











YOUTUBE



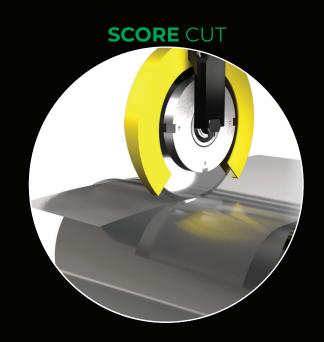
WEBSITE



KNIFE HOLDERS SERIES CUTTING TYPOLOGY









KNIFE HOLDERS SERIES CHOOSE YOUR CUTTING DEVICE

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	SHEAR CUT										SCORE CUT						RAZOR CUT						
CATEGORY	TOP THIN	1	TOP MANUAL		тоі	P EASY SETT	ING		ESSENTIAL			ВА	sıc										
MODEL	J1-19	J2-4ØC	J3L-48C	J3H-75C	J28-4ØC	J38-48C	J38-75C	JS2-40C	JS3-48C	JS3-75C	J1.3PCS	JCS2-4ØC	JCS3-48C	JCS3-75C	EK1.25	EK1.25 CS	EK3Ø	EKJ3Ø	JES3- TP48	J3H-TP48	HEAD	J3H -TL100	J3H -RB
									erchangea vith S serie												TL 90 TL 105 Tl 130 TL 150		
FEATURES																							
MIN. SLIT (mm)	20	40	50	75	40	50	75	40	50	75	20	40	50	75	25	25	30	40	50	80	20/40/50	100	80
BLADE/RAZOR	ø90 ø105	ø90 ø105	ø130 ø150	ø130 ø150 ø180 ø200	ø90 ø105	ø130 ø150	ø130 ø150 ø180 ø200	ø90 ø105	ø130 ø150	ø130 ø150	ø90 ø105	ø90 ø105	ø130 ø150	ø130 ø150	ø100	Ø100	Ø100	ø100	ø130 ø150 ø180	ø130 ø150 ø180	razor b. 43x22x 0,3	razor b. 43x22x 0,3	razor b. stanley 60x19x 0,65
MAX. SPEED (mpm)***	1000	1000	1500	2500	1000	1500	2500	600	1000	1200	1000	600	800	800	400	400	400	400	500	500	****	****	****
GUIDEBAR TYPE	3.15454.E	4.8579.E	4.8579.E	4.8579.E	4.318.E	4.318.E	4.318.E	4.7282.E	4.7283.E	4.7283.E	4.318.E	4.318.E	4.318.E	4.318.E	4.318.E	4.15454.E	4.318.E	4.8579.E	4.318.E	4.8579.E	**	4.8579.E	4.8579.E
VERTICAL FORCE														T	45kg	45kg	25kg	25kg	80kg	85kg		T	80kg
MATERIALS																							
	≤ 250	≤ 300	≤ 600	≤ 1500	≤ 300	≤ 600	≤ 1500	≤ 350	≤ 600	≤ 800	≤ 250	≤ 350	≤ 600	≤ 800	X	X	X	X	X	X	X	X	X
LAMINATE (gsm)	≤ 250	≤ 300	≤ 600	≤ 1500	≤ 300	≤ 600	≤ 1500	≤ 350	≤ 600	≤ 800	≤ 250	≤ 350	≤ 600	≤ 800	X	X	X	X	X	X	X	X	X
PLASTIC FILM/SHEET (mm)	≤ 0,6*	≤ 0,6	≤1	≤ 2*	≤ 0,6	≤1	≤ 2*	≤ 0,4	≤1	≤ 1,2	≤ 0,6	≤ 0,4	≤1	≤ 1,2	X	X	X	X	X	X	≤ 0,03	≤ 0,03	≤ 12
NONWOVEN (gsm)	≤ 300	≤ 400	≤ 600	≤ 1000	≤ 400	≤ 600	≤ 1000	≤ 400	≤ 600	≤ 800	≤ 300	≤ 400	≤ 600	≤ 800	∇	∇	∇	∇	∇	lacksquare	×	X	X
TEXTILE	∇	∇	∇	∇	∇	∇	∇	∇	∇	∇	∇	∇	∇	lacksquare	∇	V	∇	∇	V	lacksquare	X	X	X
ALUMINIUM (mcr)	≤ 200	≤ 200	<500	<500	≤ 200	≤ 500	≤ 500	≤ 200	≤ 200	≤ 300	≤ 200	≤ 200	≤ 200	≤ 300	X	X	X	X	X	X	X	X	X
RUBBER	∇	$\overline{\nabla}$	$\overline{\nabla}$	$\overline{\nabla}$	∇	∇	∇	$\overline{\nabla}$	∇	∇	∇	$\overline{\nabla}$	$\overline{\nabla}$	∇	∇	∇	∇	V	$\overline{\nabla}$	∇	∇	∇	∇
FIBERGLASS (gsm)	≤ 200	≤ 300	≤ 500	≤ 1000	≤ 300	≤ 500	≤ 1000	≤ 300	≤ 500	≤ 700	≤ 200	≤ 300	≤ 500	≤ 700	V	V	V	V	V	V	X	X	X
* Higher ask for feasibility X NOT POSSIBLE																							

Higher ask for feasibility



Guidebar type according to knifeholder model

^{***} Maximum appropriate speed determinated by maximum blade and counterblade diameter. It can also effect bladelife

^{****} Speed depends on razor steel quality



SHEAR CUT

Shear cutting means that a top knife is combined to a bottom knife that is motorized.

It is the right solution for every type of material, in order to obtain the best quality and a long life of the blades.

GOALS

- TOP CUT QUALITY
- NO DUST
- LONG BLADE LIFE
- SUGGESTED FOR HIGH SPEED
- ABLE TO CUT LARGE RANGE OF MATERIALS





SHEAR CUT MAIN FEATURES



OVERLAP SETTING BLADE STROKE REGULATION NONIUS



CANT ANGLEEASY SETTING FOR ALL MATERIALS



SIDE FORCE



HEAD EXTRACTION

FAST AND EASY



HEAD ROTATION



BLADE CHANGE



SAFETY

360°



POSITIONING KNOB

COMPLETE WITH PNEUMATIC BRAKE



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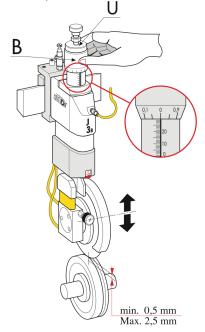
SLITTING

SHEAR CUT MAIN FEATURES

BLADE OVERLAP SETTING

STROKE REGULATION

Blade overlap, usually between 0.5 to 1.5mm, depends on material type. Thanks to depth adjustment it is possible to accurately set the blade stroke and find the correct overlap (penetration). With knife holder model J2 and J3 the overlap distance can be read on the graduated scale.





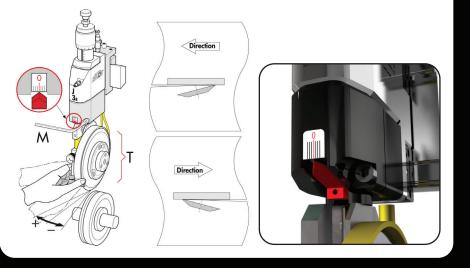
CUTTING ANGLE

EASY SETTING FOR ALL MATERIALS

With Helios knifeholders it is possible to find the correct cant angle. It means that without any extra tool the operator can set it according to material typology.

BENEFITS:

- · Reduce the contact surface between top and bottom knife.
- · Better cutting quality
- · Increase blade lifetime
- · Minimized dust generation



RATOR



SHEAR CUT MAIN FEATURES

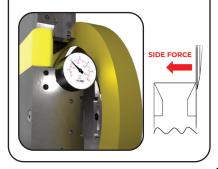
SIDE FORCE

ADJUSTMENT OF CUTTING PRESSURE BETWEEN TOP KNIFE AND BOTTOM KNIFE
Setting can be done by manual knob or pneumatic regulator.

MANUAL With positioning knob it is possible to set blade side load manually.

PNEUMATIC

With our pneumatic regulation version (J2B J3B) it is possible to obtain the correct side force pressure. The pressure gauge mounted on the knife holder displays the side load force being applied to the bottom knife. The operator can then adjust the side load pressure to the minimum required to cut the material which will prolong the knife life.

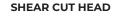


HEAD REPLACEMENT

EASY TO SWITCH FROM SHEAR TO RAZOR

With same knife holder it is possible to slit both with shear or razor cut, changing only the head.

It is the ideal solution where material range is large, giving the machine the capability to slit lightweight films up to paper and laminates.









BIBUS

SHEAR CUT TOP THIN - SERIES

SUITABLE FOR NARROW CUTS FROM 20mm

Designed to cut a large range of materials.

Thanks to the twin linear slides and individual pneumatic brake positioning is fast and easy. It is also possible to work at high machine speeds without vibration.

J1 can be supplied on our automatic knife setting systems.

TECH SPECS

J1

20mm MIN. SLIT BLADE ø90 ø105 MAX. SPEED 1000 mpm*** 3.15454.E **GUIDEBAR TYPE**

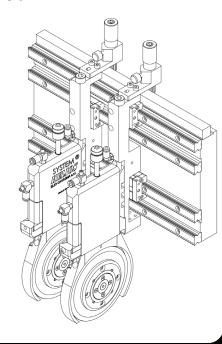
MATERIALS

PAPER ≤ 250 gsm LAMINATE ≤ 250 gsm ≤ 0,6 mm * PLASTIC FILM/SHEET ≤ 300 gsm NONWOVEN **TEXTILE** ASK ≤ 200 micron ALUMINIUM ASK RUBBER **FIBERGLASS** ≤ 200 gsm

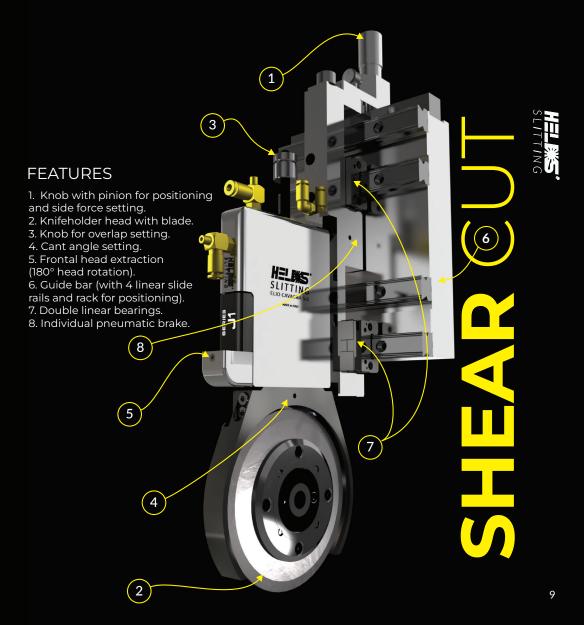


OPTIONAL

- \cdot FELT WITH LUBRIFICATION FOR BLADE CLEANING \cdot HEAD FOR RAZOR CUT



- * Higher, ask for feasibility
- *** Speed depends on bottom knife diameter







EXCELLENT CUT QUALITY

Designed to allow the operator to find the best settings to obtain the optimum cut quality. The graduated micrometre is used to set the optimal knife overlap which can then be repeated on all the other knife holders. Knife cant angle can be read, easily adjusted and locked. Thanks to the twin linear slides and pneumatic brake knife unit positioning is fast and easy. J2 an J3 are capable of running at high machine speeds without vibration. J2 and J3 can be supplied on our automatic knife setting systems.

TECH SPECS	J2 - 40C	J3L-48C	J3H-75C
MIN. SLIT	40 mm	50 mm	75 mm
BLADE	ø90 ø105	ø130 ø150	ø130ø150 ø180 ø200
MAX. SPEED	1000 mpm ***	1500 mpm	2500 mpm
GUIDEBAR TYPE	4.8579.E	4.8579.E	4.8579.E
MATERIALS			
PAPER	≤ 300 gsm	≤ 600 gsm	≤ 1500 gsm
LAMINATE	≤ 300 gsm	≤ 600 gsm	≤ 1500 gsm
PLASTIC FILM/SHEET	≤ 0,6 mm	≤1 mm	≤ 2 mm *
NONWOVEN	≤ 400 gsm	≤ 600 gsm	≤ 1000 gsm
TEXTILE	ASK	ASK	ASK
ALUMINIUM	≤ 200 micron	≤ 500 micron	≤ 500 micron
RUBBER	ASK	ASK	ASK
FIBERGLASS	≤ 300 gsm	≤ 500 gsm	≤ 1000 gsm



- 1. Knob with pinion for positioning and side force setting.
- 2. Knifeholder head with blade.
- 3. Graduated knife depth setting.
- 4. Cant angle setting.
- 5. Quick change bayonet knife locking.
- 6. Frontal head extraction
- (180° head rotation).
- 7. Guide bar with twin linear slides
- & full width rack for quick positioning.
- 8. Double linear bearings.
- 9. Individual pneumatic brake.
- 10. Automatic safety guard.



1



- · FELT WIPER WITH LUBRICATION SYSTEM
- · HEAD FOR RAZOR CUT
- · PLEXIGLASS SIDEGUARD FOR BLADE
- · SPECIAL GUARD FOR DUST EXTRACTION.





- * Higher, ask for feasibility
- *** Speed depends on bottom knife diameter

TOP EASY SETTING - SERIES

J2B | J3B

EXCELLENT CUT QUALITY AND KNIFE LIFE

Ideal solution for applications where blade and counterblade move together (Stj trims, automation or Fast Man). Robustly constructed for long life durability and high speed operations. Thanks to precise and repeatable micrometer knife depth setting, overlap between knife and bottonknife becomes easy and accurate. Individual knife holder cutting side load force is adjusted by a valve and displayed on a gauge.

TECH SPECS	J2B-40C	J3B-48C	J3B-75C
MIN. SLIT	40 mm	50 mm	75 mm
BLADE	ø90 ø105	ø130 ø150	ø130 ø150 ø180 ø200
MAX. SPEED	1000 mpm ***	1500 mpm	2500 mpm
GUIDEBAR TYPE	4.318.E	4.318.E	4.318.E
MATERIALS			
PAPER	≤ 300 gsm	≤ 600 gsm	≤ 1500 gsm
LAMINATE	≤ 300 gsm	≤ 600 gsm	≤ 1500 gsm
PLASTIC FILM/SHEET	≤ 0,6 mm	≤1 mm	≤ 2 mm *
NONWOVEN	≤ 400 gsm	≤ 600 gsm	≤ 1000 gsm
TEXTILE	ASK	ASK	ASK
ALUMINIUM	≤ 200 micron	≤ 500 micron	500 micron
RUBBER	ASK	ASK	ASK
FIBERGLASS	≤ 300 gsm	≤ 500 gsm	≤ 1000 gsm



OPTIONAL

- \cdot FELT WITH LUBRIFICATION FOR BLADE CLEANING
- · HEAD FOR RAZOR CUT
- · PLEXIGLASS SIDEGUARD FOR BLADE
- · BLADE COVER FOR DUST ASPIRATION
- * Higher, ask for feasibility
- *** Speed depends on bottom knife diameter

7 **FEATURES** 1. Knifeholder head with blade. 2. Graduated knife depth setting. 3. Cant angle setting. 4. Quick change bayonet knife locking. 5. Frontal head extraction (180° head rotation). 6. Guidebar clamp. 7. Dovetail guidebar. 8. Blade side force setting by pneumatic control. 9. Side load force pressure gauge. 10. Automatic safety guard. PRESSURE GAUGE (3) 5 9 10



JS2 | JS3

EXCELLENT CUT QUALITY

A quality knife holder at a competitive price. Featuring knife overlap adjustment, cant angle adjustment with graduated scale, automatic safety guard and linear slide, full width rack and pneumatic brake for fast and easy positioning. Can be used to replace older S series knife units.

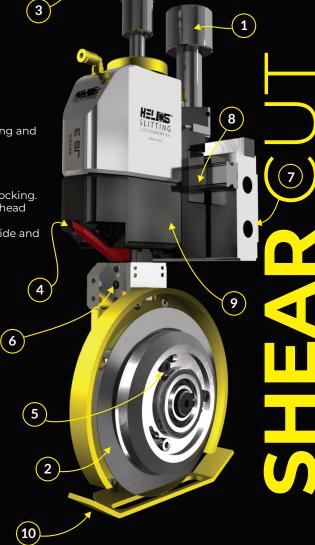
TECH SPECS	JS2-40C	JS3-48C	JS3-75C
MIN. SLIT	40 mm	50 mm	75 mm
BLADE	ø90 ø105	ø130 ø150	ø130 ø150
MAX. SPEED	600 mpm ***	1000 mpm	1200 mpm
GUIDEBAR TYPE	4.7282.E	4.7283.E	4.7283.E
MATERIALS			
PAPER	≤ 350 gsm	≤ 600 gsm	< 800 gsm
LAMINATE	≤ 350 gsm	≤ 600 gsm	< 800 gsm
PLASTIC FILM/SHEET	≤ 0,4 mm	≤1 mm	≤ 1,2 mm
NONWOVEN	≤ 400 gsm	≤ 600 gsm	≤ 800 gsm
TEXTILE	ASK	ASK	ASK
ALUMINIUM	≤ 200 micron	≤ 200 micron	≤ 300 micron
RUBBER	ASK	ASK	ASK
FIBERGLASS	≤ 300 gsm	≤ 500 gsm	≤ 700 gsm
	(DARDE)		(a) #249.(a)



^{***} Speed depends on bottom knife diameter

FEATURES

- 1. Knob with pinion for positioning and side force setting.
- 2. Knifeholder head with blade.
- 3. Knob for overlap setting.
- 4. Cant angle setting.
- 5. Quick change bayonet knife locking.
- 6. Frontal head extraction (180° head rotation).
- 7. Guide bar with single linear slide and full width rack..
- 8. Single linear bearing.
- 9. Individual pneumatic brake.
- 10. Automatic safety guard.





SHEAR CUT BASIC - SERIES

JCS2 | JCS3

EXCELLENT CUT QUALITY

FIBERGLASS

Basic knife holder with dovetail bar and mechanical locking. Knife overlap adjustment & cant angle adjustment with graduated scale to achieve the optimum setting for your material. Most suited to applications where slit width changes are minimal. Can be used to replace some old series knife units.

TECH SPECS JCS2-40C JCS3-48C JCS3-75C MIN. SLIT 75 mm 40 mm 50 mm BLADE ø130 ø150 ø130 ø150 ø90 ø105 MAX. SPEED 600 mpm*** 800 mpm 800 mpm **GUIDEBAR TYPE** 4.318.E 4.318.E 4.318.E **MATERIALS** PAPER ≤ 350 gsm ≤ 600 gsm ≤ 800 gsm LAMINATE ≤ 350 gsm ≤ 600 asm ≤ 800 gsm PLASTIC FILM/SHEET ≤ 0.4 mm ≤1mm ≤ 1,2 mm NONWOVEN ≤ 400 gsm ≤ 600 gsm ≤ 800 gsm **TEXTILE** ASK ASK ASK **ALUMINIUM** 200 micron 200 micron 300 micron RUBBER ASK ASK YES

≤ 300 gsm

* Higher, ask for feasibility

≤ 500 asm

≤ 700 gsm

(3) **FEATURES** 7 HELES. SLITTING ELIO CANADA 1. Position locking Knob. 2. Knifeholder head with blade. 3. Knob for overlap setting. 4. Cant angle setting. 5. Quick change bayonet knife locking. 6. Frontal head extraction (180° head rotation). 7. Guide bar. 8. Automatic safety guard. 2 5

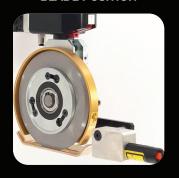
^{***} Speed depends on bottom knife diameter

SHEAR CUT OPTIONS LIST



SHEAR CUT

LASER TO CHECK BLADE POSITION



PLEXIGLASS SIDE COVER FOR BLADE



COVER FOR DUST EXTRACTION



FELT FOR BLADE LUBRICATION



INTERCHANGEABILITY WITH RAZOR BLADE







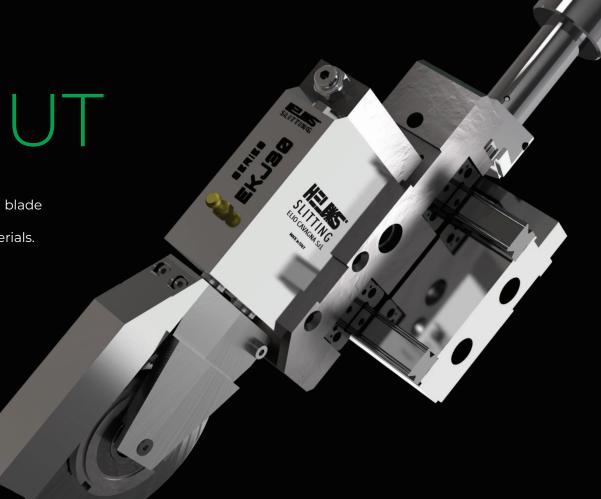
SCORE CUT

Pressure cut (rotary crush cut) is a solution where a blade cuts against an hardened anvil.

It is the right solution for textile, rubber or soft materials.

GOALS

- EASY SETTING
- FOR SOFT MATERIALS WITH HIGH THICKNESS
- EASY INSTALLATION





EK/JCS/J3H

EXCELLENT CUT QUALITY

Simple pneumatic holder easy to set, can be used both on basic manual positioning systems up to automatic ones.

TECH	SPECS
MIN. SLIT	
BLADE	

NOT SUGGESTED FOR PAPER AND PLASTIC FILM

MAX. SPEED **GUIDEBAR TYPE** VERTICAL FORCE

CS 25 mm Ø100

EK1.25

400 mpm*** 4.318.E 45 kg

EK1.25

25 mm Ø100 400 mpm*** 3.15454.E 45 kg

EK30

30 mm Ø100 400 mpm*** 4.318.E 25 kg

EKJ30

40 mm Ø100 400 mpm*** 4.8579.E 25 kg

JCS3-

TP48 50 mm Ø130 Ø150 Ø180 500 mpm*** 4.318.E 80 kg

J3H-TP48

80 mm Ø130 Ø150 Ø180 500 mpm*** 4.8579.E 85 kg















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SCORE CUT MAIN FEATURES

EK 1.25 CS

- 1. Dovetail guidebar.
- 2. Clamp Screw to lock the knife holder to the guide bar.
- 3. Air intake for blade descent.4. Body with double piston for blade descent.
- 5. Blade safety guard.
- 6. Knife holder head with double bearing.

EK1.25

- 1. Guidebar with double rail/double linear bearing.
- 2. Pneumatic brake.
- 3. Air intake for blade descent.
- 4. Body with double piston for blade descent.
- 5. Blade safety guard.
- 6. Knife holder head with double bearing.
- 7. Pinion knob for fast positioning.

EK30

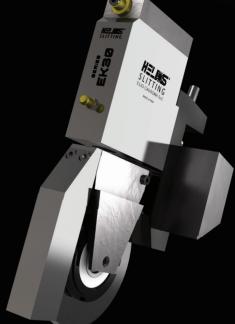
- 1. Dovetail guidebar.
- 2. Clamp Screw to lock the knife holder to the quide bar.
- 3. Air intake for blade descent.4. Body with double piston for blade descent.
- 5. Frontal blade cover
- 6. Knife holder head with double bearing.













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SCORE CUT MAIN FEATURES



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EKJ30

- 1. Gudebar with double rail/double linear bearing.
- 2. Carriage for knifeholder movement.
- 3. Knob with pinion for movement.
- 4. Pneumatic brake.
- 5. Air intake for blade descent.
- 6. Body with double piston for blade descent.
- 7. Frontal blade cover.
- 8. knife holder head with double bearing.

JCS3-TP48

- 1. Dovetail guidebar.
- 2. Guide clamp.
- 3. Handle for guide lock.
- 4. Air intake for blade descent.
- 5. Blade safety guard.
- 6. Stroke setting by knob.

J3H-TP48

- 1. Guidebar with double rail/double linear bearing.
- 2. Pneumatic brake.
- 3. Air intake for blade descent.
- 4. Body with double piston for blade descent.
- 5. Blade cover.
- 6. Stroke setting by knob.











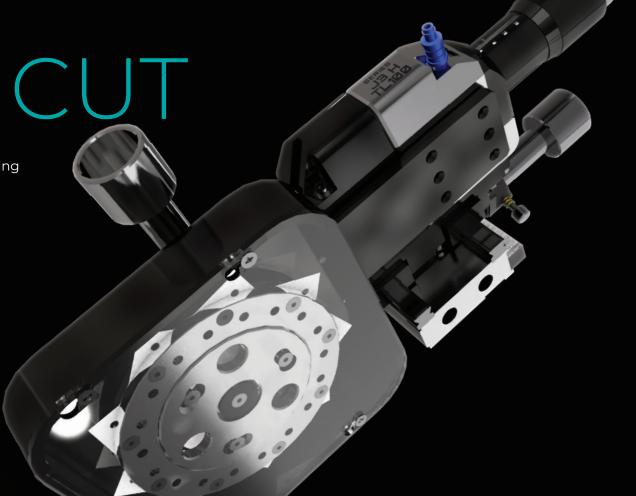


RAZOR CUT

Our razor cut solutions are user friendly, of fast setting and allow to work in complete safety.

GOALS

- EASY SETTING
- EASY INSTALLATION
- SHIFT FROM RAZOR TO SHEAR
- FULL SAFETY PROTECTION



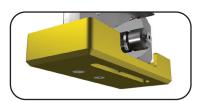


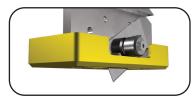
RAZOR CUT MAIN FEATURES

SAFETY

BLADE

All our razors are complete of a safety system that allows the operator to work without the risk to touch the blade.





POSITIONING KNOB

COMPLETE WITH PNEUMATIC BRAKE

Fast and easy position setting. Safe lock with pneumatic brake.



INTERCHANGEABILITY

SHEAR / RAZOR

Possible to swich from razor to shear and vice versa.

Thanks to this option it is possible to have on the same cutting station two different cutting typologies.

The change from razor to shear or shear to razor can be made at any time and it is not necessary at initial installation.



MULTI BLADE

REVOLVER

With our **revolver solution** you can **work** continuously.

By rotating the cassette the worn razor blade is replaced with a new blade. If the razor disk is removed multiple razor blades can be changed at the same time on the bench.

As the machine does not need to be stopped for individual razor blades to be replaced, machine running time and productivity is massively increased (format change without stopping cut only with tangential web passage).





RAZOR CUT SERIES

TL - RAZOR HEAD

MATCHING WITH ALL KNIFEHOLDERS J SERIES

Our razor cut is completely safe thanks to its automatic razor protection guard. Quick manual positioning utilising slide / bearing and pinion knob. This single razor head can be assembled on each knifeholder, also to substitute shear cut head with circular blade.

TECH SPECS TL - RAZOR HEAD

MIN. SLIT 20/40/50 mm BLADE 43x22x0,3mm

MAX. SPEED Depends on razor blade material GUIDEBAR TYPE Depends on knifeholder model

MATERIALS

RUBBER FIBERGLASS

PAPER ____
LAMINATE ≤ 30 micron
PLASTIC FILM/SHEET ___
NONWOVEN ___
TEXTILE ___
ALUMINIUM ASK

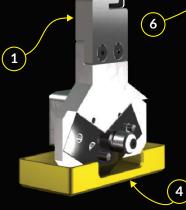
FEATURES

- 1. Frontal extraction of the head.
- 2. Inbuilt pneumatic locking brake.
- 3. Manual positioning with linear bearing and pinion knob.
- 4. Automatic razor blade safety guard.
- 5. Razor blade depth adjustment.
- 6. Guidebar with single rail / linear bearing.

MATCH WITH:

LSC EL SSL SL 1L







ON V





J3H - TL 100C

EXCELLENT CUT QUALITY

With our revolver you can work continuously. By rotating the cassette the worn blade is replaced with a new. If the head is removed multiple razor blades can be changed at the same time on the bench. As the machine does not need to be stopped for individual replacement, machine running time and productivity is massively increased*.

TECH SPECS

J3H - TL 100C

MIN. SLIT BLADE 100 mm

MAX. SPEED

43x22x0,3mm

MAX. SPEED GUIDEBAR TYPE Depends on razor blade material

4.8579.E

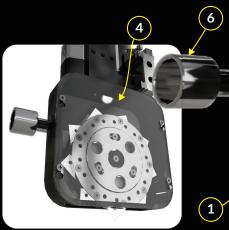
MATERIALS

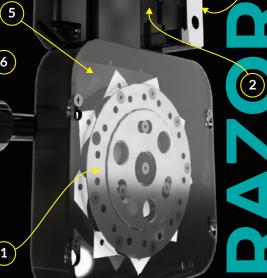
PLASTIC FILM

≤ 30 micron

FEATURES

- 1. Revolver with 9 razors.
- 2. Inbuilt pneumatic locking brake.
- 3. Manual positioning with linear bearing and pinion knob.
- 4. 360° razor blade safety guard.
- 5. Razor blade depth adjustment.
- 6. Knob for razor change/rotation.
- 7. Guidebar with 2 rails and rank for positioning.





(3)

* only with tangential web passage

BIBUS

RAZOR CUT SERIES

J3H - RB

SUGGESTED TO CUT HIGH THICKNESS PLASTIC SHEETS OR RUBBER.

Our razor cut is completely safe thanks to its automatic razor protection guard. Quick manual positioning utilising slide / bearing and pinion knob.

TECH SPECS

J3H - RB

MIN. SLIT BLADE STYLE: STANLEY MAX. SPEED

80 mm 60x19x0,65mm

GUIDEBAR TYPE

Depends on razor blade material 4.8579.E

VERTICAL FORCE

80 KG

MATERIALS

PLASTIC SHEET

> 2 up to 12 mm



FEATURES

1. Guidebar with 2 rails and rank for positioning.

2. Inbuilt pneumatic locking brake.

3. Fast & accurate manual positioning by pinion knob.

4. Automatic razor blade safety guard.

5. Razor blade depth adjustment.









ELIO CAVAGNA SRL

Via Curioni, 1, 26832 Galgagnano (LO) ITALY | tel. +39 0371 68099 website. www.heliosslitting.com | mail. info@heliosslitting.com

ADV AGENCY



