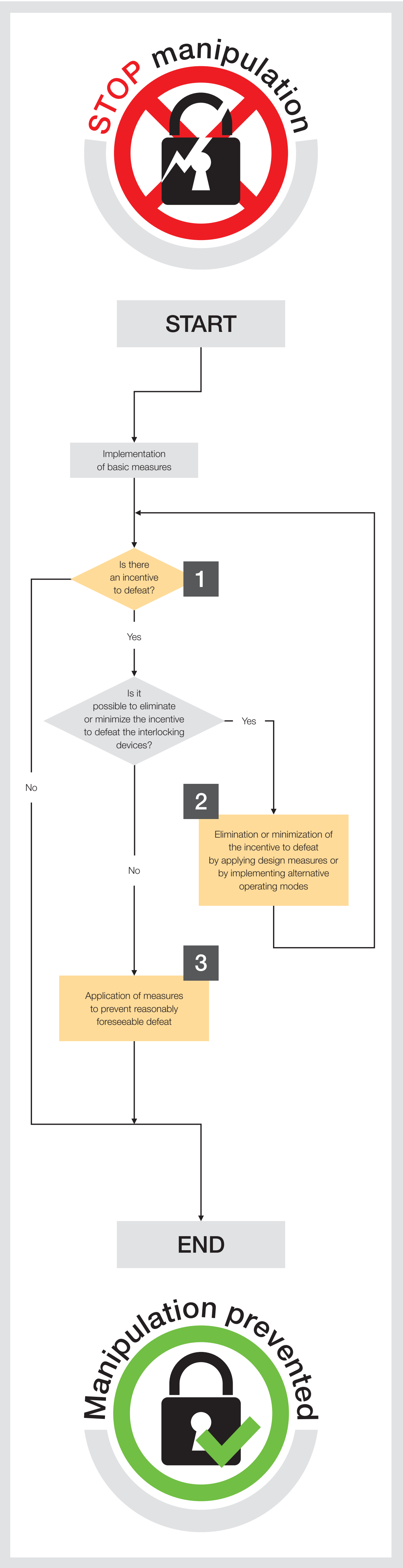


Stop manipulation – EN ISO 14119 correctly implemented



1

1. Evaluation of motivation to defeat interlocking devices

Task	Mode 1 ¹⁾	Mode 2 ¹⁾	Mode 3 ¹⁾	Mode 4 ¹⁾	Mode 5 ¹⁾	Task permissible in these modes of operation?	Task possible without defeating?	Easier/ more convenient ²⁾	Faster, increased productivity	Flexibility, e.g. for larger workpieces ²⁾	Higher precision ²⁾	Better visibility ²⁾	Better audibility ²⁾	Less physical effort ²⁾	Reduced travel ²⁾	Greater freedom of movement ²⁾	Improved flow of movement ²⁾	Avoidance of interruption ²⁾	...
Initial operation																			
Program test/ Test run																			
Setup/adjustment																			
conversion/tooling																			
Machining																			
Manual intervention for swarf removal																			
Manual change of workpiece																			
Manual intervention for trouble shooting																			
Checking/ random sampling																			
Manual intervention for measuring/ fine tuning																			

¹⁾ Modes of operation include automatic mode and manual mode
Op. mode 1: Automatic mode
Op. mode 2: Setup
Op. mode 3: Test run
Op. mode 4: Process monitoring
Op. mode 5: Service

²⁾ Benefits without protective device:
0 = none; + = Minor; ++ = Substantial

Table based on EN ISO 14119

2

Automatic mode

Set-up mode

Alternative measures

Alternative operating modes (set up):

Operating modes	Control system	Enabling switch
 Webcode: web150439	 Automation system PSS 4000 Webcode: web225263, web188188, web150507	 Enabling switch PITenable Manually operated control devices PITjog Webcode: web150440, web150437

3

Additional measures:

Coding level	Safety switches			Safety gate systems				Measure to prevent defeating of interlocking device
	PSENmech	PSENmag	PSENcode	PSENmech with guard locking	PSENSlock	PSENmlock	PSENSgate	
Low/ medium								No measure required.
	X	X	Coded	X	Coded	Coded	Coded	Permanent attachment required. In addition, the device must be attached beyond reach or in a concealed position, or the actuator ID must be monitored with the SDD.
High								No measure required.
			Fully coded, unique fully coded		Fully coded, unique fully coded	Fully coded, unique fully coded	Unique fully coded	Permanent attachment required.

Webcode: web150521 Webcode: web150524

Permanent attachment methods:

Welding	Bonding	Bolting	Capping

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