

Merit S

the three-knife trimmer with
exclusive shear cutting action

MÜLLER MARTINI

Merit S Three-knife Trimmer – the ideal combination of superior trim quality and production flexibility

● Fast set-up

The product mix processed by mid-size operations has become more diversified. Therefore, machines with very short makeready are needed to compete in today's market. The Müller Martini Merit S Three-knife Trimmer, with automatic make-ready system, ideally meets these requirements.

● Processing of a wide range of products

The large size range and trim capacity allows the Merit S Three-knife Trimmer to efficiently handle a wide variety of perfect bound and thread sewn books.

● Processing of book blocks for case-binding

The Merit S handles the most demanding needs with ease (trim thickness, cycle time, single or collect trimming).

● Operation and maintenance

The Müller Martini sales and service network ensures support and a true partnership with users around the world.

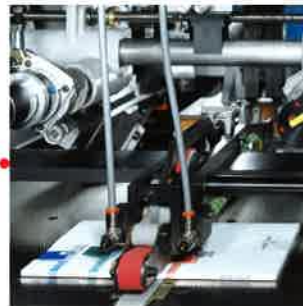
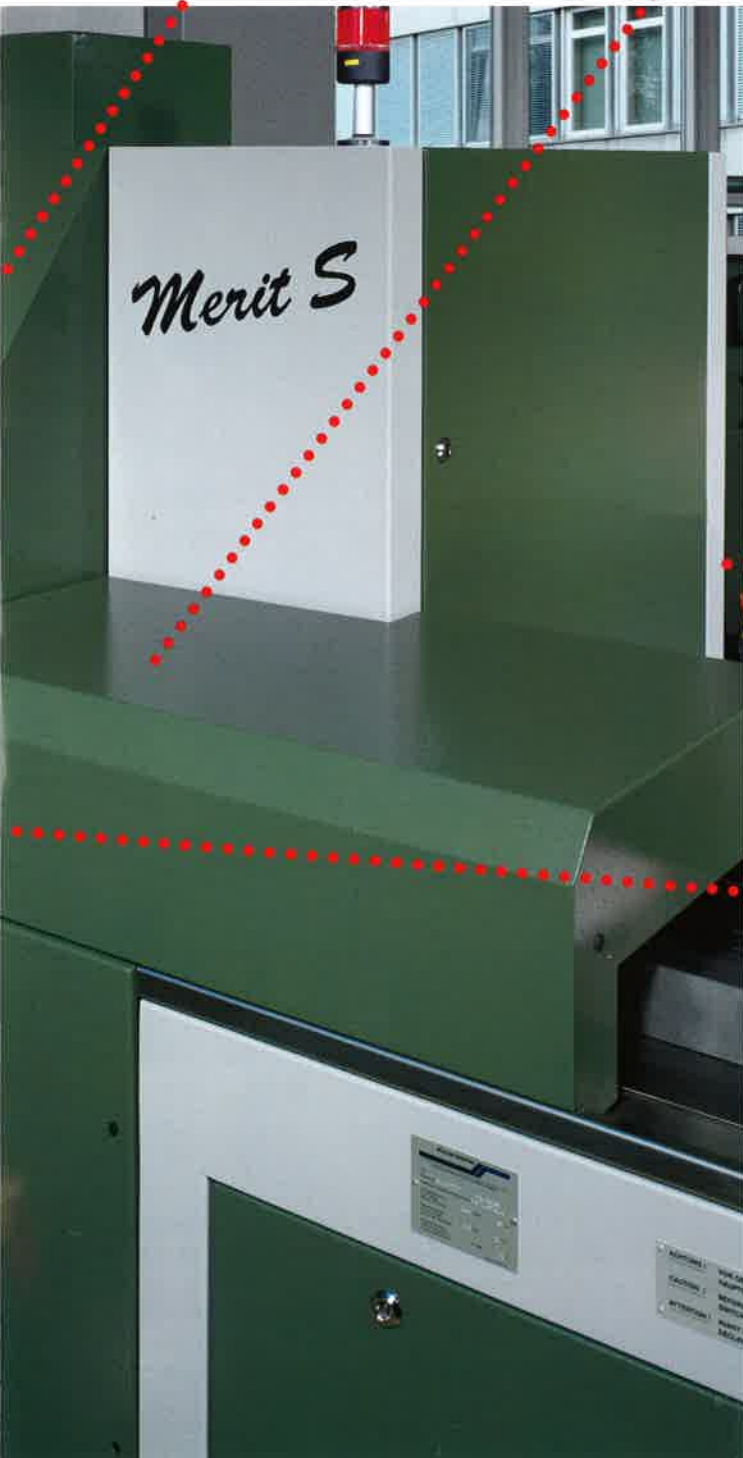




Perfect trimming



Infeed



Delivery



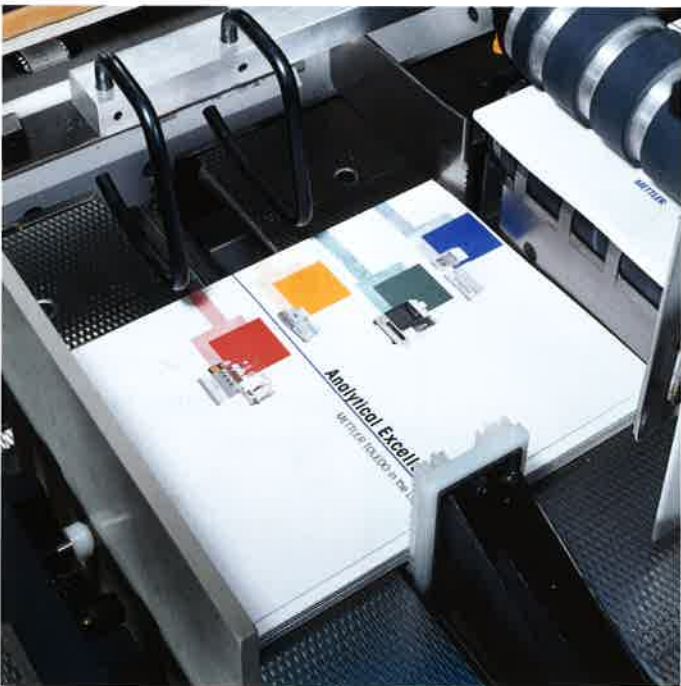
Automatic makeready and control system

The Müller Martini Merit S Three-knife Trimmer is the key to versatility and profitable production in the bindery.



Infeed conveyor

Greater infeed flexibility is a critical advantage for efficient production. Books enter the three-knife trimmer from the left or right, individually or in multiples. Thin products are handled gently and size settings of the hopper and knife station are automated.



Book infeed into the knife station

Positively controlled infeed is a critical requirement for precise trimming. The products enter the knife station spine leading, thereby preventing curl-up of the endsheets or covers.

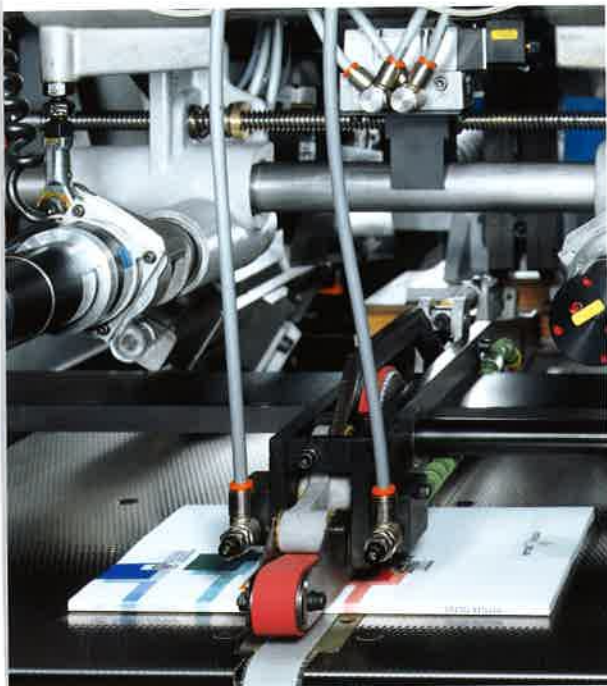
Books gently decelerate as they approach the front stops (to avoid bounce) and are accurately aligned prior to clamping.



Knife station

High trim quality is assured by the proper trim sequence. Face, head and foot are trimmed in one station. Books are pressed over their full area and clamp pressure is pneumatically adjustable. Trimming is done against plastic cutting sticks.

Shear cutting action for head and foot trim is towards the spine to prevent tear-outs. For trim removal, the trimmer can be hooked up to an exhaust system or optional conveyor.



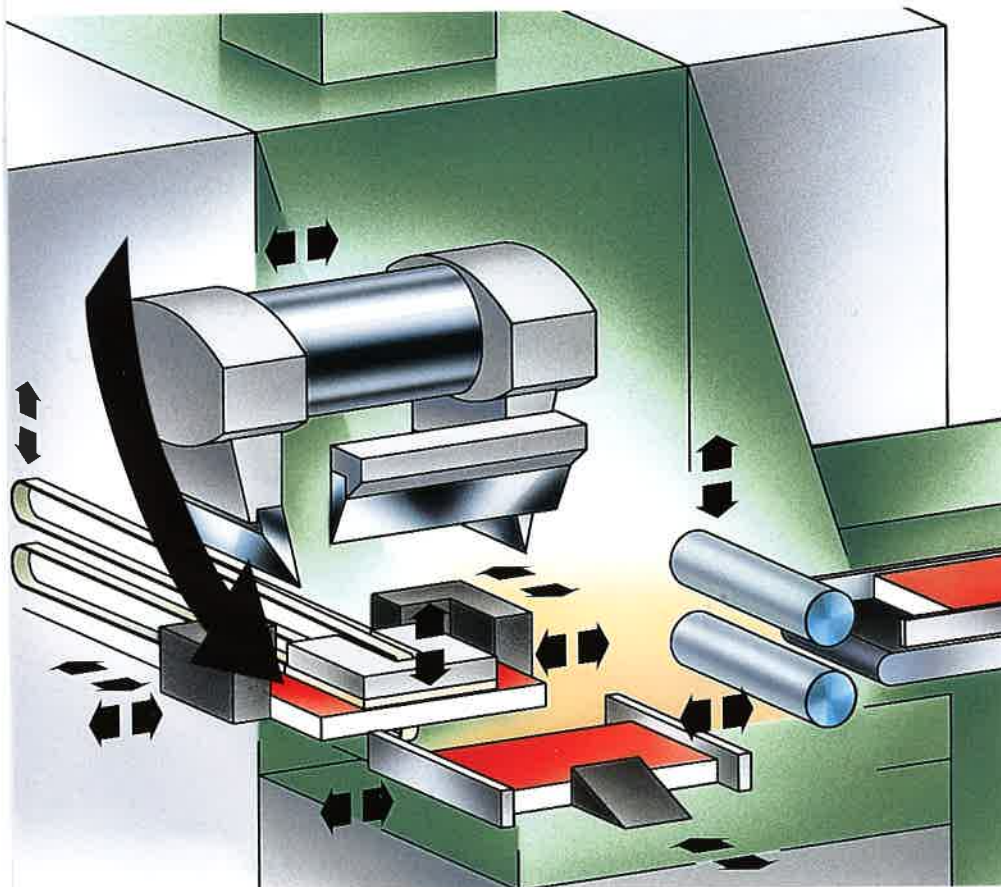
Book delivery

Gentle handling of the trimmed books guarantees top trim quality and reliable downstream finishing. The delivery system ensures positive control without marking.

Automatic makeready and control system

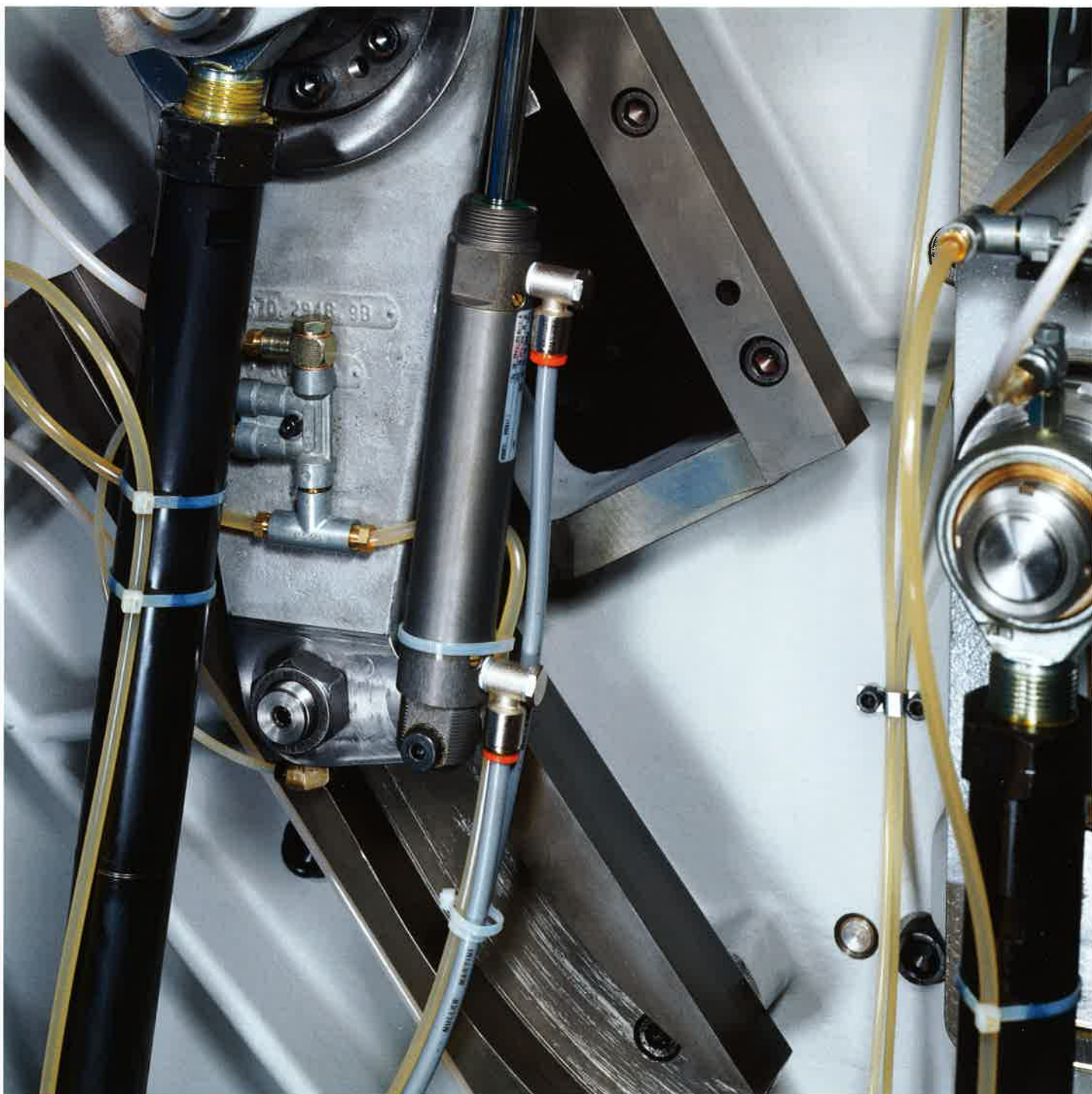
The interactive PLC provides convenient operation. It automatically sets up basic data for the book (size, speed, and clamp pressure). Subsequent orders can be pre-programmed and saved while production is running.

Motorized adjustments for size changes are made automatically after removal of the cutting table. Fine adjustments can be made on-the-fly. The Merit S uses the same control system as the Müller Martini Zenith S Three-knife Trimmer.



Shear cutting action

Shear action trimming of the Merit S ensures superior quality and a clean cut. Trim quality is an important visual aspect of the printed product.



Merit S, the three-knife trimmer with exclusive shear cutting action

This brochure may show components which are not standard equipment and are available as options only.

In some cases protective covers have been removed or opened for illustrative purposes. They must be in place during machine operation.

Design, measurements and specifications are subject to change.

Sales and Service

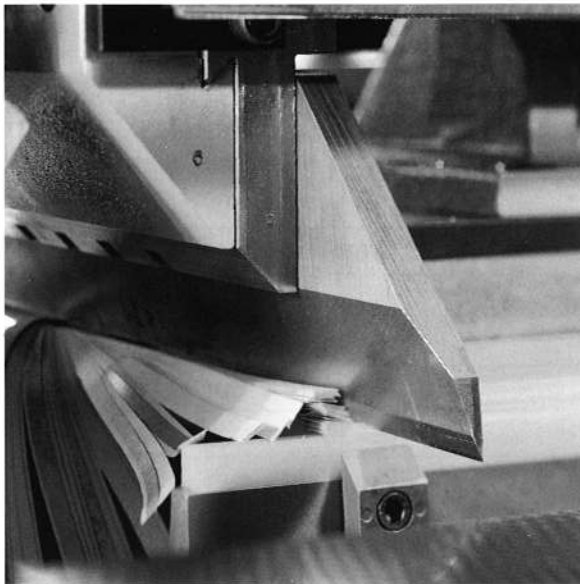
MÜLLER MARTINI

Müller Martini Marketing AG

Untere Brühlstrasse 13
CH-4800 Zofingen, Switzerland

Phone ++41-62/745 45 75

Fax ++41-62/751 55 50



Merit S

Three-knife Trimmer

Specifications

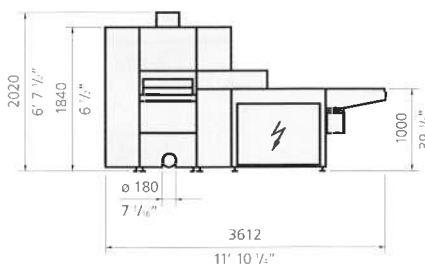
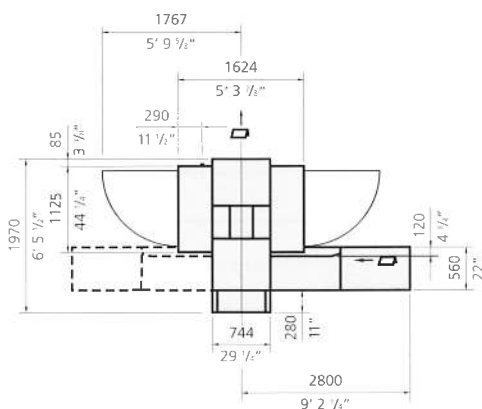
Mechanical speed		1000 to 4000 cycles per hour
Speed of infeed	with standard belt	max. 7000 cycles per hour
	with vacuum belt	max. 8000 cycles per hour
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Sizes		
untrimmed (standard)		max. 384 mm 15 1/8" (A+D+E) X 320 mm 12 5/8" (B+F)
		min. 140 mm 5 1/2" (A+D+E) X 103 mm 4 1/16" (B+F)
Large size (option)		max. 445 mm 17 1/2" (A+D+E) X 320 mm 12 5/8" (B+F)
Small size (option)		min. 104 mm 4 1/8" (A+D+E) X 73 mm 2 7/8" (B+F)
trimmed (standard)		max. 304 mm 12" (A) X 310 mm 12 3/16" (B)
		min. 136 mm 5 3/8" (A) X 100 mm 4" (B)
Large size (option)		max. 434 mm 17" (A) X 310 mm 12 3/16" (B)
Small size (option)		min. 100 mm 4" (A) X 70 mm 2 3/4" (B)
Book thickness		max. 80 mm 3 1/8" (C)
		min. 2 mm 1/16" (C)
Trim	Front	max. 40 mm 1 9/16" (F)
		min. 3 mm 1/8" (F)
	Head/Foot	max. 40 mm 1 9/16" (E/D)
		min. 2 mm 1/16" (E/D)
Power requirements	without blow air	8,8 kW, 50/60 Hz
	with blow air	10,3 kW, 50/60 Hz
Air requirements		40–50 Nm ³ /h at 6 bar (23 cfm at 87 psi), according to equipment
Weight		3500 kg (7,700 lbs.)

Size ranges of the cutting table cassettes

Size capability	Cassette number	spine length
Small sizes (option)	1	100 to 112 mm 4" – 4 3/8"
	2	112 to 124 mm 4 3/8" – 4 7/8"
	3	124 to 136 mm 4 7/8" – 5 3/8"
Standard sizes	4	136 to 148 mm 5 3/8" – 5 3/4"
	5	148 to 160 mm 5 3/4" – 6 1/8"
	6	160 to 172 mm 6 1/8" – 6 3/4"
	7	172 to 184 mm 6 3/4" – 7 1/4"
	8	184 to 196 mm 7 1/4" – 7 3/4"
	9	196 to 208 mm 7 3/4" – 8 3/16"
	10	208 to 220 mm 8 3/16" – 8 5/8"
	11	220 to 232 mm 8 5/8" – 9 1/8"
	12	232 to 244 mm 9 1/8" – 9 5/8"
	13	244 to 256 mm 9 5/8" – 10"
	14	256 to 268 mm 10" – 10 1/2"
	15	268 to 280 mm 10 1/2" – 11"
	16	280 to 292 mm 11" – 11 1/2"
	17	292 to 304 mm 11 1/2" – 12"
Large sizes > A4 (optional)	18	304 to 316 mm 12" – 12 7/16"
	19	316 to 328 mm 12 7/16" – 12 7/8"
	20	328 to 340 mm 12 7/8" – 13 3/8"
	21	340 to 352 mm 13 3/8" – 13 7/8"
	22	352 to 364 mm 13 7/8" – 14 5/16"
	23	364 to 376 mm 14 5/16" – 14 3/4"
	24	376 to 388 mm 14 3/4" – 15 1/4"
	25	388 to 400 mm 15 1/4" – 15 3/4"
	26	400 to 412 mm 15 3/4" – 16 1/4"
	27	412 to 424 mm 16 1/4" – 16 3/4"
	28	424 to 434 mm 16 3/4" – 17 1/8"

Other sizes on request.

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E-mail info@mullermartini.com

Internet <http://www.mullermartini.com>