Failure finding list

In case of a malfunction of a product please complete the failure finding list and attach it to the product.
An incomplete failure check list may lead to delays in the repair process.

Order details

Customer/ company				
Date				
Name of technician				
SW Service-Order-No				
Serial-No of *NEW* spindle				
Machine-No				
Spindle	☐ 1	☐ 2	☐ 3	☐ 4

Product data

Serial-No		
Machine operating hours		
Product operating hours		
Number of clamping cycles		
Customer‘s shift operation	☐ 1 / shift ☐ 3 / shift	☐ 2 / shift ☐ 3+ / shift
Main rotation speed range		
Operating mainly with inter-nal cool. lubricant?	☐ Yes	☐ No
Customer‘s range of parts	☐ steel ☐ plastics ☐ others	☐ cast iron ☐ aluminium
Tool balanced	☐ Yes	☐ No
Initial start-up of product	☐ at facility (OEM) ☐ at customer date	

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Please check the applicable failure descriptions

Collision ☐ Yes ☐ No

Transport damage ☐ Yes ☐ No

Electrics and connections
- ☐ motor breakdown
- ☐ power connection / cable carrier damage

Tool clamping system
- ☐ problems with clamping / unclamping
- ☐ geometry of tool holder demaged
- ☐ hydraulic oil leakage
- ☐ cone cleaning air defective

Cooling lubricant supply
- ☐ internal cooling lubricant supply failure
- ☐ outer cooling lubricant supply failure
- ☐ minimum lubrication failure
- ☐ cooling lubrication leakage
- ☐ permanent leakage rotary union

Clamping
- ☐ clamping defective / function restricted
- ☐ calmping leakage

Cooling
- ☐ coolant leakage
- ☐ motor overheating

Bearing, gear and sealing
- ☐ sealing air / purging air defective
- ☐ bearing overheating °C
- ☐ oil-air lubrication / grease relubrication defetive

Sensor and monitoring system
- ☐ speed and position encoder signal failure
- ☐ analog data encoder defective
- ☐ proximity switch defective
- ☐ piston monitoring of release unit defective
- ☐ leakage monitoring failure
- ☐ tempreature monitoring of motor defective
- ☐ bearing temperature monitoring defective
- ☐ vibration sensor failure
- ☐ adjusting nut monitoring failure
- ☐ linear expansion sensor failure

Spindle body
- ☐ mechanical damage

Geometry
- ☐ radial runout failure
- ☐ surface quality issues
- ☐ dimensional deviation of workpiece
- ☐ linear expansion during operation
- ☐ deviations in shape and position
- ☐ axial play
- ☐ offset

Operating performance
- ☐ vibrations
- ☐ running noise
- ☐ speed fluctuations
- ☐ shaft / axis blocked

Detailed failure description / provided components