



The Original.

**MULTI-  
TOOTH**  
GUIDANCE

Benchmark since 2000.

**PGN-plus-P  
makes me  
superior**

Superior Clamping and Gripping



## **PGN-plus-P Superior Stories**

The world's most proven  
Gripper in Practice



Benchmark since 2000.

# The Benchmark Gripper PGN-plus-P

Compared with the universal gripper PGN-plus, the PGN-plus-P has a higher performance due to the reduced weight. However the interfering contour is the same.

**+** Gripping force of up to 21,800 N

**+** Variety in accessories  
A broad range of high quality accessory components and compatible sensor systems.

**+** Up to 50% higher gripping force  
With an enlarged drive piston surface.

**+** Up to 50% longer gripper fingers  
The perfected SCHUNK multi-tooth guidance with higher maximum moments enable longer gripper fingers to be used.

**+** Available in enclosed version for dusty environments: SD and ATEX version EX

**+** Lifelong maintenance-free\*  
The SCHUNK multi-tooth guidance with continuous lubricant pockets ensures even and permanent lubrication.

| Technical data PGN-plus-P, pneumatic |                        |                    |                                    |                                   | Options  |       |    |   |   |   |    |
|--------------------------------------|------------------------|--------------------|------------------------------------|-----------------------------------|----------|-------|----|---|---|---|----|
| Sizes                                | Stroke per finger [mm] | Gripping force [N] | Max. admissible finger length [mm] | Recommended workpiece weight [kg] | Stroke 2 | AS/IS | SD | K | P | V | EX |
| PGN-plus-P 40                        | 2.5                    | 180                | 65                                 | 0.9                               |          | ●     | ●  | ● | ● | ● | ●  |
| PGN-plus-P 50                        | 4                      | 220                | 80                                 | 1.1                               | ●        | ●     | ●  | ● | ● | ● | ●  |
| PGN-plus-P 64                        | 6                      | 350                | 100                                | 1.75                              | ●        | ●     | ●  | ● | ● | ● | ●  |
| PGN-plus-P 80                        | 8                      | 550                | 125                                | 2.75                              | ●        | ●     | ●  | ● | ● | ● | ●  |
| PGN-plus-P 100                       | 10                     | 870                | 160                                | 4.35                              | ●        | ●     | ●  | ● | ● | ● | ●  |
| PGN-plus-P 125                       | 13                     | 1400               | 200                                | 7.0                               | ●        | ●     | ●  | ● | ● | ● | ●  |
| PGN-plus-P 160                       | 16                     | 2200               | 245                                | 11.2                              | ●        | ●     | ●  | ● | ● | ● | ●  |
| PGN-plus-P 200                       | 25                     | 3800               | 310                                | 19.0                              | ●        | ●     | ●  | ● | ● | ● | ●  |
| PGN-plus-P 240                       | 30                     | 5000               | 355                                | 25.5                              | ●        | ●     | ●  | ● | ● | ● | ●  |
| PGN-plus-P 300                       | 35                     | 6600               | 350                                | 30.0                              | ●        | ●     | ●  | ● | ● | ● | ●  |
| PGN-plus-P 380                       | 45                     | 10300              | 400                                | 47.0                              | ●        | ●     | ●  | ● | ● | ● | ●  |

● = available \* Under normal, clean operating conditions

# #makesmesuperior



## Be a part of the great success story

Show us your application on social media and become a part of the story. You also want to become a part of the PGN-plus-P Community? Then please share your story/application using #makesmesuperior.

You are using a PGN-plus-P?

Just post a picture of the application with #makesmesuperior, and become a part of the great story!

# PGN-plus-P makes me superior



## The reliability of our PGN-plus-P makes me superior

Because I can rely on it 100%.



## The Premium Quality of the PGN-plus-P makes me superior

Because the gripper works so precisely.



## The comprehensive PGN-plus-P Gripper Program makes me superior

Because I can choose from 189 gripper versions.



## PGN-plus-P makes you superior

Because you can rely on the top-quality gripper PGN-plus-P being guaranteed lifelong maintenance-free.





The Reliability  
of our **PGN-plus-P**  
makes me  
superior

**"We manufacture all toolholders here at the Lauffen site, using our SCHUNK gripper PGN-plus-P. This enables us to work efficiently, and at the same time we can test our own products in everyday use."**

Tamara Laslo, Production forewoman in the field of toolholders, SCHUNK GmbH & Co. KG, Lauffen/Germany

When production forewoman Tamara Laslo arrives at her workplace in the morning at SCHUNK in Lauffen, her machining center has already worked all night, turning and milling saw blanks to form the basic shape of a toolholder.

The entire process is highly automated, like many things at SCHUNK and is performed by two industrial robots equipped with change grippers. For this purpose, the automated system is equipped with SCHUNK's own 2-finger parallel grippers PGN-plus-P, among other things. "This system works pretty much on its own for 24 hours a day here. My colleagues and I very rarely have to intervene in the process. It is particularly important for us that we can completely rely on every individual component. Of course, this also applies to the used grippers," explains Tamara Laslo, who is in charge of this department as forewoman.

## SCHUNK equipped by SCHUNK

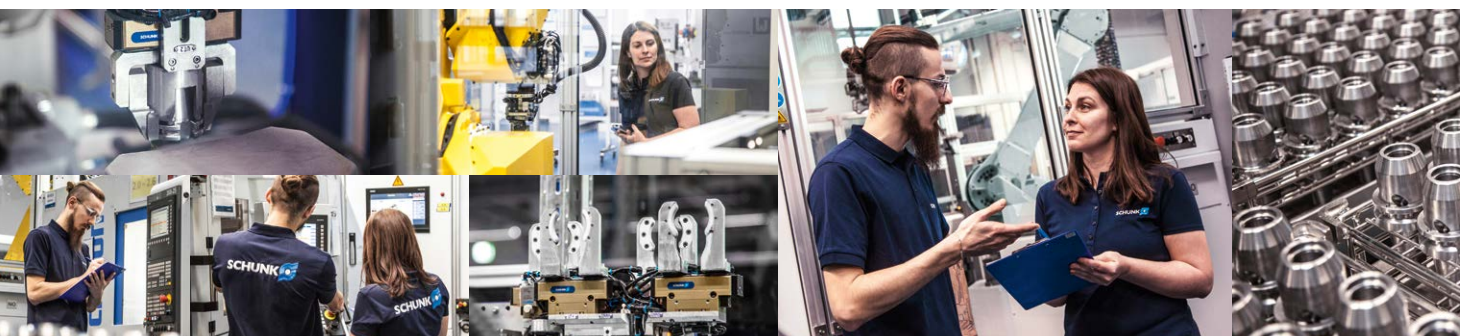
Of course, SCHUNK is consistently relying on the benchmark gripper PGN-plus-P for the production of other components. The gripper series can be trusted in harsh production applications, and can be further optimized. "I have to look at all the details in our system, but I don't have to worry

about the grippers." They have had a longer service life than the machine tool itself, Tamara Laslo smiled. She has been working with the family-owned company in Lauffen for 18 years.

Alternatively, PGN-plus-P gripper components can be equipped with sensor systems or magnetic switches, thereby expanding their range of application from standard robot applications up to automated solutions in cleanroom or explosion-endangered working areas.

## The whole is more than the sum of its parts

In addition to the patented, high-precision SCHUNK multi-tooth guidance and many other technical details, such as the unique permanent lubrication of the PGN-plus-P, the product line as a whole is superior. The comprehensive portfolio of the gripper series includes grippers for small components, universal, long-stroke, and heavy-duty grippers, but also dust-proof grippers for the safe and precise handling of workpieces in demanding environmental conditions.



# The comprehensive Gripper Program of the **PGN-plus-P** makes me superior



**"No matter which robot-supported automation solution we are planning and implementing for our customers, I always find what I need in SCHUNK's PGN-plus-P portfolio – and if the application is particularly unique, my contact person at SCHUNK helps me create a customized solution."**

Thomas Imme, Project Manager for Mechanical Production at HandlingTech Automations-Systeme GmbH, Steinenbronn

HandlingTech Automations-Systeme is located in Steinenbronn, close to Stuttgart. Since 1994, the company implements innovative robot-supported automation solutions for customers worldwide. The service offer of the Swabian specialist ranges from standard systems up to highly complex special systems.

Thomas Imme, Project Manager for Mechanical Production at HandlingTech relies on the comprehensive PGN-plus-P gripper portfolio from SCHUNK. "No matter which robot-supported automation solution we are planning and implementing, I always find what I need in SCHUNK's PGN-plus-P portfolio – and if an application is particularly unique, my contact person at SCHUNK helps me devise a customized solution," according to the expert.

## Reducing Complexity

Despite standardization, individual customer demands are always a challenge for the designers in a successful company. The complete PGN-plus-P gripper series program from SCHUNK helps to considerably reduce the complexity. "When it comes to the selection and implementation of the appropriate gripping systems, SCHUNK always completely supports us.

## It is all about Efficiency

"We have used various gripping systems in the past, but the others were not satisfactory. For some time, we have been consistently using the SCHUNK product line, and are very satisfied with it. Additionally, I am certain that I can offer the most reliable grippers to my customers," summarizes Thomas Imme.

## Nothing is impossible

Thomas Imme, the automation specialist can choose from 189 PGN-plus-P standard variants and can cover all requirements for gripping force, stroke, or workpiece dimensions. Due to the patented multi-tooth guidance, the PGN-plus-P offers a high moment torque and with the permanent lubrication, are lifelong maintenance-free. By using the vast range of sensor accessories and the numerous custom options, the range of the benchmark gripper PGN-plus-P can be significantly expanded.



Discover all the stories at  
[schunk.com/makesmesuperior](https://schunk.com/makesmesuperior)



# The Premium Quality of the PGN-plus-P makes me superior

**"Automated solutions for our bending machines is mobile and can be docked onto the press in just a few minutes. This means that our customers can achieve multiple-shift cycles, for example, without the need for additional personnel," explains Product Manager Benedikt Kreisel, stressing the advantages of the automated system."**

**Benedikt Kreisel, Product Manager/Jochen Schreiber, Application Engineer  
Bending Automation, Bystronic Maschinenbau GmbH, Gotha**

When Product Manager Benedikt Kreisel and Application Engineer Jochen Schreiber stand next to their Bystronic robot cell, used for bending automation, their eyes light up with technical amazement. At the Gotha site of the Swiss Bystronic Group, premium solutions for bending metal sheets are developed and manufactured...they are both visibly proud of it.

"Our robot cells allow automated, robot-supported bending – even of complex sheet metal geometries with great precision, and repeat accuracy,"

says Jochen Schreiber, who is also responsible for the selection of the appropriate gripper technology. For the mobile Pick & Place function of the compact bending press, he chose a SCHUNK PGN-plus-P parallel gripper. Due to its patented multi-tooth guidance with permanent multi-tooth lubrication it grips the workpieces precisely and with a high repeat accuracy, and feeds it to the press. "In this case, the quality of the end product depends crucially on the precision of the supply," says the experienced engineer.

## It is the Detail that makes the Difference

"The automated solution for our bending machines is mobile and can be docked onto the press in just a few minutes. This means that our customers can achieve multiple-shift cycles, for example, without the need for additional personnel," explains Product Manager Benedikt Kreisel, stressing the advantages of the automated system. "The SCHUNK gripper PGN-plus-P can be exchanged with a bayonet lock, which makes it quick and easy to adapt from the robot application to new workpieces, for example. The PGN-plus-P grippers are equipped with sensor systems, for mapping the whole process, and for detecting errors in fed metal sheets or in the workpiece position from the early stages, says Benedikt Kreisel.

## Premium through and through

"The name Bystronics stands for absolute premium quality in all areas without compromise. Our customers expect this from the overall solution that we provide, but also from every individual component that we implement. This is the reason that we place our trust in the premium grippers of the PGN-plus-P series from SCHUNK," Jochen Schreiber and Benedikt Kreisel agree.





# Professional gripping **PGN-plus-P** makes you superior

**"To be successful in world-class sports, you have to focus on details. This makes the difference, and connects my sport with SCHUNK products. The patented multi-tooth guidance with integrated permanent lubrication is one of the details which makes the difference when it comes to the PGN-plus-P gripper from SCHUNK."**

*J. Lehmann*

Jens Lehmann, German goalkeeper-legend, SCHUNK brand ambassador since 2012 for safe, precise gripping and holding.

When goalkeeper-legend and brand ambassador Jens Lehmann talks about special moments of his career, the key to success is his trust and confidence in his own performance.

The continuous improvements in the field of parallel gripping started in the early 70s, resulting in the introduction of the PGN-plus, and now the PGN-plus-P gripper. This is how SCHUNK defines the unique benchmark. "I believe that superiority comes from having everything under control and the ability to quickly find a solution for every problem," says Jens Lehmann in an interview. "In my opinion this attribute perfectly aligns with SCHUNK products."

## It is the Detail that makes the Difference

"To be successful in top sports, you need to focus on the details, because they make the difference. This idea connects my sport with SCHUNK products," says Jens Lehmann. The patented multi-tooth guidance with integrated permanent lubrication is one of the details that makes the difference in the SCHUNK PGN-plus-P gripper. The design allows for precise guidance, without the loss of gripping force or precision, and also allows longer gripper fingers to be used. It is precisely the knowledge about these kind of details of the components that leads to a complete confidence in the solution as a whole.

## The Team is the Key to Success

The product portfolio from SCHUNK can be thought of as a perfectly harmonized team, where every component has its own ability and possibility. Due to the comprehensive product portfolio, a solution for any application and requirement can be found in our standard gripper program. "I am happy to be a part of the team here at SCHUNK, and I contribute my part in making the products and solutions more popular. I also enjoy the atmosphere and camaraderie that I experience at SCHUNK."

## Unlimited Flexibility

The SCHUNK gripper PGN-plus-P has the benefit of being diverse and flexible. Choose from the wide range of high-quality accessory components for your individual application. Combine various options without making any compromises. Or select custom versions, for your unique and special application.



Adapter plate



Protective cover



Compensation unit



Change system CWS



Jaw quick-change system



Finger blanks



Pressure maintenance valve



Universal intermediate jaw



Dustproof retrofit kit



Add-on valve



Magnetic switch



Inductive proximity switch



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