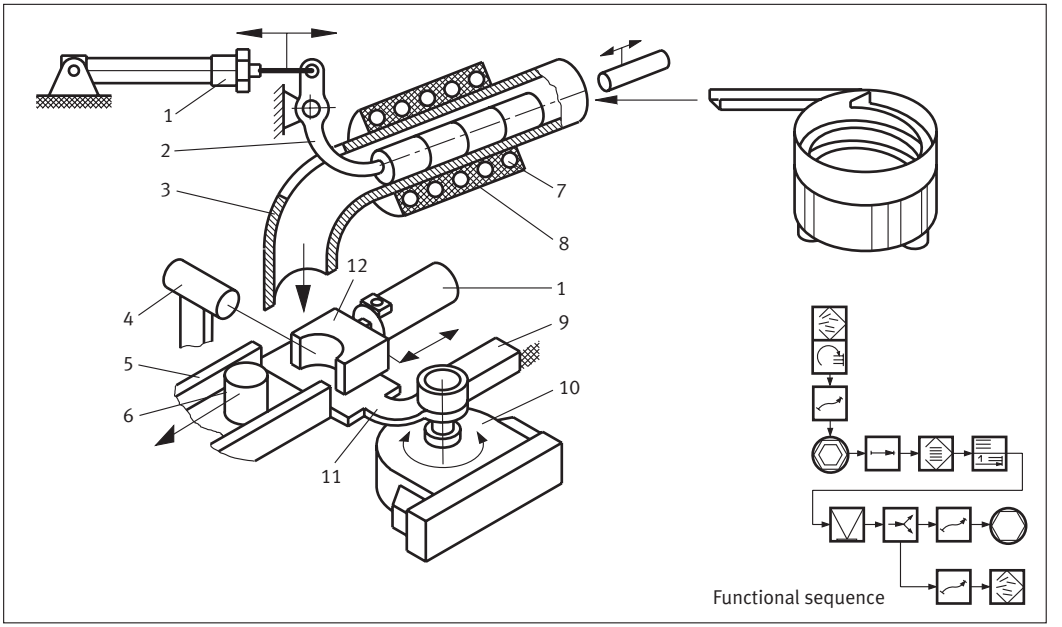
88
Sorting



Inductive heating system

1 Pneumatic cylinder
2 Shut-off lever
3 Guide tube
4 Infrared temperature sensor
5 Chute
6 Workpiece
7 Inductive heating
8 Insulation
9 Fixed round guide for rotary vane
10 Swivel unit
11 Rotary vane
12 Slide

The purpose of the solution shown above is to feed red-hot workpieces to a machine tool such as a forging press. A minimum temperature must be ensured during this operation. The workpieces are taken from a hopper feed device and are inserted into the heating tube. Parallel to this, a workpiece is released from the other end of the tube. It falls onto the rotary vane, where its temperature is measured. In the case of workpieces which are too “cold”, the rotary vane moves away, allowing the workpiece in question to fall through. Workpieces which are at the correct temperature are pushed in a red-hot state into the machine tool (not shown) for processing. The rotary vane is mounted on special bearings which ensure that the rotary drive only needs to develop torque and does not need to compensate for any tilting forces.

Suitable components:
Standard cylinder ESN...
Proximity switch SM...
Semi-rotary drive DSR...
Standard cylinder ESW...
Clevis foot mounting LBN...
Rod clevis SG...
Pneumatic single pilot valve...
Mounting accessories
Fittings