Inspecting wheels at full speed.



ZEISS BOSELLO WRE thunder



Seeing beyond

ZEISS BOSELLO WRE thunder

Inspecting alloy wheels quickly in the cycle of production? With ZEISS BOSELLO WRE thunder – as one of the fastest systems for 2D X-ray inspection of alloy wheels – this is possible. You can check a wide range of wheel models and detect unconformities according to most of the foundry automotive specifications.



SECURE GRIP

The individually driven and motor-controlled rollers ensure a strong and secure hold as well as high speed and accuracy for 360° inspection. Even heavy and large wheels can be safely inspected and transported due to the extremely robust multiple chain conveyor.



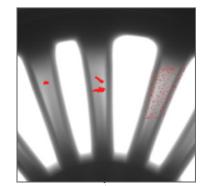
SAVE TIME

The pass-through concept of the system and a fast change of wheels in less than 2.5 seconds, allows fastest inline inspection. This also applies when inspecting different sizes of wheels.



AUTOMATIC INSPECTION

The automatic classification and inspection of wheels with the in-house developed ADR software ensures reliable quality assurance for best quality of your parts. Non-compliant wheels are automatically rejected.









SAVE SPACE

Inspect your wheels on the smallest space in your production. With ZEISS BOSELLO WRE having a footprint of only 6 m², you save a lot of valuable space!



ROBUST & RELIABLE

ZEISS BOSELLO WRE thunder has proven to be the perfect fit for the production environment for almost 20 years. With its strong and robust mechanical structure it is designed for long and continuous use in a heavy industrial environment.

System de	scrintion

Sensor technology	8 inches Flat panel detector		
Software	Automated		
	Evaluation: ADR (Automated Defect Recognition)		
Applications	2D X-ray inspection of alloy wheels		

Radiation generation and sensor technology				
ZEISS BOSELLO WRE thunder			3	3/Т
X-ray tube	Max. tube voltage	in kV	160	160
	Max. target performance	in W	800/1800 640/640	800/1800 640/640
	Focal spot size acc. EN12543 ¹⁾	in mm	0.4/1.0 1.0/1.0	0.4/1.0 0.1/1.0
Flat panel detector 8 inch	Number of pixels		1024 x 1024	1024 x 1024
	Pixel size	in µm	200	200
	Active area	in mm	200 x 200	200 x 200
	Frame rate (14 bit ADC)	in fps	15/30 (1 x 1/2 x 2 Binning)	15/30 (1 x 1/2 x 2 Binning)

Workpiece				
ZEISS BOSELLO WRE thunder		3	3/T	
Wheel dimensions range		4J x 13'' - 11J x 22''	4J x 14'' - 11J x 26''	
Max. workpiece weight	in kg	50	50	

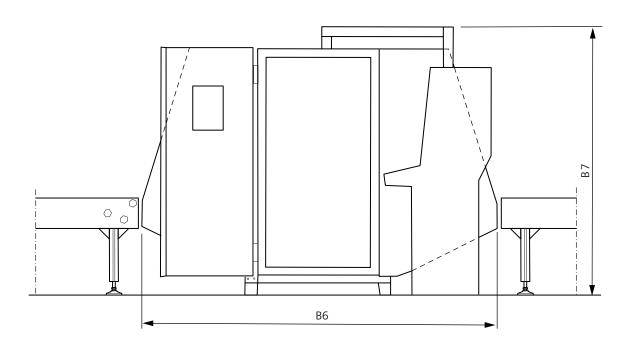
Axes				
	3	3/T		
	+45°/-35°	+45°/-35°		
	6 + 2 CNC control; driven by stepping motors	6 + 2 CNC control; driven by stepping motors		
in m/min	up to 15	up to 15		
	in m/min	6 + 2 CNC control;		

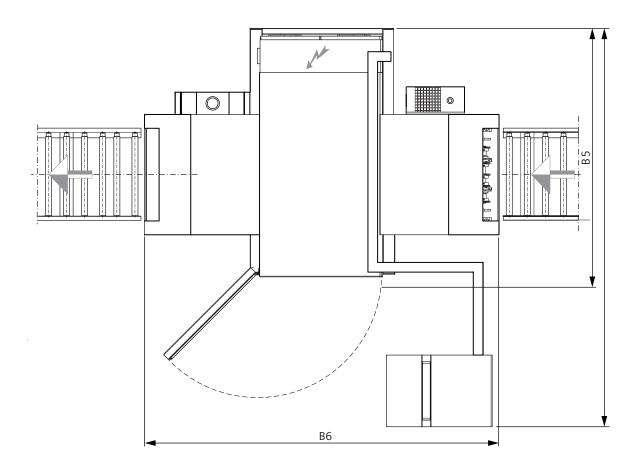
Technical features				
ZEISS BOSELLO WRE thunder		3	3/T	
Radiation shielded cabinet		Self-contained lead and steel, movable by crane or forklift	Self-contained lead and steel, movable by crane or forklift	
Protective enclosure		In compliance with the strictest international regulations for fully shielded radiation devices.	In compliance with the strictest international regulations for fully shielded radiation devices.	
Loading door type		Pneumatic single-leaf horizontal sliding door	Pneumatic single-leaf horizontal sliding door	
Loading time (image to image)	in s	≤ 2.5	≤ 2.5	

Requirements for operational readiness			
ZEISS BOSELLO WRE thunder	3	3/T	
Power rating	50 Hz single phase	Power supply: 2 x 230 V AC (± 10%) 50 Hz single phase Max. power consumption: 2 x 4 kVA	

Approvals	
Disposal	ZEISS products and packaging returned to us are disposed of in accordance with applicable legal provisions.

ZEISS BOSELLO WRE thunder sizes	Dimensions in	mm	Weight in kg	
	Overall machine			
	Width	Length	Height	
	B6	B5	В7	
3	2900	2000	2000	4500
3/Т	2900	2000	2000	4500





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