

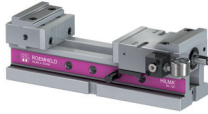
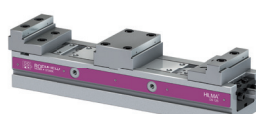
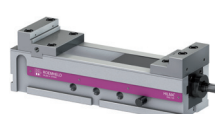
HILMA




Workholding systems

Solutions for your modern production
Program overview

PROGRAM OVERVIEW

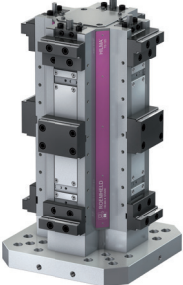

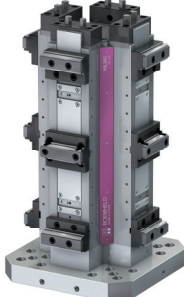

Workholding systems / machine vice systems

	Machine vice systems for vertical machining (3-axis)		
Series	HILMA.NC	HILMA.DS	HILMA.KNC
			
Jaw widths (max. clamping force)	100 mm (25 kN) 125 mm (40 kN) 160 mm (50 kN)	100 mm (25 kN) 125 mm (40 kN)	100 mm (25 kN) 125 mm (40 kN) 160 mm (50 kN)
Operation			
mechanical	–	mechanical	–
with hydraulic force transmission	with hydraulic force transmission	–	with hydraulic force transmission
hydraulic	single acting	single acting	–
Clamping principle	clamping against fixed jaw	clamping against fixed jaw	clamping against fixed jaw
Application	manual loading	manual loading / automation	manual loading
Machining centre	vertical	vertical/horizontal	vertical/horizontal
Special features / Options	<ul style="list-style-type: none"> · clamping force display · step jaw inserts 	<ul style="list-style-type: none"> · operation with 1 spindle · with third-hand function · vector design on request 	<ul style="list-style-type: none"> · completely encapsulated
Overall lengths	380 ... 1200 mm	510 mm	300 ... 540 mm


	Workholding systems for 5-axis machining		
Series	HILMA.MC-P	HILMA.MC-P Z	HILMA.SCS
			
Jaw widths (max. clamping force)	60 mm (15 kN) 100 mm (25 kN) 125 mm (35 kN)	60 mm (15 kN) 100 mm (25 kN) 125 mm (35 kN)	80 mm (25 kN) 120 mm (40 kN)
Operation			
mechanical	mechanical	mechanical	mechanical
hydraulic	on request	double acting	single acting
Clamping principle	clamping against fixed jaw	concentric clamping or with balancing function	clamping against fixed jaw
Application	manual loading	manual loading	manual loading / automation
Machining centre	5-axis/pallets	5-axis/pallets	5-axis/pallets
Special features / Options	<ul style="list-style-type: none"> · patented design · compact design 	<ul style="list-style-type: none"> · patented design · clamping without deformation (MC-P ZB) · compact design 	<ul style="list-style-type: none"> · covered spindle area · displaceable fixed jaw
Overall lengths	110 ... 283 mm	110 ... 485 mm	206 ... 282 mm



**Tower clamping systems
for horizontal machining (4-axis)**

HILMA.TS	HILMA.TS TriStar	HILMA.TS Vector	HILMA.TS TriStar Vector
			
100 mm (25 kN) 125 mm (40 kN)	100 mm (25 kN) 125 mm (40 kN)	100 mm (25 kN) 125 mm (40 kN)	100 mm (25 kN) 125 mm (40 kN)
mechanical	mechanical	mechanical	mechanical
-	-	-	-
-	-	on request	-
clamping against fixed jaw	clamping against fixed jaw	clamping against fixed jaw	clamping against fixed jaw
manual loading	manual loading	manual loading / automation	manual loading / automation
horizontal	horizontal	horizontal	horizontal
<ul style="list-style-type: none"> · patented guide and sealing system · with 4 clamping sides - 4 × 90° · operation with 1 spindle per side · with third-hand function 	<ul style="list-style-type: none"> · patented guide and sealing system · with 3 clamping sides - 3 × 120° · operation with 1 spindle per side · with third-hand function 	<ul style="list-style-type: none"> · patented guide and sealing system · with 4 clamping sides - 4 × 90° · operation with 2 spindles (introduction of different clamping forces) · with central fixed jaw or 2 × fixed jaws 	<ul style="list-style-type: none"> · patented guide and sealing system · with 3 clamping sides - 3 × 120° · Operation with 2 spindles (introduction of different clamping forces) · with central fixed jaw or 2 × fixed jaws
562 / 707 mm	248 ... 707 mm	599 ... 750 mm	599 ... 750 mm

Automation clamping systems

HILMA.ASH	HILMA.ASE
	
125 mm (40 kN)	125 mm (25 kN) 160 mm (25 kN)
-	electromechanical
double acting	
clamping against fixed jaw or concentric clamping	clamping against fixed jaw
Automation	Automation
5-axis/pallets	5-axis/pallets
<ul style="list-style-type: none"> · with screwed precision step jaws · with base jaws for quick jaw change 	<ul style="list-style-type: none"> · with screwed precision step jaws · with base jaws for quick jaw change
348 mm	300 ... 420 mm

CUSTOMISED SOLUTIONS

Successful companies expect more than “just” convincing products from their partners. They also expect process expertise and comprehensive consulting services that are aligned with their individual requirements.

We adapt our components for you if the standard solution does not yield a satisfactory result. Based on our decades of experience and in-depth expertise in the development and manufacture of workholding systems, we can come up with a customised solution for your specific application quickly and efficiently.

CLAMPING JAWS

Clamping jaws have a great influence on the clamping quality and safety and thus also on the machining results.

We offer a large catalogue range of clamping jaws for each clamping system. If you do not find the desired clamping jaw in our catalogue range, please contact us. Besides the catalogue range, we also manufacture customised clamping jaws. We would be pleased to advise you on the selection of the optimum clamping jaws.



ROEMHELD
HILMA ■ STARK

HIGH TECH IN A NUTSHELL.

Innovative clamping systems for every application

The high-tech company STARK Spannsysteme was established in 1977 in Rankweil, Austria.

It manufactures zero-point clamping systems and machine vices of the highest quality and precision for international clients in the automotive, aviation and medical industries.

STARK Spannsysteme products are a byword for minimal set-up times, faster production and high flexibility.

HILMA machine vices can be complemented and combined perfectly with STARK zero-point clamping systems.

STARK Spannsysteme

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