



SERVO-DRIVE for AVENTOS

Notes on machine guideline

Furniture with SERVO-DRIVE for AVENTOS, as long as it is intended for domestic use, is not subject to the provisions of the Machine Directive 2006/42/EC. This is valid for items for office and professional use and for putting a machine on the market within the Euro. Economic Area (EEA + Switzerland + Turkey).

The standards and/or guidelines of other countries are covered with our TÜV certification.

What do you do when the machine directive is applicable?

As a **furniture manufacturer** you are required to

- carry out a **risk assessment** for the built-in furniture
- create and archive **technical documentation**
- fill out and sign a **Declaration of Conformity**
- place the **CE marking** on the furniture (fill out and attach serial tag)
- pass on the **instruction leaflet** and a copy of the **Declaration of Conformity** to your customers in the respective language

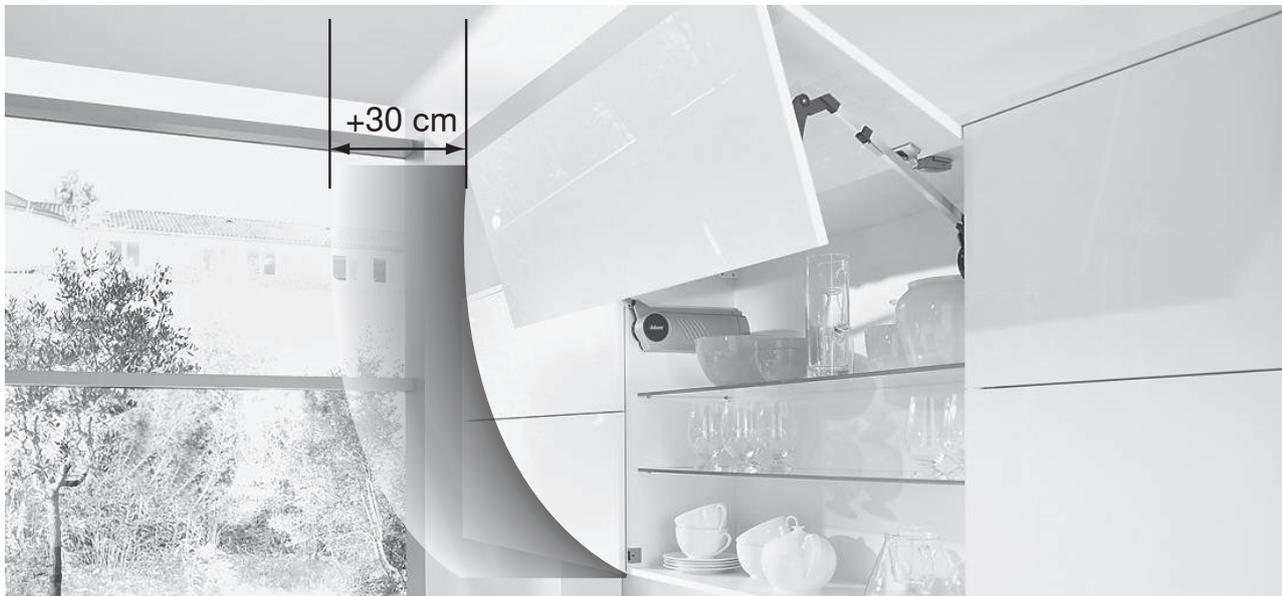
Risk assessment

The objective of the risk assessment is to determine, evaluate and minimise the dangers during manufacturing and use of the furniture.

Julius Blum GmbH has carried out a risk assessment for a standard kitchen run, which takes into account the following criteria:

- the specifications of the installation instructions and instruction leaflet
- an additional safety distance of 30 cm to the swivel area of the front
- the fronts are free of pointed corners and sharp edges
- it is not possible for the fronts to collide (even over the corner).

If these 4 criteria are met, then the following risk assessment can be used. Otherwise an expanded risk assessment is required.



Risk assessment of standard kitchen run

Danger area	Risk in (before)	Measures	Risk out (after)
Crush danger			
Crush danger due to the collision of two SERVO-DRIVE lift system fronts arranged over a corner	W: 0 SA: L AD: H EA: M WE: M	Activate the collision avoidance function for both drive units	W: 0 SA: K AD: - EA: - WE: -
Crush danger when opening and closing SERVO-DRIVE lift system fronts next to each other (also other furniture fronts)	W: 0 SA: L AD: H EA: M WE: M	None (low risk and extent of damage)	W: 0 SA: L AD: H EA: M WE: M
Crush danger due to the collision of two SERVO-DRIVE lift system fronts above and below each other. (lower lift system front collides with the open lift system front above it when opening)	W: 0 SA: L AD: H EA: M WE: M	Activate the collision avoidance function for both drive units	W: 0 SA: K AD: - EA: - WE: -
Crush danger when opening the SERVO-DRIVE lift system front due to a collision of the lift system front and the furniture front next to it	W: 0 SA: L AD: H EA: M WE: M	None (low risk and extent of damage)	W: 0 SA: L AD: H EA: M WE: M
Cut danger			
Cut danger due to sharp edges on the front	W: 1 SA: L AD: H EA: K WE: M	Front has no pointed corners or sharp edges	W: 0 SA: K AD: - EA: - WE: -
Electrical hazard			
Cable rubs against moving parts (drawer, etc.)	W: 5 SA: T AD: S EA: M WE: K	See note in instruction leaflet	W: 5 SA: T AD: S EA: M WE: K

Risk:

W = value (0 = lowest risk; 10 = highest risk)

SA = extent of damage

AD = duration in danger area

EA = possibilities of detection and avoidance

WE = probability of occurrence

Marking of the kitchen

The furniture must have a serial tag incl. CE marking. It must contain the manufacturer name, address, description of the machine, identification of the furniture (series or type description or part number or order description) and year of manufacture. The serial tag must be easy to see by the furniture user.

Example

Bezeichnung d. Maschine:
Machine description: Tipo di macchina:
Désignation de la machine: Designation de la máquina: →

Herstellername:
Name of manufacturer: Nome del produttore:
Nom du fabricant: Nombre del fabricante: →

Adresse:
Address: Indirizzo:
Adresse: Dirección: →

Identifizierung d. Möbels:
Furniture description: Tipo di mobile:
Identification du meuble: Designation del mueble: →

Baujahr:
Year of manufacture: Anno di produzione:
Année de fabrication: Año de fabricación: →

AK-46/0

Elektrisch angetriebenes Möbel / Electrically-driven furniture / Meuble actionné électriquement / Mobile azionato elettricamente / Mueble accionado electrónicamente



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Technical documentation

The furniture manufacturer is required to create technical documentation.
The following documents must be archived for 10 years and available upon request.

	Created by
Instruction leaflet	Blum
Installation instructions	Blum
SERVO-DRIVE for AVENTOS Declaration of Conformity (part of the installation instructions)	Blum
Risk assessment for built-in furniture	Furniture manufacturers
Furniture drawing	Furniture manufacturers
Furniture manufacturer's Declaration of Conformity	Furniture manufacturers

Declaration of Conformity

A template of the Declaration of Conformity according to Machine Directive 2006/42/EC will be made available by Julius Blum GmbH. The furniture manufacturer is required to archive the filled-out and signed Declaration of Conformity for 10 years. A copy must be included with the furniture or order.

Example

EC Declaration of Conformity

We, the company, _____ **Your company name and address**

herewith declare on our own responsibility that the product _____ **Identification of the furniture (see serial tag)**

to which this Declaration refers, complies with the following EU Directives:

EC Machine Directive	2006/42/EC
EC EMV Directive	2004/108/EC
Directive for wireless systems and telecommunications equipment	1999/05/EC

The following harmonised European standards have been used to ensure proper implementation of the requirements specified in the EU Directives:

EN 60335-1,	EN 55014-1,
EN 55014-2,	EN 61000-3-2,
EN 61000-3-3,	EN 300440-2,
EN 301489-1,	EN 301489-3,
EN ISO 12100-1,	EN ISO 12100-2

City: _____ **Your city**

Date: _____ **Date**

Description: _____ **Your name**

Function: _____ **Your function**

Signature: _____ **Your signature**

Name of contact partner
for the technical documentation:

_____ **Your name**

Dissemination of documentation

The furniture manufacturer is required to provide the **furniture user** with the following documents.

- Instruction leaflet
- Copy of signed Declaration of Conformity
- CE marked furniture



Templates are included in the installation instructions and instruction leaflet.
Download at www.blum.com

Addition: Expanded risk assessment

Example

The additional safety distance cannot be guaranteed between the exhaust hood and the lift system front; therefore, an additional risk assessment is required.

Crush danger					
Crush danger when opening the lift system front by the fact that the 30cm recommended safety distance cannot be achieved between the front & the cooker hood exhaust hood.	W:	0	Relocating the exhaust hood	W:	0
	SA:	L		SA:	K
	AD:	H		AD:	-
	EA:	M		EA:	-
	WE:	M		WE:	-

	(SA)	(AD)	(EA)	(WE)				
				Small	Medium	Large		
				0	0	0		
Start	No injury (K)			Possible (M)	0	0	0	(SA) extent of damage
					0	0	1	(AD) duration in danger area
	Light (L)			Barely possible (K)	0	1	2	(EA) possibility of detection and avoidance of the danger
					1	2	3	(WE) probability of occurrence
	Major (S)	Seldom (S)	Frequent (H)	Barely possible (K)	2	3	4	(W) value
					3	4	5	
	Death (T)	Seldom (S)	Frequent (H)	Possible (M)	4	5	6	
					5	6	7	
				Barely possible (K)	6	7	8	
					7	8	9	
			Possible (M)	8	9	10		
				8	9	10		
				(W)				