

## **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).

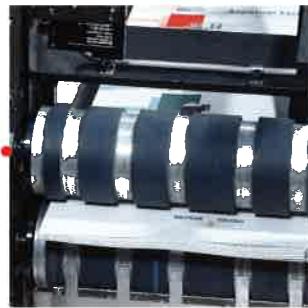
## **● Operation and maintenance**

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

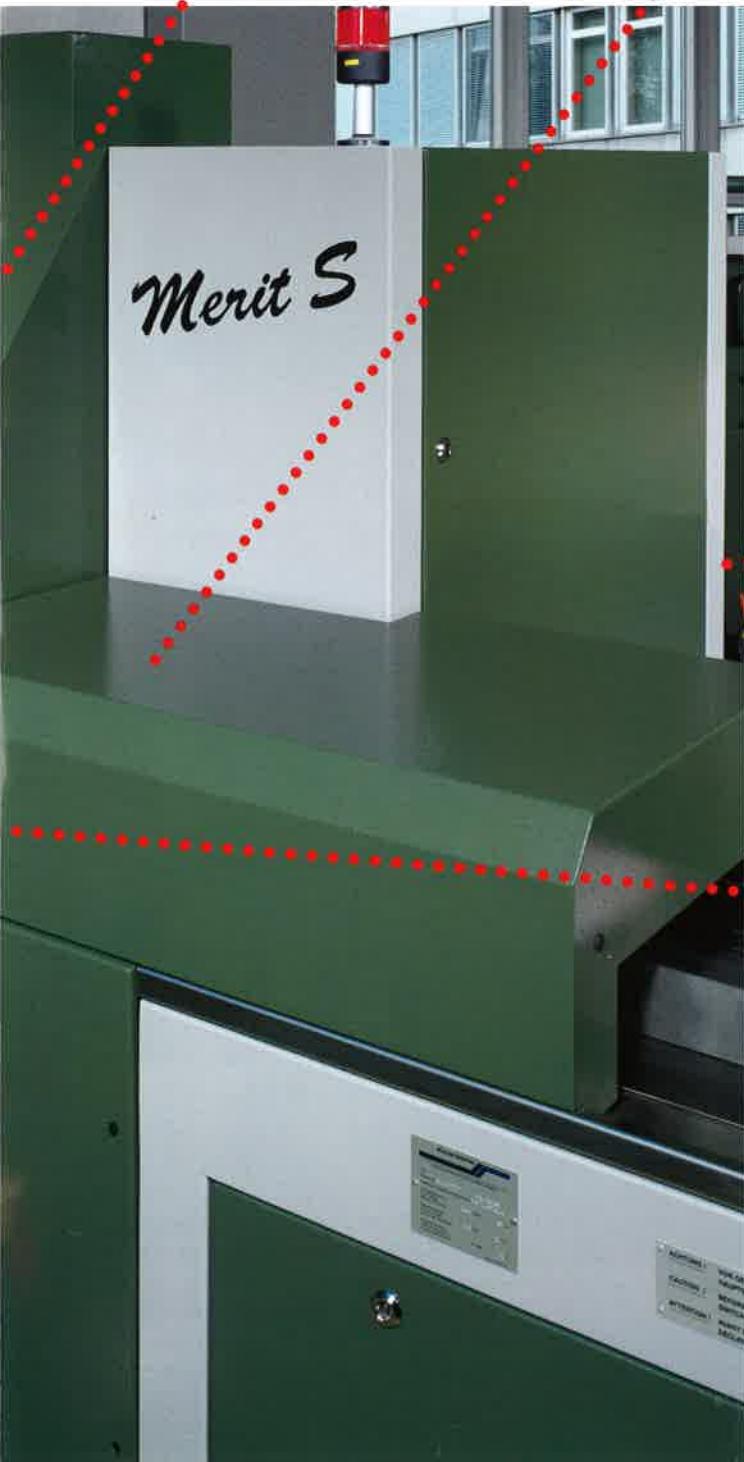




Perfect trimming



Infeed

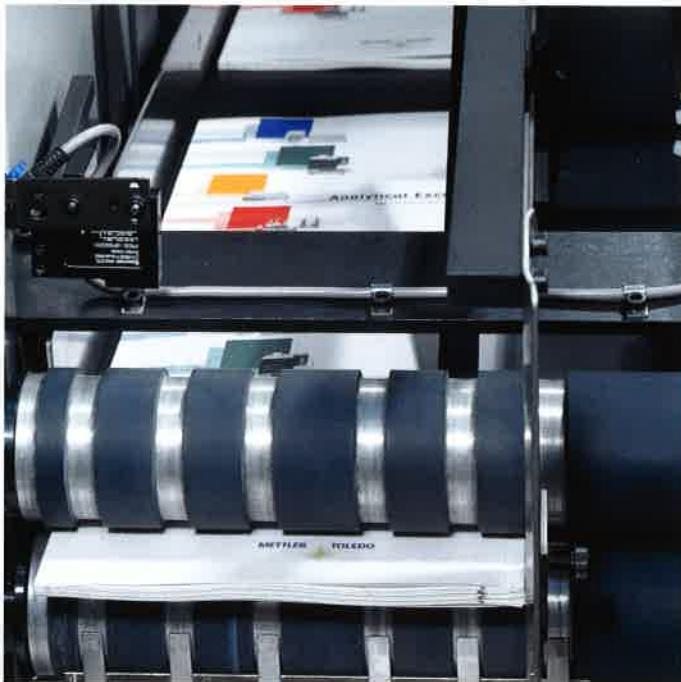


Delivery



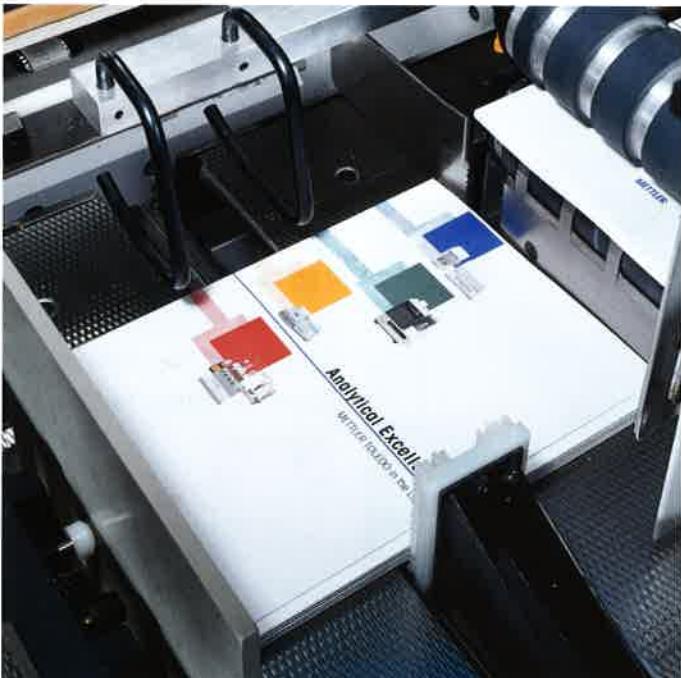
Automatic makeready and control system

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.



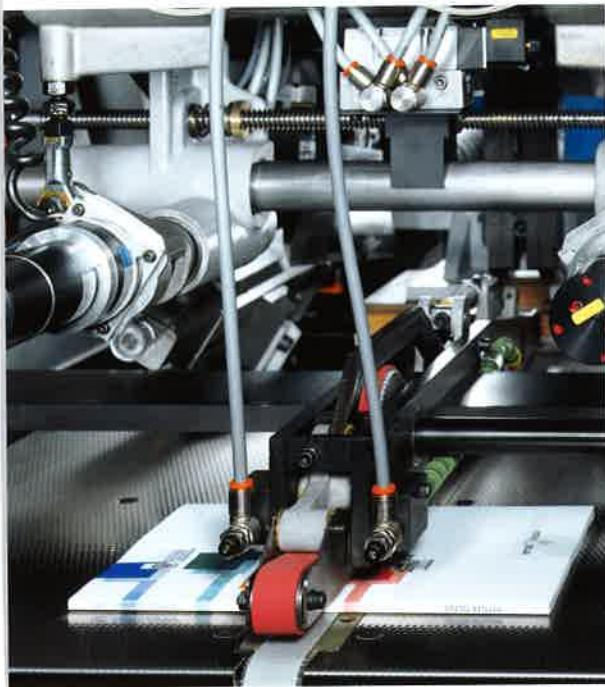
## Book infeed into the knife station

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.



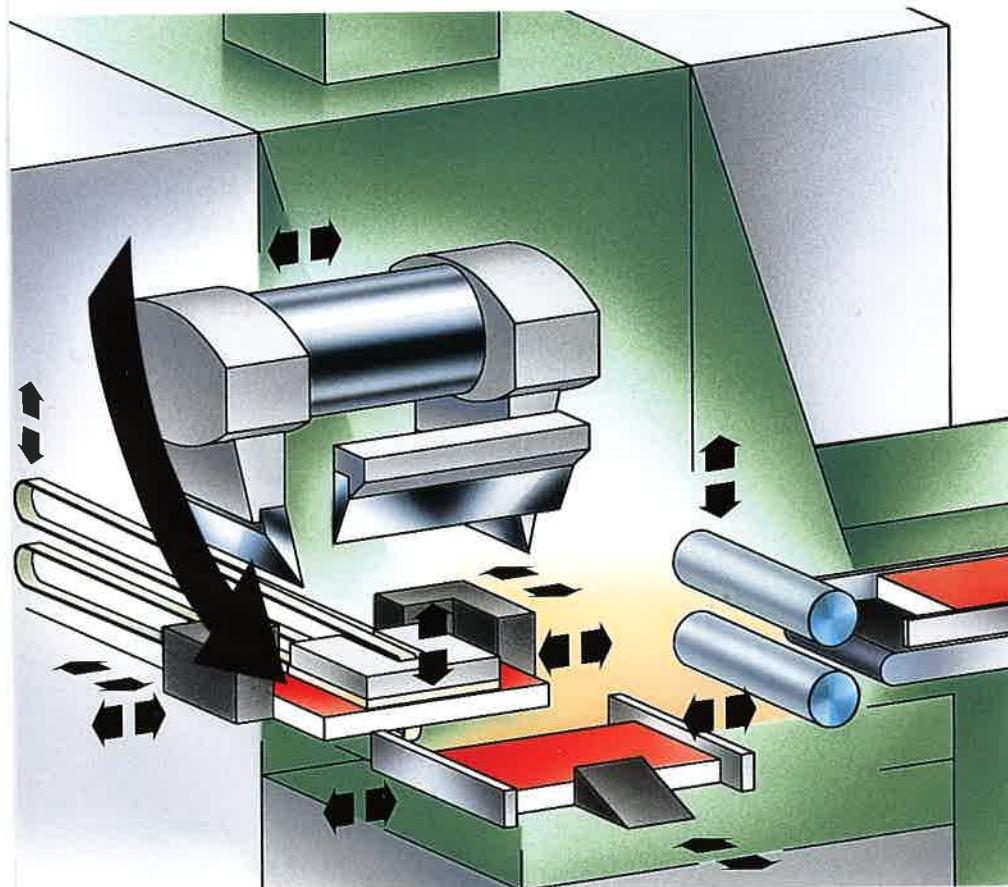
## Knife station

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.



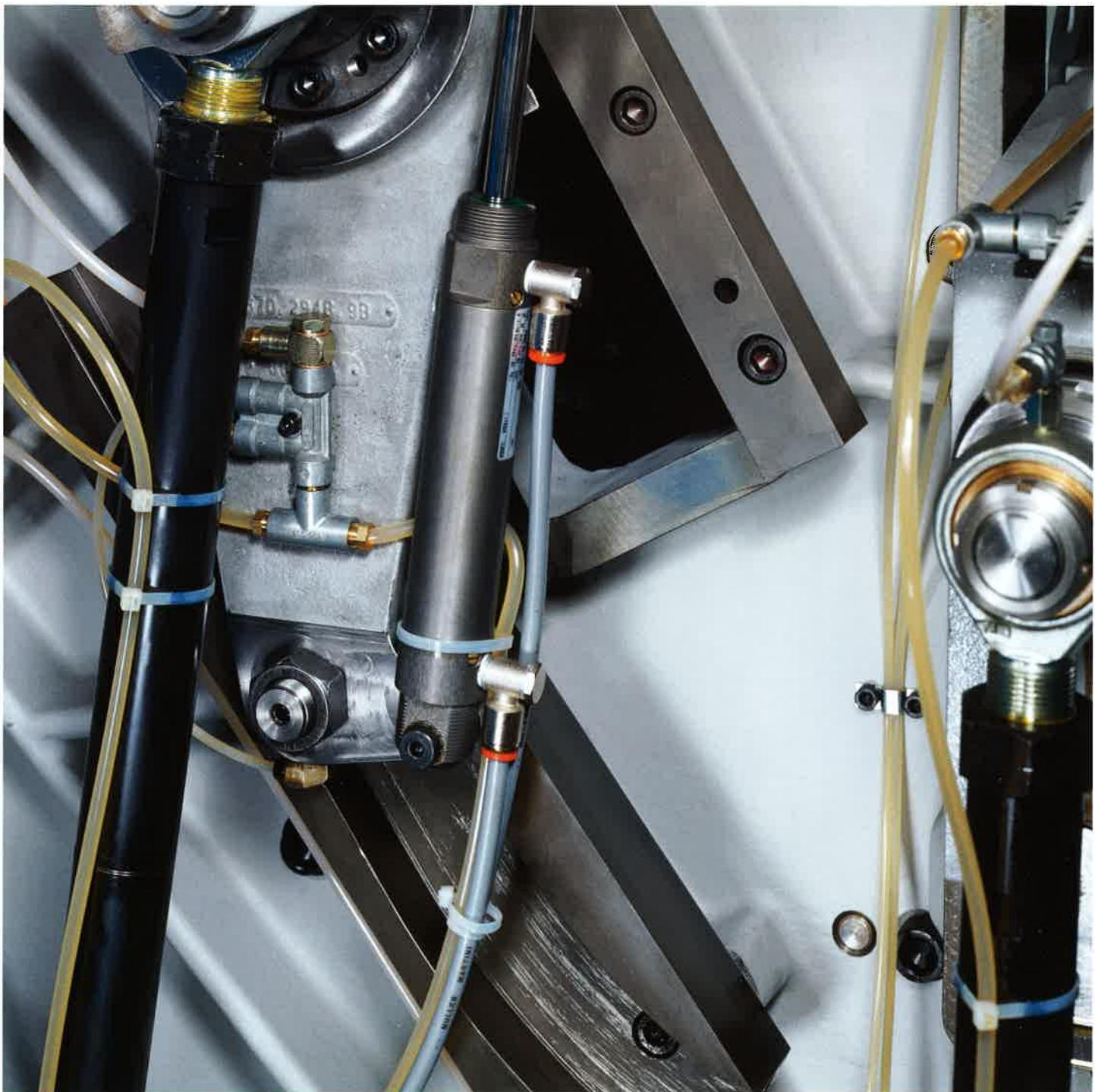
### Book delivery

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



### 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.



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Sales and Service

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

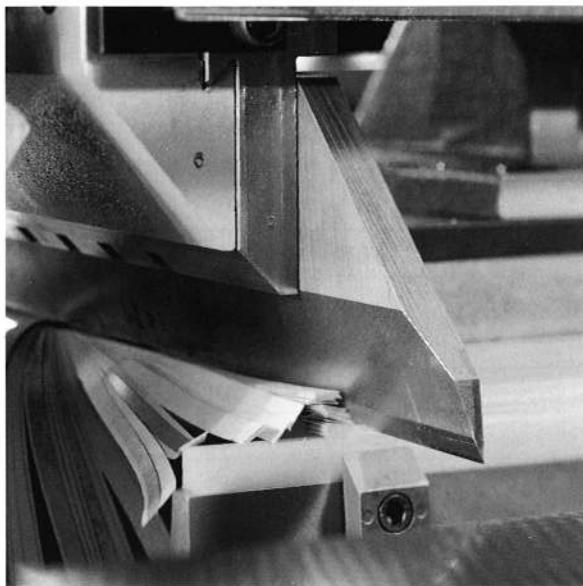
In some cases protective covers have been removed or opened for illustrative purposes. They must be in place during machine operation.

Design, measurements and specifications are subject to change.

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## Merit S Three-knife Trimmer

### Specifications

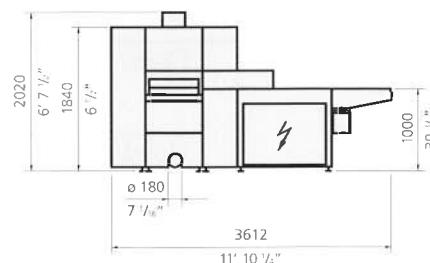
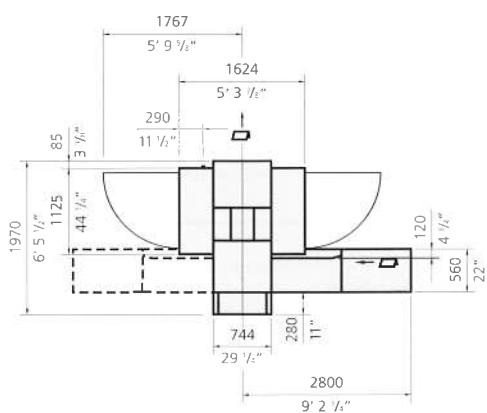
|                             |  |                           |
|-----------------------------|--|---------------------------|
| <b>Mechanical speed</b>     | 1000 to 4000 cycles per hour   |                           |
| <b>Speed of infeed</b>      | with standard belt   | max. 7000 cycles per hour |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

Design, measurements and specifications subject to change.



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