TANDEM PGS3

Perfection and reliabilty for simple, automated machine loading

Gripping Systems

Clamping Technology

Chuck Jaws

Lathe Chucks

Stationary Workholding

Toolholders

Hydraulic Expansion Technology

VERO-S

TANDEM

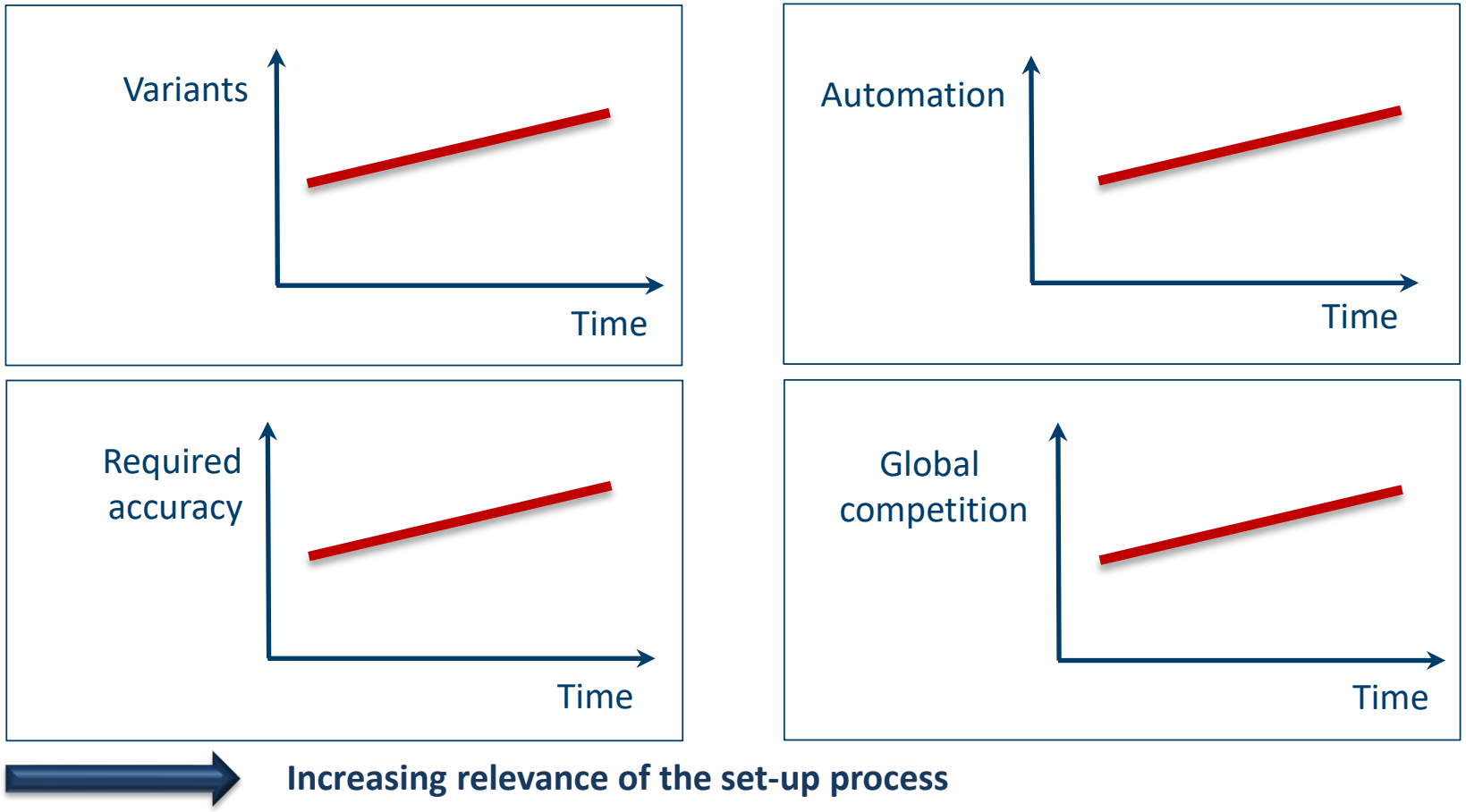
ROTA

KONTEC

Tombstones

MAGNOS

TANDEM 3
Challenges



Increasing relevance of the set-up process

TANDEM PGS3

Advantages – Your benefits

- Integrated console plate
- Ready for immediate use
- Base body made of light aluminium
- Low height
- Optimized outside contour
- Cubic design
- High efficiency of the wedge hook system
- Precision wedge hook clamping force block for top-quality demands
- Optimal jaw support due to the use of a very long base jaw guidance

TANDEM 3 Lead Vises

Way above 300 standard versions

Standard stroke

Pneumatic PGS3

PGS3		
Size	100	140
Jaw stroke (mm)	2	3
Number of versions	1	1

Long stroke

Pneumatic PGS3-LH

PGS3-LH		
Size	100	140
Jaw stroke (mm)	6	7
Number of versions	1	1

The TANDEM PGS3 clamping force block

A strong combination partner for light machining and simple automation tasks.

TANDEM 3

Variants

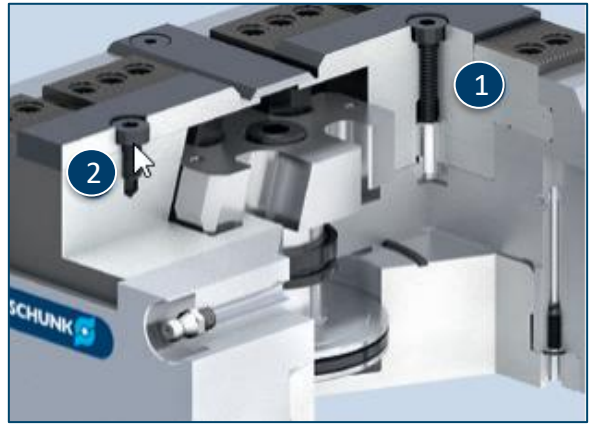
Standard stroke

For the standard stroke, a high force transmission is achieved via a small wedge angle.

Advantage: High clamping forces.

Long stroke (-LH)

For a long stroke, a larger jaw stroke is achieved via an increased wedge angle. Due to the enlarged angle, however, the LH version achieves a lower clamping force than the standard stroke version.
Advantage: Longer jaw stroke.



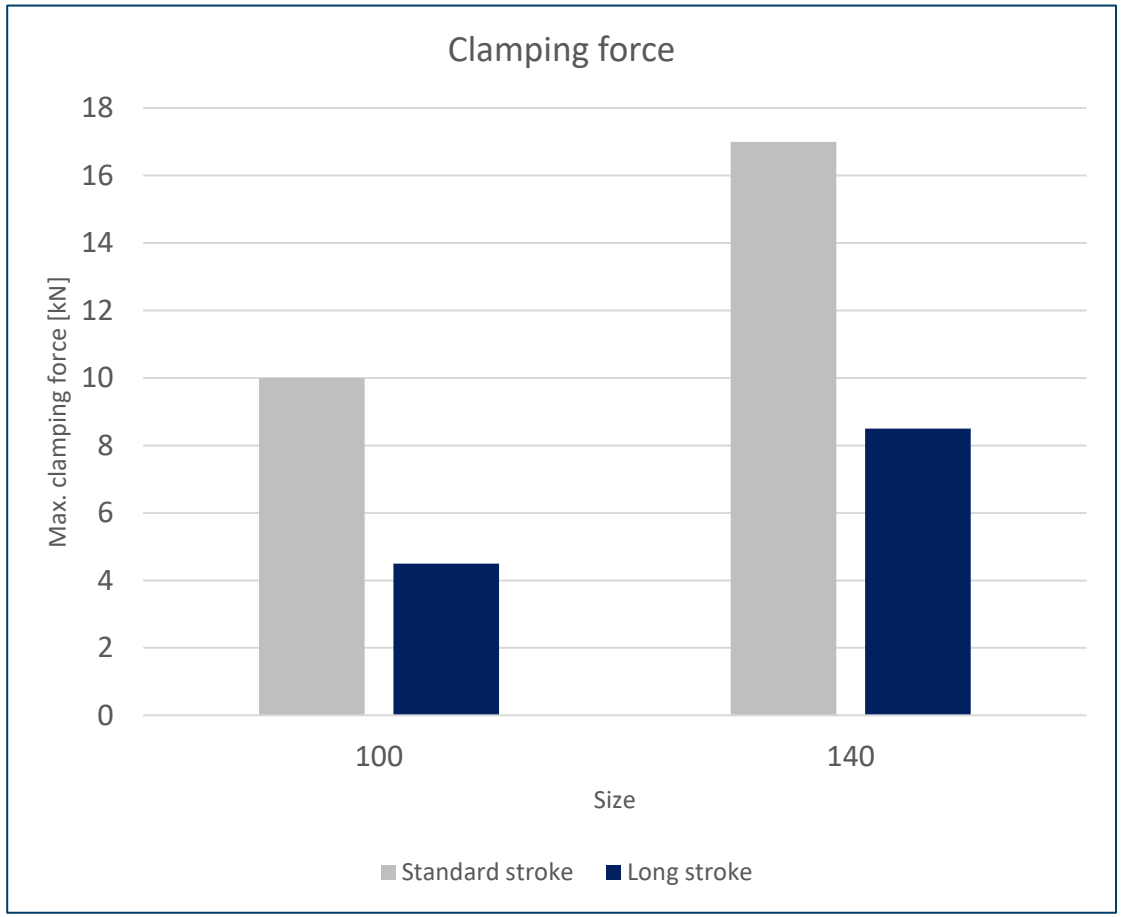
With fixed jaw (-F)

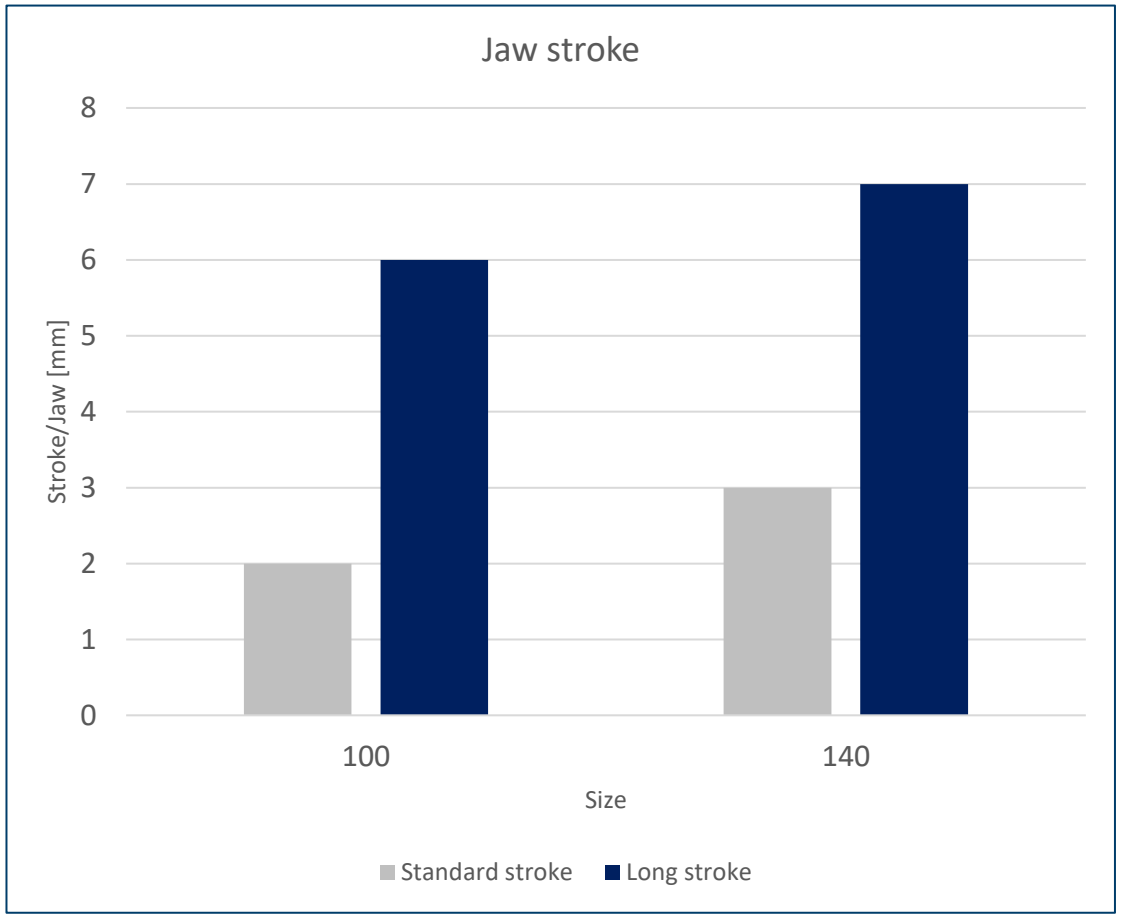
One chuck jaw is screwed immovably to the body. The force transmission takes place via the movable jaw.

1. Fixed clamping jaw
2. Movable clamping jaws

TANDEM PGS3

Clamping force and jaw stroke





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Functional diagram

1. Wedge hook drive
2. Integrated console plate
3. Long jaw guidance
4. Compact design
5. Improved design which is insensitive to dirt
6. Jaw interface with tongue and groove
7. Simple lateral control of the clamping force block
8. Piston guided in the body

TANDEM PGS3

Highlights

Pneumatic drive

Clamping and loosening is performed via a double-acting pneumatic cylinder with permanent pressure.

Standard stroke

For the standard stroke, a high force transmission is achieved via a small wedge angle.

Benefit: The PGS3 has high clamping forces.

Long stroke

For a long stroke, a larger jaw stroke is achieved via an increased wedge angle. Due to the enlarged angle, however, the LH-version achieves a lower clamping force than the standard stroke version.

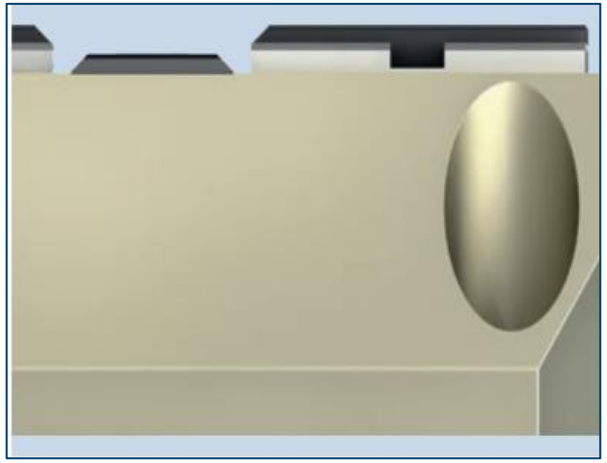
Advantage: Longer jaw stroke.

TANDEM PGS3

Highlights

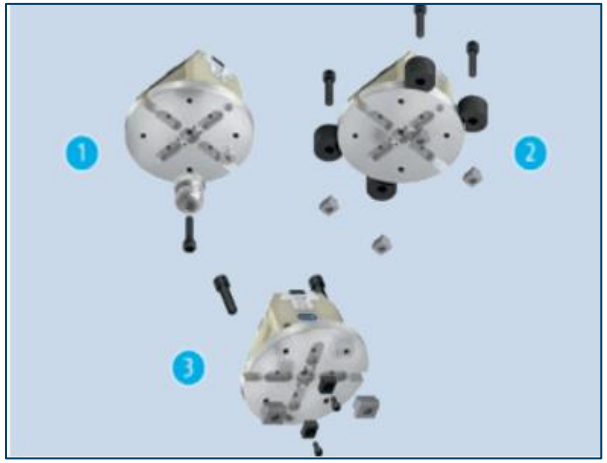
Easy commissioning

Quickly and easy commissioning. Due to the integrated console plate, the clamping force block can be mounted directly on the machine table or quick-change pallet system. The lateral air connections allow the vise to be controlled directly with a 5/3-way valve.



Chip-repellent design

The special design of the base jaw and cover strip prevents chips becoming permanently lodged. During the clamping process, the chips are pushed from the base jaw by the incline of the cover strip.



Mounting options

The clamping force block can be used for minimizing the set-up time. It can be placed on the VERO-S NSE3 with anti-twist protection using the existing VERO-S interface.

1. Fastening via quick-change pallet system
2. Fastening via cylindrical clamps
3. Mounting via T-nuts

TANDEM PGS3

Documents

Catalog chapter

PGS3

Pneumatische Kraftspannblöcke | *Pneumatic clamping force blocks*

TANDEM

PGS3

Perfektion und Zuverlässigkeit für die einfache, automatisierte Maschinenbeladung

TANDEM PGS3 ist der neue kompakte pneumatische Kraftspannblock für die automatisierte Zerspanung von kleinen Bauteilen. Trotz seiner kleinen Größe punktet das wartungsarme Kraftpaket mit großem Backenhub, beachtlicher Spannkraft und hoher Wiederholgenauigkeit für präzises und effizientes Spannen.

Der Kraftspannblock bietet mehrere Möglichkeiten der Befestigung auf dem Maschinentisch – ohne zusätzliche Konsolplatte. Über den integrierten Flansch kann der TANDEM PGS3 unmittelbar auf Maschinentischen, Teilapparaten oder SCHUNK VERO-S NSL3 150 Spannstationen von Bearbeitungszentren montiert werden. Die äußerst kompakte Bauweise sorgt für eine größtmögliche Nutzung des Arbeitsraums.

PGS3

Perfection and reliability for simple, automated machine loading

TANDEM PGS3 is the new compact pneumatic clamping force block for automated metal cutting of small components. When it comes to precise and efficient clamping, the low-maintenance powerhouse scores despite its small size with a long jaw stroke, a remarkable clamping force and high repeat accuracy.

The clamping force block offers multiple possibilities for mounting on the machine table – without needing an additional console plate. The TANDEM PGS3 can be directly mounted via the integrated flange on machine tables, dividing heads or SCHUNK VERO-S NSL3 150 clamping stations of machining centers. Its compact design ensures the greatest possible use of the working space.

TANDEM

PGS3

Pneumatische Kraftspannblöcke | *Pneumatic clamping force blocks*

Vorteile – Ihr Nutzen

Integrierte Konsolplatte
Direkte Montage auf T-Nutentischen sowie VERO-S Spannmodulen mit Verdrehsicherung

Direkt einsatzbereit
Durch seitliche Luftanschlüsse am Kraftspannblock

Grundkörper aus leichtem Aluminium
Dadurch absolut kombinationsstark in der leichten Bearbeitung und der einfachen Automatisierung

Geringe Bauhöhe
Maximale Nutzung des Maschinenraumes und maximale Systemsteifigkeit

Optimierte Außenkontur
Für beste seitliche Zugänglichkeit und optimalen Spänefall

Quadratische Bauform
Ideal für 6-Seitenbearbeitung in zwei Aufspannungen auf 4-Achs-Maschinen

Hoher Wirkungsgrad des Keilhakensystems
Prozesssicheres Spannen durch hohe Spannkräfte

Präzisions-Keilhaken-Kraftspannblock für höchste Qualitätsansprüche
Ermöglicht exzellente Bearbeitungsergebnisse

Optimale Backenabstützung durch sehr lange Grundbackenführung
Ermöglicht höchste Spannkräfte bei langer Lebensdauer

Advantages – Your benefits

Integrated console plate
Direct mounting on T-slot tables as well as VERO-S clamping modules with anti-twist protection

Ready for immediate use
Due to lateral air connections on the clamping force block

Base body made of light aluminum
Highly combinable with easy machining and simple automation

Low height
Maximum use of the machine room and maximum rigidity of the system

Optimized outside contour
For best side access and optimal chip falling

Cubic design
Ideal for 6-sided machining with 2 set-ups on 4-axis machines

High efficiency of the wedge hook system
Process-reliable clamping due to high clamping forces

Precision wedge hook clamping force block for top-quality demands
Allows excellent machining processes

Optimal jaw support due to the use of a very long base jaw guidance
Allows high clamping forces at a long service life

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PGS3

Plug & Work

Description

Pneumatically operated 2-jaw clamping force block with VERO-S interface for automated metal cutting of small components. These are available with standard jaw stroke and long stroke.

Advantages – Your benefits

Integrated console plate
Direct mounting on machine tables, dividing heads, as well as VERO-S clamping modules with anti-twist protection
Ready for immediate use
Due to lateral air connections on the clamping force block
Base body made of light aluminum
Highly combinable with easy machining and simple automation
Low height
Maximum use of the machine room and maximum rigidity of the system
Optimized outside contour
For best side access and optimal chip falling
Cubic design
Ideal for 6-sided machining with 2 set-ups on 4-axis machines
High efficiency of the wedge hook system
Process-reliable clamping due to high clamping forces
Precision wedge hook clamping force block for top-quality demands
Allows excellent machining processes
Optimal jaw support due to the use of a very long base jaw guidance
Allows high clamping forces at a long service life

Options and special information

Perfection and reliability for simple, automated machine loading
TANDEM PGS3 is the new compact pneumatic clamping force block for automated metal cutting of small components. When it comes to precise and efficient clamping, the low-maintenance powerhouse scores despite its small

TANDEM PGS3 top jaws

TANDEM PGS3 Jaws

Top jaw blanks
Mounting: Via tongue and groove
KTR/KTR-H


KTR/KTR-H				
Description	ID	Length [mm]	Width [mm]	Height [mm]
KTR 100	0402121	47	55	25
KTR 140	1349707	65	70	35
KTR-H 100	1349708	47	55	48
KTR-H 140	0402222	65	70	70

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