

# **Cleaning Unit**

## **Type RGG 20**

### **Assembly and Operating Manual**



Dear Customer,

Congratulations on choosing a SCHUNK product. By choosing SCHUNK, you have opted for the highest precision, top quality and best service.

**You are going to increase the process reliability of your production and achieve best machining results – to the customer's complete satisfaction.**

**SCHUNK products are inspiring.**

Our detailed assembly and operation manual will support you.

Do you have further questions? You may contact us at any time – even after purchase. You can reach us directly at the mentioned addresses in the last chapter of these instructions.

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# 1 About this manual

## 1.1 Purpose/validity

This manual is part of the module and describes the safe and proper use during all phases of operation.

This manual is valid only for the module specified on the front page.

## 1.2 Target groups

Target group	Task
Manufacturer, operator	<ul style="list-style-type: none"> <li>➔ Keep this manual available for the personnel at all times.</li> <li>➔ Require personnel to read and observe this manual and the applicable documents, especially the safety notes and warnings.</li> </ul>
Skilled personnel, fitter	<ul style="list-style-type: none"> <li>➔ Read, observe and follow this manual and the applicable documents, especially the safety notes and warnings.</li> </ul>

Tab. 1

## 1.3 Applicable documents






You can find the following documents on our homepage:

Document	Purpose
Catalog	Technical data or application parameters of the module and information on accessories. The last version is always valid.
Assembly and Operating Manuals for toolholders	Detailed information about assembly, adjustment and commissioning of the toolholder.
General terms of business	Including notes on the warranty.

Tab. 2

## 1.4 Symbols in this manual

To give you quick access to information, the following symbols will be used in this guide:

Symbol	Designation
 <b>WARNING</b>	Dangers for persons. Nonobservance can cause death or serious injuries.
	Handling instruction, also measures in a warning or note.
1. 2. 3. ...	Step-by-step handling instruction.  Observe the order.
	Component/spare part represented in a graphic.
	Part/detail shown in a graphic which is part of a spare part or which must be provided by the customer.
(10), (/10/)	Reference in the text or in a handling instruction to a part that is represented in a graphic.

Tab. 3

## **2 Basic safety notes**

### **2.1 Intended use**

The module was designed to spray off workpieces or objects. The RGG cleaning unit may only be used in combination with a toolholder.

The module is intended for installation in a machine. The requirements of the applicable guidelines must be observed and complied with.

The module may be used only in the context of its defined application parameters.

Any other use or use exceeding that specified is an infringement of use for intended purpose. For example, use of the RGG with a shrink holder is classed as improper use. The manufacturer bears no liability for damage resulting from such use.

### **2.2 Environmental and operating conditions**

➔ The module may be used only in the context of its defined application parameters (see chapter 5, page 9 and catalog).

### **2.3 Controlled production**

The module represents the state of the art and the recognized safety rules at the time of delivery. However, it can present risks if, for example:

- The module is not used in accordance with its intended purpose.
- The module is not installed or maintained properly.
- The EC Machinery Directive, the VDE directives, the safety and accident-prevention regulations valid at the usage site, or the safety and installation notes are not observed.

### **2.3.1 Protective equipment**

- ➔ Provide protective equipment per EC Machinery Directive.

### **2.3.2 Constructional changes, attachments, or modifications**

Additional drill holes, threads, or attachments that are not offered as accessories by SCHUNK may be attached only with permission of SCHUNK.

## **2.4 Personnel qualification**

The assembly, initial commissioning, maintenance, and repair of the module may be performed only by trained specialist personnel.

Every person called upon by the operator to work on the module must have read and understood the complete Assembly and Operating Manual, especially chapter 2 "Basic safety notes". This applies particularly to occasional personnel such as maintenance personnel.

## **2.5 Safety-conscious working**

- ➔ Avoid any manner of working that may interfere with the function and operational safety of the module.
- ➔ Observe the safety and accident-prevention regulations valid at the usage site.

## **2.6 Notes on particular risks**

### **Risk of injury from objects falling and being ejected**

- ➔ Provide protective equipment to prevent objects from falling or being ejected, such as processed workpieces, tools, chips, fragments, rejects.

### **3 Warranty**

The warranty is valid for 24 months from the delivery date to the production facility under the following conditions:

- Intended use in 1-shift operation
- Observation of the ambient conditions and operating conditions (see chapter 2.2, page 6)

Also observe our general terms of business.

### **4 Scope of delivery**

The scope of delivery includes:

- Cleaning Unit Type RGG.



## 5 Technical Data

Further technical data can be found in our catalog. The most recent version applies.

Type	RGG 20
<b>Mechanical operating data</b>	
Deadweight [kg]	0,1
Ambient temperature [°C]	
Min.	-10 (14°F)
Max.	+90 (194°F)
Speed n [rpm]	100
<b>Operating data for media connection</b>	
Pressure medium	Machine cooling water or compressed air
Maximum pressure [bar]	80

*Tab. 4 Technical Data*

## 6 Assembly and initial commissioning

### 6.1 Mechanical connection

**⚠ WARNING**

**Risk of injury when the machine/system moves unexpectedly**

➔ Switch off power supply.

**Note**

Do not use a shrink holder!

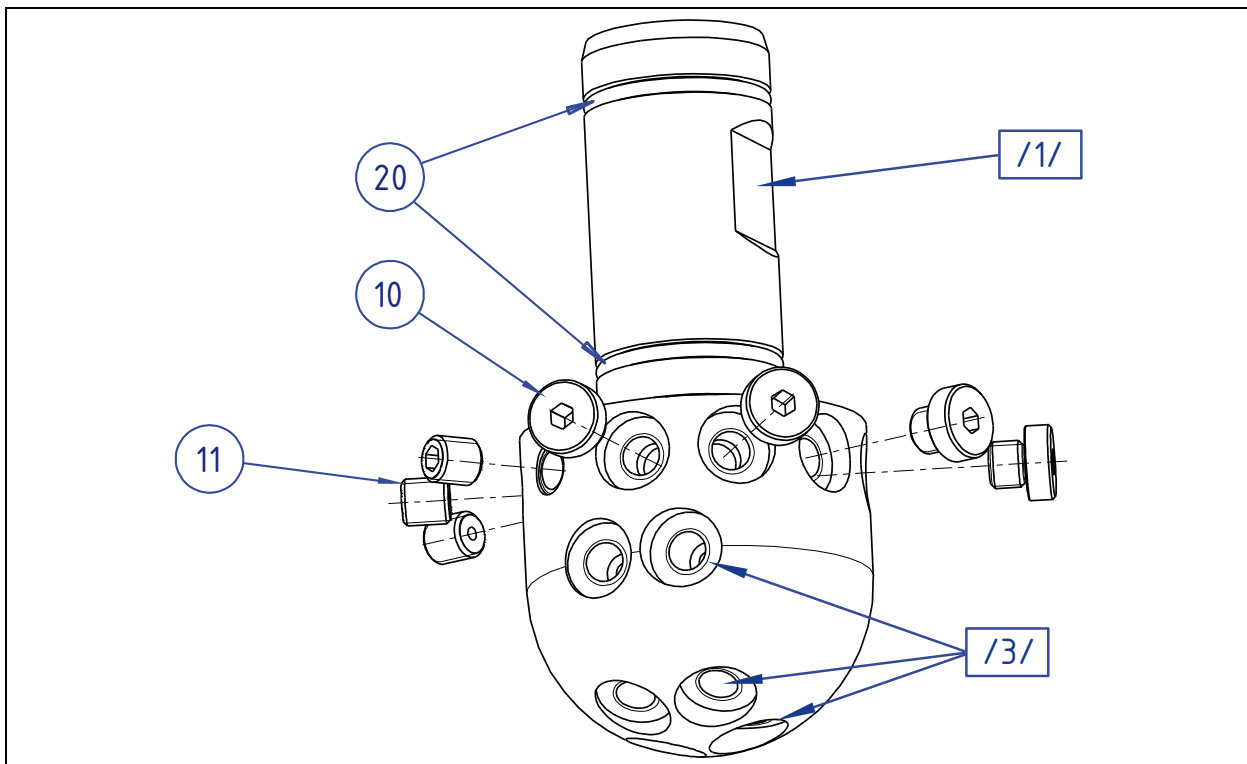


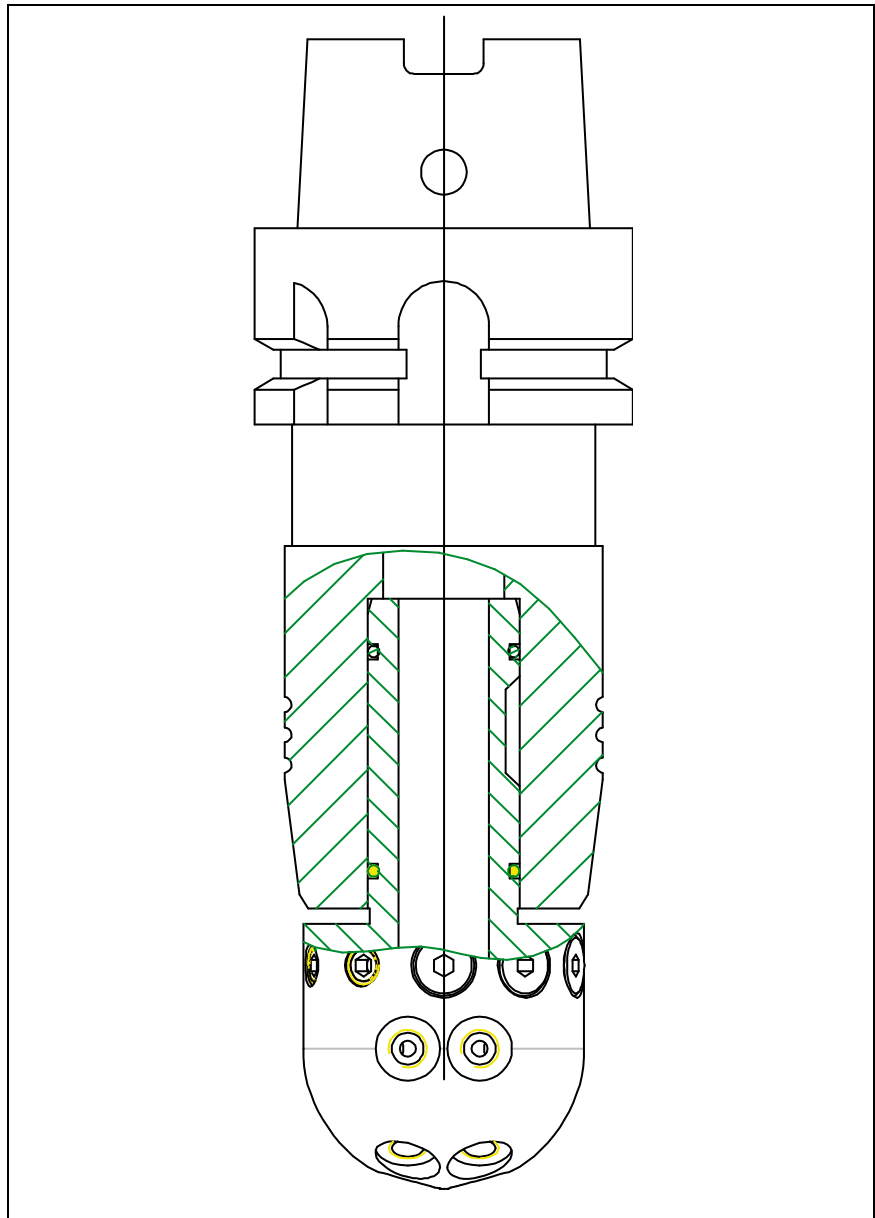
Fig. 1

1. Check whether the O-rings (20) are fitted on the shank, fit O-rings (20) if necessary.
2. Clamp the module in the toolholder with the shank or using the clamping face (/1/).
3. Make sure all nozzles not in use are tightly sealed using the locking screws (10).
4. Use the set screws (11) to reduce the jet from the nozzles (/3/).

## 6.2 Assembly example

### 6.2.1 Toolholder TENDO

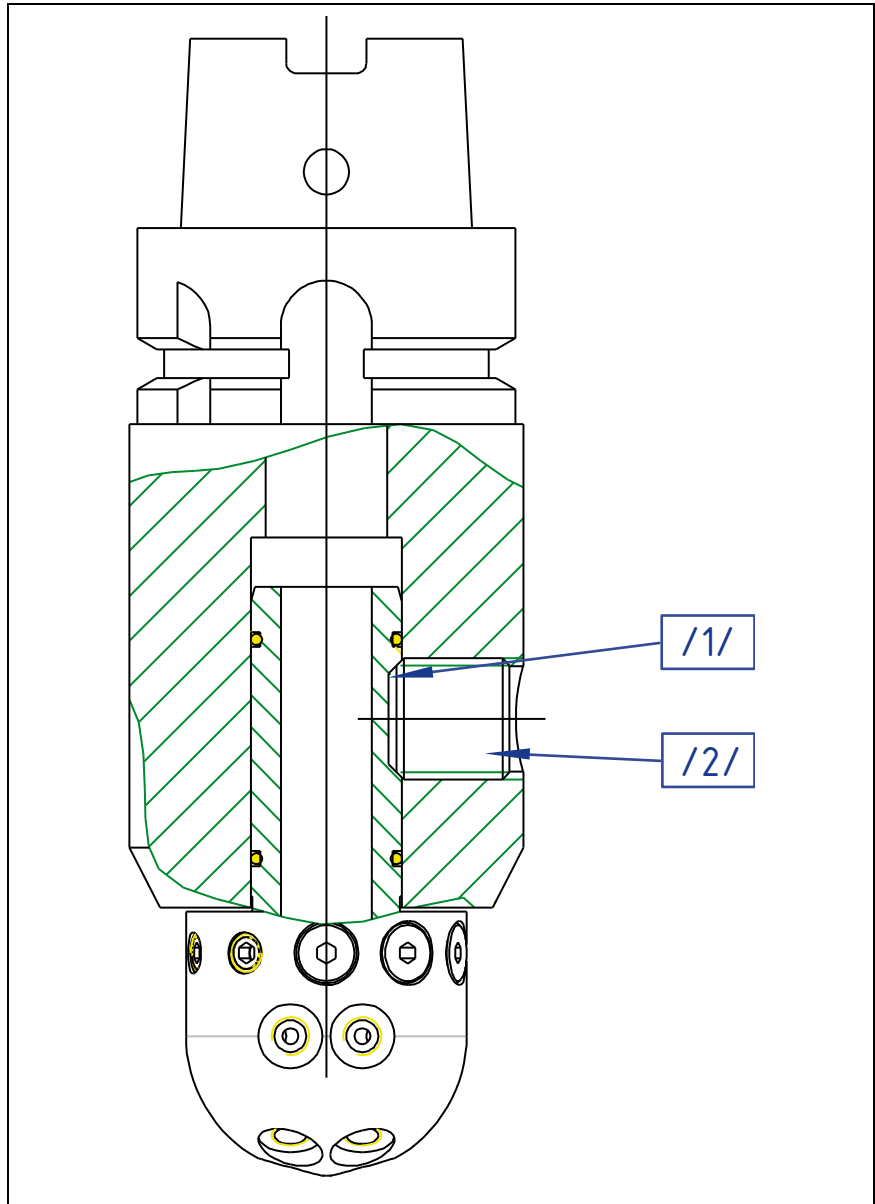
The TENDO toolholder clamps the shank of the RGG using distributed clamping.



*Fig. 2 Sectional view of the RGG clamped in the TENDO*

### 6.2.2 Toolholder WELDON

The shank of the RGG is clamped in the clamping face (/1/) using the set screw (/2/) of the WELDON toolholder.



*Fig. 3 Sectional view of the RGG clamped in the WELDON*

## 6.3 Commissioning

(Item see chapter 9 "Assembly drawing", page 15)

 <b>WARNING</b>
<b>Danger of injury from locking screws being ejected</b>
→ Fully tighten all locking screws on the nozzles which are not in use.

### Note

The set screws (11) can be used to reduce the jet from the nozzle.

→ At least two nozzles must be open.

## 7 Troubleshooting

### 7.1 Is there no air/cooling water coming out of the RGG?

Possible cause	Corrective action
All nozzles are closed.	➔ Check the nozzles. At least two nozzles must be open.

Tab. 5 Troubleshooting

## 8 Maintenance and care

The RGG is maintenance-free.

Spare parts can be replaced or exchanged if necessary.  
(see chapter 10, page 16)

## 9 Assembly drawing

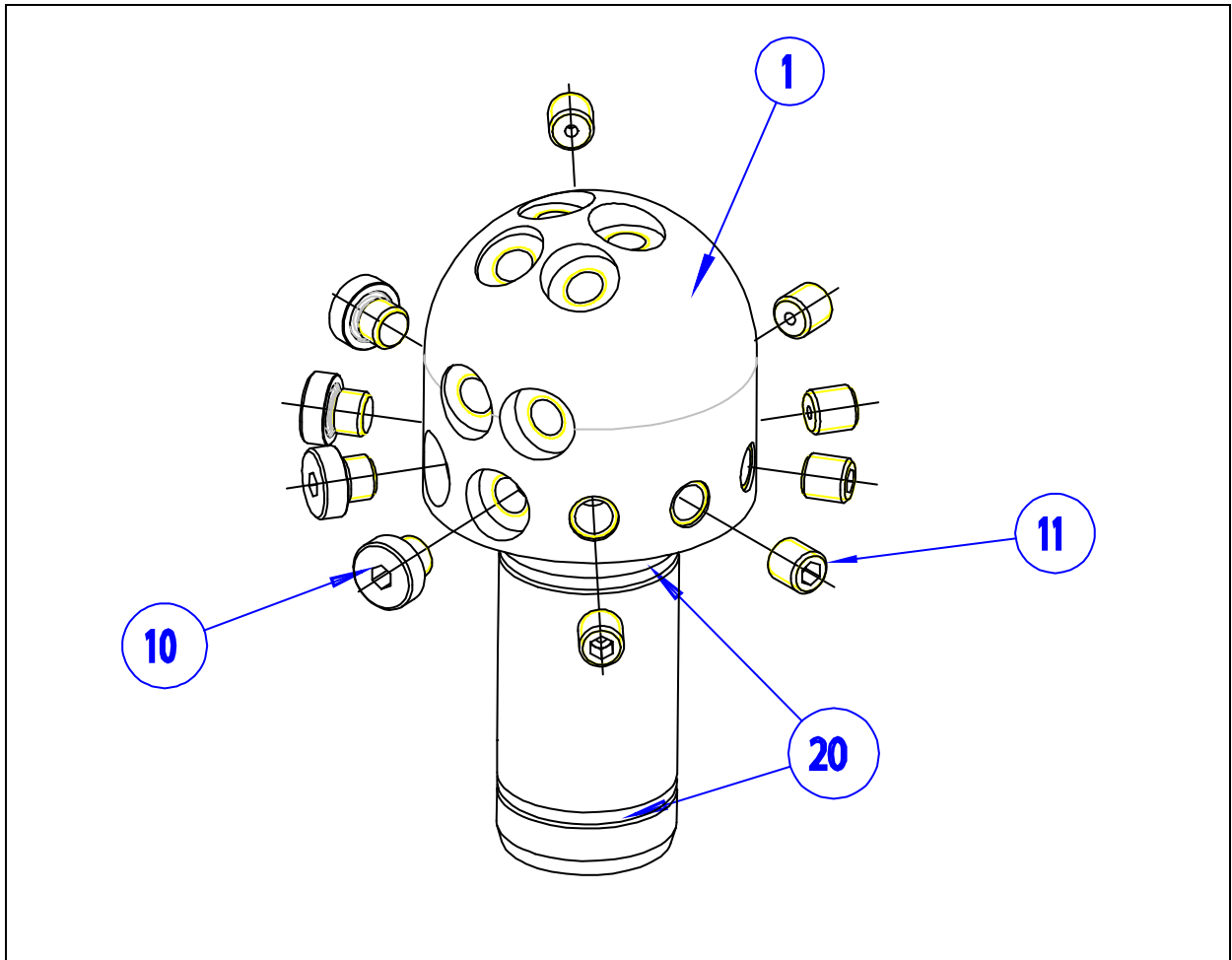


Fig. 4 Exploded view of the RGG

## 10 Spare parts

(Item see chapter 9 "Assembly drawing", page 15)

Item	ID-No.	Quantity	Designation
1	5518565	1	Housing RGG
10	9559005	4	Locking screws M5
11	9936189	6	Set screw M5 for narrowing the nozzle
20	9900286	2	O-ring 17x1,5

*Tab. 6 Spare parts*



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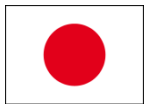
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