Barudan

Knowledge Base > Reference: Model Numbering System

The information in this article applies to the following machine models:
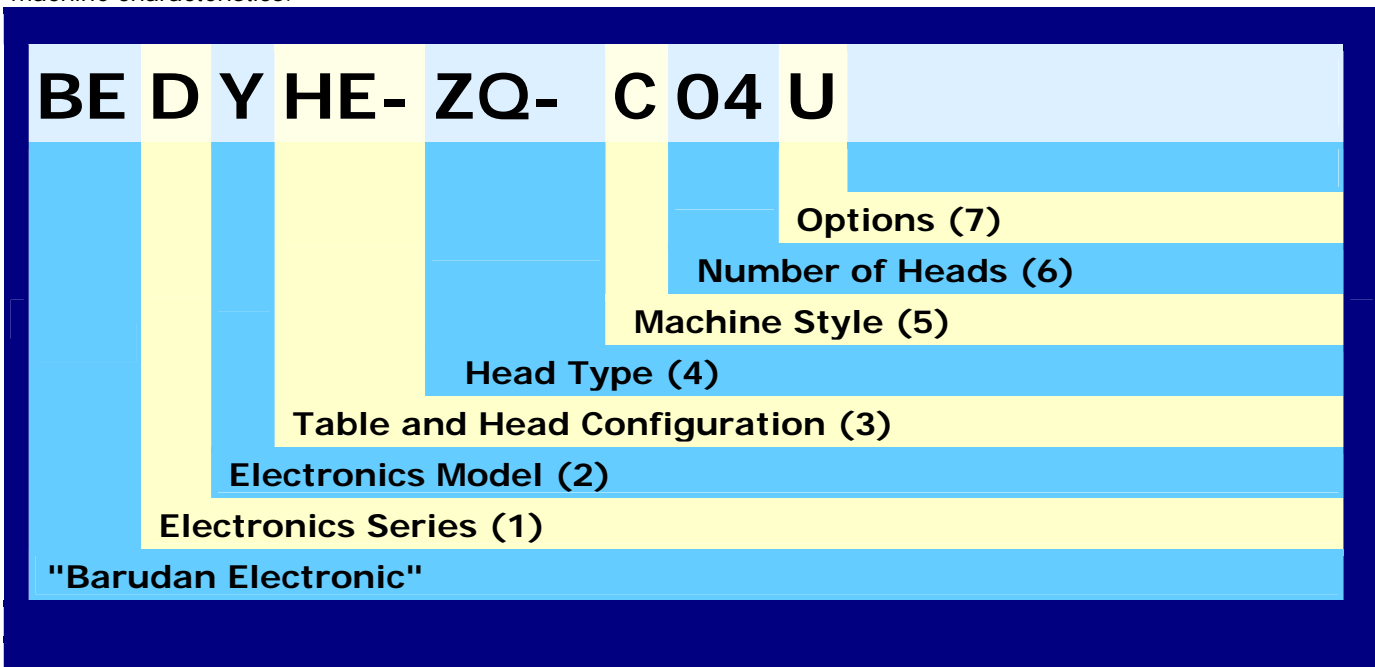
- Barudan Lockstitch Embroidery machines

SUMMARY

Barudan offers a wide variety of embroidery machine versions, and the model number can give valuable information about the machine. This document explains what the various letters and numbers in the model number mean. This naming system could produce 38,400 possible names, however, Barudan does not offer all of these combinations.

PROCEDURE:

Locate the model number on the serial number plate on the machine. Then use the charts and tables below to determine machine characteristics.

BE	D	Y	HE-	ZQ-	C	04	U	

Options (7)

Number of Heads (6)

Machine Style (5)

Head Type (4)

Table and Head Configuration (3)

Electronics Model (2)

Electronics Series (1)

"Barudan Electronic"

ELECTRONICS (SERIES AND MODEL) (1) & (2)

Barudan machines typically have an "AUTOMAT" (control box above the table top) with displays and switches, and a "Driver Box" located underneath the machine that powers the motors and solenoids.

SERIES	MODEL	DRIVER BOX	AUTOMAT
BED 2001-	**BEDY**	UAD-XIV	Monochrome Graphic LCD
	BEDS	UAD-XII (servo) UAD-XIII (pulse)	
	BEDT	built-in	Monochrome Graphic LCD
BEN 1995-2001	**BENY** 1996	UAD-IX UAD-IXA UAD-IXB	Monochrome Graphic LCD
	BENS	UAD-VIII UAD-X UAD-XI	
	BENB 1997	UAD-IX UAD-IXA UAD-IXB	Color Graphic LCD
	BENR	UAD-VIII UAD-X UAD-XI	
	BENT 1997	built-in	Monochrome Graphic LCD
BEM 1989-1995	**BEMA** 1993	UAD-VII	LED display, 6 character
	BEMR		Color CRT
	BEMS 1990		Text LCD, 2 lines x 40 characters
	BEMX 1990-1993		LED display, 6 characters
BEX 1986-1988	**BEX**		6 Digit Display
BES 1985-1989	**BESR**	SR motor driver	Vacuum Fluorescent Display, 1 line x 20 characters
BEJ 1981-1985	**BEJR** 1984	JR motor driver	6 Digit Display
	BEJM	JM motor driver	No Display
BEH 1980-1984	**BEHJ**	Automat motor driver	No Display

BEAT	BEAT series machines included a keyboard for monogram lettering		
	BEAT-90X 1993-1996		286 or 486 PC based, with SVGA monitor display
	BEAT-IV 1989-1997	built-in	(See the single head machine section for this model)
	BEAT-80X 1989-1993	SDU	SMT- 3 Line Vacuum Fluorescent Display
	BEAT-70X 1987-1989	SDU	SMT- 3 Line Vacuum Fluorescent Display
	BEAT-10X 1981-1987		3 Line LCD Display
BELM	Computerized Chenille Machines are identified by "BELM." Their part numbering is different from lockstitch machines, and is not discussed in this document		

(3) TABLE AND HEAD CONFIGURATION

Barudan uses two styles of Sewing Heads, depending upon the table configuration. "ARM" type sewing heads are single piece cast iron. "Bridge" heads use two castings, one top and one bottom, that are attached to a steel beam (bridge) running across the machine. The bed of some sewing heads is long and narrow, to sew inside of garments. This is called a "Cylinder" or "Tubular" head. The tables of these machines can move or "drop" out of the way, for sewing on finished goods.

NAME	Description
BEDT-	ARM HEAD, TUBULAR, TABLE TOP MACHINE (single Head)
BEMS-	(Dash only) ARM HEAD, FLAT TABLE
BESRE-	Arm Head, Cylinder, with removable table inserts
BENSME-	ARM HEAD, TUBULAR, DROP / REMOVABLE TABLE
BEDSH-	BRIDGE HEAD, FLAT TABLE
BEDYHE-	BRIDGE HEAD, TUBULAR, DROP / REMOVABLE TABLE

(4) HEAD TYPES

NAME	NEEDLES	GEOMETRY	TAKE-UP	COMMENTS
ZQ	15	inline	individual	
ZN	9	inline	individual	
WN	9/18/27	round	individual	Special machine software turned 2/3rds of the sewing heads off, so that additional colors could be threaded onto the other sewing heads, raising the effective colors to 27
WS	7/14/21	round	individual	Special machine software turned 2/3rds of the sewing heads off, so that additional colors could be threaded onto the other sewing heads, raising the effective colors to 21
YN	9	round	individual	
YS	7	round	individual	
UG	7	round	single	
UF	5	round	single	

(5) MACHINE STYLE

Some Barudan models are distinguished by a letter to differentiate from other similar models. This letter can have different meanings, depending upon the series

NAME	EXAMPLE	
A	BEDSME-ZQ-A04	Indicates improved sewing head with presser foot lift mechanism. This positive drive (instead of springs) gives quieter operation with fewer thread breaks
B	BEDYHE-ZQ-B04	1st Generation Compact Bridge Tubular machine
	BEDSHE-ZQ-B20S	Revised frame design on larger machines (12 or more heads)
C	BEDYHE-ZQ-C04	2nd Generation Compact, Bridge Tubular machines, with pantograph drive mounted above the table-top
	BEDYH-YN-C12	A compact Bridge machine with flat table top

(6) NUMBER OF HEADS

This two digit number identifies the number of sewing heads on the machine

RANGE	INCLUDES	COMMENT
01 - 08	1,2,4,6,8	Usually has smaller driver boxes- such as "DY" or "NY"
12 - 30	12,15,18,20,24,30	Uses larger driver boxes, such as "DS" or "NS" to handle larger number of solenoids

(7) OPTIONS

Some Barudan models were offered with optional equipment or systems; in these cases, the model number would indicate if the option was installed. However, if that feature is standard on a model- for instance, UTSM and Trimmers are standard on the "D" series machines, then the model number would no longer indicate this option.

NAME	TYPE	
U	UTSM	Under-thread Sensor Mechanism, standard on "D" series machines
T	TRIMMER	Trimmer mechanism installed
S	Servo	Pantograph driven by AC Servo motors
L	Leather	Larger machine modified for extended use sewing leather or other thick garments

(8) PANTOGRAPH FIELD

Some Barudan machine models have a final number, that may not appear on the serial number plate. This number specifies the pantograph field, and may have two forms: AAAxBBB or AAAxBBBxCCC.

NAME	TYPE
450x520	First Number: "H" drive travel- Front-to-Back Second Number: "V" drive travel- Side-to-Side & Sewing Head Spacing
450x300x380	First Number: "H" drive travel- Front-to-Back Second Number: Sewing Head Spacing Third Number: "V" drive travel- Side-to-Side

SINGLE HEAD MACHINE NAMES

Every rule needs to be broken. Barudan Single head machines don't have as many optional configurations, so the model numbers do not change as much.

NAME	NAME	VARIATION	COMMENTS
BEDT-ZQ-501 2003-	"Elite Pro"	15 needle	Use Bridge-style ZQ6 sewing technology
BEDT-ZN-101 2002-	"Elite Jr."	9 needle	
BENT-ZQ-201 199_-2003	"Elite" or "Tanto"		Positive Drive presser foot lift mechanism
BENT-ZN-101 199_-19__			
BEAT-IV 1989-1997	"Prosperity Plus"	BEAT-IV 7 needle	Includes keyboard lettering
		ZM72001 (tubular) ZM72000 (non-tubular)	
BEAT-III 19__		UF- 5 needle sewing head	AT3 Driver AT-3 Controller

ZIG-ZAG MACHINES

Barudan purchased the manufacturing and R&D assets of Meistergram in 1985, and formed a wholly-owned subsidiary named Barudan America. Barudan America continued to develop and manufacture the zig-zag line of equipment under the Meistergram brand name.

MODEL	VARIATIONS	COMMENTS
B2000 1999-	B2000 (ZM710001)	
M2000 1996-1998	M2000 (ZM710000)	
900 1991-1996	M900XLC (ZM700001)	Tubular, Table-top monogram machine
	M900XLC (ZM700000)	Table-top monogram machine
800 1987-1991	M800XLC	Large Field, and Cylinder sewing head
	M800XLM	Large field
	M800	CRT monitor, Most have floppy disk drive
700 1983-1987	M700XL	Large Sewing Field
	M700	
600 1979-1983	M600XL	Large Sewing Field
	M600	
100 197X-1985?	M100JNS	Pantograph (template) system for monograms (model name denotes head manufacturer)
	M100J	
90	M90	compact, cam driven monogram machine
80 197X-1985?	M80JNS	Free-hand monogram/embroidery machine. (model name denotes head manufacturer)
	M80J	

NOTE: Dates indicate approximate year of introduction- not all versions of all models in all markets were available at the indicated time.