



COLOREEL®

One thread. Unlimited colors.

The worlds first instant
thread coloring unit



This is Coloreel

Coloreel is a Swedish technology innovation company within the textile industry. Since 2009 the company has developed the ground-breaking Coloreel technology that enables instant thread coloring during production, opening up amazing new possibilities.

Coloreel's first product based on this technology is a thread coloring unit designed to be used with industrial embroidery machines.

In the future, this technology can also be used for sewing, knitting, weaving and more.

The possibilities with Coloreel



Exactly the right colors

The Coloreel unit offers unlimited colors and always provides exactly the right color when needed.



Amazing color effects

Color changes can be made rapidly between any solid color or gradually to make smooth transitions.



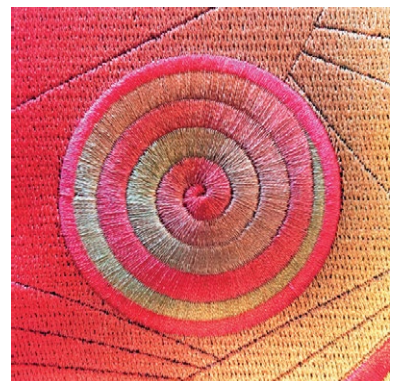
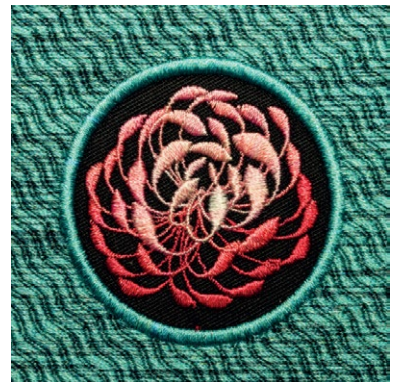
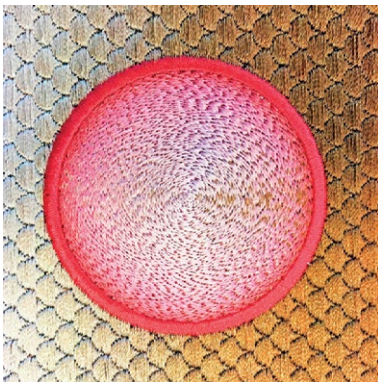
Increased productivity

Only one thread reel per embroidery head minimizes thread stocks and reduces lead times. No unnecessary trims and lock stitches gives faster production and improved flexibility.

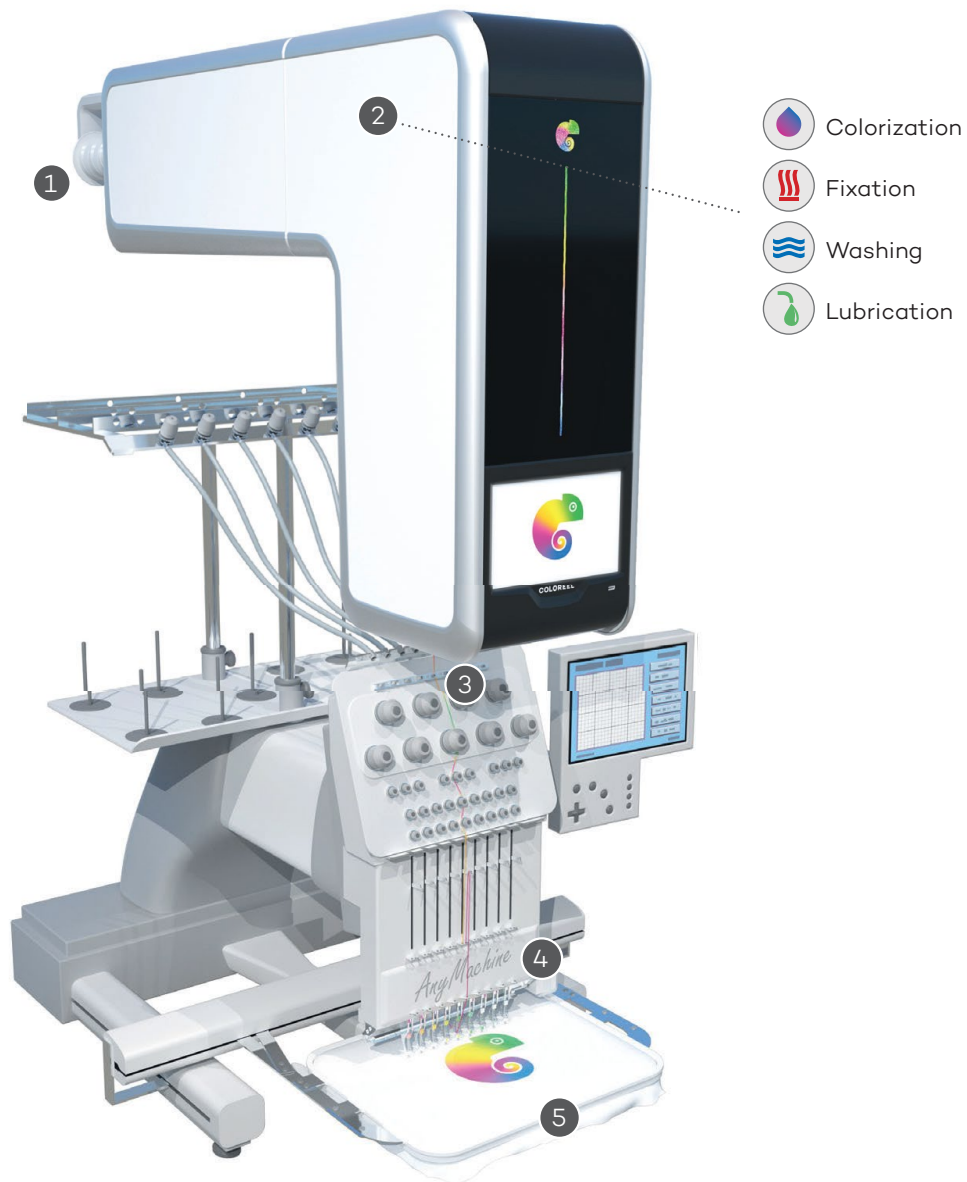


No thread waste

Dyeing only the amount of thread required reduces waste and minimizes the use of resources.



Coloreel functionality



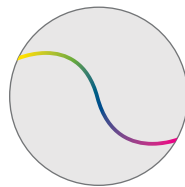
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The unique
Coloreel
thread



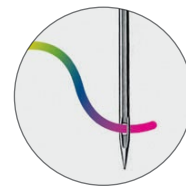
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The Coloring
process



3

The colored
Coloreel
thread



4

Embroidery
production with any
type of embroidery
machine



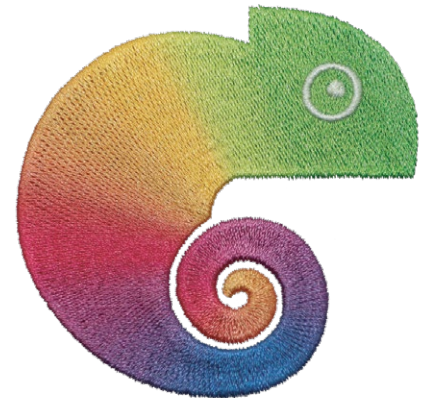
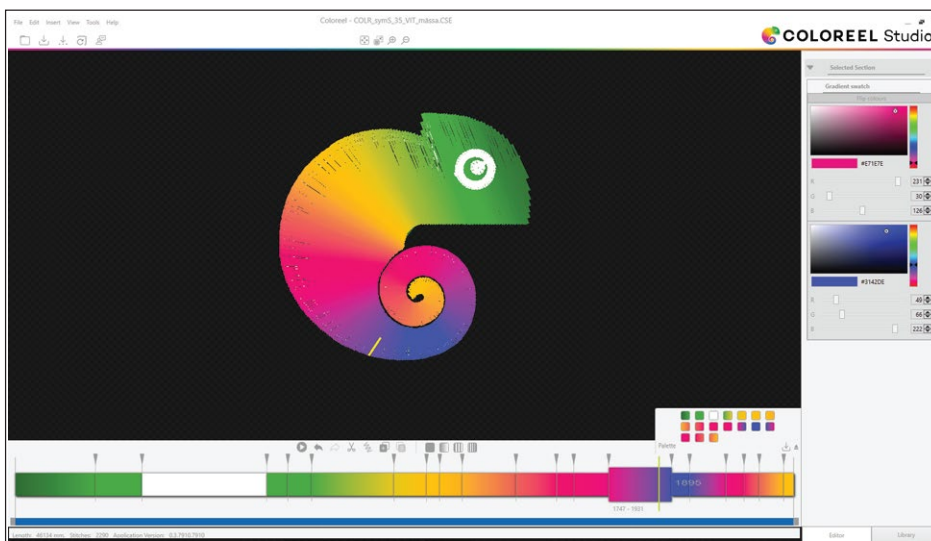
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Embroidery
with color
effects never
seen before

How to make Coloreel files

- 1 Create the Coloreel embroidery design using any digitizing software.
- 2 Save the design as a DST file.
- 3 Open the DST file in Coloreel Studio, the embroidery colorization software.
- 4 Choose your unique solid color, smooth color transition, or create any type of effect imaginable.
- 5 Input the DST file into the embroidery machine.
- 6 Input the Coloreel Studio file into the Coloreel unit.
- 7 Start the embroidery machine.
- 8 Watch the future of embroidery taking place right in front of your own eyes!

Coloreel Studio



Coloreel Studio is the software tool for colorization of embroidery designs.

This program is the link between digitization software and the Coloreel unit. In Coloreel Studio, add colors and effects to embroidery designs. When finished input to the Coloreel unit over a network or by using a USB Stick, and operate the embroidery machine as normal. The program is made with simplicity in mind. The tools are carefully selected and simple to use. If familiar with any digitization software, this tool will be easy to learn.

Coloreel

is a standalone unit designed to accommodate and work in tandem with a single head embroidery machine.

Consumables



Thread cone



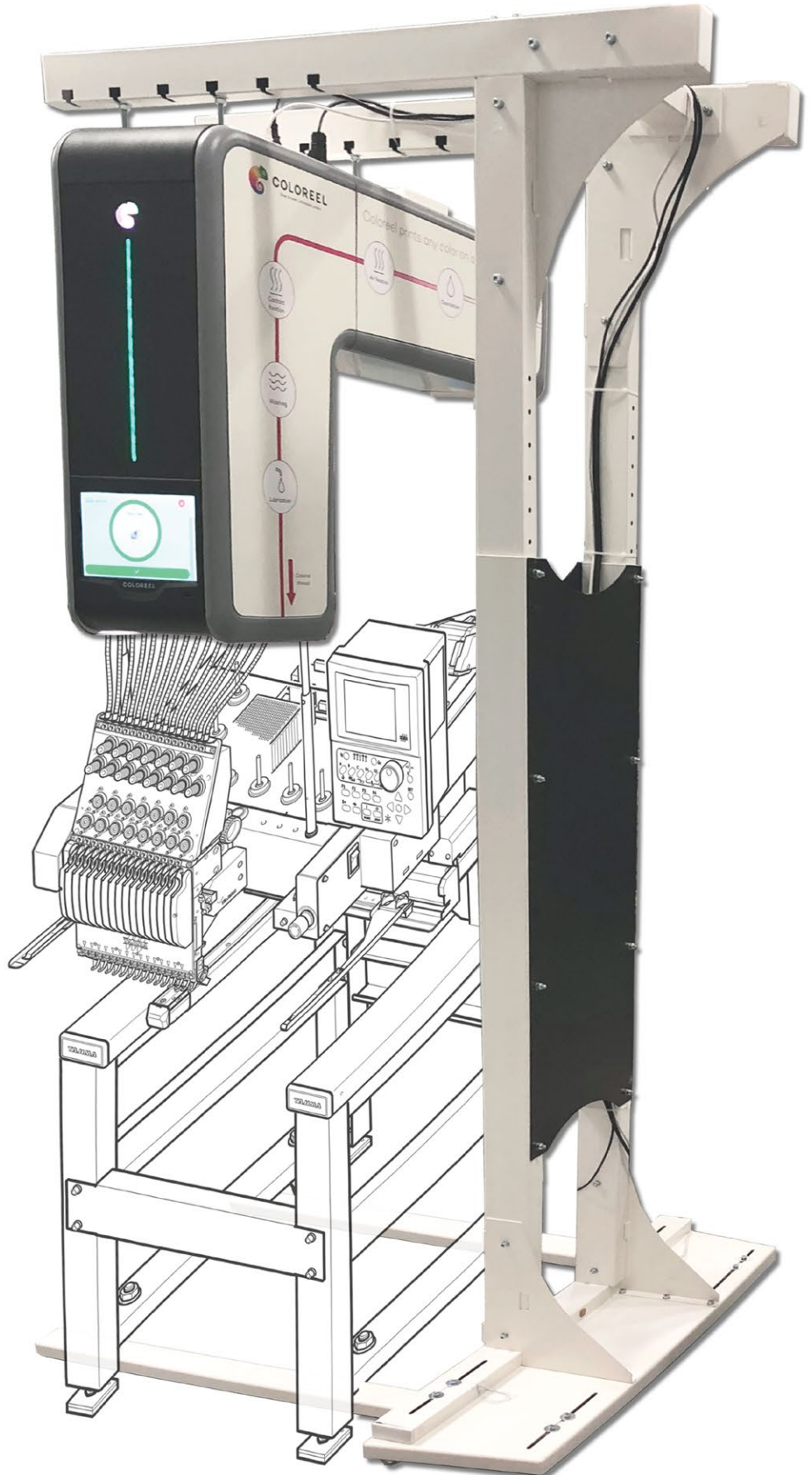
Washing fluid & Lubrication



Ink cartridges



Carbon filter



Coloreel Unit Specification

Dimensions and weight

Picture ref.	Millimeters	Inches
A	1260	49.6
B	1034	40.7
C	226	8.9
D	725	28.5
E	801	31.5
F	517	20.5
G	304	12
H	309	12.2

Weight	Kg	Lbs
Coloreel Unit	<55	<121



Package Box, ISPM15 Compliant	1100 x 390 x 975 mm	43 x 15 x 38 inches
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Temperatures and performance ranges

Operation temperature	18-28 °C	64-82 °F
Maximum thread coloring speed	160 mm/s	6,3 inch/s
Relative Humidity (RH)	15-95 %	

Hardware information

Power supply	AC 100-240V ~ 8.5A 50/60Hz, Max 600w
Screen	10.1 inch Multi touch
Lighting	Front: RGB LED, Bottom: Adjustable White LED warm/cold
Stitch counter	Optical stitch sensor incl. cabling and bracket

Digital information

OS	Linux (Ubuntu core)
File transfer	USB, Ethernet

Use only original Coloreel consumables!

The Coloreel Unit is for indoor use only!



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Coloreel Consumables Specification

Thread

Small thread cone	5 km	3.1 miles
Large Thread cone	10 km	6.2 miles
Thread quality	2 Ply, 40", Polyester Thread	
ISO - standards	>=4 for ISO 105-C06, ISO 105-X12, ISO 105-B02	
Chemical content test	OEKO-TEX tested	

Ink

Small Ink Cartridge	Coloreel Original CMYK 75 ml	Coloreel Original CMYK 2.5 Oz
Large Ink Cartridge	Coloreel Original CMYK 200 ml	Coloreel Original CMYK 6.8 Oz
Storage Temperature	10-30 °C	50-86 °F

Washing fluid

Washing Fluid type	Water based cleaning solution
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Lubrication

Lubrication type	Silicon based
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Filter

Filter type	Carbon Filter
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Included Start package

Thread	5 km thread cone	3.1 miles thread cone
4 x Ink Cartridges	Coloreel Original CMYK 75 ml	Coloreel Original CMYK 2.5 Oz
Washing fluid	1 liter bottle	0.26 gallon bottle
Lubrication	1 liter bottle	0.26 gallon bottle
Carbon filter	Factory installed	



Thread Cone



Ink Cartridges



Washing fluid & Lubrication



Carbon Filter

MAINTENANCE CARD

Maintenance	Action
Daily or before operation	Make sure that you have enough thread on the Thread Reel for your embroidery.
	Make sure that you threaded the Coloreel ITCU correctly and that the Entry Feeder and Exit Feeder are fully closed.
Weekly or after 40 hours of operation	Examine the Washer Fluid level. Add Washer Fluid if it is necessary.
	Make sure that the Washer Fluid enters the Washer Tank through the Active Carbon Filter.
	Examine the Lubrication level. Add Lubrication if it is necessary.
	Clean all thread guides and thread contact points in the Coloreel ITCU and the embroidery machine from excess Ink and Lubrication.
	Clean the Contact Fixation Unit with Scotch Brite and Cleaning Fluid.
	Examine the Ink levels. Make sure that expiration date on the Ink Cartridges has not expired.
Monthly or after 160 hours of operation	Wash the Air Filter for the Fixation Fan with water and soap. Replace the Air Filter if you cannot clean it.
	Examine the quality of the Lubrication Fluid and make sure that it is not discolored or dirty.
	Examine the Washer Fluid and make sure that it is not discolored or dirty.
Every 3 month or after 500 hours of operation	Replace the Active Carbon Filter and the Particle Filter.
	Replace the Air Filter for the Air Fixation Fan.
	Drain the Lubrication Tank and clean it fully. Refill the Lubrication Tank with new Lubrication Fluid.
	Drain the Washer Module and clean it fully. Refill the Washer Module with new Washer Fluid.
Yearly Service	Speak to a trained service technician.