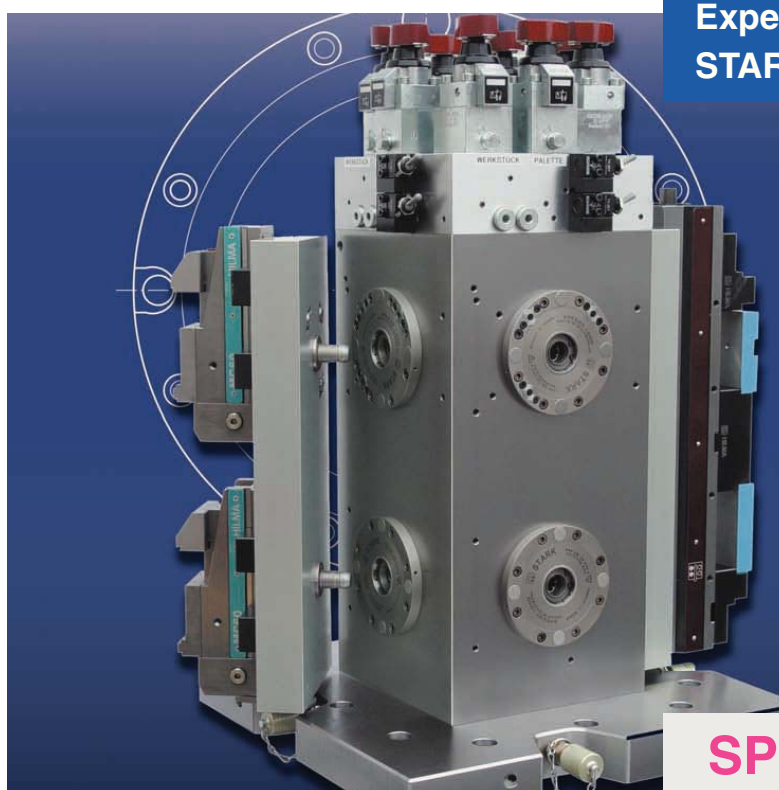


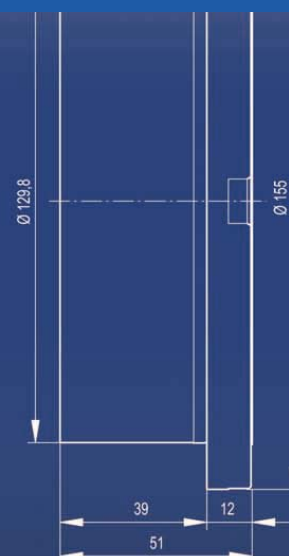


## STARK

...because zero point mounting has an origin!



Experience, competence and quality  
STARK mounting systems



### SPEEDY

zero point mounting system

WM-020-207 / 06.09.2007

Products | for | productivity



## Visions for a progressive zero point mounting technology

The demand for more variations and smaller batch sizes are an increasing challenge in the process of manufacturing.

At the core of these considerations is the economical aspect in manufacturing specific parts or a family of parts. Therefore, mounting system technology is also challenged with finding new, ever more efficient means in manufacturing.

Saving manufacturing costs is increasingly only possible today by more effective setting-up processes for the machines and by reducing processing times. The application of intelligent mounting systems mainly increases the productive operating times of machines.

With our **SPEEDY** zero point mounting systems for flexible manufacturing and automation, we offer a wide range of solutions for the reduction of setting up costs and also for increased machine operating times. Whether for standard or customized products, STARK will always provide innovative answers.

We have been producing intelligent zero point mounting systems for decades. Which makes us your most competent partner for zero point mounting technology. Stark offers first class solutions and personal consultations.

Contact us if you want to reduce your parts manufacturing costs with modern mounting technology. Our consultants in cooperation with our R & D department will find the ideal solution for you.

Your STARK team

## STARK - zero point mounting systems for the most in customer benefits

<p>■ <b>SPEEDY metec</b></p> <p>Solid, mechanically zero point mounting system</p> 	<p>■ <b>SPEEDY classic</b></p> <p>Our most complete and versatile system</p> 	<p>■ <b>SPEEDY airtec</b></p> <p>The pneumatic system in 3 sizes</p> 	<p>■ <b>SPEEDY hydratec</b></p> <p>The small, compact hydraulic system</p> 
			
			

### We deliver complete solutions

- Whether mechanical, pneumatic or hydraulic, we are dedicated to meet your needs and will offer you the best zero point mounting system.
- Benefit from our years of experience and let our specialists advise you.

### Excellent quality

- The precision of our products remains high - even after many years.
- Wear resistant and long service life due to high quality materials.
- Stringent quality management assures continuous high quality.

### Individual services

- Technical advisory services and supervision at your or our location.
- Modern in-house manufacturing with a high degree of flexibility.
- Special solutions are worked out reliably and competently by our experienced system designers.

## **SPEEDY metec** – solid, economical and easy-to-use

### Automation is not always the answer!

**SPEEDY metec** is a solid, mechanical zero point mounting system that enables an easy-to-use and economical zero point mounting system solution.

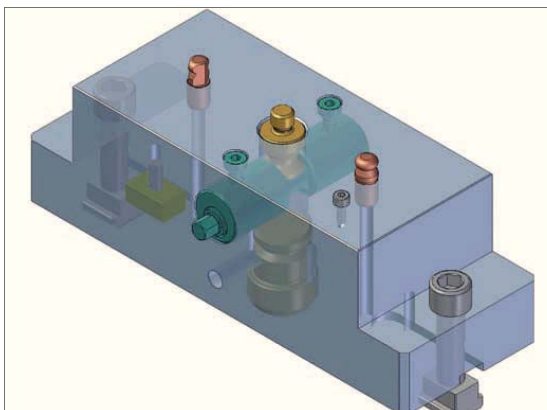
- with ~2 rotations, the workpiece firmly mounted
- Workpieces are mounted with vises or other chucks
- Direct mounting of workpieces
- Direct mounting onto your own holders such as brackets, cubes or plates



**SPEEDY metec** - clamps and releases mechanically

Reduce setting up times and be flexible with the **SPEEDY metec**

- High clamping forces and a robust system
- Two sizes available with clamping forces of 12 kN or 20 kN
- Easy-to-handle
- No additional media required (compressed air, hydraulic fluids).
- High flexibility due to various clamping bolts
- Economical



**HILMA** Quintus fast clamping block with **SPEEDY metec**



Machine vise with **SPEEDY metec**, with a clamping force of 20 kN per mounting position, ideal for processing 5-sides



## **SPEEDY** classic –

**Always provides the best solution, whether for manual, semi or full automatic palletizing of mounting jigs**

### **Versatile and proven**

**SPEEDY** classic - decades have proven the wide range of applicability of this zero point mounting system.

**SPEEDY** classic is the most complete and versatile zero point mounting system of the STARK family of systems, available in 4 sizes with draw in forces from 5,3 to 30 kN.

- Best suited for batch, small and large series production.
- Small and large parts production
- Compact height, variable gauges
- High repeating accuracy.
- Robust
- 5-side processing possible with direct mounting of the workpiece
- Integrated blow off and coolant drain (optional)
- With mounting, clamping and position check (optional)
- Integrated coupling body for compressed air and hydraulic fluid (optional)
- Systems are impervious to dirt with central locking (optional)

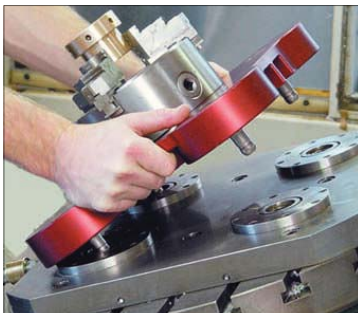


**SPEEDY** classic - clamps mechanically and releases hydraulically

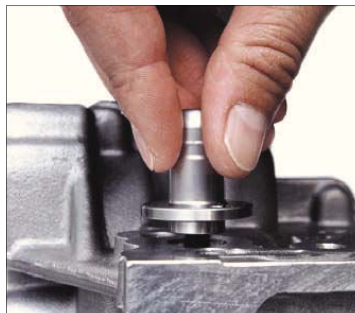
Draw in- positioning - clamping - releasing- retraction, all these functions are integrated in a single element.

The draw in nipples are held in place by springs. This eliminates vibrations and the quality of the processed surface and the life of the tools are significantly increased.

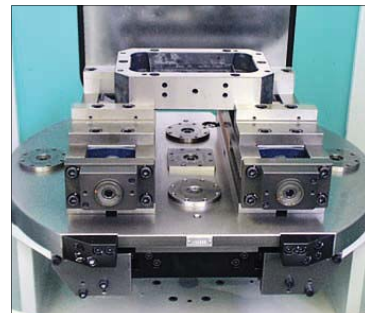
- Based on the special shape of the nipples, no damage can be done to the fittings during retraction. Twist free draw in and slanted insertion or removal of the workpiece or jig is possible at any time.
- Insertion into and retraction from the fittings are done automatically.
- **SPEEDY** classic is also best suited for full automatic solutions - please ask for our Special Catalogue.



Manual insertion of a mounting jig with 4 **SPEEDY** classics with a draw in force of 10 kN each



Direct mounting of workpieces - the clamping nipples are mounted directly into the workpiece to be processed



Customized quick clamping pallets with square **SPEEDY** classic to mount single workpieces

## **SPEEDY airtec** – the pneumatic quick clamping device for selected applications



**SPEEDY airtec** - locks mechanically, releases pneumatically

**SPEEDY airtec** is a pneumatic quick clamping device, actuated via compressed air connection with < 6 bar, without pressure converter or ancillary equipment.

Three compact sizes enable even tighter gauges with a holding force of 20 kN.

- Easy actuation via compressed air connection
- High holding forces and optimized power flow
- Process repeatability - holds even after pressure drops off
- Application in all milling operation and in the food and pharma industries (oil free)
- Optional locking piston with index bores
- Modular structure

### Wide range of applications

The **SPEEDY airtec** is well suited for all areas of application that require oil-free mounting systems, e.g. in food processing and for processes under special hygienic conditions.

All **SPEEDY airtec** quick clamping devices operate with only one mounting nipple, suitable for all sizes.

**SPEEDY airtec** is also available in 4 variations. Besides the standard version with support ring, a version with central locking can be selected. Index bores for the locking pistons and mounts with integrated blow off extend the area of application.



**SPEEDY airtec**, size Ø 80 mm



**SPEEDY airtec**, size Ø 105 mm



**SPEEDY airtec**, size Ø 155 mm, with central locking, mounts and index bores

## **SPEEDY hydratec** – hydraulic double action for quicker and safer mounting solutions



**SPEEDY hydratec** - locks and releases hydraulically

With the **SPEEDY hydratec** STARK has developed a compact, hydraulic double action clamping element.

Due to the extremely short clamping cycles, the **SPEEDY hydratec** is well suited for automated applications with short cycle times.

- Extremely quick clamping and releasing
- Small, compact size makes tight gauges possible.
- Adjustable draw in force up to 20 kN
- Long service life
- Integrated mounting and clamping checks (optional)
- extremely compatible to shavings

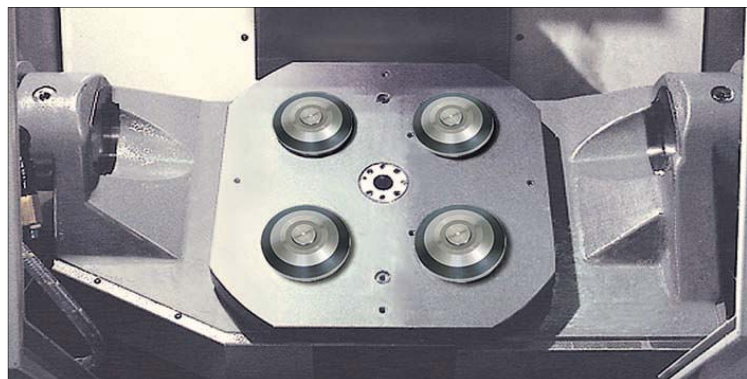
### Optimal space utilization with two sizes

Two different sizes with the same draw in force of 20 kN permit optimal space utilization. Naturally, the **SPEEDY hydratec** is compatible with all common coupling systems. This enables a safe palletizing of hydraulically mounted workpieces.

The central locking system and the conical shape make the **SPEEDY hydratec** impervious to dirt and well suited for full automatic processes.



**SPEEDY hydratec** - 20 kN draw in force at 140 bar



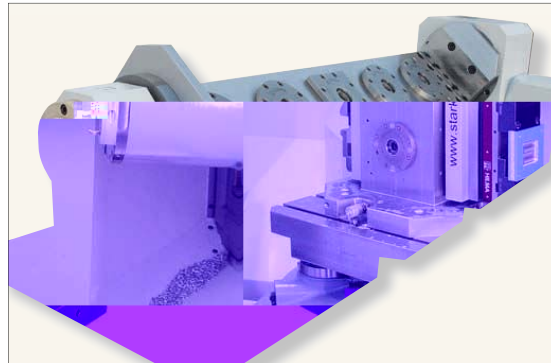
For assembly directly on the machine table

## Solutions

from single parts to complex systems...



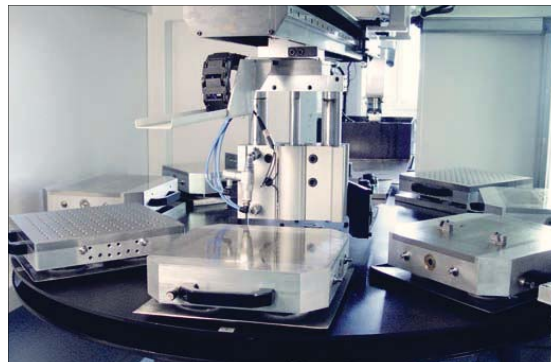
Clamping tower loaded with **SPEEDY** classic and couplings with blow off and integrated surface control systems



Variable, removable clamping bridge for batch, large and small parts



Clamping tower loaded with **SPEEDY** classic round and square



Pallette changer SPW - for automation, can be added to any CNC machining center

### Do you need to mount workpieces?

Do you want to minimize your setup time and more flexibility?

Trust in decades of experience and thousands of content **STARK** customers.

All rights reserved for changes



**STARK**

zero point mounting systems

Products | for | productivity