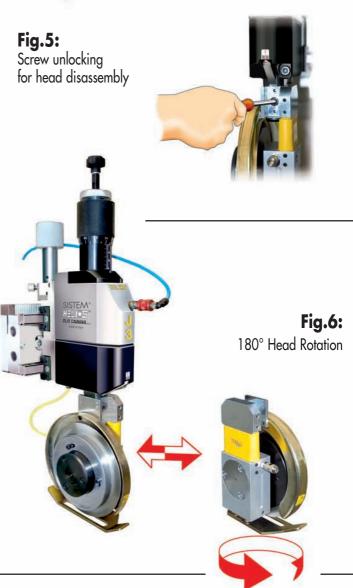
Fig.1:
Easy and fast blade positioning through knob and runners



Fig.3: Screw unlocking for cutting angle adjustment







Type **J3B** • **J2B**

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:

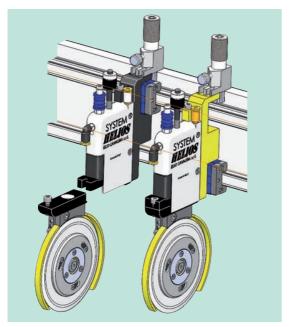
- Precision in adjusting the side pressure of the blade.
- The adjustment always stays the same and constant over time;
- There can not be calibration errors, hence increasing the blade lifetime.

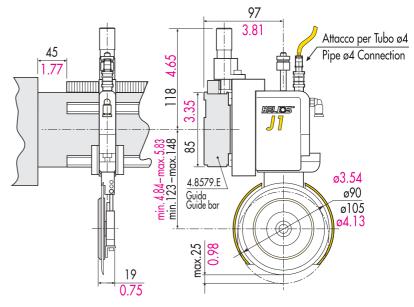




Type **J1-19**

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





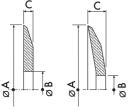
Knife holder specification **J1 Series**

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

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

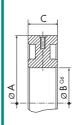
TOP AND BOTTOM KNIVES

SHEAR CUT TOP KNIVES C



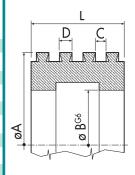
	inch	mm
J1-J2	Ø 3.543 x 2.362 x 0.047	Ø 90 x 60 x 1,2
	Ø 4.133 x 2.362 x 0.047	Ø 105 x 60 x 1,2
	Ø 4.724 x 2.362 x 0.047	Ø 120 x 60 x 1,2
J3L-48	Ø 5.118 x 3.149 x 0.06	Ø 130 x 80 x 1,5
J3H-75	Ø 5.91 x 3.149 x 0.99	Ø 150 x 80 x 2,5
J3H-75	Ø 7,09 x 3.149 x 0.157	Ø 180 x 80 x 4
	Ø 7.874 x 3.149 x 0.157	Ø 200 x 80 x 4

DUAL-EDGE SHEAR CUT BOTTOM KNIVES WITH GRUB SCREW LOCKING



Туре	A inch	B inch	C inch	Туре	A mm	B mm	C
T 69	2.755	1.574	1.181	T 69	70	40	30
T 72	3.301	1.771	0.924	T 72	77	45	25
T 100	3.543	2.362	0.787	T 100	90	60	20
T 101	3.543	2.362	1.181	T 101	90	60	30
T 200	4.133	2.362	0.787	T 200	105	60	20
T 201	4.133	2.362	1.181	T 201	105	60	30
T 300	4.133	3.149	0.787	T 300	105	80	20
T 301	4.133	3.149	1.181	T 301	105	80	30
T 400	4.724	3.149	1.574	T 400	120	80	40
T 500	5.118	3.149	1.574	T 500	130	80	40
T 504	5.118	3.937	1.180	T 504	130	100	30
T 505	5.118	3.937	1.574	T 505	130	100	40
T 600	6.299	4.000	1.574	T 600	160	101,6	40
T 600C	6.299	4.724	0.197	T 600C	160	120	5
T 601	6.299	3.937	1.574	T 601	160	100	40
T 602	5.905	4.000	1.574	T 602	150	101,6	40
T 603	6.299	4.724	1.574	T 603	160	120	40
T 604	6.299	5.118	1.574	T 604	160	130	40
T 606	5.905	3.937	1.574	T 606	150	100	40

MULTI GROOVE BOTTOM KNIVES

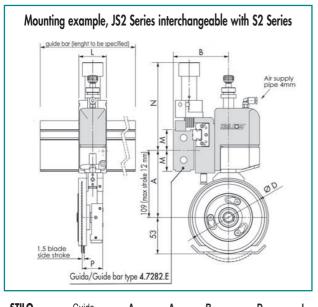


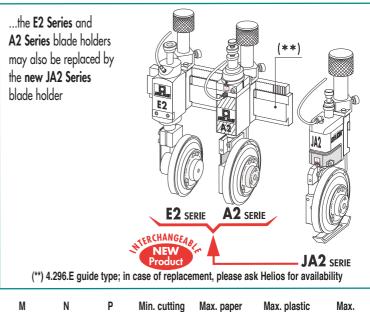
DIMENSIONS UPON REQUEST

Serie JS2-JA2

Interchangeable with old series





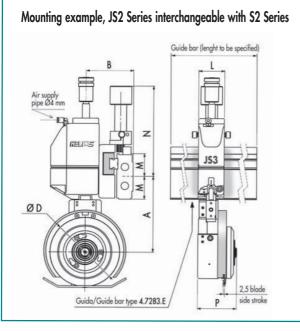


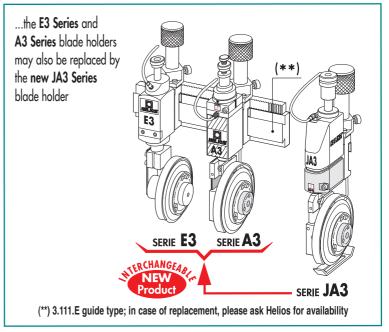
STILO TYPE	Guide Type	A min mm	A max mm	B mm	D mm	L mm	M mm	N mm	P mm	Min. cutting lenght mm	Max. paper cutting capacity gr/m²	Max. plastic films cutting mm	Max. speed m/min
JS2-40C	4.7282	97	1109	80	90÷105	40	30	128	29,7	40	400	0,6	600

Serie JS3-JA3

Interchangeable with old series

E3-A3-S3

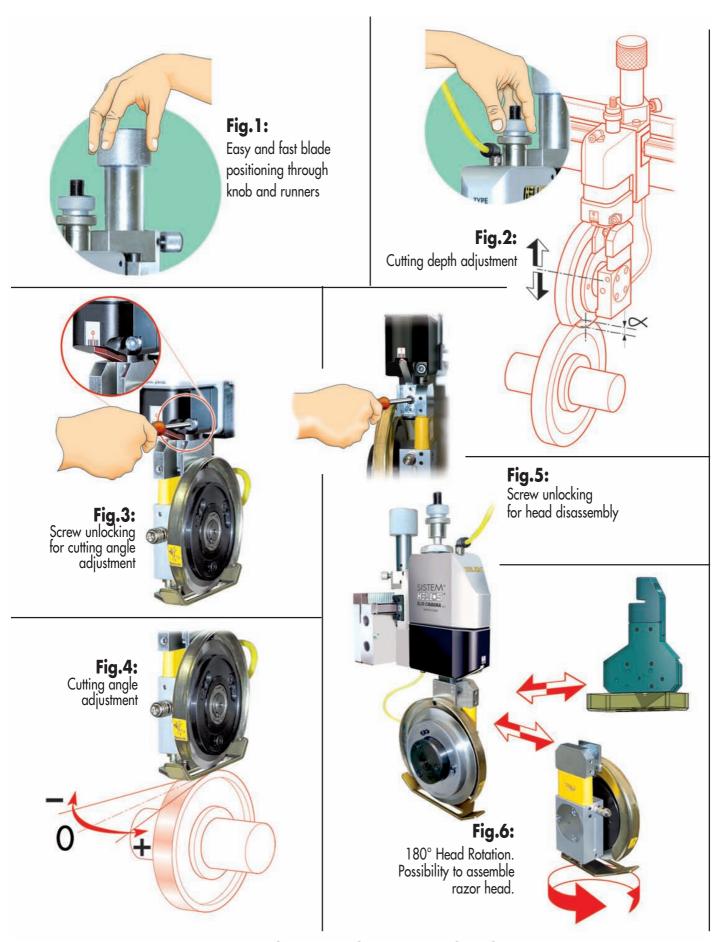




STILO TYPE	Guide Type	A min mm	A max mm	B mm	D mm	L mm	M mm	N mm	P mm	Min. cutting lenght mm	Max. paper cutting capacity gr/m ²	Max. plastic films cutting mm	Max speed m/min
JS3-48	4.7283.E	142	167	88,5	130÷150	48	42,5	170	48	50	800	1,5	1300
JS3-75	4.7283.E	142	167	88,5	130÷150 180÷200	48	42,5	170	75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

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

EASY SETTING & MAINTENANCE



CUTTING MODULE FOR **AUTOMATIC** FORMAT CHANGE

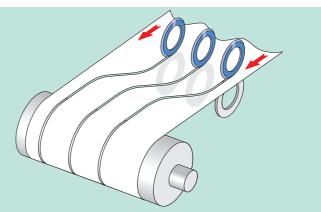
TRV NON-STOP System

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 material 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 produc-
- 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.

No.		
	TO THE REAL PROPERTY OF THE PERTY OF THE PER	
841	气制的	
		Afferen ann
1000		

TRV System Main features: Format change:			HMB System Main features: Format change:		
material in line: during cutting production		Yes Yes	material in line: during cutting production:		/es No
doring coning production.	•	100	doring coming production.	I	1 0
Minimum cutting width: Maximum cutting width: No. cutting units: Positioning accurancy:	no		Minimum cutting width: Maximum cutting width: No. cutting units: Positioning accurancy:	8000 mm	1.18÷1.97 inch 314.96 inch limit +/-0.2 inch
Top speed capacity:	1100 / :	0 /10 FD/	Top speed capacity:	1100 / :	0 (10 FD)
shaft drive: indipendent motor drive	1100 m/min 2600 m/min	3,610 FPM 8,530 FPM	shaft drive: indipendent motor drive	1100 m/min 2600 m/min	3,610 FPM 8,530 FPM

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 positioning:	Yes		

FAST MAN means QUICK FORMAT CHANGES in manual mode

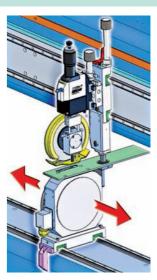
These are carried out during machine stop without material in the cutting area, i.e. web interrupted. This is the ideal solution for new rewinders as well as old ones that need to be retrofitted.

FAST MAN is the best solution to reduce downtimes drastically, in manual mode.

WHAT'S FAST MAN?

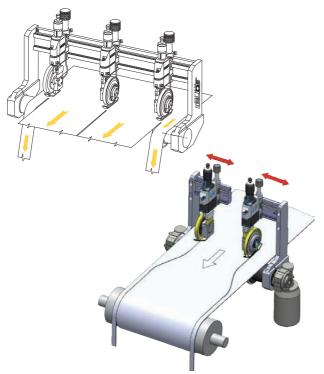
- it's QUICK cutting format measures change, blades and bottom knives move together;
- it's QUICK blades & bottom knives are independent;
- it's **FAST**, the operator must only position blades & bottom knives to desired measure, no other settings are required;
- it's **TIME SAVING**, only 2-3 minutes 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

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 confirmation 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				

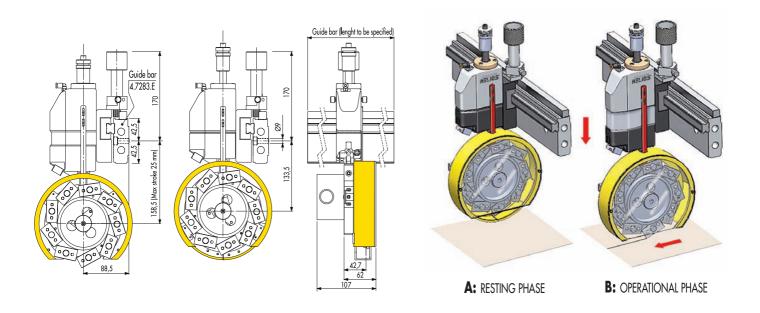


RAZOR BLADE

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.

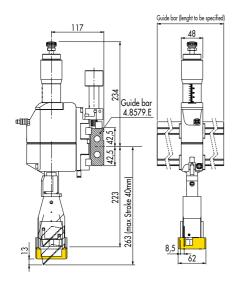




fig. A: NOT IN WORK fig. B: IN WORK

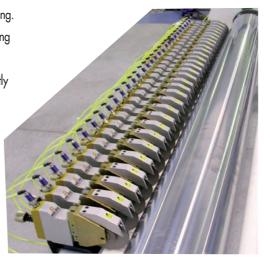
PRESSURE CUTTING

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.

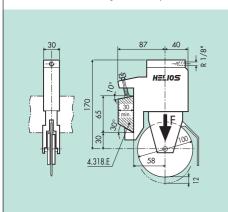
In the event of the cutting and production qualities are determining factors a shear cutting system, such as J serie, is necessary.

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.



TYPE EK-30 Screw manual blocking with trapezoidal guide

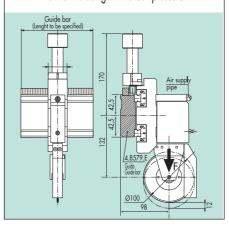
-Suggested maximum speed: 400 m/min -Max. cutting capacity: 600 g/m2 -STROKE: 30Kg with 6 bar pressure



TYPE EKJ30

Pneumatic blocking on linear guide. Knob for movement

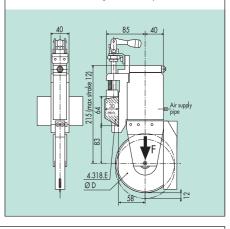
-Suggested maximum speed: 400 m/min -Max. cutting capacity: 600 g/m2 -STROKE: 30Kg with 6 bar pressure



TYPE EK30-QR

Level blocking on trapezoidal guide

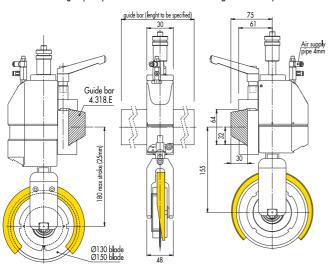
-Suggested maximum speed: 400 m/min -Max. cutting capacity: 600 g/m2 -STROKE: 30Kg with 6 bar pressure



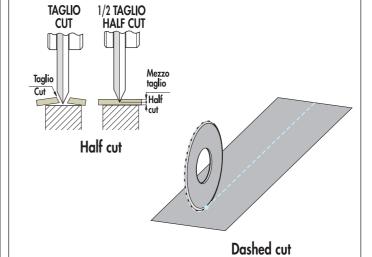
TYPE JCS3 TP48

PNEUMATIC KNIFEHOLDER FOR PRESSURE CUT

Interchangeable with old Series EPS 48 and EPS 75 Max. cutting capacity: 400 m/min - STROKE: 90 Kg with 6 bar pressure



WORKING MODALITY OF PRESSURE CUTTING



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



Modify old machines. Return to original cutting efficiency.



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

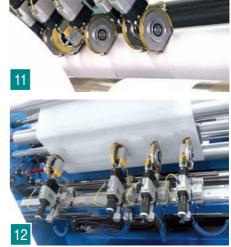












RETROFIT



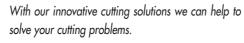












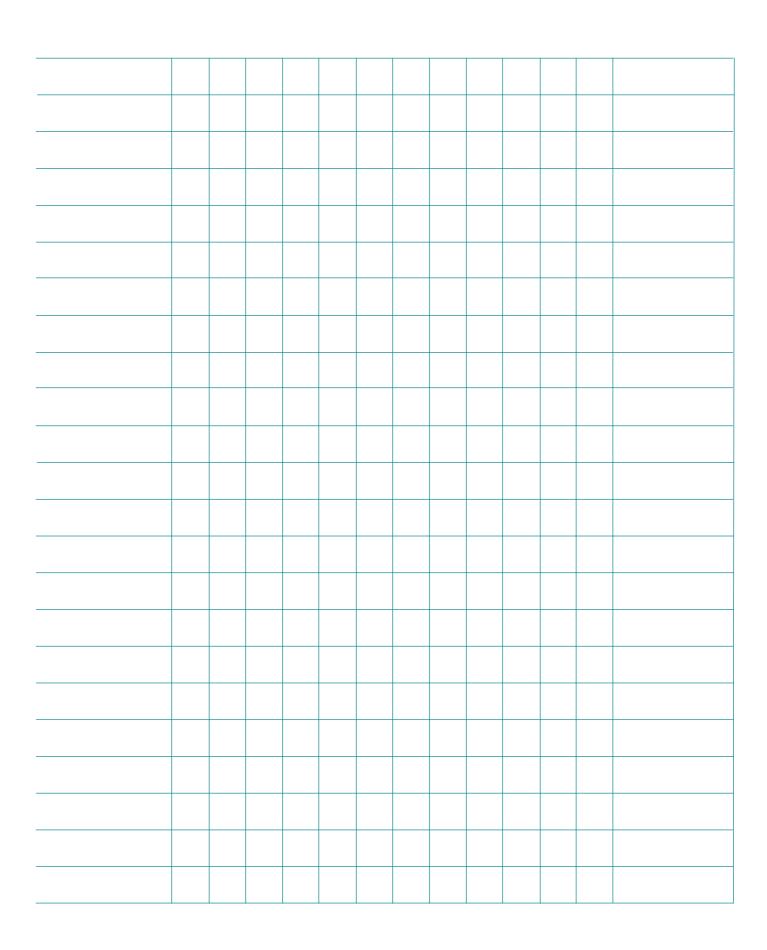






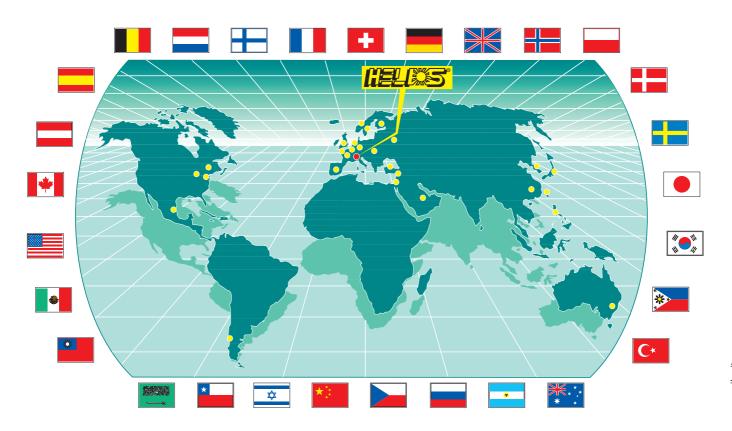






www.cibs.i

New Style... and New Technology



EUROPE DISTRIBUTION

Austria, Belgium, Danemark, Finland, France, Germany, England, Norway, Netherlands, Poland, Spain, Sweden, Suisse, Rep. Ceca, Russia.

WORLD DISTRIBUTION

Saudi Arabia, Argentina, Australia, Canada, Chile, China, Philippines, South Korea, Japan, Israel, Mexico, Taiwan, Turkey, UAE, USA.



ELIO CAVAGNA s.r.l.

I - 26832 GALGAGNANO (LODI) - ITALY - Via Curioni, 1 Tel. (+39) 0371 68099 (r.a.) - Fax (+39) 0371 68254 www.helioscavagna.com e-mail: info@helioscavagna.com

Agent: