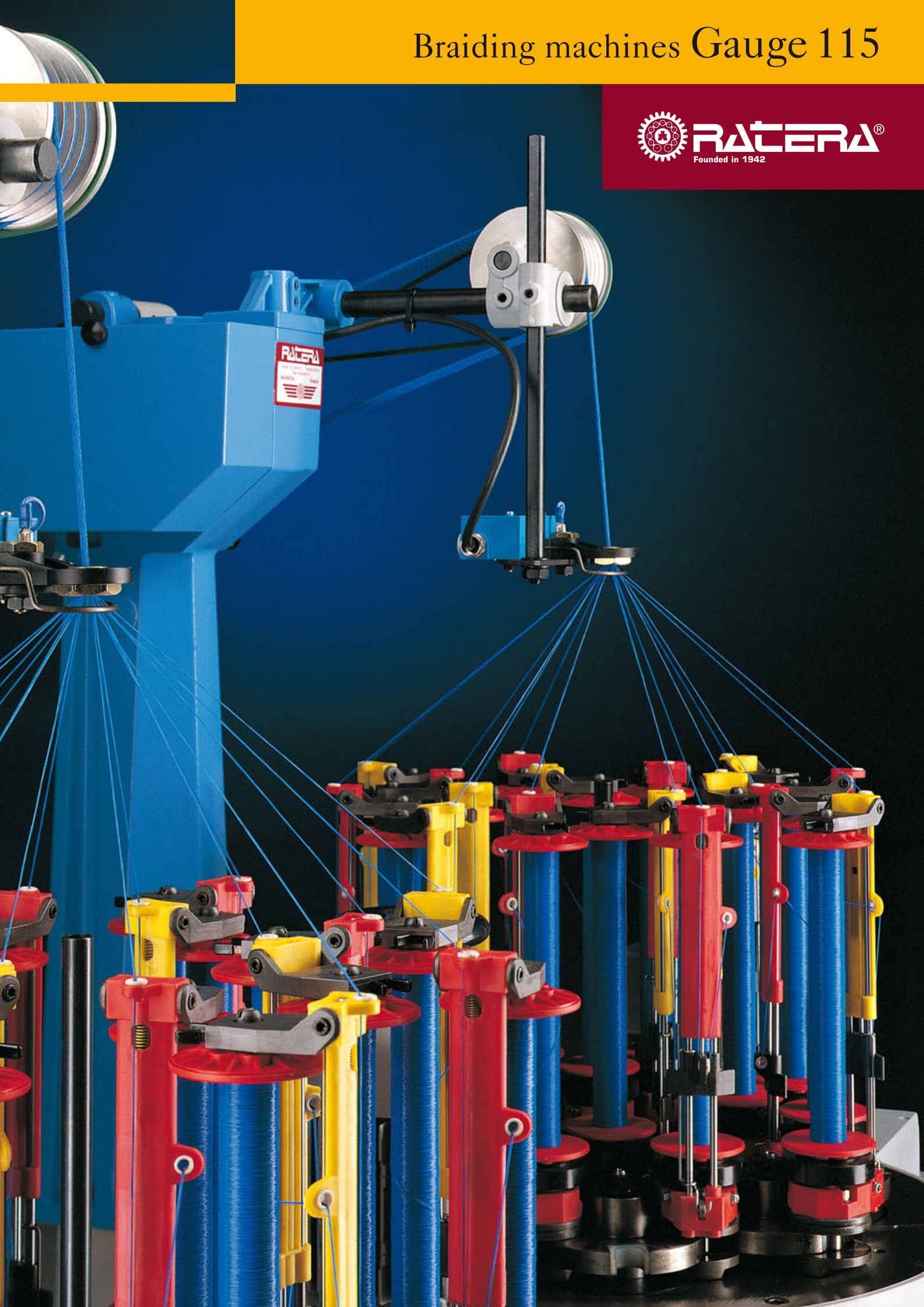


# Braiding machines Gauge 115



**RATERA**<sup>®</sup>  
Founded in 1942



# Braiding machines Gauge 115

## The best selling model in the world

## The latest mechanical systems

As a result of the knowledge of the braid market and the use of the highest technologies in computer aided design Ratera has developed the most versatile Gauge in the market. Thus, **Gauge 115** can actually yield braids ranging from 1mm to 25mm in diameter, depending on the number of spindles.

Such a high degree of versatility and quality are reached thanks to its robust design (oil bath in upper & lower housing), its size, its speed and the quality of materials as well as to the latest design of its carriers and the possibility of combining different take off systems, carriers, take up systems and folding.

This way by using a correct combination of the different accessories Gauge 115 is able to braid from shoelaces to mid-size ropes for various applications — such as climbing or sailing— and even cords for the manufacture of fishing nets, curtains, and a long etcetera.

Likewise, the range for the Gauge 115 starts at 8 carriers and is able to reach 96 spindles scaling up in sets of 4 (for models with a higher number of carriers or for special models, please check with our commercial department).

Several reasons have led Gauge 115 to become the most commercialised model all over the world:

- *Autonomy*: The big bobbin capacity of 465 cm<sup>3</sup> in the standard model (Ø 63x170mm) and 547 cm<sup>3</sup> in the RS model (Ø 63x200mm).
- *Speed*: 330 rpm —depending on number of carriers and raw material used.
- *Versatility*: its capacity to produce the most diverse braids.

The implementation of Ratera's **83L System** (patented) has three important results:

- An increase in speed (production) between 18% and 25% —according to models and materials.
- Zero expense in maintenance (spare parts) in the mid or long run.
- A significant decrease in the acoustic level —variable depending on models.

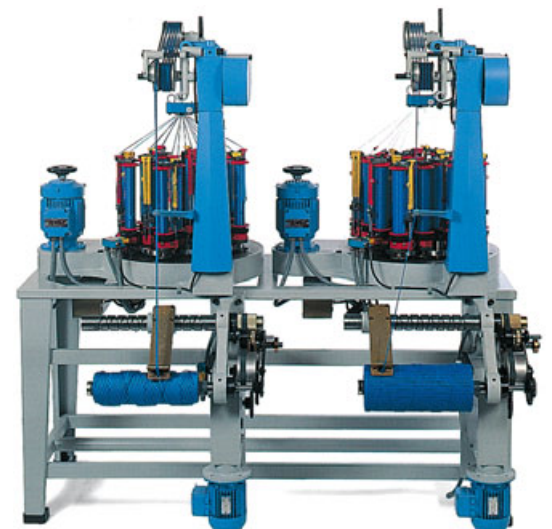
The 83L System, developed by Ratera, consists in that all those parts subject to likely wear and tear are made of hardened, rectified steel, with an average hardness of 610 Brinell ( $\pm 20$  points).

The carriers' feet are made of three pieces: one of them is a slip-bushing that when runs into the horngear which transports the carriers avoids an impact by performing a gentle turn.

On the other hand, in the horngear, specifically in the slot where the carrier's foot is to fit, there is a plastic alloy insert, based on nylon, which softens the contact with the



16 B - E 115 With collector  
Fishing net



## Higher capacity bobbins

above mentioned carrier-foot slip bushing.

The lower housing gears are made with high quality, resistant materials cut with helicoidal tooth, which increases the rolling area thus obtaining a longer durability.

The machines that make up the model 115 may be equipped with two sizes of bobbins:

- Ø 63x170 mm, and a capacity of 465 cm<sup>3</sup>.
- Ø 63x200 mm, and a capacity of 547 cm<sup>3</sup>.

Likewise, as a result of Ratera's constant endeavor to improve its products, the RS carrier has been developed for the Gauge 115, which is equipped with the Ø 63x200 mm bobbin. That carrier's upper part is provided with a rotating bush that avoids friction and, therefore, the wear and tear between carrier and bobbin.

It also has an easy-to-open fastening gadget/top holder which gives the set consistency and robustness.

In its lower part a reserved cogged bobbin-holder disc prevents yarns and dirt from getting inside thus avoiding a likely interference of the yarn's right exit.

On the carrier's frame base a built-in steel cap/bush facilitates the bobbin-holder disc its sliding and in turn avoids its likely wear.

The RS type carrier is compatible with the Ø 63x170 mm bobbin provided an adaptor is used.

All carriers may be supplied in different versions. Guides and yarn tensors with either open hooks or open/round ceramics—according to material. Also available are different types of springs with different tensions to be applied depending on each product (see table herein).

### Carrier type Standard bobbin Ø 63x170 mm

Colour	Tension
White	200 grams
Yellow	250 grams
Red	300 grams
Black	350 grams

### Carrier type RS bobbin Ø 63x200 mm

Colour	Tension
Blue	150 grams
Green	300 grams
White	480 grams
Yellow	580 grams
Red	800 grams
Black	1300 grams



16 B - E 115 One motor

Multiuse



48 B - E 115

Climbing Rope



64 B - E 115

Recover Tubes



**Accessories: the key to versatility**

Depending on the yarn to be used or the product to be braided, Ratera may supply different useful and necessary accessories so that the final desired product can actually be obtained. Some instances are:

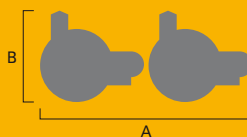
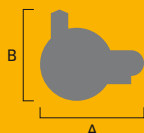
- Different types of gatherers at the braiding point.
- Different take up systems for the braided product, either in parallel or semi-parallel winding spools coming in different sizes, or in crosswinding spools with no bobbin-flanges.
- Different take off systems depending on the braided product's diameter.

**A service adapted to all your requirements**

Ratera has an answer to all his customers' requirements: regarding the sample received of the product that the customer needs to braid, our technical department will suggest to you the suitable braider as well as a calculation of the production (rentability). Even when the customer does not have a sample, will be informed of what it needs to be done.

In this way, Ratera offers you the right machinery including all the necessary accessories in order to elaborate the required products.

Number of carriers per head	Motor power (HP)	Horn gear RPM	Measurement of A x B (mm)	
			Single bench	Double bench
8	0,33	295	680 x 540	1360 x 540
12	0,50	330	700 x 590	1385 x 590
13	0,50	330	700 x 590	1385 x 590
16	0,50	330	750 x 650	1520 x 650
17	0,50	330	750 x 650	1520 x 650
20	0,75	310	860 x 720	–
21	0,75	310	860 x 720	–
24	0,75	310	890 x 810	–
28	0,75	310	960 x 900	–
32	1	290	930 x 1070	–
36	1	290	1000 x 1120	–
40	1,5	270	1160 x 1250	–
44	1,5	270	1110 x 1250	–
48	2	270	1160 x 1390	–
56	3	260	1500 x 1750	–
60	3	260	1900 x 2000	–
64	3	260	1750 x 1900	–
68	3	260	1620 x 1855	–
72	3	230	2100 x 2200	–
80	3	230	1935 x 2075	–
96	3	230	2400 x 2500	–
120	4 x 1	230	2500 x 2900	–



**RATERA**<sup>®</sup>  
Founded in 1942

Talleres Ratera SA  
Av. dels Dolors, 13  
Apt. Correos (PO Box) 228  
08243 Manresa  
(Barcelona) Spain

Tel. 34-93 878 49 50  
Fax 34-93 877 26 82  
www.ratera.com  
e-mail: ratera@ratera.com

NOTE: According to machinery directive 83/392 about safety for the European market, machines must be protected. However, in order to allow for a better display some of this catalog's illustrations have been made without the mandatory protections.

The company reserves the right to modify and improve the characteristics of its products without notice.