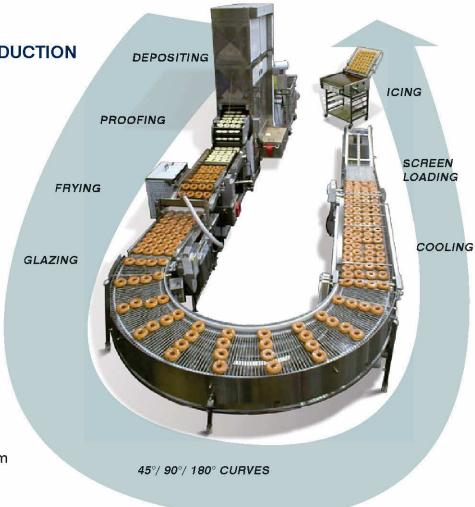
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AUTOMATED DONUT PRODUCTION

Automation offers improved quality and greater consistency compared to manual operations. Automation also reduces labor cost and increases employee satisfaction. Belshaw has spent over 40 years developing automated systems, with improvements being added each year. The result: producing high quality, fresh donuts is now easier than ever.



CENTURY System (Century C6-16)

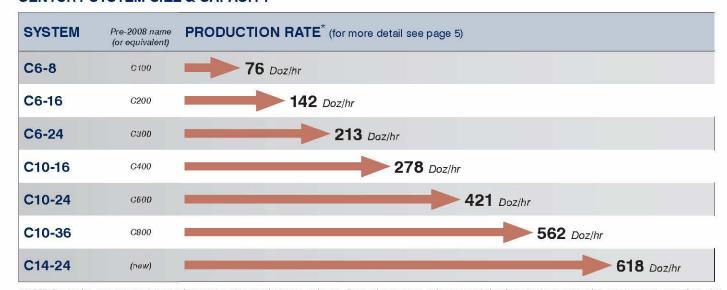
FEATURES OF CENTURY AUTOMATION:

- Modular design choose each component according to your production needs.
- More layouts to meet your space requirements choose from straight-line, three-sided, 45°, 90° and 180° curve configurations.
- □ Exhibition-style production. Rows of donuts filling the fryer, moving through a curtain of glaze, advancing around a curved conveyor – all add an extra dimension to the customer experience you provide.
- Multiple turners, quickly engaged or disengaged, make it easier to produce of a wider variety of donuts.

- Digital controls and displays for better performance and usability, alongside a "keep it simple" approach of using robust time-proven systems.
- □ Dust-free proofing Dusting donuts with flour is eliminated - so is the unwanted intrusion of excess flour into the frying process.
- □ Energy efficiency Belshaw's unique "Controlled Combustion" technology improves energy efficiency.
- ☐ First-class service Our after-sale service draws on experience from hundreds of successful Century installations to provide you with fast, knowledgeable assistance.



CENTURY SYSTEM SIZE & CAPACITY

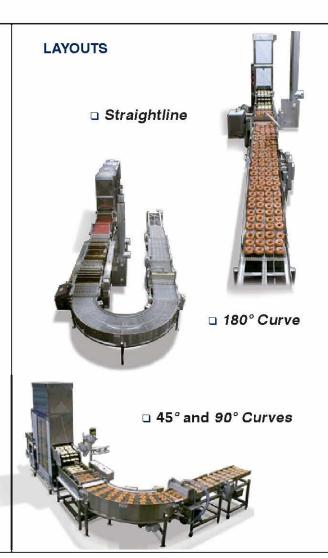


^{*} NOTE: Production rates assume full capacity and should be considered as estimates. Production rates are estimated at a frying time of 110 seconds, using standard pocket spacings of 4* for standard donuts, and one turner. Production rates will vary according to frying time, the size of your donuts, the number of turners, the pocket spacing of the fryer and the percentage of capacity achieved in operation. Always consult a Belshaw industrial sales manager to estimate production rates based on your expected conditions.

Cake donuts Raised donuts ENHANCE YOUR BUSINESS...

Commissaries, wholesalers and exhibition-style bakeries in over 25 countries use the Century system to enhance sales, simplify production and reduce costs. Wherever you find donuts, you'll find Century – the method preferred by high quality donut producers, and backed by Belshaw's decades of specialization in donut production machinery.





Belshaw's Century Fryer series, an industry standard for decades, provides the flexibility and durability required to produce a variety of donuts and other baked goods repeatedly over many years.

The Century Fryer line is designed to meet the diverse needs of today's bakers. With seven fryer sizes and options like multiple turners, submergers, and various flight spacings, Belshaw can configure a state-of-the-art fryer that closely matches your production needs.

New Century Fryer designations

From 2008, Century Fryer designations represent the frying area of each fryer:

Fryer	Frying area	Pre-2008
C6-8	6' x 8" (1.83m x 20cm)	C100
C6-16	6' x 16" (1.83m x 41cm)	C200
C6-24`	6' x 24" (1.83m x 61cm)	C300
C10-16	10' x 16" (3.05m x 41cm)	C400
C10-24	10' x 24" (3.05m x 61cm)	C600
C10-36	10' x 36" (3.05m x 91cm)	C800
C14-24	14' x 24" (4.27m x 61cm)	(New)



Century Fryer Features

ALL CENTURY FRYERS

- · Stainless steel construction throughout
- Variable speed conveyor drive, synchronized with proofer or cake donut depositor
- Moving drop plate to permit cake donuts to float immediately after depositing
- 3", 3.5", 4", or 4.5" center-to-center pocket spacings, with 3/8 inch (9.5mm) diameter flight bars.
- Single turner (2 or 3 turners optional on purchase). Extra turners can be inserted or removed in seconds.
- Slide-in shortening melter for easy loading of shortening blocks (except C6-8 –vertical melter).
- Removable conveyor
 - Models C10-24 and larger: Powered raise with hoist
 - Models C10-16 and smaller: Manual raise
- Exit chute / convevor:
 - Models C10-24 and larger: Exit conveyor
 - Models C10-16 and smaller: Exit chute (standard), or exit conveyor (optional)
- PLC controls with wired remote console up to 75 ft (22m) from fryer (C6-24 and larger).
- Ventilation hood supported by fryer (optional on C10-24 and larger)
- Partial submerger (for rolling ball shaped donuts, optional)
- Fryers can be ordered to flow left-right or right-left. See illustration on page 7. (C10-24 and larger)

CENTURY GAS FRYERS

- · Two temperature zones, independently controlled
- · All gas fryers incorporate digital controls and display.
- Submerged burner tubes with patented turbulators and radiation deflectors for efficient heat transfer
- · Cool zone under burner tubes
- Exhaust damper system to optimize air flow, including stack, heat shield, barometric damper, draft inducer, and proving switch
- Safety features:
 - High temp cut-off switch
 - High/low gas pressure cut-off
 - High/low air flow cut-off
 - Pilot sensor
 - Liquid level safety switch
- Models C10-24 and higher: industrial pre-mix gas system

CENTURY ELECTRIC FRYERS

- Heavy-duty, low watt-density elements
- Elements tilt up in seconds for easy kettle rinse-out or cleaning.
- Two independently controlled temperature zones (C10-16 and higher).
- · Removable kettle
- Safety features:
 - High temp cut-off switch
 - Liquid level safety switch

For a summary table of choices and options on all fryers, see page 7 of the Century Donut System Guide.



FRYER SIZES

FRYER MODEL		FRYING AREA		FRYER CAPACITY (Standard size donuts, at					
(Either gas or electric)	Pre-2008 equivalent	Plan of frying area	Frying Length	Frying Width	V. (2)	sec. frying time (SEE NOT Donuts per pocket	Production rate		
C6-8	C100		6' (1.83m)	8" (20cm)	2	00	76 doz/hr		
C6-16	C200		6' (1.83m)	16" (41cm)	4	0000	142 doz/hr		
C6-24	C300		6' (1.83m)	24" (61cm)	6	000000	213 doz/hr		
C10-16	C400		10' (3.05m)	16" (41cm)	4	0000	278 doz/hr		
C10-24	C600		10' (3.05m)	24" (61cm)	6	000000	421 doz/hr		
C10-36	C800		10' (3.05m)	36" (91cm)	8	00000000	562 doz/hr		
C14-24	(new)		14' (4.27m)	24" (61cm)	6	000000	618 doz/hr		

NOTE: Production rates assume full capacity and should be considered as estimates only. Production rates are estimated at a frying time of 110 seconds, using standard pocket spacings of 4" for standard donuts, and one turner. Production rates will vary according to frying time, the size of your donuts, the number of turners, the pocket spacing of the fryer and the percentage of capacity achieved in operation. Always consult a Belshaw industrial sales manager to estimate production rates based on your expected conditions.





MODEL C6-8 — 6 ft. fryer, 2 standard donuts per pocket, shown with MD-2 cake donut depositor. C6-8 is electric only.





MODEL C6-16 — 6 ft. long fryer, 4 standard donuts per pocket, frying raised. donuts (right). Gas and electric models available.





 $\begin{tabular}{ll} \textbf{MODEL C6-24} & -6 \text{ ft. fryer, 6 standard donuts per pocket, shown at right with MDDRF-6 cake donut depositor. C6-24 is a gas-only fryer. \end{tabular}$



 $\textbf{MODEL C10-16} - 6 \, \text{ft.}$ long fryer, 4 standard donuts per pocket, frying raised donuts (right). Gas and electric models available.



MODEL C10-24 — 10 ft. fryer, 6 standard donuts per pocket, part of a donut system frying raised donuts. Gas and electric models available.



MODEL C14-24 — 14 ft. fryer, 6 std donuts per pocket, with conveyor hoist standard. All models C10-24 and higher (gas and electric) incorporate this design and appear similar.



Pocket Spacing

Donuts or other products are conveyed by round flight bars spaced either 3"(76mm), 3.5"(89mm), 4"(102mm) or 4.5"(114mm) from centerto-center. Subtract the width of a flight bar (3/8"/10mm) to determine the exact space between flight bars.

Multiple Turners

Standard conveyor includes one turner. One or two additional turners (e.g. for french crullers) may be optionally installed when ordering. Removable turners can be inserted or removed quickly without tools.

Feed Table (A)

In cases where a rack proofer (or no proofer at all) is used, a synchronized Feed Table loads raised donuts into the fryer. (See page 32 for more Feed Table information)

Transfer Conveyor

The Transfer Conveyor enables rapid changeover between cake and raised donut production without needing to move the proofer. At changeover, the cake donut depositor is exchanged with the transfer conveyor, (see page 22 for more information on the Transfer Conveyor).

Conveyor Removal

Frvers C10-24 and larger frvers incorporate electrically powered hoist as standard. Hoist brackets are optional on fryers up to C10-16.

Exit Chute / Exit Conveyor

Exit chute (standard on fryers up to C10-16) drops donuts onto the glazing and cooling line.

Exit conveyor (optional on fryers up to C10-16) transfers donuts while keeping each row in line on wire-belt conveyor.

Fryers C10-24 and higher incorporate standard Integrated conveyor.

Submerger B

A specialized conveyor submerges and guides ball-shaped donuts under the shortening. The submerger extends approximately two feet and browns the donuts over most or all of their surface. It retracts in seconds to change back to normal frying. Available with 6-wide and 8-wide fryers.

Control panel options (

Control panels vary. A wired remote control console is available with C6-24 and larger fryers. These include precise controls for the fryer and synchronization controls for other components. Remote consoles may be located up to 75 feet (22m) from fryer.

Other controls are shown at right.







Exit chute





Submerger





Submerger with ball donuts

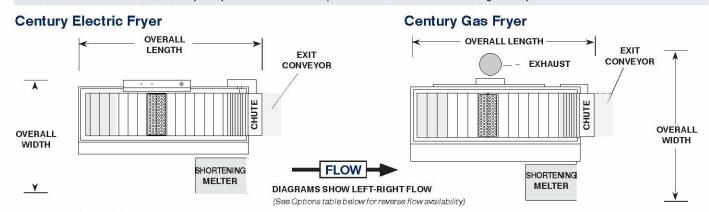
Remote console with PLC





PLC panel

Important: When exact specifications are required for configuring your donut production system, please consult your Belshaw industrial sales manager for dimensions and electrical data based on your fryer characteristics. The specifications below are intended as a guide only.



Century Fryer Dimensions & Power

					APPROX	APPROX		ELECTRICAL	GAS		
MODEL	TYPE	OVERALL HEIGHT	OVERALL LENGTH ²	OVERALL WIDTH	SHORTENING CAPACITY	SHIPPING WEIGHT	208/240V 50/60hz 1ph	208/240V 50/60hz 3ph	380/440V 50/60hz 3ph	BTU/hr	Inlet dia
C6-8	Electric	42" (105cm)	72" (183cm)	41" (103cm)	110lbs (50kg)	420lbs (191kg)	58/66 A	33/38 A	17/20 A	10	
C6-16E	Electric	42" (105cm)	72" (183cm)	55" (140cm)	188lbs (85kg)	545lbs (248kg)	100/115 A	59/68 A	32/37 A	9	
C6-16G	Gas	42" (105cm)	72" (183cm)	70" (178cm)	346lbs (157kg)	630lbs (286kg)	5 A	-		188,000	1" NPT
C6-24G	Gas	42" (105cm)	72" (183cm)	75" (159cm)	700lbs (318kg)	1020lbs (464 kg)	7.5 A	<u> </u>		200,000	1" NPT
C10-16E	Electric	43" (196cm)	130" (330cm)	55" (140cm)	478lbs (217kg)	1200lbs (545kg)		118/135 A	66/76 A	Ø	
C10-16G	Gas	43" (196cm)	130" (330cm)	70" (178cm)	600lbs (272kg)	1600lbs (727kg)	10 A	10 A	10 A	350,000	1" NPT
C10-24E	Electric	77" (196cm) ¹	130" (330cm)	67" (170cm)	675lbs (306kg)	2000lbs (909kg)		184/212 A	100/115 A	12	
C10-24G	Gas	77" (196cm) ¹	130" (330cm)	80" (203cm)	1250lbs (568kg)	2500lbs (1136kg)	10 A	55 A	34 A	360,000	1" NPT
C10-36E	Electric	77" (196cm) ¹	130" (330cm)	82" (208cm)	1013lbs (460kg)	3000lbs (1364kg)		230/265 A	128/147 A	0	
C10-36G	Gas	77" (196cm) ¹	130" (330cm)	95" (241cm)	1875lbs (852kg)	3750lbs (1705kg)	15 A	55 A	34A	565,000	1" NPT
C14-24E	Electric	77" (196cm) ¹	178" (452cm)	67" (170cm)	945lbs (430kg)	2800lbs (1273kg)		184/212 A	100/115 A	®	
C14-24G	Gas	77" (196cm) ¹	178" (452cm)	80" (203cm)	1750lbs (795kg)	3500lbs (1591kg)	10 A	55 A	34 A	505,000	1" NPT
Note 1: 77" h	neight include	s integrated hoist, b	ut not hood		Note 2: For fryers up to	C10-16, add 16" (41cm) if and exit conve	yor is supplied			

Century Fryer Options Summary ✓ Standard + Optional

CENTURY MODEL		► C6-8	C6-16E	C6-16G	C6-24G	C10-16E	C10-16G	C10-24E	C10-24G	C10-36E	C10-36G	C14-24E	C14-24G
		Electric	Electric	Gas	Gas	Electric	Gas	Electric	Gas	Electric	Gas	Electric	Gas
SHORTENING MELTER	Upright	V											
	Slide-in		\checkmark	V	1	\checkmark	✓	1	✓	1	✓	\checkmark	✓
DROP PLATE	Stationary	1	✓	V									
	Moving		+	+	1	✓	✓	✓	✓	✓	V	✓	V
EXIT METHOD	Chute	1	✓	✓	1	1	1						
	Conveyor		+	+	+	+	+	1	1	1	1	\checkmark	✓
SUBMERGER	Conveyor-type, partial				+	+	+	+	+	+	+	+	+
CONTROL PANEL	Analog controls	✓	✓										
	Digital + analog controls		+			1	1						
	Digital controls			1	V								
	PLC + remote console							1	1	1	1	✓	1
TURNERS	1	V	✓	✓	1	1	1	1	✓	1	1	✓	1
	2		+	+	+	+	+	+	+	+	+	+	+
	3		+	+	+	+	+	+	+	+	+	+	+
SPACING	3" (76mm)	+	+	+	+	+	+	+	+	+	+	+	+
	3.5" (89mm)	+	+	+	+	5 1 3	+	+	+	+	+	+	+
	4" (102mm)	1	✓	V	1	1	1	\checkmark	1	1	\checkmark	V	1
	4.5" (114mm)	+	+	+	+	+	+	+	+	+	+	+	+
HEAT	Heat zones	1	1	2	2	2	2	2	2	2	2	2	2
	Electric	✓	1			1		√		1		1	
	Gas - atmospheric			✓	1		1						
	Gas - pre-mixed								1		V		1
FLOW (See diagram above for explanation)	Left - Right (standard) Right - Left (reverse)	1	✓	1	1	✓	1	1	1	1	1	1	V