Information



Amortization through reduced set-up time

Reference sample based on a vertical machine. Set-up time is taken as machine downtime. Applies to 5 tool-up procedures per work shift.

Manually tooling up a module:

5 times approx. 20 minutes = 100 minutes

Tooling up with Stark's Zero Point Mounting System:

Mean value by experience = 4 minutes 5 times 4 minutes = <u>20 minutes</u>

Time savings with Stark's Zero Point Mounting System:

100 minutes - 20 minutes = <u>80 minutes</u>

Time savings per shift = <u>80 minutes</u> **Time savings** assuming 200 work days per annum = <u>266 hours</u>

Convince yourself: make your own calculations or consult our experts.

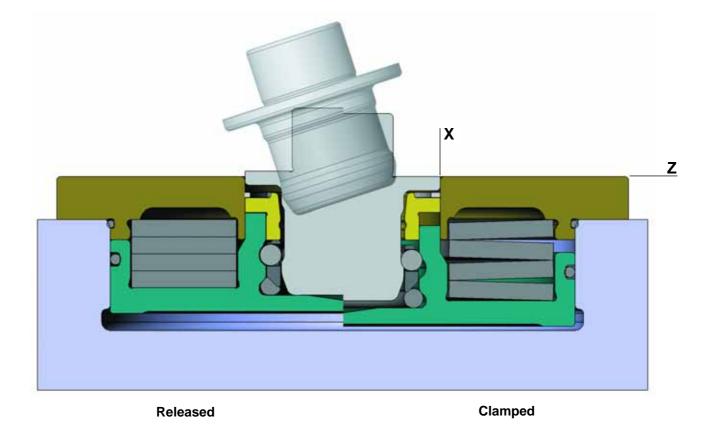


Mounting towers with SPEEDY 1000 and SPEEDY 1000 assembly with pipe system.

Advantages of the system at a glance



4



- The clamping bolt is retracted from the fitting hole. This prevents damage to the fitting hole diameter "X" and to the bearing face "Z".
- No over determination of the support surface / positioning.
- Permanent hold on the insertion nipples (non-locking). This eliminates vibrations, increases the quality of the processed surface and the idle time of the cutting tool.
- Integrated blow-off and coolant outflow.
 Dedicated support and positioning surface.
- Slanted lift off, system size 20kN Tilt-proof workpiece / pallet change
- Various checks made by the Mounting system 1000
 - Support check
 - Clamping check
 - Positioning check

Additional checks upon request.

Advantages of the system at a glance



■ Media ducts – small sized variable designs



Media ducts NW 4



Media duct, integrated in the SPEEDY assembly variant, 4-fold



Assembly example with media duct NW 4

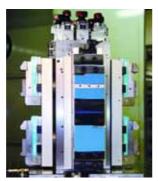


Sweeper 2000
Multi coupling
Coupling plate can be
activated under load

■ "Third Hand" function – easy mounting for vertical clamping positions



Click the palette on



Release the palette



Clamp

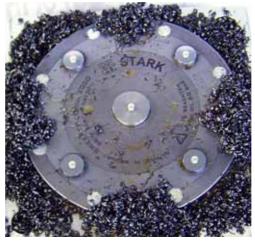


Process the workpiece

The "Third hand" function secures the palette against falling off during clamping and also while releasing the fast closing clamp. The palette locks into place effortlessly and is then clamped/released by the pressure booster activated by a foot pedal.

■ The Sweeper in automatic processes – solves the problem of swarf





An effective and reliable blow-off system for the supporting and positioning surfaces. Also blows off wet swarf in practical, daily operations.

Technical Data



For mounting data sheets see www.stark-inc.com

	SPEEDY 1000 round	SPEEDY 1000 square	SPEEDY 1000 round, with strong insertion springs	SPEEDY 1000 square with strong insertion springs	SPEEDY Twister 1000 round	SPEEDY Compact 1000 (ø68)
INSERTION FORCE	6722 N	6722 N	10000 N	10000 N	6722 N	5300 N
CLAMPING CYCLES * **	100000	100000	20000	20000	> 100000	15000
EXTRACTION FORCE	>10000 N	>10000 N	10000 N	10000 N	10000 N	10000 N
SIDE FORCES max.permitted	7000 N	7000 N	7000 N	7000 N	7000 N	7000 N
PULL OUT TORQUE *	250 Nm	250 Nm	350 Nm	350 Nm	250 Nm	
TWISTING TORQUE *		300 Nm		300 Nm		
OPERATING PRESSURE	40 bar	40 bar	80 bar	80 bar	40 bar	180 bar
max. OPERATING PRESSURE	80 bar	80 bar	80 bar	80 bar	80 bar	180 bar
OIL VOLUME	20 cm ³	20 cm ³	20 cm ³	20 cm ³	21 cm ³	7 cm ³
WEIGHT	~ 3 kg	~ 3 kg	~ 3 kg	~ 3 kg	~ 3 kg	1.5 kg
OPERATING TEMPERATURE	10°C to	90° C	10°C to	o 80° C	10°C to	
CLAMPING TIME	~ 2		~ 2		~ 2	
RELEASE TIME	~ 2		~ 2		~ 2	
PREPOSITIONING		mm		mm	±3 mm	±2 mm
REPEATED ACCURACY	< 0	,01	< 0	,01	< 0	,01

^{*} other specifications upon request

Mounting tower with SPEEDY 1000 and Flow-power



Clamping palettes with media ducts NW 4, for the mounting of workpieces



^{**} when a certain amount of clamping cycles is reached, the plate spring must be changed

Technical Data



For mounting data sheets see www.stark-inc.com

SPEEDY 2000 round	SPEEDY 2000 square	SPEEDY Twister 2000 round	SPEEDY 3000 round	SPEEDY 3000 square
20000 N	20000 N	20000 N	30000 N	30000 N
40000	40000	40000	40000	40000
10000 N	10000 N	10000 N	15000 N	15000 N
9000 N	9000 N	9000 N	10500 N	10500 N

INSERTION FORCE
CLAMPING CYCLES* **
EXTRACTION FORCE
SIDE FORCES max.permitted
PULL OUT TORQUE *
TWISTING TORQUE *
OPERATING PRESSURE
max. OPERATING PRESSURE
OIL VOLUME
OIL VOLUME WEIGHT
· · · · · · · · · · · · ·
WEIGHT
WEIGHT OPERATING TEMPERATURE
WEIGHT OPERATING TEMPERATURE CLAMPING TIME
WEIGHT OPERATING TEMPERATURE CLAMPING TIME RELEASE TIME

20000 N		
40000		
10000 N		
9000 N		
1000 Nm		
800 Nm		
40 bar		
40 bar		
38 cm³		
~ 5 kg		
o 80°C		
~ 2 sec.		
~ 2 sec.		
000.		
mm		

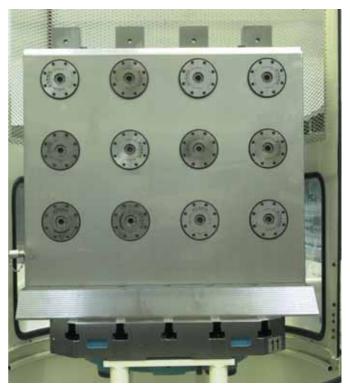
20000 N	300
40000	40
10000 N	150
9000 N	105
1000 Nm	200
40 bar	30
40 bar	30
38 cm³	124
~ 5 kg	13
10°C to 80°C	
~ 2 sec.	
~ 2 sec.	
±2.5 mm	
< 0,01	

	40000	40000
	15000 N	15000 N
	10500 N	10500 N
	2000 Nm	2000 Nm
		2000 Nm
	30 bar	30 bar
- 1	00.1	
	30 bar	30 bar
	30 bar 124 cm ³	30 bar 124 cm ³
	124 cm ³ 13 kg	124 cm ³
	124 cm ³ 13 kg	124 cm³ 13 kg o 80°C
	124 cm ³ 13 kg 10°C t	124 cm ³ 13 kg o 80°C sec.

< 0,01

Set SPEEDY Record 1000 with cover





01/2007

^{*} other specifications upon request

^{**} when a certain amount of clamping cycles is reached, the plate spring must be changed