

Professional video-microscope series 2034/2054 CIL ROLL

Optic-Video version (objectives with screw fixing 4x/ 6x/ 10x/ 15x/ 20x/ 30x and specific eyepiece)
Video only version (objectives with magnetic fixing)

These extremely compact models are completely in aluminium and easy to move. They don't need external power connections, but only a single USB cable. They can be used on flat surfaces and on cylinders up to a minimum diameter of 80mm, (with the **Roll Plus** accessory, in a standard version or with magnetic rollers, it is possible to inspect rollers up to a minimum diameter of 10mm). The **2034 CIL Roll**, can be equipped with a 6000K led lighting system with coaxial light **CIL**, and with episcopic light (reflective lighting) **Pen Lite**. In both versions of illumination, the intensity of light can be regulated allowing for professional examination of very different surfaces (metal, paper, ceramic, plastic, mirrors, rough surfaces, etc.) having a wide range of objectives available for enlargements up to 2500x (with reference to a 17" monitor).

Coaxial light is ideal to examine extremely small imperfections or cracks on metal, while an examination of rubber and plastic surfaces in general is much more efficient with the **Pen Lite** episcopic lighting system, using low enlargement objectives (30-40x).

The **2034/2054 Roll CIL** is also supplied in an **optic-video** version, with the possibility of working optically, by inserting or removing the camera when a computer is not available. The choice between a **video only** version and an **optical and video** one should be made according to the kind of work to be carried out, to the quality of the image you want obtain and to the precision in the measures.

Each one of the two systems offers more advantages compared with the other according to the different applications. In general it can be stated that, if you need the coaxial light and you want to achieve the largest possible visual field, the **2034 CIL optic-video** series or only **CIL video** are recommended if you want to obtain high image quality and precision in the measures. With reference, for example, to the photogravure field, when cells of different types of lines are to be inspected or measured, the best solution is to use the **2034 CIL optic-video**, while if very small cells are to be analysed on **Anilox** ceramic cylinders it is best to choose the **2034 CIL video** as it offers greater precision in measurements and has a better support for the objectives with a high enlargement values.

The Mpx cameras connected to the whole range of these video-microscopes are all professional ones and can work with operative systems Windows 10. The camera can be **1,3Mpx** or **5Mpx**.

The optimal choice of the camera (*the price difference is very small*) depends a lot on the PC you will use. If you choose a 5Mpx camera, you must remember that a lot of resources will be required by the PC, and if they are not available, you will find a lot of difficulties already with the focusing, with image freezing, lag between frames etc. The most interesting benefits in the choice of the 5Mpx camera definitely lie in the possibility of zooming without losing the image quality and avoiding to purchase possible additional objectives with greater enlargement factors. If a normal PC is to be used, the 1.3Mpx camera will not create any problems.

Two different types of software ([Video View Basic](#) or [Video View Light](#)) can be combined with these microscopes according to the various working requirements: with Video View Basic all types of measurements can be taken, images can be captured, they can be compared, measurements can be taken on photos, also after some time and in another country (for example sent by E-mail without needing to reconnect the microscope), you can zoom adapting all the previously taken measurements to the new enlargement factor, you can superimpose an image or a CAD drawing in transparency over another video image etc.

If your only requirements are to take photos, make comparisons and linear measurements, without advanced functions, the **Video View Light** version is sufficient.



Camera datasheet and minimum system requirements:

USB camera: DNS-1.3 <i>Image Sensor:</i> 1/3" C-MOS 1.3 Megapixels <i>Available Resolutions:</i> 1280x960 (SXGA) <i>Output color format:</i> Y800, RGB24, RGB32 (8bits) Automatic/Manual White Balance USB2.0 interface <i>Operative temperature:</i> -5°C - 45°C	
USB camera: DNS-5.0 <i>Image Sensor:</i> 1/2.5" C-MOS 5 Megapixels <i>Available Resolutions:</i> 2592x1944, 1280x960 (SXGA), 640x480 (VGA) <i>Output color format:</i> Y800, RGB32 (8bits) Automatic/Manual White Balance USB2.0 interface <i>Operative temperature:</i> -5°C - 45°C	Minimum system requirements <i>Operating system :</i> Windows 10 (64 bit) <i>CPU:</i> Intel Core iX or equivalent <i>RAM memory:</i> 4 Gb (recommended 8 Gb) <i>Video card:</i> 1 Gb dedicated <i>Hard disk space:</i> about 100 MB <i>Input:</i> 1 USB2.0 for video input; 1 USB2.0 for the software dongle
NEW USB camera: ENS-5.0 Ultra fast with new USB 3.0 connector <i>Image Sensor:</i> 1/2.5" C-MOS 5 Megapixels <i>Available Resolutions:</i> 2592x1944, 1280x960 (SXGA) <i>Output color format:</i> Y800, Y16, RGB32 (8bits) Automatic/Manual White Balance USB3.0 interface <i>Operative temperature:</i> -5°C - 45°C 	

NB: if you want a new USB 3.0 camera (ENS-5.0) change in the product code (with DNS-5.0 camera) DS50 with ES50:

XXXXXXXXXX**DS50**XXXX => XXXXXXXXXXXX**ES50**XXXX

At the product price with the USB 2.0 camera (DNS-5.0) add 250.00€

LEGEND:

L: Video View LIGHT software

B: Video View BASIC software

V: only video

C: coaxial light version

R: base roll

RM: magnetic roll-base

Note: if you want a **magnetic roll-base**, add **M** after the **R** in the corresponding code and remove a **0**

Ex.: **2054-60 DS13-LR00** (roll) => **2054-60 DS13-LR**M**0** (magnetic roll)

NB.

For a much more cautious choice of the type of video-microscope to use in your work, we recommend that future users, especially those who are not very experienced in our video systems, read the available information about the differences between the various types of instruments proposed in this market segment. By answering a few simple questions, you will be able to make your own decision on the right choice. Naturally, your requirements may not be among the ones contemplated in the various pieces of equipment available but this should not discourage you, thinking that “you have wasted time”. We have more than 250 video systems; the suggested ones have been selected only among the most popular and are the less binding of our range, ... perhaps we have exactly what you are looking for.

DIFFERENCES BETWEEN THE MICROSCOPES series 2034 and 2054

2034: in 2034, focusing is much more linear, it is softer and more accurate as it uses a helical mechanism in vertical transmission of movement. The focusing sleeve does not have an excessive effect on the stability of the instrument in micro movements (objectives with great enlargement). Furthermore, the sleeve has 100 visible decimal divisions on the external crown from which it is possible to check the movement in the Z direction with a decimal precision, or as a reference point to return much faster to previous position.

2054: in 2054, regulation of focusing is performed using levers that act directly on a cog, making positioning much faster especially when low enlargement optics are used.

COAXIAL LIGHT (CIL) and REFLECTED LIGHT (Pen lite)

COAXIAL LIGHT: light reaches the surface of the object only in a perpendicular direction, passing across the same optical axis as the objective and creating strong contrasts; this is due to the axial upwards reflection of the rays originating from the flat surfaces (white on the screen and from grey to black, the ones reflected by the inclined surfaces). This system is ideal to visualize small cracks and incisions on metal and ceramic surfaces and on symmetrical surfaces in general: it does not adapt very well to surfaces such as paper, rubber and similar.

Using the **CIL** lighting system with microscopes from the series 2034-2054 only with a video camera, it is possible to use high enlargement objectives only (see table [LO1](#)). As the CIL lighting system allows for easy removal, it is also possible to use objectives with lower enlargement using reflected illumination (PEN LITE).

ILLUMINATING PEN: illumination is provided by an external light source in an inclined position compared with the surface of the object. In this case the image is created by shadows (dark-light) caused by the obstacles encountered by the rays along the way.

This system is particularly requested in the analysis of paper-type flat surfaces, in order to visualize morphology in the best possible way.

FLAT; ROLL; M-ROLL; ROLL-PLUS

FLAT: alone it is possible to use microscopes 2034/2054 for flat surfaces only.

ROLL: with supporting surfaces that are similar to rollers, it is possible to use microscopes 2034/2054 on curved surfaces (for example cylinders) and on flat surfaces. The supporting surfaces of the rollers in microscopes are covered in rubber to avoid damaging very delicate surfaces.

M-ROLL: the rollers of the microscopes can also be magnetic; they are recommended when users are forced to examine curved ferrous surfaces where the stability of the microscope may be jeopardized by possible movements or vibrations.

ROLL-PLUS : Couple of additional rolls to use with the stand Roll 2034-2054 for the inspection of curved surfaces or cylinders with 10 mm of minimum Ø.

VIDEO ONLY and VIDEO/OPTICS

VIDEO ONLY: by using this system it is possible to use all of the objectives and therefore enlargements of 25x to 2500x with reference to a monitor of 17" (see table [LO1](#) for video only systems).

- The video only, use objectives with a magnetic attachment (easy to replace, see table [LO1](#)).
- **The absence of additional optic groups and moving mechanical parts allows for a higher quality of images and greater precision in measuring compared with the optical/video version. Using the coaxial light (CIL) is not possible to use low**

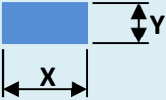
enlargement objectives, while it is possible to use 20x to 300x objectives in *optical* version with Pen lite.

OPTICS/VIDEO: the microscopes 2034-2054 that are provided with the optic and video system can only use objectives with a screw attachment, with the advantage of having low enlargement objectives even with a coaxial light (from 40x upwards Field of View 2,3x1.23mm, see table [LO2](#)). These microscopes are vital if a computer is not always available to hand.

WHICH VIDEO-MICROSCOPE SHOULD I CHOOSE?

By answering these simple questions (filling in the boxes) you can easily identify the most suitable article for your use and consequently the respective code.

Do you want to use the microscope with your PC only or also without?	only with the PC (only video version) ☐	also with the PC (optical/video version) ☐	Only optically (optical version) ☐
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What measurements in millimetres is the piece to be examined? (for the graphic field it is also best to refer to the type of lines/cm normally to be examined). 	Mm Inch Lines	12x6.7 0.47x0.26 1	10.2x5.7 0.40x0.22 1	7.4x4.13 0.29x0.16 1,2	6.1x3.41 0.24x0.13 2	4.1x2.29 0.16x0.09 2,3
	only video	25 ☐	30 ☐	40 ☐	50 ☐	75 ☐
	optical/video	-	-	-	-	-
	Mm Inch Lines	3.1x1.73 0.12x0.09 3,4	1.9x1.06 0.07x0.04 5	1.5x0.84 0.06x0.03 6,7	0.9x0.5 0.04x0.02 10	0.65x0.36 0.024x0.014 20
	only video	100 ☐	150 ☐	200 ☐	320 ☐	475 ☐
	optical/video	20X ☐	40X ☐	60X ☐	100X ☐	150X ☐
	Mm Inch Lines	0.4x0.22 0.015x0.009 25	0.26x0.15 0.010x0.006 50	0.17x0.09 0.007x0.004 60	0.11x0.06 0.004x0.002 100	
	only video	750 ☐	1100 ☐	1500 ☐	2350 ☐	
	optical/video	-	300X ☐	300X ☐	300X ☐	
	NB: the objectives recommended in this table may not be used as the visual field is connected to the dimension of the CCD and the type of instrument chosen. We suggest that you control the objectives available on the table TB100513, ask your dealer for confirmation or use the selection tool on our website http://www.lippolis.com/en/2034-2054Ch/Questions.asp					

Which materials have to be analysed?	metal, ceramic, mirrored surfaces, paper, plastic, rubber and similar (version CIL) ☐	only paper, rubber, plastic and similar (version Standard-Pen Lite) ☐
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Which surfaces do you analyse?	only flat (only flat version) ☐	flat and curved (roll version) ☐
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Do you normally take measurements? Which?	lines, circles, angles, areas, tolerance circles, etc. (Video View BASIC) ☐	not necessarily or only liner measurements (Video View LIGHT) ☐
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What are the requirements of your computer?	computer performing CPU: Intel i7 or higher RAM: 4Gbyte or higher (camera 5.0Mpx) ☐	computer for data management CPU: lower than Intel i5 RAM: less than 4Gbyte (camera 1.3Mpx) ☐
Do you give priority to the precision or to the speed of focusing?	precision in focusing (microscope series 2034) ☐	speed in focusing (microscope series 2054) ☐

Example:

1. Do you want to use the microscope only with the PC or without? Without **optic/video**
2. What is the measurement in millimetres of the fault to be analysed? If you analyse cylinders, how many reticulations are there in 10mm? 1,5x0,9mm **less than 10X**
3. What type of material is the surface to be analysed? Steel **CIL**
4. Which surfaces do you analyse? Only **flat**
5. Do you take measurements? Which? Circles and concentric circles **Video View BASIC**
6. Which systems does your computer have? Computer for data management **1,3Mpx**
7. Do you give priorities to precision or to the speed of focusing? Precision **2034**

Therefore the recommended version is:

2034-60 Cil	ONLY FLAT	1.3Mpx	V. V.BASIC	2034-60 DS13-BC00	€ / \$
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Microscopes for Flat and Roll surfaces (Only video)

Type: 2034/2054 with pen light and coaxial light

Video View Light - Video View Basic software



Kit complete of:

2034 Body (flat base) – 2034 Body(roll Base)

Professional USB camera: DNS-1.3 Mpx / DNS- 5.0 Mpx (32-64 Bit)

Special lighting pen adjustable light intensity
(to work with the camera)

Video View LIGHT/BASIC software

2m USB special cable (type A / Mini-4Pin)

Scale for automatic calibration

2034 VIDEO SERIES

to be completed with optical lenses



Kit complete of:

2054 Body (flat base) – 2054 Body(roll Base)

Professional USB camera: DNS-1.3 Mpx / DNS- 5.0 Mpx (32-64 Bit)

Special lighting pen adjustable light intensity
(to work with the camera)

Video View LIGHT/BASIC software

2m USB special cable (type A / Mini-4Pin)

Scale for automatic calibration

2054 VIDEO SERIES

to be completed with optical lenses

TYPE	SURFACE	CAMERA	SOFTWARE	CODE	PRICE (€)
2034	ONLY FLAT	1.3Mpx	V.V.LIGHT	2034-V-DS13-L000	1,815.00
2034	ONLY FLAT	5.0Mpx	V.V.LIGHT	2034-V-DS50-L000	1,869.00
2034	ONLY FLAT	1.3Mpx	V.V.BASIC	2034-V-DS13-B000	2,148.00
2034	ONLY FLAT	5.0Mpx	V.V.BASIC	2034-V-DS50-B000	2,202.00
2054	ONLY FLAT	1.3Mpx	V.V.LIGHT	2054-V-DS13-L000	1,671.00
2054	ONLY FLAT	5.0Mpx	V.V.LIGHT	2054-V-DS50-L000	1,725.00
2054	ONLY FLAT	1.3Mpx	V.V.BASIC	2054-V-DS13-B000	2,003.00
2054	ONLY FLAT	5.0Mpx	V.V.BASIC	2054-V-DS50-B000	2,057.00
2034 Cil	ONLY FLAT	1.3Mpx	V.V.LIGHT	2034-V-DS13-LC00	2,220.00
2034 Cil	ONLY FLAT	5.0Mpx	V.V.LIGHT	2034-V-DS50-LC00	2,274.00
2034 Cil	ONLY FLAT	1.3Mpx	V.V.BASIC	2034-V-DS13-BC00	2,552.00
2034 Cil	ONLY FLAT	5.0Mpx	V.V.BASIC	2034-V-DS50-BC00	2,606.00
2054 Cil	ONLY FLAT	1.3Mpx	V.V.LIGHT	2054-V-DS13-LC00	2,075.00
2054 Cil	ONLY FLAT	5.0Mpx	V.V.LIGHT	2054-V-DS50-LC00	2,129.00
2054 Cil	ONLY FLAT	1.3Mpx	V.V.BASIC	2054-V-DS13-BC00	2,408.00

2054 Cil	<i>ONLY FLAT</i>	<i>5.0Mpx</i>	<i>V.V.BASIC</i>	2054-V-DS50-BC00	2,462.00
2034 Roll	<i>FLAT & ROLL</i>	<i>1.3Mpx</i>	<i>V.V.LIGHT</i>	2034-V-DS13-LR00	2,031.00
2034 Roll	<i>FLAT & ROLL</i>	<i>5.0Mpx</i>	<i>V.V.LIGHT</i>	2034-V-DS50-LR00	2,085.00
2034 Roll	<i>FLAT & ROLL</i>	<i>1.3Mpx</i>	<i>V.V.BASIC</i>	2034-V-DS13-BR00	2,363.00
2034 Roll	<i>FLAT & ROLL</i>	<i>5.0Mpx</i>	<i>V.V.BASIC</i>	2034-V-DS50-BR00	2,417.00
2054 Roll	<i>FLAT & ROLL</i>	<i>1.3Mpx</i>	<i>V.V.LIGHT</i>	2054-V-DS13-LR00	1,886.00
2054 Roll	<i>FLAT & ROLL</i>	<i>5.0Mpx</i>	<i>V.V.LIGHT</i>	2054-V-DS50-LR00	1,940.00
2054 Roll	<i>FLAT & ROLL</i>	<i>1.3Mpx</i>	<i>V.V.BASIC</i>	2054-V-DS13-BR00	2,218.00
2054 Roll	<i>FLAT & ROLL</i>	<i>5.0Mpx</i>	<i>V.V.BASIC</i>	2054-V-DS50-BR00	2,272.00
2034 Cil Roll	<i>FLAT & ROLL</i>	<i>1.3Mpx</i>	<i>V.V.LIGHT</i>	2034-V-DS13-LCR0	2,435.00
2034 Cil Roll	<i>FLAT & ROLL</i>	<i>5.0Mpx</i>	<i>V.V.LIGHT</i>	2034-V-DS50-LCR0	2,489.00
2034 Cil Roll	<i>FLAT & ROLL</i>	<i>1.3Mpx</i>	<i>V.V.BASIC</i>	2034-V-DS13-BCR0	2,768.00
2034 Cil Roll	<i>FLAT & ROLL</i>	<i>5.0Mpx</i>	<i>V.V.BASIC</i>	2034-V-DS50-BCR0	2,822.00
2054 Cil Roll	<i>FLAT & ROLL</i>	<i>1.3Mpx</i>	<i>V.V.LIGHT</i>	2054-V-DS13-LCR0	2,291.00
2054 Cil Roll	<i>FLAT & ROLL</i>	<i>5.0Mpx</i>	<i>V.V.LIGHT</i>	2054-V-DS50-LCR0	2,345.00
2054 Cil Roll	<i>FLAT & ROLL</i>	<i>1.3Mpx</i>	<i>V.V.BASIC</i>	2054-V-DS13-BCR0	2,623.00
2054 Cil Roll	<i>FLAT & ROLL</i>	<i>5.0Mpx</i>	<i>V.V.BASIC</i>	2054-V-DS50-BCR0	2,677.00

ROLLS PLUS / MAGNETIC ROLLS PLUS:
*Couple of additional rolls to use with the stand Roll 2034-2054
for the inspection of curved surfaces or cylinders with 10 mm of minimum Ø*



ROLLS PLUS
for Roll series
code SPT OVT 000281 € 223.00



MAGNETIC ROLLS PLUS
for Magnetic Roll series
code SPT OVT 000282 € 283.00

NB: to be specified at the order because they are prepared only during assembly



Optical Lenses *(magnetic attach)*

Only for “**only video**” version
Table LO1



2034/2054 Microscope (only video) reflected light.	2034/2054 Microscope (only video) coaxial light.	MAGNIFI- CATION	FIELD OF VIEW mm inch	CODE	PRICE €
* 25		30X	12x6.7 0.47x0.26	0025-00PL 34-540M	242.00
* 30		30X	10.2x5.7 0.40x0.22	0030-00PL 34-540M	242.00
* 40		50X	7.4x4.13 0.29x0.16	0040-00PL 34-540M	242.00
* 50		58X	6.1x3.41 0.24x0.13	0050-00PL 34-540M	363.00
* 75		83X	4.1x2.29 0.16x0.09	0075-00PL 34-540M	363.00
* 100		110X	3.1x1.73 0.12x0.09	0100-00PL 34-540M	363.00
* 150		163X	1.9x1.06 0.07x0.04	0150-00PL 34-540M	363.00
	200	190X	1.5x0.84 0.06x0.03	0200-CLPL 34-540M	220.00
	320	333X	0.9x0.5 0.04x0.02	0320-CLPL 34-540M	220.00
	475	480X	0.65x0.36 0.024x0.014	0475-CLPL 34-540M	220.00
	750	815X	0.4x0.22 0.015x0.009	0750-CLPL 34-540M	278.00
	1100	1170X	0.26x0.15 0.010x0.006	1100-CLPL 34-540M	318.00
	1500	1630X	0.17x0.09 0.007x0.004	1500-CLPL 34-540M	358.00
	2350	2400X	0.11x0.06 0.004x0.002	2350-CLPL 34-540M	478.00

(*): Only using with pen light.

Magnifications and field of view are indicative because they depend of the device and the CCD used. For the real measure we recommend to see the table TB100513.

Microscopes for flat and roll surfaces (optical and Video)

Type: 2034/2054 with pen light /coaxial light

Video View Light - Video View Basic software



2034 OPTIC/VIDEO SERIES

Kit complete of:

2034 Body (flat base) -- **2034 Body**(roll Base)

One Objective lenses: 40/60/100/150/200/300

(See table T02 to choose the correct one)

Eyepiece (See table T02 to choose the correct one)

Professional USB camera: DNS-1.3 Mpx / DNS- 5.0 Mpx
(32-64 Bit)

Special lighting pen adjustable light intensity

(to work with the camera and power supply)

USB portable rechargeable lithium battery

Capacity: 2200Mah

Input: DC 5V/900mA max

Output: DC 5V/1500mA max

Dimension: Ø 21,3mm x 129mm

Weight: 73g

Supports most mobile devices

15 cm USB cable (A type / micro B) for battery charging

Video View LIGHT/BASIC software

2m USB special cable (type A / Mini-4Pin)

Scale for automatic calibration



2054 OPTIC/VIDEO SERIES

Kit complete of:

2054 Body (flat base) -- **2054 Body**(roll Base)

One Objective lenses: 40/60/100/150/200/300

(See table T02 to choose the correct one)

Eyepiece (See table T02 to choose the correct one)

Professional USB camera: DNS-1.3 Mpx / DNS- 5.0 Mpx
(32-64 Bit)

Special lighting pen adjustable light intensity

(to work with the camera and power supply)

USB portable rechargeable lithium battery

Capacity: 2200Mah

Input: DC 5V/900mA max

Output: DC 5V/1500mA max

Dimension: Ø 21,3mm x 129mm

Weight: 73g

Supports most mobile devices

15 cm USB cable (A type / micro B) for battery charging

Video View LIGHT/BASIC software

2m USB special cable (type A / Mini-4Pin)

Scale for automatic calibration

TYPE	SURFACE	CAMERA	SOFTWARE	CODE	PRICE (€)
2034-20	ONLY FLAT	1.3Mpx	V.V.LIGHT	2034-20 DS13-L000	2,000.00
2034-20	ONLY FLAT	5.0Mpx	V.V.LIGHT	2034-20 DS50-L000	2,054.00
2034-20	ONLY FLAT	1.3Mpx	V. V.BASIC	2034-20 DS13-B000	2,332.00
2034-20	ONLY FLAT	5.0Mpx	V. V.BASIC	2034-20 DS50-B000	2,386.00
2034-20 Roll	FLAT & ROLL	1.3Mpx	V.V.LIGHT	2034-20 DS13-LR00	2,215.00
2034-20 Roll	FLAT & ROLL	5.0Mpx	V.V.LIGHT	2034-20 DS50-LR00	2,269.00

2034-20 Roll	<i>FLAT & ROLL</i>	<i>1.3Mpx</i>	<i>V. V.BASIC</i>	2034-20 DS13-BR00	2,548.00
2034-20 Roll	<i>FLAT & ROLL</i>	<i>5.0Mpx</i>	<i>V. V.BASIC</i>	2034-20 DS50-BR00	2,602.00
2054-20	<i>ONLY FLAT</i>	<i>1.3Mpx</i>	<i>V.V.LIGHT</i>	2054-20 DS13-L000	1,855.00
2054-20	<i>ONLY FLAT</i>	<i>5.0Mpx</i>	<i>V.V.LIGHT</i>	2054-20 DS50-L000	1,909.00
2054-20	<i>ONLY FLAT</i>	<i>1.3Mpx</i>	<i>V. V.BASIC</i>	2054-20 DS13-B000	2,188.00
2054-20	<i>ONLY FLAT</i>	<i>5.0Mpx</i>	<i>V. V.BASIC</i>	2054-20 DS50-B000	2,242.00
2054-20 Roll	<i>FLAT & ROLL</i>	<i>1.3Mpx</i>	<i>V.V.LIGHT</i>	2054-20 DS13-LR00	2,071.00
2054-20 Roll	<i>FLAT & ROLL</i>	<i>5.0Mpx</i>	<i>V.V.LIGHT</i>	2054-20 DS50-LR00	2,125.00
2054-20 Roll	<i>FLAT & ROLL</i>	<i>1.3Mpx</i>	<i>V. V.BASIC</i>	2054-20 DS13-BR00	2,403.00
2054-20 Roll	<i>FLAT & ROLL</i>	<i>5.0Mpx</i>	<i>V. V.BASIC</i>	2054-20 DS50-BR00	2,457.00
2034-40	<i>ONLY FLAT</i>	<i>1.3Mpx</i>	<i>V.V.LIGHT</i>	2034-40 DS13-L000	2,000.00
2034-40	<i>ONLY FLAT</i>	<i>5.0Mpx</i>	<i>V.V.LIGHT</i>	2034-40 DS50-L000	2,054.00
2034-40	<i>ONLY FLAT</i>	<i>1.3Mpx</i>	<i>V. V.BASIC</i>	2034-40 DS13-B000	2,332.00
2034-40	<i>ONLY FLAT</i>	<i>5.0Mpx</i>	<i>V. V.BASIC</i>	2034-40 DS50-B000	2,386.00
2034-40 Cil	<i>ONLY FLAT</i>	<i>1.3Mpx</i>	<i>V.V.LIGHT</i>	2034-40 DS13-LC00	2,405.00
2034-40 Cil	<i>ONLY FLAT</i>	<i>5.0Mpx</i>	<i>V.V.LIGHT</i>	2034-40 DS50-LC00	2,512.00
2034-40 Cil	<i>ONLY FLAT</i>	<i>1.3Mpx</i>	<i>V. V.BASIC</i>	2034-40 DS13-BC00	2,737.00
2034-40 Cil	<i>ONLY FLAT</i>	<i>5.0Mpx</i>	<i>V. V.BASIC</i>	2034-40 DS50-BC00	2,791.00
2034-40 Roll	<i>FLAT & ROLL</i>	<i>1.3Mpx</i>	<i>V.V.LIGHT</i>	2034-40 DS13-LR00	2,215.00
2034-40 Roll	<i>FLAT & ROLL</i>	<i>5.0Mpx</i>	<i>V.V.LIGHT</i>	2034-40 DS50-LR00	2,269.00
2034-40 Roll	<i>FLAT & ROLL</i>	<i>1.3Mpx</i>	<i>V. V.BASIC</i>	2034-40 DS13-BR00	2,548.00
2034-40 Roll	<i>FLAT & ROLL</i>	<i>5.0Mpx</i>	<i>V. V.BASIC</i>	2034-40 DS50-BR00	2,602.00
2034-40 Cil Roll	<i>FLAT & ROLL</i>	<i>1.3Mpx</i>	<i>V.V.LIGHT</i>	2034-40 DS13-LCR0	2,620.00
2034-40 Cil Roll	<i>FLAT & ROLL</i>	<i>5.0Mpx</i>	<i>V.V.LIGHT</i>	2034-40 DS50-LCR0	2,728.00
2034-40 Cil Roll	<i>FLAT & ROLL</i>	<i>1.3Mpx</i>	<i>V. V.BASIC</i>	2034-40 DS13-BCR0	2,952.00
2034-40 Cil Roll	<i>FLAT & ROLL</i>	<i>5.0Mpx</i>	<i>V. V.BASIC</i>	2034-40 DS50-BCR0	3,006.00
2054-40	<i>ONLY FLAT</i>	<i>1.3Mpx</i>	<i>V.V.LIGHT</i>	2054-40 DS13-L000	1,855.00
2054-40	<i>ONLY FLAT</i>	<i>5.0Mpx</i>	<i>V.V.LIGHT</i>	2054-40 DS50-L000	1,909.00
2054-40	<i>ONLY FLAT</i>	<i>1.3Mpx</i>	<i>V. V.BASIC</i>	2054-40 DS13-B000	2,188.00
2054-40	<i>ONLY FLAT</i>	<i>5.0Mpx</i>	<i>V. V.BASIC</i>	2054-40 DS50-B000	2,242.00
2054-40 Cil	<i>ONLY FLAT</i>	<i>1.3Mpx</i>	<i>V.V.LIGHT</i>	2054-40 DS13-LC00	2,260.00
2054-40 Cil	<i>ONLY FLAT</i>	<i>5.0Mpx</i>	<i>V.V.LIGHT</i>	2054-40 DS50-LC00	2,314.00
2054-40 Cil	<i>ONLY FLAT</i>	<i>1.3Mpx</i>	<i>V. V.BASIC</i>	2054-40 DS13-BC00	2,592.00
2054-40 Cil	<i>ONLY FLAT</i>	<i>5.0Mpx</i>	<i>V. V.BASIC</i>	2054-40 DS50-BC00	2,646.00

2054-40 Roll	<i>FLAT & ROLL</i>	<i>1.3Mpx</i>	<i>V.V.LIGHT</i>	2054-40 DS13-LR00	2,071.00
2054-40 Roll	<i>FLAT & ROLL</i>	<i>5.0Mpx</i>	<i>V.V.LIGHT</i>	2054-40 DS50-LR00	2,125.00
2054-40 Roll	<i>FLAT & ROLL</i>	<i>1.3Mpx</i>	<i>V. V.BASIC</i>	2054-40 DS13-BR00	2,403.00
2054-40 Roll	<i>FLAT & ROLL</i>	<i>5.0Mpx</i>	<i>V. V.BASIC</i>	2054-40 DS50-BR00	2,457.00
2054-40 Cil Roll	<i>FLAT & ROLL</i>	<i>1.3Mpx</i>	<i>V.V.LIGHT</i>	2054-40 DS13-LCR0	2,475.00
2054-40 Cil Roll	<i>FLAT & ROLL</i>	<i>5.0Mpx</i>	<i>V.V.LIGHT</i>	2054-40 DS50-LCR0	2,529.00
2054-40 Cil Roll	<i>FLAT & ROLL</i>	<i>1.3Mpx</i>	<i>V. V.BASIC</i>	2054-40 DS13-BCR0	2,808.00
2054-40 Cil Roll	<i>FLAT & ROLL</i>	<i>5.0Mpx</i>	<i>V. V.BASIC</i>	2054-40 DS50-BCR0	2,862.00
2034-60	<i>ONLY FLAT</i>	<i>1.3Mpx</i>	<i>V.V.LIGHT</i>	2034-60 DS13-L000	2,031.00
2034-60	<i>ONLY FLAT</i>	<i>5.0Mpx</i>	<i>V.V.LIGHT</i>	2034-60 DS50-L000	2,085.00
2034-60	<i>ONLY FLAT</i>	<i>1.3Mpx</i>	<i>V. V.BASIC</i>	2034-60 DS13-B000	2,363.00
2034-60	<i>ONLY FLAT</i>	<i>5.0Mpx</i>	<i>V. V.BASIC</i>	2034-60 DS50-B000	2,417.00
2034-60 Cil	<i>ONLY FLAT</i>	<i>1.3Mpx</i>	<i>V.V.LIGHT</i>	2034-60 DS13-LC00	2,435.00
2034-60 Cil	<i>ONLY FLAT</i>	<i>5.0Mpx</i>	<i>V.V.LIGHT</i>	2034-60 DS50-LC00	2,543.00
2034-60 Cil	<i>ONLY FLAT</i>	<i>1.3Mpx</i>	<i>V. V.BASIC</i>	2034-60 DS13-BC00	2,768.00
2034-60 Cil	<i>ONLY FLAT</i>	<i>5.0Mpx</i>	<i>V. V.BASIC</i>	2034-60 DS50-BC00	2,822.00
2034-60 Roll	<i>FLAT & ROLL</i>	<i>1.3Mpx</i>	<i>V.V.LIGHT</i>	2034-60 DS13-LR00	2,246.00
2034-60 Roll	<i>FLAT & ROLL</i>	<i>5.0Mpx</i>	<i>V.V.LIGHT</i>	2034-60 DS50-LR00	2,300.00
2034-60 Roll	<i>FLAT & ROLL</i>	<i>1.3Mpx</i>	<i>V. V.BASIC</i>	2034-60 DS13-BR00	2,578.00
2034-60 Roll	<i>FLAT & ROLL</i>	<i>5.0Mpx</i>	<i>V. V.BASIC</i>	2034-60 DS50-BR00	2,632.00
2034-60 Cil Roll	<i>FLAT & ROLL</i>	<i>1.3Mpx</i>	<i>V.V.LIGHT</i>	2034-60 DS13-LCR0	2,651.00
2034-60 Cil Roll	<i>FLAT & ROLL</i>	<i>5.0Mpx</i>	<i>V.V.LIGHT</i>	2034-60 DS50-LCR0	2,758.00
2034-60 Cil Roll	<i>FLAT & ROLL</i>	<i>1.3Mpx</i>	<i>V. V.BASIC</i>	2034-60 DS13-BCR0	2,983.00
2034-60 Cil Roll	<i>FLAT & ROLL</i>	<i>5.0Mpx</i>	<i>V. V.BASIC</i>	2034-60 DS50-BCR0	3,037.00
2054-60	<i>ONLY FLAT</i>	<i>1.3Mpx</i>	<i>V.V.LIGHT</i>	2054-60 DS13-L000	1,886.00
2054-60	<i>ONLY FLAT</i>	<i>5.0Mpx</i>	<i>V.V.LIGHT</i>	2054-60 DS50-L000	1,940.00
2054-60	<i>ONLY FLAT</i>	<i>1.3Mpx</i>	<i>V. V.BASIC</i>	2054-60 DS13-B000	2,218.00
2054-60	<i>ONLY FLAT</i>	<i>5.0Mpx</i>	<i>V. V.BASIC</i>	2054-60 DS50-B000	2,272.00
2054-60 Cil	<i>ONLY FLAT</i>	<i>1.3Mpx</i>	<i>V.V.LIGHT</i>	2054-60 DS13-LC00	2,291.00
2054-60 Cil	<i>ONLY FLAT</i>	<i>5.0Mpx</i>	<i>V.V.LIGHT</i>	2054-60 DS50-LC00	2,345.00
2054-60 Cil	<i>ONLY FLAT</i>	<i>1.3Mpx</i>	<i>V. V.BASIC</i>	2054-60 DS13-BC00	2,623.00
2054-60 Cil	<i>ONLY FLAT</i>	<i>5.0Mpx</i>	<i>V. V.BASIC</i>	2054-60 DS50-BC00	2,677.00
2054-60 Roll	<i>FLAT & ROLL</i>	<i>1.3Mpx</i>	<i>V.V.LIGHT</i>	2054-60 DS13-LR00	2,102.00

2054-60 Roll	<i>FLAT & ROLL</i>	<i>5.0Mpx</i>	<i>V.V.LIGHT</i>	2054-60 DS50-LR00	2,155.00
2054-60 Roll	<i>FLAT & ROLL</i>	<i>1.3Mpx</i>	<i>V. V.BASIC</i>	2054-60 DS13-BR00	2,434.00
2054-60 Roll	<i>FLAT & ROLL</i>	<i>5.0Mpx</i>	<i>V. V.BASIC</i>	2054-60 DS50-BR00	2,488.00
2054-60 Cil Roll	<i>FLAT & ROLL</i>	<i>1.3Mpx</i>	<i>V.V.LIGHT</i>	2054-60 DS13-LCR0	2,506.00
2054-60 Cil Roll	<i>FLAT & ROLL</i>	<i>5.0Mpx</i>	<i>V.V.LIGHT</i>	2054-60 DS50-LCR0	2,560.00
2054-60 Cil Roll	<i>FLAT & ROLL</i>	<i>1.3Mpx</i>	<i>V. V.BASIC</i>	2054-60 DS13-BCR0	2,838.00
2054-60 Cil Roll	<i>FLAT & ROLL</i>	<i>5.0Mpx</i>	<i>V. V.BASIC</i>	2054-60 DS50-BCR0	2,892.00
2034-100	<i>ONLY FLAT</i>	<i>1.3Mpx</i>	<i>V.V.LIGHT</i>	2034-100 DS13-L00	2,077.00
2034-100	<i>ONLY FLAT</i>	<i>5.0Mpx</i>	<i>V.V.LIGHT</i>	2034-100 DS50-L00	2,131.00
2034-100	<i>ONLY FLAT</i>	<i>1.3Mpx</i>	<i>V. V.BASIC</i>	2034-100 DS13-B00	2,409.00
2034-100	<i>ONLY FLAT</i>	<i>5.0Mpx</i>	<i>V. V.BASIC</i>	2034-100 DS50-B00	2,463.00
2034-100 Cil	<i>ONLY FLAT</i>	<i>1.3Mpx</i>	<i>V.V.LIGHT</i>	2034-100 DS13-LC0	2,482.00
2034-100 Cil	<i>ONLY FLAT</i>	<i>5.0Mpx</i>	<i>V.V.LIGHT</i>	2034-100 DS50-LC0	2,589.00
2034-100 Cil	<i>ONLY FLAT</i>	<i>1.3Mpx</i>	<i>V. V.BASIC</i>	2034-100 DS13-BC0	2,814.00
2034-100 Cil	<i>ONLY FLAT</i>	<i>5.0Mpx</i>	<i>V. V.BASIC</i>	2034-100 DS50-BC0	2,868.00
2034-100 Roll	<i>FLAT & ROLL</i>	<i>1.3Mpx</i>	<i>V.V.LIGHT</i>	2034-100 DS13-LR0	2,292.00
2034-100 Roll	<i>FLAT & ROLL</i>	<i>5.0Mpx</i>	<i>V.V.LIGHT</i>	2034-100 DS50-LR0	2,346.00
2034-100 Roll	<i>FLAT & ROLL</i>	<i>1.3Mpx</i>	<i>V. V.BASIC</i>	2034-100 DS13-BR0	2,625.00
2034-100 Roll	<i>FLAT & ROLL</i>	<i>5.0Mpx</i>	<i>V. V.BASIC</i>	2034-100 DS50-BR0	2,678.00
2034-100 Cil Roll	<i>FLAT & ROLL</i>	<i>1.3Mpx</i>	<i>V.V.LIGHT</i>	2034-100 DS13LCR0	2,697.00
2034-100 Cil Roll	<i>FLAT & ROLL</i>	<i>5.0Mpx</i>	<i>V.V.LIGHT</i>	2034-100 DS50LCR0	2,805.00
2034-100 Cil Roll	<i>FLAT & ROLL</i>	<i>1.3Mpx</i>	<i>V. V.BASIC</i>	2034-100 DS13BCR0	3,029.00
2034-100 Cil Roll	<i>FLAT & ROLL</i>	<i>5.0Mpx</i>	<i>V. V.BASIC</i>	2034-100 DS50BCR0	3,083.00
2054-100	<i>ONLY FLAT</i>	<i>1.3Mpx</i>	<i>V.V.LIGHT</i>	2054-100 DS13-L00	1,932.00
2054-100	<i>ONLY FLAT</i>	<i>5.0Mpx</i>	<i>V.V.LIGHT</i>	2054-100 DS50-L00	1,986.00
2054-100	<i>ONLY FLAT</i>	<i>1.3Mpx</i>	<i>V. V.BASIC</i>	2054-100 DS13-B00	2,265.00
2054-100	<i>ONLY FLAT</i>	<i>5.0Mpx</i>	<i>V. V.BASIC</i>	2054-100 DS50-B00	2,318.00
2054-100 Cil	<i>ONLY FLAT</i>	<i>1.3Mpx</i>	<i>V.V.LIGHT</i>	2054-100 DS13-LC0	2,337.00
2054-100 Cil	<i>ONLY FLAT</i>	<i>5.0Mpx</i>	<i>V.V.LIGHT</i>	2054-100 DS50-LC0	2,391.00
2054-100 Cil	<i>ONLY FLAT</i>	<i>1.3Mpx</i>	<i>V. V.BASIC</i>	2054-100 DS13-BC0	2,669.00
2054-100 Cil	<i>ONLY FLAT</i>	<i>5.0Mpx</i>	<i>V. V.BASIC</i>	2054-100 DS50-BC0	2,723.00
2054-100 Roll	<i>FLAT & ROLL</i>	<i>1.3Mpx</i>	<i>V.V.LIGHT</i>	2054-100 DS13-LR0	2,148.00
2054-100 Roll	<i>FLAT & ROLL</i>	<i>5.0Mpx</i>	<i>V.V.LIGHT</i>	2054-100 DS50-LR0	2,202.00

2054-100 Roll	<i>FLAT & ROLL</i>	<i>1.3Mpx</i>	<i>V. V.BASIC</i>	2054-100 DS13-BR0	2,480.00
2054-100 Roll	<i>FLAT & ROLL</i>	<i>5.0Mpx</i>	<i>V. V.BASIC</i>	2054-100 DS50-BR0	2,534.00
2054-100 Cil Roll	<i>FLAT & ROLL</i>	<i>1.3Mpx</i>	<i>V.V.LIGHT</i>	2054-100 DS13LCR0	2,552.00
2054-100 Cil Roll	<i>FLAT & ROLL</i>	<i>5.0Mpx</i>	<i>V.V.LIGHT</i>	2054-100 DS50LCR0	2,606.00
2054-100 Cil Roll	<i>FLAT & ROLL</i>	<i>1.3Mpx</i>	<i>V. V.BASIC</i>	2054-100 DS13BCR0	2,885.00
2054-100 Cil Roll	<i>FLAT & ROLL</i>	<i>5.0Mpx</i>	<i>V. V.BASIC</i>	2054-100 DS50BCR0	2,938.00
2034-150	<i>ONLY FLAT</i>	<i>1.3Mpx</i>	<i>V.V.LIGHT</i>	2034-150 DS13-L00	2,123.00
2034-150	<i>ONLY FLAT</i>	<i>5.0Mpx</i>	<i>V.V.LIGHT</i>	2034-150 DS50-L00	2,177.00
2034-150	<i>ONLY FLAT</i>	<i>1.3Mpx</i>	<i>V. V.BASIC</i>	2034-150 DS13-B00	2,455.00
2034-150	<i>ONLY FLAT</i>	<i>5.0Mpx</i>	<i>V. V.BASIC</i>	2034-150 DS50-B00	2,509.00
2034-150 Cil	<i>ONLY FLAT</i>	<i>1.3Mpx</i>	<i>V.V.LIGHT</i>	2034-150 DS13-LC0	2,528.00
2034-150 Cil	<i>ONLY FLAT</i>	<i>5.0Mpx</i>	<i>V.V.LIGHT</i>	2034-150 DS50-LC0	2,635.00
2034-150 Cil	<i>ONLY FLAT</i>	<i>1.3Mpx</i>	<i>V. V.BASIC</i>	2034-150 DS13-BC0	2,860.00
2034-150 Cil	<i>ONLY FLAT</i>	<i>5.0Mpx</i>	<i>V. V.BASIC</i>	2034-150 DS50-BC0	2,914.00
2034-150 Roll	<i>FLAT & ROLL</i>	<i>1.3Mpx</i>	<i>V.V.LIGHT</i>	2034-150 DS13-LR0	2,338.00
2034-150 Roll	<i>FLAT & ROLL</i>	<i>5.0Mpx</i>	<i>V.V.LIGHT</i>	2034-150 DS50-LR0	2,392.00
2034-150 Roll	<i>FLAT & ROLL</i>	<i>1.3Mpx</i>	<i>V. V.BASIC</i>	2034-150 DS13-BR0	2,671.00
2034-150 Roll	<i>FLAT & ROLL</i>	<i>5.0Mpx</i>	<i>V. V.BASIC</i>	2034-150 DS50-BR0	2,725.00
2034-150 Cil Roll	<i>FLAT & ROLL</i>	<i>1.3Mpx</i>	<i>V.V.LIGHT</i>	2034-150 DS13LCR0	2,743.00
2034-150 Cil Roll	<i>FLAT & ROLL</i>	<i>5.0Mpx</i>	<i>V.V.LIGHT</i>	2034-150 DS50LCR0	2,851.00
2034-150 Cil Roll	<i>FLAT & ROLL</i>	<i>1.3Mpx</i>	<i>V. V.BASIC</i>	2034-150 DS13BCR0	3,075.00
2034-150 Cil Roll	<i>FLAT & ROLL</i>	<i>5.0Mpx</i>	<i>V. V.BASIC</i>	2034-150 DS50BCR0	3,129.00
2054-150	<i>ONLY FLAT</i>	<i>1.3Mpx</i>	<i>V.V.LIGHT</i>	2054-150 DS13-L00	1,978.00
2054-150	<i>ONLY FLAT</i>	<i>5.0Mpx</i>	<i>V.V.LIGHT</i>	2054-150 DS50-L00	2,032.00
2054-150	<i>ONLY FLAT</i>	<i>1.3Mpx</i>	<i>V. V.BASIC</i>	2054-150 DS13-B00	2,311.00
2054-150	<i>ONLY FLAT</i>	<i>5.0Mpx</i>	<i>V. V.BASIC</i>	2054-150 DS50-B00	2,365.00
2054-150 Cil	<i>ONLY FLAT</i>	<i>1.3Mpx</i>	<i>V.V.LIGHT</i>	2054-150 DS13-LC0	2,383.00
2054-150 Cil	<i>ONLY FLAT</i>	<i>5.0Mpx</i>	<i>V.V.LIGHT</i>	2054-150 DS50-LC0	2,437.00
2054-150 Cil	<i>ONLY FLAT</i>	<i>1.3Mpx</i>	<i>V. V.BASIC</i>	2054-150 DS13-BC0	2,715.00
2054-150 Cil	<i>ONLY FLAT</i>	<i>5.0Mpx</i>	<i>V. V.BASIC</i>	2054-150 DS50-BC0	2,769.00
2054-150 Roll	<i>FLAT & ROLL</i>	<i>1.3Mpx</i>	<i>V.V.LIGHT</i>	2054-150 DS13-LR0	2,194.00
2054-150 Roll	<i>FLAT & ROLL</i>	<i>5.0Mpx</i>	<i>V.V.LIGHT</i>	2054-150 DS50-LR0	2,248.00
2054-150 Roll	<i>FLAT & ROLL</i>	<i>1.3Mpx</i>	<i>V. V.BASIC</i>	2054-150 DS13-BR0	2,526.00

2054-150 Roll	<i>FLAT & ROLL</i>	<i>5.0Mpx</i>	<i>V. V.BASIC</i>	2054-150 DS50-BR0	2,580.00
2054-150 Cil Roll	<i>FLAT & ROLL</i>	<i>1.3Mpx</i>	<i>V.V.LIGHT</i>	2054-150 DS13LCR0	2,598.00
2054-150 Cil Roll	<i>FLAT & ROLL</i>	<i>5.0Mpx</i>	<i>V.V.LIGHT</i>	2054-150 DS50LCR0	2,652.00
2054-150 Cil Roll	<i>FLAT & ROLL</i>	<i>1.3Mpx</i>	<i>V. V.BASIC</i>	2054-150 DS13BCR0	2,931.00
2054-150 Cil Roll	<i>FLAT & ROLL</i>	<i>5.0Mpx</i>	<i>V. V.BASIC</i>	2054-150 DS50BCR0	2,985.00
2034-200	<i>ONLY FLAT</i>	<i>1.3Mpx</i>	<i>V.V.LIGHT</i>	2034-200 DS13-L00	2,169.00
2034-200	<i>ONLY FLAT</i>	<i>5.0Mpx</i>	<i>V.V.LIGHT</i>	2034-200 DS50-L00	2,223.00
2034-200	<i>ONLY FLAT</i>	<i>1.3Mpx</i>	<i>V.V. BASIC</i>	2034-200 DS13-B00	2,502.00
2034-200	<i>ONLY FLAT</i>	<i>5.0Mpx</i>	<i>V.V.BASIC</i>	2034-200 DS50-B00	2,555.00
2034-200 Cil	<i>ONLY FLAT</i>	<i>1.3Mpx</i>	<i>V.V.LIGHT</i>	2034-200 DS13-LC0	2,574.00
2034-200 Cil	<i>ONLY FLAT</i>	<i>5.0Mpx</i>	<i>V.V.LIGHT</i>	2034-200 DS50-LC0	2,682.00
2034-200 Cil	<i>ONLY FLAT</i>	<i>1.3Mpx</i>	<i>V.V. BASIC</i>	2034-200 DS13-BC0	2,906.00
2034-200 Cil	<i>ONLY FLAT</i>	<i>5.0Mpx</i>	<i>V.V.BASIC</i>	2034-200 DS50-BC0	2,960.00
2034-200 Roll	<i>FLAT & ROLL</i>	<i>1.3Mpx</i>	<i>V.V.LIGHT</i>	2034-200 DS13-LR0	2,385.00
2034-200 Roll	<i>FLAT & ROLL</i>	<i>5.0Mpx</i>	<i>V.V.LIGHT</i>	2034-200 DS50-LR0	2,438.00
2034-200 Roll	<i>FLAT & ROLL</i>	<i>1.3Mpx</i>	<i>V.V. BASIC</i>	2034-200 DS13-BR0	2,717.00
2034-200 Roll	<i>FLAT & ROLL</i>	<i>5.0Mpx</i>	<i>V.V.BASIC</i>	2034-200 DS50-BR0	2,771.00
2034-200 Cil Roll	<i>FLAT & ROLL</i>	<i>1.3Mpx</i>	<i>V.V.LIGHT</i>	2034-200 DS13LCR0	2,789.00
2034-200 Cil Roll	<i>FLAT & ROLL</i>	<i>5.0Mpx</i>	<i>V.V.LIGHT</i>	2034-200 DS50LCR0	2,897.00
2034-200 Cil Roll	<i>FLAT & ROLL</i>	<i>1.3Mpx</i>	<i>V.V. BASIC</i>	2034-200 DS13BCR0	3,122.00
2034-200 Cil Roll	<i>FLAT & ROLL</i>	<i>5.0Mpx</i>	<i>V.V.BASIC</i>	2034-200 DS50BCR0	3,175.00
2054-200	<i>ONLY FLAT</i>	<i>1.3Mpx</i>	<i>V.V.LIGHT</i>	2054-200 DS13-L00	2,025.00
2054-200	<i>ONLY FLAT</i>	<i>5.0Mpx</i>	<i>V.V.LIGHT</i>	2054-200 DS50-L00	2,078.00
2054-200	<i>ONLY FLAT</i>	<i>1.3Mpx</i>	<i>V.V. BASIC</i>	2054-200 DS13-B00	2,357.00
2054-200	<i>ONLY FLAT</i>	<i>5.0Mpx</i>	<i>V.V.BASIC</i>	2054-200 DS50-B00	2,411.00
2054-200 Cil	<i>ONLY FLAT</i>	<i>1.3Mpx</i>	<i>V.V.LIGHT</i>	2054-200 DS13-LC0	2,429.00
2054-200 Cil	<i>ONLY FLAT</i>	<i>5.0Mpx</i>	<i>V.V.LIGHT</i>	2054-200 DS50-LC0	2,498.00
2054-200 Cil	<i>ONLY FLAT</i>	<i>1.3Mpx</i>	<i>V.V. BASIC</i>	2054-200 DS13-BC0	2,762.00
2054-200 Cil	<i>ONLY FLAT</i>	<i>5.0Mpx</i>	<i>V.V.BASIC</i>	2054-200 DS50-BC0	2,815.00
2054-200 Roll	<i>FLAT & ROLL</i>	<i>1.3Mpx</i>	<i>V.V.LIGHT</i>	2054-200 DS13-LR0	2,240.00
2054-200 Roll	<i>FLAT & ROLL</i>	<i>5.0Mpx</i>	<i>V.V.LIGHT</i>	2054-200 DS50-LR0	2,294.00
2054-200 Roll	<i>FLAT & ROLL</i>	<i>1.3Mpx</i>	<i>V.V. BASIC</i>	2054-200 DS13-BR0	2,572.00
2054-200 Roll	<i>FLAT & ROLL</i>	<i>5.0Mpx</i>	<i>V.V.BASIC</i>	2054-200 DS50-BR0	2,626.00

2054-200 Cil Roll	FLAT & ROLL	1.3Mpx	V.V.LIGHT	2054-200 DS13LCR0	2,645.00
2054-200 Cil Roll	FLAT & ROLL	5.0Mpx	V.V.LIGHT	2054-200 DS50LCR0	2,714.00
2054-200 Cil Roll	FLAT & ROLL	1.3Mpx	V.V. BASIC	2054-200 DS13BCR0	2,977.00
2054-200 Cil Roll	FLAT & ROLL	5.0Mpx	V.V.BASIC	2054-200 DS50BCR0	3,031.00
2034-300	ONLY FLAT	1.3Mpx	V.V.LIGHT	2034-300 DS13-L00	2,277.00
2034-300	ONLY FLAT	5.0Mpx	V.V.LIGHT	2034-300 DS50-L00	2,331.00
2034-300	ONLY FLAT	1.3Mpx	V.V.BASIC	2034-300 DS13-B00	2,609.00
2034-300	ONLY FLAT	5.0Mpx	V.V.BASIC	2034-300 DS50-B00	2,663.00
2034-300 Cil	ONLY FLAT	1.3Mpx	V.V.LIGHT	2034-300 DS13-LC0	2,682.00
2034-300 Cil	ONLY FLAT	5.0Mpx	V.V.LIGHT	2034-300 DS50-LC0	2,789.00
2034-300 Cil	ONLY FLAT	1.3Mpx	V.V.BASIC	2034-300 DS13-BC0	3,014.00
2034-300 Cil	ONLY FLAT	5.0Mpx	V.V.BASIC	2034-300 DS50-BC0	3,068.00
2034-300 Roll	FLAT & ROLL	1.3Mpx	V.V.LIGHT	2034-300 DS13-LR0	2,492.00
2034-300 Roll	FLAT & ROLL	5.0Mpx	V.V.LIGHT	2034-300 DS50-LR0	2,546.00
2034-300 Roll	FLAT & ROLL	1.3Mpx	V.V.BASIC	2034-300 DS13-BR0	2,825.00
2034-300 Roll	FLAT & ROLL	5.0Mpx	V.V.BASIC	2034-300 DS50-BR0	2,878.00
2034-300 Cil Roll	FLAT & ROLL	1.3Mpx	V.V.LIGHT	2034-300 DS13LCR0	2,897.00
2034-300 Cil Roll	FLAT & ROLL	5.0Mpx	V.V.LIGHT	2034-300 DS50LCR0	3,005.00
2034-300 Cil Roll	FLAT & ROLL	1.3Mpx	V.V.BASIC	2034-300 DS13BCR0	3,229.00
2034-300 Cil Roll	FLAT & ROLL	5.0Mpx	V.V.BASIC	2034-300 DS50BCR0	3,283.00
2054-300	ONLY FLAT	1.3Mpx	V.V.LIGHT	2054-300 DS13-L00	2,132.00
2054-300	ONLY FLAT	5.0Mpx	V.V.LIGHT	2054-300 DS50-L00	2,186.00
2054-300	ONLY FLAT	1.3Mpx	V.V.BASIC	2054-300 DS13-B00	2,465.00
2054-300	ONLY FLAT	5.0Mpx	V.V.BASIC	2054-300 DS50-B00	2,518.00
2054-300 Cil	ONLY FLAT	1.3Mpx	V.V.LIGHT	2054-300 DS13-LC0	2,537.00
2054-300 Cil	ONLY FLAT	5.0Mpx	V.V.LIGHT	2054-300 DS50-LC0	2,591.00
2054-300 Cil	ONLY FLAT	1.3Mpx	V.V.BASIC	2054-300 DS13-BC0	2,869.00
2054-300 Cil	ONLY FLAT	5.0Mpx	V.V.BASIC	2054-300 DS50-BC0	2,923.00
2054-300 Roll	FLAT & ROLL	1.3Mpx	V.V.LIGHT	2054-300 DS13-LR0	2,348.00
2054-300 Roll	FLAT & ROLL	5.0Mpx	V.V.LIGHT	2054-300 DS50-LR0	2,402.00
2054-300 Roll	FLAT & ROLL	1.3Mpx	V.V.BASIC	2054-300 DS13-BR0	2,680.00
2054-300 Roll	FLAT & ROLL	5.0Mpx	V.V.BASIC	2054-300 DS50-BR0	2,734.00
2054-300 Cil Roll	FLAT & ROLL	1.3Mpx	V.V.LIGHT	2054-300 DS13LCR0	2,752.00

2054-300 Cil Roll	<i>FLAT & ROLL</i>	<i>5.0Mpx</i>	<i>V.V.LIGHT</i>	2054-300 DS50LCR0	2,806.00
2054-300 Cil Roll	<i>FLAT & ROLL</i>	<i>1.3Mpx</i>	<i>V.V.BASIC</i>	2054-300 DS13BCR0	3,085.00
2054-300 Cil Roll	<i>FLAT & ROLL</i>	<i>5.0Mpx</i>	<i>V.V.BASIC</i>	2054-300 DS50BCR0	3,138.00

Optical Lenses (screw attach, to match with eyepieces)
Only for “**optic / video**” version
Table LO2

Additional objectives								
Magnification	20X	40X	60X	100X	150X	200X	300X	
Working distance	36.0 mm	18.7 mm	10.8 mm	5.7 mm	9.2 mm	6.7 mm	4.0 mm	
Code	ML-2	ML-4	ML-6	ML-10	ML-15	ML-20	ML-30	
Price	€ 89.00	€ 89.00	€ 116.00	€ 131.00	€ 204.00	€ 299.00	€ 488.00	
	Eyepieces with internal measuring scale							
	For objective	20X	40X	60X	100X	150X	200X	300X
	Min. scale div.	0.1 mm	0.05 mm	0.02 mm	0.01 mm	0.005 mm	0.002 mm	0.001 mm
		0.005"	0.002"	0.001"	0.0005"	0.0002"	0.0001"	-
	Code	ME-2	ME-4	ME-6	ME-10	ME-15	ME-20	ME-30
	Eyepiece without internal measuring scale							
	For objective	20X - 40X - 60X - 100X - 150X - 200X - 300X						
	Code	ME-X						
	Price	€ 145.00						

NB:

The eyepiece is not necessarily required for all objective lenses.

Only in the case you should make measurements the eye piece will must be chosen relative to the objective you have (within the objective's case there is a scale which must be necessarily coupled with the right objective, to avoid errors in the measures).

Kit without Peak optical microscope but with led Pen Light and Video View



Kit complete of:

Professional USB camera: DNS-1.3 Mpx / DNS- 5.0 Mpx (32-64 Bit)

Special lighting pen adjustable light intensity (to work with the camera and USB portable power supply)

Video View LIGHT/BASIC software

USB portable power supply

Capacity: 2200Mah

Input: DC 5V/900mA max

Output: DC 5V/1500mA max

Dimension: Ø 21,3mm x 129mm

Weight: 73g

Supports most mobile devices

15 cm USB cable (A type / micro B) for battery charging

2m USB special cable (type A / Mini-4Pin)

Scale for automatic calibration

CAMERA	SOFTWARE	CODE	PRICE (€)
1.3Mpx	V.V. LIGHT	34-54 KIT DS13L00	1.192,00
1.3Mpx	V.V. BASIC	34-54 KIT DS13B00	1.542,00
5.0Mpx USB 2.0	V.V. LIGHT	34-54 KIT DS50L00	1.227,00
5.0Mpx USB 2.0	V.V. BASIC	34-54 KIT DS50B00	1.577,00
5.0Mpx USB 3.0	V.V. LIGHT	34-54 KIT ES50L00	1.477,00
5.0Mpx USB 3.0	V.V. BASIC	34-54 KIT ES50B00	1.827,00

ACCESSORIES



USB portable power supply (Replacement)

Capacity: 2200Mah

Input: DC 5V/900mA max

Output: DC 5V/1500mA max

Dimension: Ø 21,3mm x 129mm

Weight: 73g

Supports most mobile devices

15 cm USB cable (A type / micro B) for battery charging

COMPATIBILITY:

✓ **SPT OVT 13 4PNDMR**

✓ **SPT OVT 13 4PNUSB**

Code POWER SPY 013 BTY

€ 42.00



High light intensity Pen Light (4 pin)

For Lippolis camera series with possibility to change light intensity (Replacement for 2034-54 Video and Video-Optic series)

COMPATIBILITY:

✓ **All 2034-54 devices**

Code SPT OVT 13 4PNPEN

€ 65.00



High light intensity Pen Light USB UV-365nm

With ultraviolet led light (365 nm)
(cable length: 2m)

COMPATIBILITY:

✓ **All 2034-54 devices**

✓ **POWER SPY 013 BTY**

Code SPT PEN 000672

€ 120.00



High light intensity Pen Light USB UV-370nm

With ultraviolet led light (370 nm)
(cable length: 2m)

COMPATIBILITY:

✓ **All 2034-54 devices**

✓ **POWER SPY 013 BTY**

Code SPT PEN 000673

€ 80.00

	High light intensity Pen Light USB IR-830nm With infrared led light (830 nm) (cable length: 2m) COMPATIBILITY: ✓ All 2034-54 devices ✓ POWER SPY 013 BTY Code SPT PEN 000692 € 55.00
	High light intensity Pen Light Lighting pen with high intensity led light (6000K) and long life lithium batteries. with 2 lithium batteries of 3,6V (AA). COMPATIBILITY: ✓ All 2034-54 devices Code SPT PEN 000585 € 44.00
	lithium battery of 3,6V (AA). COMPATIBILITY: ✓ SPT PEN 000585 Code SML ELT PIL 121 € 6.00
	Spacer to bring the objective to the target The spacer permits the focus also when the object is too far. A possible example is when the microscope is on a raised floor and the object surface is too far below of this floor. COMPATIBILITY: ✓ 2034-54 Microscopes only Video Code SPT OVT 000072 € 47,00
	Suitcase with PC-Tablet Surface Suitcase to transport the 2034-54 microscope with PC-Tablet (Surface with windows 10) with Video View software preinstalled and calibrated. COMPATIBILITY: ✓ 2034-54 microscopes Code STC 3454 SRF 00013 € 1.875,00



Suitcase

Suitcase to transport the 2034-54 microscope.

COMPATIBILITY:

✓ **2034-54 microscopes**

Code VAL AMA 000511

€ 255,00