



Microfinish for Crankshafts

CrankStar



Microfinish Task

Reduction of roughness, improvement of roundness and waviness on main and pin bearings as well as reduction of roughness at thrust faces and seal seats

Microfinish Advantages

Significantly increased percentage contact area of the workpiece's functional surfaces, reduction of friction, increased service life, reduced wear and energy requirements, lower noise by reduction of waviness

Special Machine Features

Horizontal machine, small size ratio, easy access, easy set-up, loading within cycle time possible



Shortest cycle times with optimised finishing units and loading system

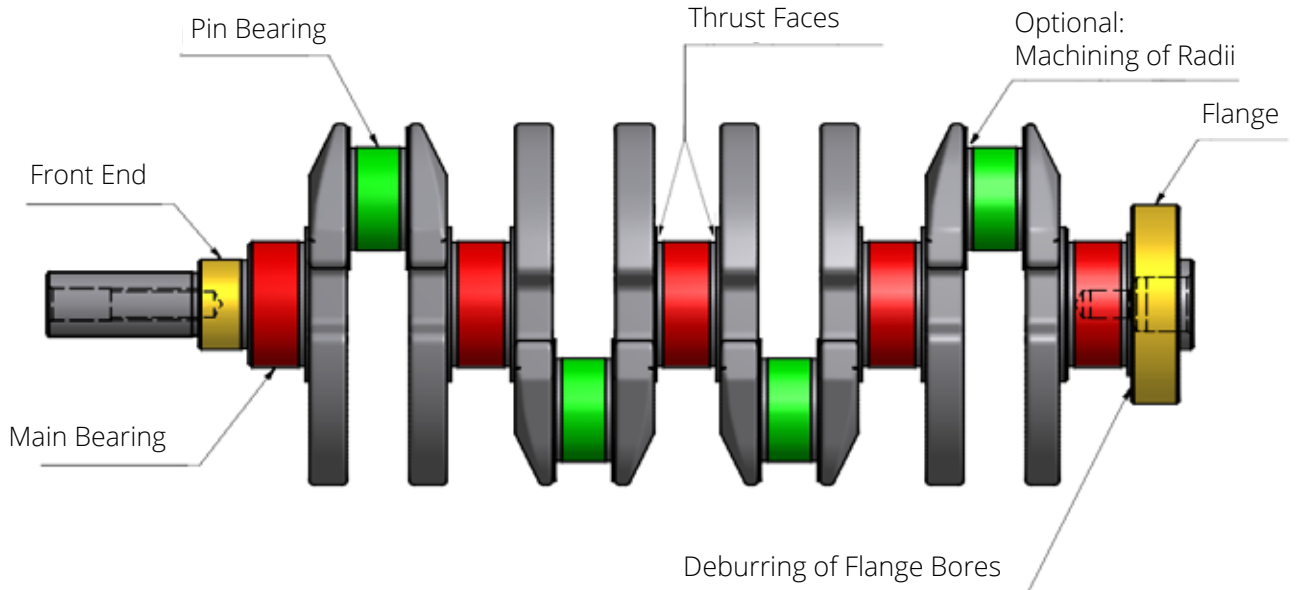
Modular machine system with 1-X stations



www.thielenhaus.com



The Power of Precision.

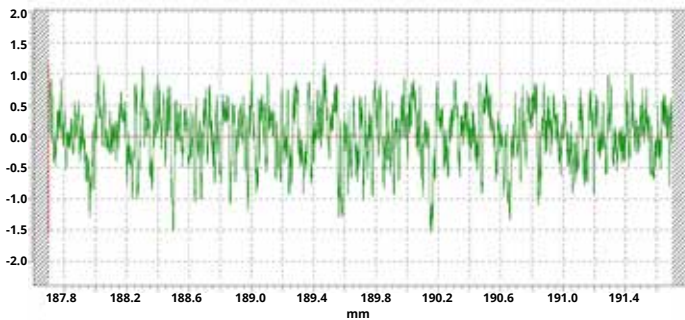


Thielenhaus CrankStar TX

- Optimised for large-scale production
- 3- and 4-cylinder crankshafts
- Length up to 500 mm
- Modular concept (1-X stations)

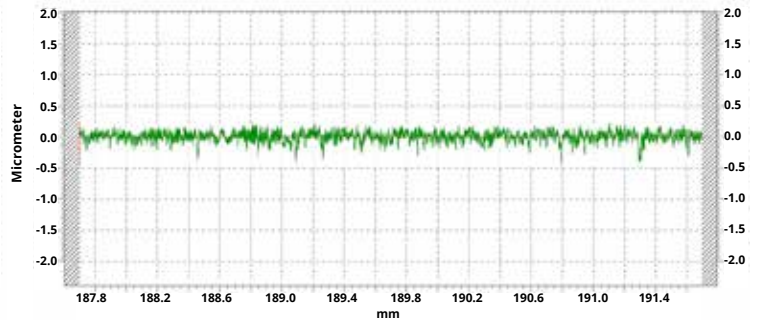
Thielenhaus CrankStar SX

- Optimised for highly flexible lines
- 1-X cylinder crankshaft
- Length up to 800 mm
- Stroke up to 100 mm



Ra	0,3497	µm			
Rp	1,0681	µm	Rv	1,3583	µm
			Rz	2,4264	µm
Rz1max	2,6566	µm			

Roughness of crankshaft before Microfinish



Ra	0,0621	µm			
Rp	0,1949	µm	Rv	0,3789	µm
			Rz	0,5738	µm
Rz1max	0,6308	µm			

Roughness of crankshaft after Microfinish

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