

## Get started again

### How to make sure your production starts smoothly

The virus Covid19 has challenged our lives, businesses and productions. Fortunately, light is visible at the end of the tunnel and a restart of production in sight. The SSM worldwide support network wants to make sure its customers can restart the machines as smooth as possible. Therefore, together with our technicians, we have developed a checklist, which should facilitate the process of restarting the machines.



When machines stand still the factory could encounter various challenges, which need to be solved.

### Possible challenges when restarting your machines

1. Power supply – wrong voltage of system and cable issues
2. Air supply – difficulties caused by condensed water and oil residues
3. Water supply – leakage or blocked pipes
4. Oil supply – blocked pipes or bad oil quality
5. Mechanical parts – damaged parts due to long downtime, dust and humidity
6. MT, PCBs and sensors – possible data loss and impact from a dusty environment

Before turning on the main power switch for the machine, please check the following points to avoid damage to the machine.

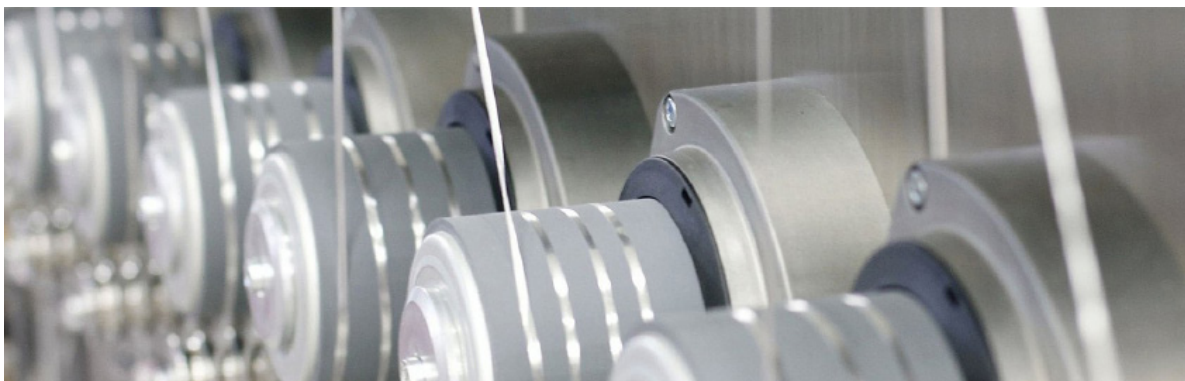
Area	Description	Checklist
1. Power supply	<ul style="list-style-type: none"> <li>– Clean electrical channel and headstock with a vacuum cleaner</li> <li>– Check if the input voltage is correct, PE and neutral</li> <li>– Verify rotation of power supply L1, L2 and L3 in connection with the motor rotation of ventilators and overhead cleaners</li> <li>– Tighten all the screws in the transformer and cable terminal</li> <li>– Verify all electrical cables for physical damage (mouse bites)</li> </ul>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
2. Air supply	<ul style="list-style-type: none"> <li>– Disconnect main air pipes completely</li> <li>– Drain air pipes from condensed water and oil residues by blowing compressed air through them until the air is clean</li> <li>– Check air pressure, should be a minimum of 6 bar</li> <li>– Open and clean all air filters, including filter of dust protection device</li> <li>– Reconnect all air pipes</li> </ul>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>

# Restart machines

Area	Description	Checklist
3. Water supply	<ul style="list-style-type: none"> <li>- Check and clean water supply, exhaust pipes and wetting heads</li> <li>- Clean the filter and remove dust</li> <li>- Make sure there is no leakage on the piping system</li> </ul>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
4. Oil supply	<ul style="list-style-type: none"> <li>- Clean oil rollers and lubrication pipes</li> <li>- Check for oil leakages in between connections</li> <li>- Check pumps and storage tanks (oil standard, Kissroller system, Lubetex)</li> <li>- Check oil temperature in case of hot lube tank</li> </ul>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
5. Mechanical parts	<ul style="list-style-type: none"> <li>- Clean complete machine and remove dust and fluff</li> <li>- Rotating or running parts must turn or move freely when moved manually, e.g. traverse unit, driving flange, support rollers, godets, feeder rollers etc.</li> <li>- Check all the elements of the yarn path, e.g. ceramics and yarn guides, yarn cutter, tension device etc.</li> </ul>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
6. PCBs and sensors	<ul style="list-style-type: none"> <li>- Check and clean all sensors from oil residue, dust, fluff and yarn waste, e.g. yarn sensors, flange sensors, support roller sensors etc.</li> <li>- Make sure there are no signs of condensate in cabinet</li> </ul>	<input type="checkbox"/> <input type="checkbox"/>

If all the above points have been checked and fixed, you can move to switching on the machine.

Area	Description	Checklist
1. Power supply (Switch on)	<ul style="list-style-type: none"> <li>- Make sure all fuse switches are initially switched off</li> <li>- Switch on the main power and check power supply on fuse switches</li> <li>- If the power supply on fuse switch is correct, switch on one by one</li> <li>- Check the power supply and PE of the machine terminal before switching on according to the electrical diagram</li> <li>- Only TK2-20 with automatic doffer tuck in system: make sure all tuck in devices are in the "Home Position" before turning on the machine</li> </ul>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
2. Machine terminal	<ul style="list-style-type: none"> <li>- Make sure all recipes are still available</li> <li>- Keep back-up USB stick ready in case needed</li> <li>- Check, if all PCBs are communicating correctly, otherwise proceed with spindle numbering</li> </ul>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
3. General	<ul style="list-style-type: none"> <li>- Check, if all the spindles have correct software version installed</li> <li>- Make sure all spindles have the right recipe assigned</li> <li>- Make sure all spindles are calibrated correctly</li> </ul>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>



Please reach out to the support centre in your region. SSM country contact list:

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### Spare parts

Order the spare parts you require via this link: [https://www.ssm.ch/eng/spare-parts\\_38698.shtml](https://www.ssm.ch/eng/spare-parts_38698.shtml)