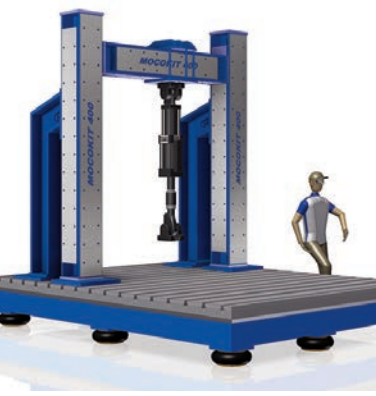
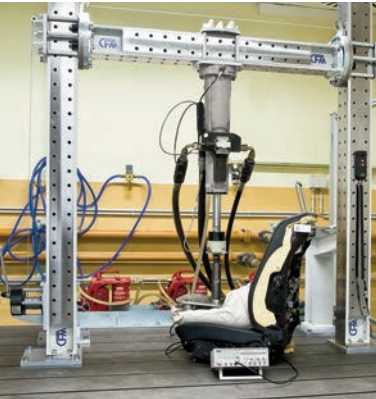




MOCOKIT®

Modular Construction Kit

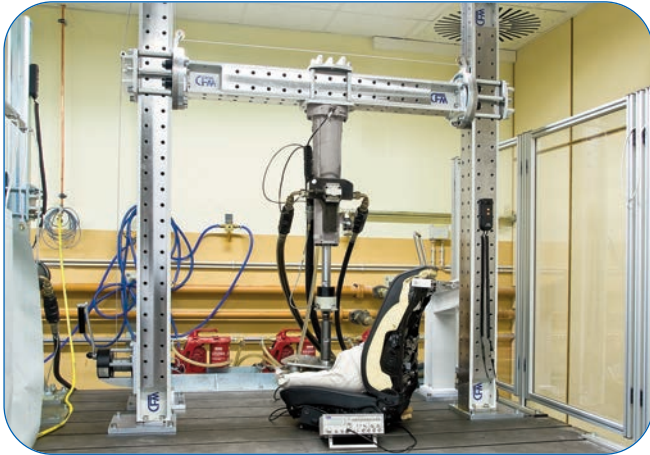
The efficient solution for your component test lab.

Series:

MOCOKIT® 25, 65, 65 SE, 250, 250 SE, 400, 600

Universal modular construction kit for static and dynamic test setups

Are you operating your own test lab for component testing or planning a new test lab?



Test arrangement with passenger car seat

Apart from servo-hydraulic components like linear actuators and rotary actuators do you also need appropriate devices to mount simply actuators and test-specimens flexible and safely? In order to keep down investment cost, modular solutions are especially useful when test setups are frequently modified.

With our universal modular construction kit **MOCOKIT®** we provide you with the flexibility you need in your daily business – high quality at affordable prices.

MOCOKIT® is specially customized to suit the demands of component tests and fulfils the demands of an up-to-date test lab in terms of rigidity, mounting and versatility.

Linear actuators and rotary actuators as well as test specimens can easily be mounted by means of specific adaptor plates, which you can either manufacture yourself or which can be supplied by us. Various sizes, graded by their maximum permissive static load, allow you to construct test frames for static forces up to 600 kN.

We supply dynamic load values on request.



Implementation **MOCOKIT® 250**

Only by a few tools you can modify the configuration according to a new test arrangement.

We also look forward to assisting you in the selection of the required components for your particular test configuration.

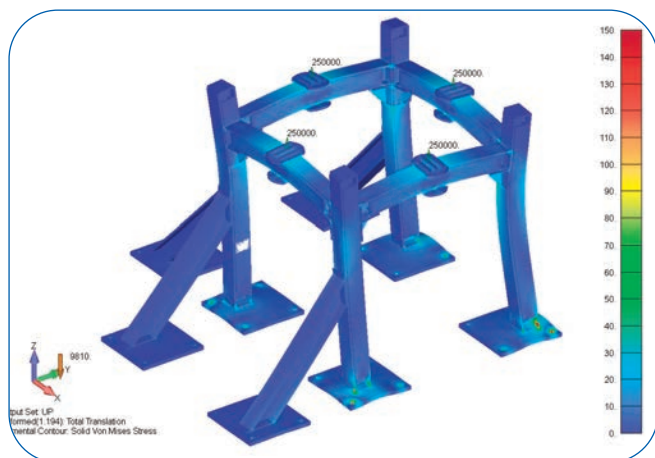


Truck axle testing, bending test with **MOCOKIT® 400** application



Aufbau eines Portals **MOCOKIT® 600**

FEA Calculation



Example for a FEA Calculation

On request, we offer an FE-analysis of your specific test configuration. As mentioned before, we can provide you with customized flange and adaptor plates for all servo-hydraulic actuators available on the market.

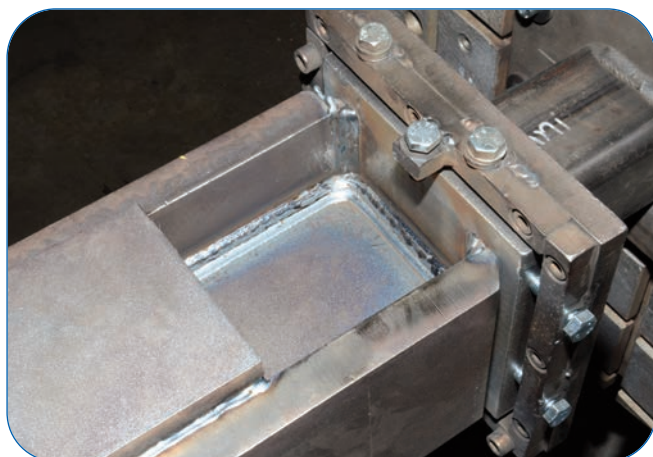
MOCOKIT® Available standard sizes:		
Series	Max. Load actuators up to:	Adjustability
MOCOKIT® 25	≈ 25 kN (static) ≈ 18 kN (dynamic)	stepless
MOCOKIT® 65	≈ 65 kN (static)	75mm grid / stepless *
MOCOKIT® 65 SE	≈ 46,8 kN (dynamic)	stepless
MOCOKIT® 250	≈ 250 kN (static)	100mm grid / stepless*
MOCOKIT® 250 SE	≈ 180 kN (dynamic)	stepless
MOCOKIT® 400	≈ 400 kN (static) ≈ 288 kN (dynamic)	200mm grid
MOCOKIT® 600	≈ 600 kN (static) ≈ 500 kN (dynamic)	250mm grid

* Stepless adjustability by means of clamping devices

Cost effective and high quality series manufacturing



Example: Mounting **MOCOKIT®**



Example: Fabrication of a **MOCOKIT®** beam



Example: Weld for a **MOCOKIT®** beam

General description & Application examples

The universal modular construction kit **MOCOKIT®** is an erectorset consisting of beams, supports, brackets, adjustable units and other components.

The system allows nearly flexible and easy mounting of test-rig components in unlimited configurations.

The complete **MOCOKIT®** system is manufactured inhouse of CFM Schiller GmbH.

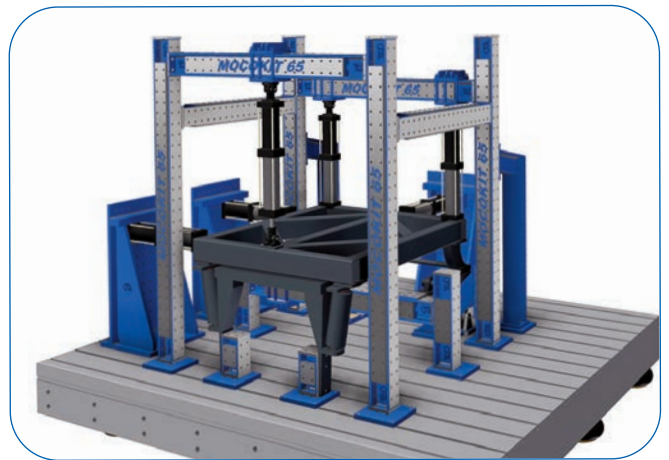
We manufacture the universal modular construction kit series **MOCOKIT® 65, 65 SE, 250, 250 SE, 400** and **600** as a welded steel structure.

All surfaces are rectangular and parallel to each other and are equipped with bores on the top and bottom and tapped holes on the sides. All not machined surfaces are painted light grey in the colour RAL 7035.

The **MOCOKIT® 25** is made of structural square tubing without threaded holes and is galvanized.

The **MOCOKIT® 65 SE** and **MOCOKIT® 250 SE** (**S**imple **E**dition) are made similar to **MOCOKIT® 65** and **MOCOKIT® 250** but without threaded holes. Fixation through clamping only.

Furthermore **MOCOKIT®** is designed for a first resonance frequency of 8-10 Hz. Please note that significantly higher resonance frequencies can be achieved using specific configurations.



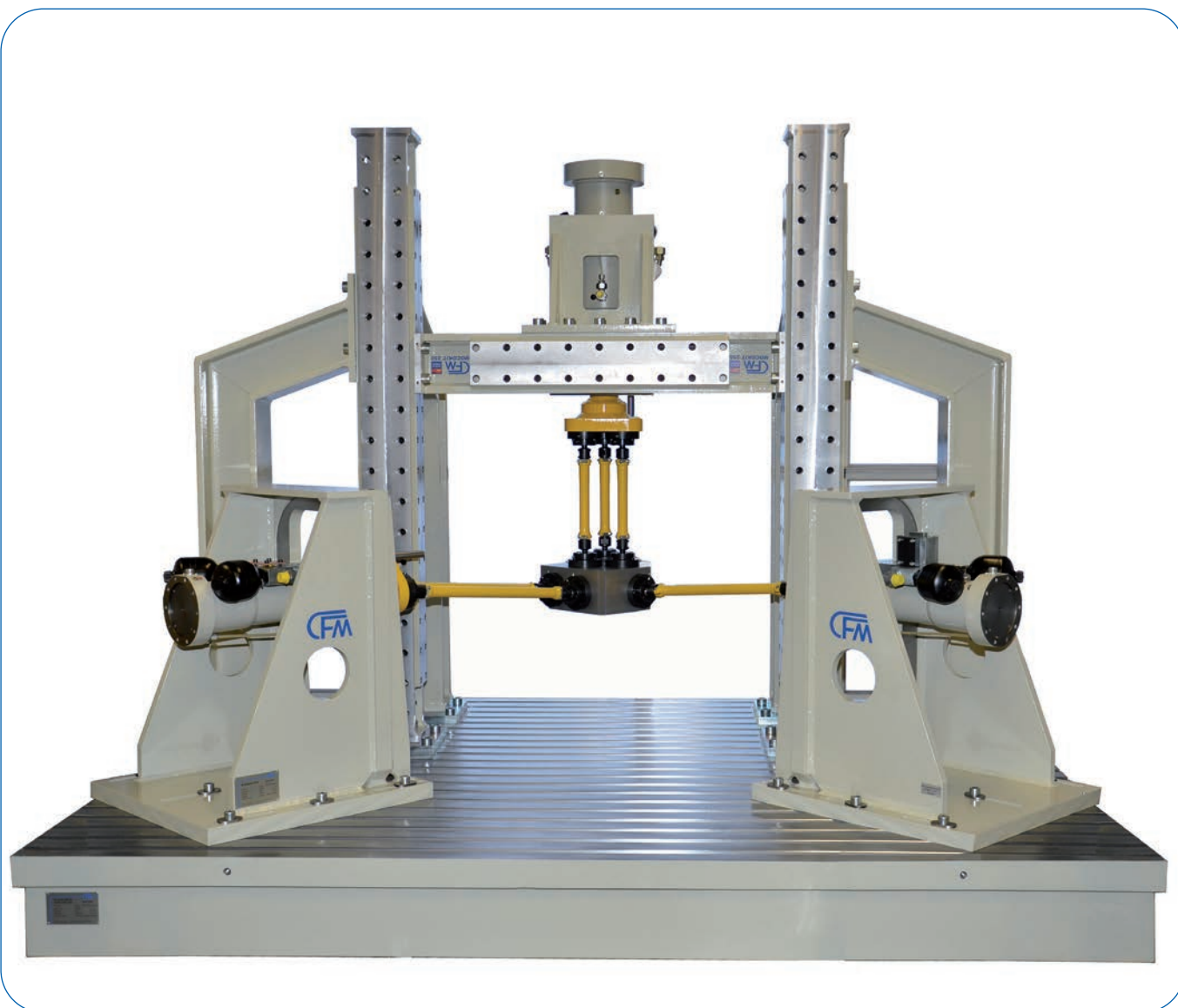
Application with **MOCOKIT® 65**, for 6 degrees of freedom, truck cabin support



A multi axial test configuration with **MOCOKIT® 250**



MOCOKIT® 250 components



MOCOKIT® 250 for 3-axial elastomere test rig



Fixation of height adjustable clamping bracket by means of a bolted connection

MOCOKIT® performs via:

-> Unlimited number of test configurations possible
-> Short re-built times for different test configurations
-> Test configurations vary from single axis test up to multi axis tests
-> All **MOCOKIT®** parts are interchangeable
-> Additional **MOCOKIT®** components can be purchased due to accomodate growing testing needs
-> Choose the **MOCOKIT®** specification suited for your specific range of test load

	Beam with single ended flange			
	For vertical column application or horizontal beam. Specification: Width: 100 mm, height: 100 mm			
Description	Sizes (mm)	Weight ≈ (kg)	Order-No. VPK ...	Technical remark
Beam with single ended flange	L = 1.000	30	002 494	Vertical and horizontal application
	L = 1.500	43	000 361	
	L = 2.000	57	000 360	Vertical application
	L = 2.500	70	001 835	
	L = 3.000	84	002 495	
	L = 3.500	97	002 001	

	Beam with double ended flange			
	For vertical column application or horizontal beam. Specification: Width: 100 mm, height: 100 mm			
Description	Sizes (mm)	Weight ≈ (kg)	Order-No. VPK ...	Technical remark
Beam with double ended flange	L = 750	25	002 496	Vertical and horizontal application
	L = 1.000	32	000 362	
	L = 1.500	45	002 463	
	L = 2.000	59	002 002	Vertical application
	L = 2.500	72	001 836	

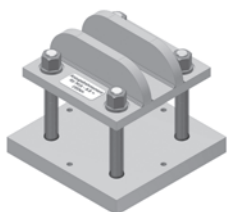
	Support strut			
	For stiffening of loadframes.			
Description	Sizes (mm)	Weight ≈ (kg)	Order-No. VPK ...	Technical remark
Support strut for beams	160 x 500 x 500	16	000 367	-
	160 x 618 x 1000	24	000 526	
Note: For fixation of braces on vertical beams, the clamping plate for turning unit [VPK 000 527) needs to be used.				

	Turning unit 300°			
	For the adjustment of the angles of horizontal beams. Scope of supply: 1 off turning unit 300° left hand, 1 off turning unit 300° right hand, 1 off hand lever			
Description	Sizes (mm)	Weight ≈ (kg)	Order-No. VPK ...	Technical remark
Turning unit 300°	ø300	32	002 120	Adjustment according to angle scale reading
Note: For the application of the turning unit the beam with LH / RH flange [see left side] needs to be used. For the fixation of the turning unit on beams, a clamping plate for the turning unit [VPK000 527] is necessary.				

	Clamping plate for turning unit 300° / support strut for beams			
	For the fixation (clamping) of the turning unit onto horizontal beams. For the fixation of braces onto vertical beams, which are used as columns. Specification: Anchor bolt M16			
Description	Sizes (mm)	Weight ≈ (kg)	Order-No. VPK ...	Technical remark
Clamping plate for turning unit 300° / brace for beams	180 x 180 x 190	6	000 527	-

	Clamping plate for beams			
	For the fixation (clamping) of horizontal beams onto vertical beams, which are used as columns. Specification: Anchor bolt M16			
Description	Sizes (mm)	Weight ≈ (kg)	Order-No. VPK ...	Technical remark
Clamping plate for beams	180 x 180 x 210	8	000 517	-

	Clamping plate TT			
	For the fixation (clamping) of a pair of beams. Specification: anchor bolt M16			
Description	Sizes (mm) Width x Depth x Height	Weight ≈ (kg)	Order-No. VPK ...	Technical remark
Clamping plate TT (beam / beam)	180 x 180 x 330	12	000 363	-



Actuator adapter for beam, foot flange fixation

For the fixation of the hydraulic actuators via foot plate fixation.

Specification: anchor bolt M16

Description	Sizes (mm)	Weight ≈ (kg)	Order-No. VPK ...	Technical remark
Actuator adapter for beam, foot flange fixation	210 x 210 x 190	8	000 364	In case of order the mounting face for the actuator needs to be available.



Foot plate

For the adaption of support struts and beams to be used as columns assembled on a clamping plate.

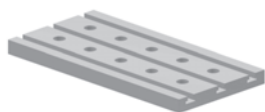
Description	Sizes (mm) Width x Depth x Height	Weight ≈ (kg)	Order-No. VPK ...	for center space (mm)
Foot plate	300 x 300 x 20	14	000 928	150
			000 929	200
			000 365	250
			000 930	individual



Connection cube

To connect several beams.

Description	Sizes (mm)	Weight ≈ (kg)	Order-No. VPK ...	Technical remark
Connection cube	190 x 190 x 190	19	002 094	-

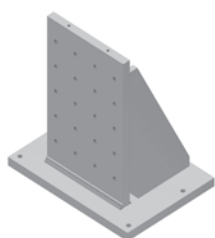


T-slot plate

For the fixation of actuator or test specimens at reaction bracket.

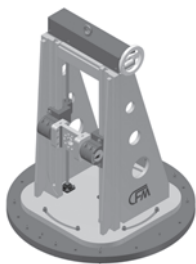
Specification: T-slots DIN 650 18H12, center distance = 90mm

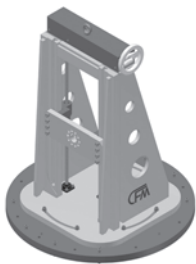
Description	Sizes (mm)	Weight ≈ (kg)	Order-No. VPK ...	Technical remark
T-slot plate	500 x 250 x 58	47	000 359	3 T-slots

	Universal reaction bracket with mounting thread				
	For the fixation of actuator or test specimens at reaction bracket. Specification: thread grid: 90 x 90 mm, M16				
Description	Sizes (mm) Width x Depth x Height	Weight ≈ (kg)	Order-No. VPK ...	Technical remark	for center space (mm)
Universal reaction bracket with mounting thread	550 x 400 x 550	118	003 097	-	150
	550 x 400 x 550	118	003 102		200
	550 x 400 x 550	118	000 366		250
Note: For the fixation of actuators or test specimens a T-slot plate is necessary [VPK 000 359].					

	Reaction bracket with vertical adjustment for turnable actuators				
	For the horizontal clamping of hydraulic actuator up to max. 25kN load capacity. The actuator is tiltable in a range of $\pm 25^\circ$ at middle height, if vertical center position is adjusted. In case of order the mounting face for the actuator needs to be available.				
Description	Sizes (mm) Width x Depth x Height	Weight ≈ (kg)	Order-No. VPK ...	Technical remark	for center space (mm)
Reaction bracket with vertical adjustment for turnable actuators	820 x 625 x 1.410	510	003 096	The vertical adjustment range is ± 350 mm.	150
	820 x 625 x 1.410	510	003 101		200
	820 x 625 x 1.410	510	002 093		250

	Reaction bracket with vertical adjustment				
	or the horizontal clamping of hydraulic actuator up to max. 25kN load capacity. In case of order the mounting face for the actuator needs to be available.				
Description	Sizes (mm) Width x Depth x Height	Weight ≈ (kg)	Order-No. VPK ...	Technical remark	for center space (mm)
Reaction bracket with vertical adjustment	820 x 625 x 1.410	491	003 098	The vertical adjustment range is ± 350 mm.	150
	820 x 625 x 1.410	491	003 103		200
	820 x 625 x 1.410	491	002 882		250

	Reaction bracket with vertical adjustment for turnable actuators on rotation plate				
	For the horizontal clamping of hydraulic actuator up to max. 25kN load capacity. The turning adjustment range is 90°. The actuator can be turned $\pm 25^\circ$, if vertical center position is adjusted. In case of order the mounting face for the actuator needs to be available.				
Description	Sizes (mm) Width x Depth x Height	Weight $\approx$ (kg)	Order-No. VPK ...	Technical remark	for center space (mm)
Höhenverstellbarer Aufspannwinkel für schwenkbare Zylinder auf Drehplatte	Ø 1.170 x 1.450	964	003 099	The vertical adjustment range is ± 350 mm.	150
	Ø 1.170 x 1.450	964	003 104		200
	Ø 1.170 x 1.450	964	002 902		250

	Reaction bracket with vertical adjustment for turnable actuators				
	For the horizontal clamping of hydraulic actuator up to max. 25kN load capacity. The actuator can be turned $\pm 25^\circ$, if vertical center position is adjusted. In case of order the mounting face for the actuator needs to be available.				
Description	Sizes (mm) Width x Depth x Height	Weight $\approx$ (kg)	Order-No. VPK ...	Technical remark	for center space (mm)
Universal reaction bracket with mounting thread	Ø 1.170 x 1.450	945	003 100	The vertical adjustment range is ± 350 mm.	150
	Ø 1.170 x 1.450	945	003 105		200
	Ø 1.170 x 1.450	945	002 901		250

Mounting material

Description		Details	Weight ≈ (kg)	Order-No. VPK ...	Technical remark
	Collar nut	DIN 6331 - M16 Property class 10	-	000 373	-
	T-slot nut	DIN 508 - M16 x 18 DIN 508 - M16 x 22	-	see page 48	-
	Socket head cap screw	DIN EN ISO 4762 - M16 Property class 10.9	-	see page 48	-

Component Layout

Beam with
single ended flange
1.000 - 3.500 mm
VPK 002 494
VPK 000 361
VPK 000 360
VPK 001 835
VPK 002 495
VPK 002 001

Beam with
double ended flange
750 - 2.500 mm
VPK 002 496
VPK 000 362
VPK 002 463
VPK 002 002
VPK 001 836

Clamping plate TT
VPK 000 363

Turning unit 300°
VPK 002 120

Clamping plate
for turning unit 300°/
brace for beams
VPK 000 527

Connection cube
VPK 002 094

T-slot plate
VPK 000 359

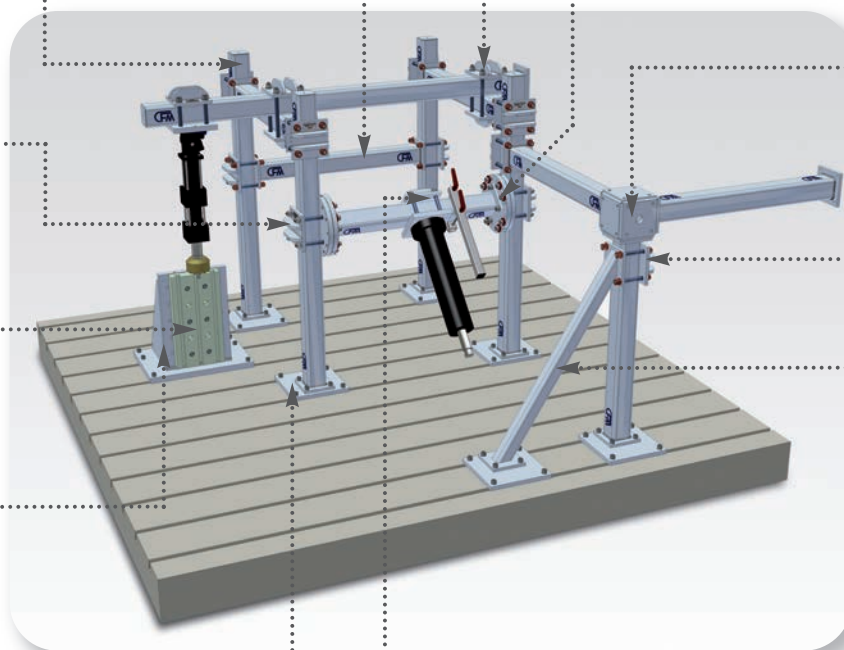
Clamping plate
for beams
VPK 000 517

Support strut
VPK 000 367
VPK 000 526

Reaction bracket
VPK 000 366
VPK 003 097
VPK 003 102

Foot plate
VPK 000 928
VPK 000 929
VPK 000 365
VPK 000 930

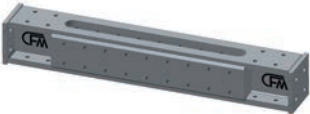
Actuator adapter for beam,
foot flange fixation
VPK 000 364



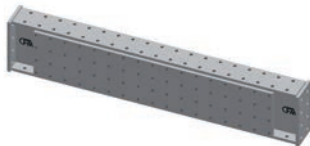
	Beam with mounting thread			
	For vertical column application or horizontal beam. Specifikation: Width: 155mm, height: 155mm thread grid: 75 x 75mm, M16			
Description	Sizes (mm)	Weight ≈ (kg)	Order-No. VPK ...	Technical remark
Beam with mounting thread	L = 750	59	000 284	Description
	L = 1.050	87	000 285	
	L = 1.500	127	000 286	
	L = 2.250	193	000 287	vertical application
	L = 2.550	220	001 627	
	L = 3.000	261	001 426	
	L = 3.750	328	001 424	
	L = 4.500	395	002 300	

Note: For fixation purpose of steel beam to steel beam **SE**-type, the clamping flange for beams [VPK 001 657] needs to be used.

	Beam without mounting thread (SE -Design)			
	For vertical column application or horizontal beam. Specification: Width: 155mm, height: 155mm			
Description	Sizes (mm)	Weight ≈ (kg)	Order-No. VPK ...	Technical remark
Beam without mounting thread	L = 750	60	001 623	vertical and horizontal application
	L = 1.050	88	001 624	
	L = 1.500	129	001 625	
	L = 2.250	199	001 626	vertical application
	L = 2.550	227	001 425	
	L = 3.000	268	001 667	
	L = 3.750	337	001 427	
	L = 4.500	406	002 301	
Note: For fixation purpose of steel beam to steel beam SE -type, the clamping flange for beams [VPK 001 657] needs to be used.				

	Lateral beam with guidance for actuator			
	For horizontal application as lateral beam. Specification: Width: 155mm, height: 155mm, Widths of the recess: 53 mm thread grid: 75 x 75mm, M16			
Description	Sizes (mm)	Weight ≈ (kg)	Order-No. VPK ...	Technical remark
Lateral beam with guidance for actuator	L = 1.050	85	002 782	max. traverse actuator = 600mm
	L = 1.500	125	002 783	max. traverse actuator = 1.100mm
Note: For fixation purpose of steel beam to steel beam SE -type, the clamping flange for beams [VPK 001 657] needs to be used. Please note: Piston rod enlargement necessary.				

	Lateral beam with guidance for actuator			
	For horizontal application as lateral beam. Specification: Width: 155mm, height: 310mm, Widths of the recess: 53 mm thread grid: 75 x 75mm, M16			
Description	Sizes (mm)	Weight ≈ (kg)	Order-No. VPK ...	Technical remark
Lateral beam with guidance for actuator	L = 2.050	289	002 784	max. traverse actuator = 1.600mm
Note: For fixation purpose of steel beam to steel beam SE -type, the clamping flange for beams [VPK 002 090] needs to be used. Please note: Piston rod enlargement necessary.				

	Lateral beam with mounting thread			
	For horizontal application as lateral beam. Specification: Width: 155 mm, height: 310 mm, thread grid: 75 x 75 mm, M16			
Description	Sizes (mm)	Weight ≈ (kg)	Order-No. VPK ...	Technical remark
Lateral beam with mounting thread	L = 2.050	301	002 092	horizontal application
	L = 2.550	380	002 179	
Note: For fixation purpose of steel beam to steel beam SE -type, the clamping flange for beams [VPK 002 090] needs to be used.				

	Lateral beam without mounting thread (SE -Design)			
	For horizontal application as lateral beam. Specification: Width: 155mm, height: 310mm			
Description	Sizes (mm)	Weight ≈ (kg)	Order-No. VPK ...	Technical remark
Lateral beam without mounting thread	L = 2.050	308	002 117	horizontal application
	L = 2.550	387	002 366	
Note: For fixation purpose of steel beam to steel beam SE -type, the clamping flange for beams [VPK 002 090] needs to be used.				

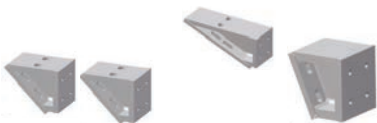
	Support strut for beams with mounting thread			
	For stiffening of loadframes. Specification: Width: 180mm, thread grid: 75 x 75mm, M16			
Description	Sizes (mm)	Weight ≈ (kg)	Order-No. VPK ...	Technical remark
Support strut for beams with mounting thread	508 x 995	84	003 172	for 1.050mm beam
	508 x 1.450	115	001 659	for 1.500mm beam
	708 x 2.195	124	003 174	for 2.250mm beam
	708 x 2.495	172	003 175	for 2.550mm beam
	708 x 2.945	219	003 176	for 3.000mm beam
	908 x 3.695	276	003 177	for 3.750mm beam
	908 x 4.445	324	003 178	for 4.500mm beam
	575 x 770	65	000 295	individual application
	575 x 1.070	95	000 296	

	Support strut for beams without mounting thread (SE -Design)			
	For stiffening of loadframes. Specification: Width: 280mm, depth: 575mm			
Description	Sizes (mm)	Weight ≈ (kg)	Order-No. VPK ...	Technical remark
Support strut for beams with mounting thread	508 x 995	99	003 179	for 1.050mm beam
	508 x 1.450	130	002 284	for 1.500mm beam
	708 x 2.195	139	003 181	for 2.250mm beam
	708 x 2.495	187	003 182	for 2.550mm beam
	708 x 2.945	234	003 183	for 3.000mm beam
	908 x 3.695	291	003 184	for 3.750mm beam
	908 x 4.445	339	003 185	for 4.500mm beam
	575 x 770	80	002 282	individual application
	575 x 1.070	110	002 283	

Note: For fixation purpose of braces at beams of **SE**-type, the clamping flange for beams [VPK 000 910] needs to be used.

	Stiffening bracket 45°			
	For stiffening purpose of load frames, especially for cantilever arm application. for thread grid: 75 x 75mm, M16			
Description	Sizes (mm)	Weight ≈ (kg)	Order-No. VPK ...	Technical remark
Stiffening bracket 45°	567 x 160 x 567	50	000 293	-

	Support angle 90°			
	For stiffening of beams. For thread grid: 75 x 75mm, M16			
Description	Sizes (mm)	Weight ≈ (kg)	Order-No. VPK ...	Technical remark
Support angle 90°	153 x 161 x 170	7	000 294	-

	Angle section (pair)			
	Enable the diagonal arrangement for beams / for application of longitudinal beams as stiffening strut. Can be used as stiffener support as well. Scope of supply: 2 off angle section			
Description	Sizes (mm)	Weight ≈ (kg)	Order-No. VPK ...	Technical remark
Angle section 45° + 45°	each 171x155x212	2 x 14	002 079	-
Angle section 22,5° + 67,5°	160x155x360 / 175x155x185	25 + 13	002 080	-

	Turning unit 300°			
	For the adjustment of the angles of horizontal beams. Scope of supply: 1 off turning unit 300° left hand, 1 off turning unit 300° right hand, 1 off hand lever			
Description	Sizes (mm)	Weight ≈ (kg)	Order-No. VPK ...	Technical remark
Turning unit 300° for beams	ø310	53	002 118	Adjustment according to angle scale reading
Turning unit 300° for lateral beams	ø350	120	002 104	
Note: For the application of the turning unit the beam with LH / RH flange [VPK 000 910] needs to be used. For the fixation of the turning unit on beams, a clamping plate for the turning unit [VPK 002 434] is necessary.				

	Clamping plate for turning unit 300° / brace for beams			
	For the fixation (clamping) of the height adjustment unit, turning unit, braces or vertical beams of SE-type, which are used as column. Specification: anchor bolt M16			
Description	Sizes (mm)	Weight ≈ (kg)	Order-No. VPK ...	Technical remark
Clamping plate for beams	280 x 210 x 250	16	000 910	-
Clamping plate for lateral beams	270 x 320 x 250	21	002 434	-

	Clamping plate			
	For the fixation (clamping) of a pair of beams. Spezifikation: anchor bolt M16			
Description	Sizes (mm)	Weight ≈ (kg)	Order-No. VPK ...	Technical remark
Clamping plate TT (Beam/beam)	450 x 210 x 280	26	000 525	-
Clamping plate TQ (Beam/lateral beam)	605 x 210 x 280	26	002 218	-
Clamping plate QQ (2 x lateral beam)	760 x 210 x 280	26	002 407	-

	Clamping flange for beam / crossbeam (pair)			
	For the fixation of horizontal beams and lateral beams on vertical beams of SE -type, which are used as column. Specification: anchor bolt M16 Scope of supply: 2 off clamping flanges			
Description	Sizes (mm)	Weight ≈ (kg)	Order-No. VPK ...	Technical remark
Clamping flange for beam	je 300 x 260 x 250	2 x 29	001 657	-
Clamping flange for lateral beam	je 270 x 320 x 250	2 x 37	002 090	-

	Vertical adjustment unit			
	For vertical adjustment of beams or lateral beams, i.e. in case of non-availability of a roof crane. Step- or stepless adjustment according to specification. Scope of supply: 1 off hand lever, 2 off headplate with pulley, 2 off pulley, 1 off steel rope, additional (according to specification): 4 off guiding rail (for step adjustment) or 1 off crank lever bracket			
Description	Sizes (mm)	Weight ≈ (kg)	Order-No. VPK ...	Technical remark
Vertical adjustment unit with crank lever bracket for beams	300	48	002 091	The vertical adjustment unit with crank lever bracket enables the full height adjustment of lateral beams and beams. For stepless adjustment, the clamping plate for beams [VPK 001 657] needs to be applied. For stepless adjustment, the clamping plate for lateral beams [VPK 002 090] needs to be applied.
Vertical adjustment unit with crank lever bracket for lateral beams	500	55	002 927	
Vertical adjustment unit for beams, * step adjustment	300	29	000 307	
Vertical adjustment for lateral beams,* step adjustment	500	35	002 621	
Vertical adjustment for beams, * stepless adjustment	300	29	000 911	
Vertical adjustment lateral beams, * stepless adjustment	500	35	002 928	

	Actuator fixation with foot flange adaption			
	For the fixation of the hydraulic actuators via base plate fixation. Specification: anchor bolt M16			
Description	Sizes (mm)	Weight ≈ (kg)	Order-No. VPK ...	Technical remark
Actuator fixation with foot flange adaption for beams	280 x 210 x 250	26	000 298	In case of order the mounting face for the actuator needs to be available.
Actuator fixation with foot flange adaption for lateral beams	280 x 210 x 405	25	002 217	

	Tiltable actuator fixation unit			
	For angle adjustment of actuator mounted on a beam via lateral beam. Adjustment according to angle scale reading. Step- or stepless adjustment on beam / lateral beam. Specification: anchor bolt M16			
Description	Sizes (mm)	Weight ≈ (kg)	Order-No. VPK ...	Technical remark
Tiltable actuator fixation unit for beams	590 x 300 x 300	62	001 003	In case of order the mounting face for the actuator needs to be available.
Tiltable actuator fixation unit for lateral beams	890 x 450 x 450	99	002 408	

	Tiltable actuator fixation unit for beams with head flange			
	For the fixation of an actuator with head flange mounting. Stepless or step-fixation according to specification. Specification: anchor bolt M16			
Description	Sizes (mm)	Weight ≈ (kg)	Order-No. VPK ...	Technical remark
Tiltable actuator fixation unit for beams with head flange	590 x 300 x 300	62	002 423	In case of order the mounting face for the actuator needs to be available.
Tiltable actuator fixation unit for lateral beams with head flange	620 x 400 x 440	70	002 424	

	Foot plate			
	For the adaption of support struts and beams to be used as columns assembled on a clamping plate.			
Description	Sizes (mm)	Weight ≈ (kg)	Order-No. VPK ...	Technical remark
Foot plate	300 x 300 x 25	18	000 300	150
			000 301	200
			000 302	250
			000 288	individual

	Connection cube			
	To connect several beams.			
Description	Sizes (mm)	Weight ≈ (kg)	Order-No. VPK ...	Technical remark
Connection cube	185 x 185 x 185	18	002 081	-

	Spacer (pair)			
	Adjustment of distance between pillars. Scope of supply: 2 off spacer			
Description	Weight ≈ (kg)	Order-No. VPK	Technical remark	Bemerkung
Spacer 25 mm	each 155 x 155 x 25	2 x 5	001 648	for beams
Spacer 50 mm	each 155 x 155 x 50	2 x 9	001 649	
Spacer 25 mm	each 155 x 310 x 25	2 x 10	003 054	for lateral beams
Spacer 50 mm	each 155 x 310 x 50	2 x 18	003 055	

	Universal reaction bracket with T-slots			
	For the fixation of actuator or test specimens at reaction bracket. Specification: T-slots DIN 650 18H12, center space = 75mm			
Description	Sizes (mm)	Weight ≈ (kg)	Order-No. VPK ...	for center space (mm)
Universal reaction bracket with T-slots	600 x 400 x 550	213	003 106	150
	750 x 550 x 1055	518	003 107	
	600 x 400 x 550	213	003 118	200
	750 x 550 x 1055	518	003 119	
	600 x 400 x 550	213	001 807	250
	750 x 550 x 1055	518	001 808	

	Universal reaction bracket with mounting thread			
	For the fixation of actuator or test specimens at reaction bracket. Specification: thread grid: 75 x 75 mm, M16			
Description	Sizes (mm)	Weight ≈ (kg)	Order-No. VPK ...	for center space (mm)
Universal reaction bracket with mounting thread	600 x 400 x 550	168	003 108	150
	750 x 550 x 1055	412	003 109	
	600 x 400 x 550	168	003 120	200
	750 x 550 x 1055	412	003 121	
	600 x 400 x 550	168	000 305	250
	750 x 550 x 1055	412	000 306	

Note: For the fixation of actuators or test specimens a T-slot plate is necessary [VPK 000 303 or VPK 000 304]

	Reaction bracket with vertical adjustment for turnable actuators					
	For the horizontal clamping of hydraulic actuator up to max. 65kN.					
	For the horizontal clamping of hydraulic actuator up to max. 25kN load capacity.					
	The actuator is tiltable in a range of $\pm 25^\circ$ at middle height, if vertical center position is adjusted.					
	In case of order the mounting face for the actuator needs to be available.					

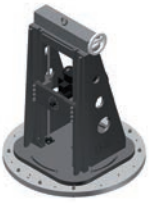
Description	Sizes (mm)	Weight $\approx$ (kg)	Order-No. VPK ...	Technical remark		for center space (mm)
Reaction bracket with vertical adjustment for turnable actuators	900 x 900 x 1.250	797	003 110	The vertical adjustment range is:	$\pm 250\text{mm}$	150
	1.000 x 1.000 x 1.750	939	003 114		$\pm 500\text{mm}$	
	900 x 900 x 1.250	797	002 904		$\pm 250\text{mm}$	200
	1.000 x 1.000 x 1.750	939	002 911		$\pm 500\text{mm}$	
	900 x 900 x 1.250	797	002 904		$\pm 250\text{mm}$	250
	1.000 x 1.000 x 1.750	939	002 911		$\pm 500\text{mm}$	

	Reaction bracket with vertical adjustment				
	For the horizontal clamping of hydraulic actuator up to max. 65kN.				
	In case of order the mounting face for the actuator needs to be available.				

Description	Sizes (mm)	Weight $\approx$ (kg)	Order-No. VPK ...	Technical remark		for center space (mm)
Reaction bracket with vertical adjustment	900 x 900 x 1.250	784	003 111	The vertical adjustment range is:	$\pm 250\text{mm}$	150
	1.000 x 1.000 x 1.750	926	003 115		$\pm 500\text{mm}$	
	900 x 900 x 1.250	784	003 123		$\pm 250\text{mm}$	200
	1.000 x 1.000 x 1.750	926	003 127		$\pm 500\text{mm}$	
	900 x 900 x 1.250	784	002 903		$\pm 250\text{mm}$	250
	1.000 x 1.000 x 1.750	926	002 912		$\pm 500\text{mm}$	

	Reaction bracket with vertical adjustment for turnable actuators on rotation plate					
	For the horizontal clamping of hydraulic actuator up to max. 65kN load capacity.					
	The turning adjustment range is 90°.					
	The actuator can be turned ±25°, if vertical center position is adjusted.					
	In case of order the mounting face for the actuator needs to be available.					

Description	Sizes (mm)	Weight $\approx$ (kg)	Order-No. VPK ...	Technical remark		for center space (mm)
Reaction bracket with vertical adjustment for turnable actuators on rotation plate	$\varnothing 1.170 \times 1.300$	1.200	003 112	The vertical adjustment range is:	$\pm 250\text{mm}$	150
	$\varnothing 1.270 \times 1.800$	1.700	003 116		$\pm 500\text{mm}$	
	$\varnothing 1.170 \times 1.300$	1.200	003 124		$\pm 250\text{mm}$	200
	$\varnothing 1.270 \times 1.800$	1.700	003 128		$\pm 500\text{mm}$	
	$\varnothing 1.170 \times 1.300$	1.200	002 906		$\pm 250\text{mm}$	250
	$\varnothing 1.270 \times 1.800$	1.700	002 913		$\pm 500\text{mm}$	

	Reaction bracket with vertical adjustment on rotation plate				
	For the horizontal clamping of hydraulic actuator up to max. 65kN load capacity. The turning adjustment range is 90°. In case of order the mounting face for the actuator needs to be available.				
Description	Sizes (mm) Width x Depth x Height	Weight ≈ (kg)	Order-No. VPK ...	Technical remark	
Reaction bracket with vertical adjustment on rotation plate	ø1.170 x 1.300	1.000	003 113	The vertical adjustment range is:	±250mm
	ø1.270 x 1.800	1.500	003 117		±500mm
	ø1.170 x 1.300	1.000	003 125		±250mm
	ø1.270 x 1.800	1.500	003 129		±500mm
	ø1.170 x 1.300	1.000	002 905		±250mm
	ø1.270 x 1.800	1.500	002 914		±500mm
					for center space (mm)
					150
					200
					250

	T-slot plate			
	For the fixation of actuator or test specimens at reaction bracket. Specification: T-slots DIN 650 18H12, center space = 75mm			
Description	Sizes (mm) Width x Depth x Height	Weight ≈ (kg)	Order-No. VPK ...	Technical remark
T-slot plate, small	500 x 300 x 58	56	000 303	3 T-slots
T-slot plate, large	1.000 x 750 x 58	285	000 304	9 T-slots

	Adapter piece (pair)			
	For adaption of MOCOKIT® 65 steel beam to MOCOKIT® 250 steel beam. Specification: For thread grid: 75 x 75 mm, M16 and thread grid: 100 x 100 mm, M24 Scope of supply: 2 off adapter piece			
Description	Sizes (mm) Width x Depth x Height	Weight ≈ (kg)	Order-No. VPK ...	Technical remark
Adapter piece MOCOKIT® 65/250	each 190 x 175 x 125	2 x 13	002 095	-

Mounting material					
Description	Detail	Weight ≈ (kg)	Order-No. VPK ...	Technical remark	
	Handling bar with ring eye bolt	160 x 50 x 200	3	000 520	For the safe transport and handling of beams via crane.
	Collar nut	DIN 6331 - M16 Property class 10	-	VKT 000 410	-
	T-slot nut	DIN 508 M16 x 18 / 22 / 28	-	see page 48	-
	Socket head cap screw	DIN EN ISO 4762 - M16 Property class 10.9	-	see page 48	-

Component Layout

Beam
750 - 4.500 mm
VPK 000 284 - 000 287
VPK 001 424
VPK 001 425*
VPK 001 426
VPK 001 427*
VPK 001 623 - 001 626*
VPK 001 627
VPK 001 667*
VPK 002 300
VPK 002 301*

Spacer
VPK 001 648
VPK 001 649

Clamping flange
for beam
VPK 002 090

T-slot plate
VPK 000 303
VPK 000 304

Turning unit 300°
for beams
VPK 002 118

Lateral beam
VPK 002 092
VPK 002 179
VPK 002 117*
VPK 002 366*

Universal
reaction bracket
with thread
VPK 000 305-306
VPK 003 108-109
VPK 003 120-121

Connection cube
VPK 002 081

Universal reaction
bracket with T-slots
VPK 001 807-808
VPK 003 106-107
VPK 003 118-119

Turning unit 300°
for lateral beam
VPK 002 104

Foot plate
VPK 000 300
VPK 000 301
VPK 000 302
VPK 000 288

Clamping flange
for beam
VPK 001 657

Actuator fixation with
foot flange adaption
VPK 000 298
VPK 002 217

Clamping plate
VPK 000 910
VPK 002 434

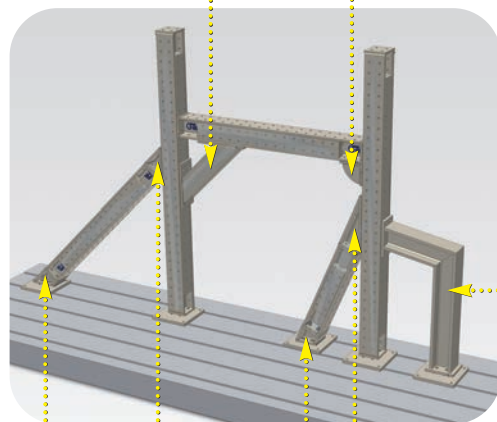
Clamping plate
TT/TQ/QQ
VPK 000 525
VPK 002 218
VPK 002 407

Stiffening bracket 45°
VPK 000 293

Stützwinkel 90°
VPK 000 294

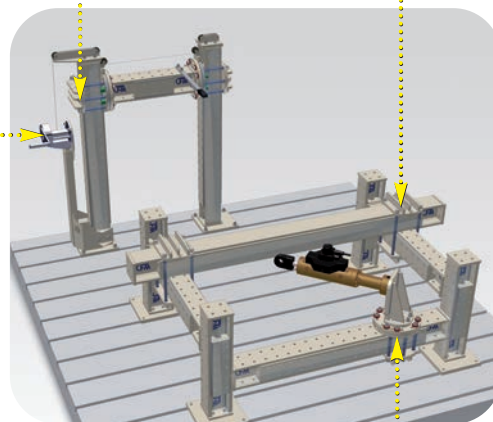
Vertical adjustment
unit
VPK 002 091
VPK 002 927
VPK 000 307
VPK 002 621
VPK 000 911
VPK 002 928

Support strut for beams
VPK 000 295
VPK 000 296
VPK 001 659
VPK 002 282*
VPK 002 283*
VPK 002 284*
VPK 003 172 , VPK 003 179*
VPK 003 174 , VPK 003 181*
VPK 003 175 , VPK 003 182*
VPK 003 176 , VPK 003 183*
VPK 003 177 , VPK 003 184*
VPK 003 178 , VPK 003 185*



Angle sections 45°
VPK 002 079

Angle sections
22,5°+67,5°
VPK 002 080

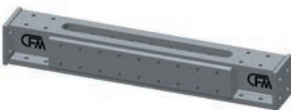


Tiltable actuator fixation unit
for beams VPK 001 003
for lateral beams VPK 002 408

* for MOCOKIT® 65 SE

	Beam with mounting thread			
	For vertical column application or horizontal beam. Specification: Width: 195mm, Height: 195mm thread grid: 100 x 100mm, M24			
Description	Sizes (mm)	Weight ≈ (kg)	Order-No. VPK ...	Technical remark
Beam with mounting thread	L = 500	58	000 314	vertical and horizontal application
	L = 1.000	122	000 315	
	L = 1.500	188	000 316	
	L = 2.000	254	000 317	vertical application
	L = 2.250	298	002 011	
	L = 2.300	301	003 186	
	L = 2.500	333	000 318	
	L = 3.000	402	001 788	
	L = 3.500	471	001 789	
	L = 4.500	638	001 790	
	L = 5.500	746	002 234	
Note: For fixation purpose of steel beam to steel beam SE -type, the clamping flange for beams [VPK 001 658] needs to be used.				

	Beam without mounting thread (SE -Design)			
	For vertical column application or horizontal beam. Specifikation: Width: 195mm, Height: 195mm			
Description	Sizes (mm)	Weight ≈ (kg)	Order-No. VPK ...	Technical remark
Beam without mounting thread	L = 500	60	001 633	vertical and horizontal application
	L = 1.000	126	001 634	
	L = 1.500	195	001 635	
	L = 2.000	264	001 636	vertical application
	L = 2.250	298	002 012	
	L = 2.300	312	003 187	
	L = 2.500	345	001 637	
	L = 3.000	417	001 791	
	L = 3.500	488	001 792	
	L = 4.500	608	001 793	
	L = 5.500	774	002 237	
Note: For fixation purpose of steel beam to steel beam SE -type, the clamping flange for beams [VPK 001 658] needs to be used.				

	Lateral beam with guidance for actuator			
	For horizontal application as lateral beam. Specification: Width: 195 mm, height: 195 mm, Breite der Aussparung: 53 mm thread grid: 100 x 100 mm, M24			
Description	Sizes (mm)	Weight ≈ (kg)	Order-No. VPK ...	Technical remark
Lateral beam with guidance for actuator	L = 1.000	121	002 931	max. traverse actuator = 600 mm
	L = 1.500	191	002 932	max. traverse actuator = 1.100 mm
Note: For fixation purpose of steel beam to steel beam SE -type, the clamping flange for beams [VPK 001 658] needs to be used.				

	Lateral beam with guidance for actuator			
	For horizontal application as lateral beam. Specification: Width: 195 mm, height: 390 mm, Breite der Aussparung: 53 mm thread grid: 100 x 100 mm, M24			
Description	Sizes (mm)	Weight ≈ (kg)	Order-No. VPK ...	Technical remark
Lateral beam with guidance for actuator	L = 2.000	460	002 933	max. traverse actuator = 1.600 mm
Note: For fixation purpose of steel beam to steel beam SE -type, the clamping flange for beams [VPK 001 979] needs to be used. Bitte berücksichtigen: Kolbenstangenverlängerung erforderlich.				

	Lateral beam with mounting thread			
	For horizontal application as lateral beam. Specification: Width: 195mm, heighth: 390mm, thread grid: 100 x 100mm, M24			
Description	Sizes (mm)	Weight ≈ (kg)	Order-No. VPK ...	Technical remark
Lateral beam with mounting thread	L = 2.000	456	001 796	horizontal application
	L = 2.500	577	002 032	
	L = 3.000	698	001 797	
Note: For fixation purpose of steel beam to steel beam SE -type, the clamping flange for beams [VPK 001 979] needs to be used.				

	Lateral beam without mounting thread (<i>SE</i> -Design)			
	For horizontal application as lateral beam. Specification: Width: 195mm, height: 390mm			
Description	Sizes (mm)	Weight ≈ (kg)	Order-No. VPK ...	Technical remark
Lateral beam without mounting thread	L = 2.000	470	001 798	horizontal application
	L = 2.500	594	002 033	
	L = 3.000	719	002 323	
Note: For fixation purpose of steel beam to steel beam <i>SE</i> -type, the clamping flange for beams [VPK 001 979] needs to be used.				

	Support strut for beams with mounting thread			
	For stiffening of loadframes. Specification: Width: 200mm thread grid: 100 x 100mm, M24			
Description	Sizes (mm) Depth x Height	Weight ≈ (kg)	Order-No. VPK ...	Technical remark
Support strut for beams with mounting thread	553 x 940	108	003 188	for 1.000 mm beam
	553 x 1.440	153	003 189	for 1.500 mm beam
	553 x 1.940	197	003 190	for 2.000 mm beam
	753 x 2.190	231	003 217	for 2.250 mm beam
	753 x 2.240	236	003 191	for 2.300mm beam
	753 x 2.440	253	003 192	for 2.500 mm beam
	753 x 2.940	299	003 193	for 3.000 mm beam
	953 x 3.440	356	003 194	for 3.500 mm beam
	953 x 4.440	444	003 195	for 4.500 mm beam
	953 x 5.440	533	003 196	for 5.500 mm beam
	530 x 740	89	000 322	individual application
	530 x 1.040	115	000 321	
	530 x 1.540	160	000 521	
	530 x 2.040	218	001 774	
	753 x 2.540	262	001 794	
	1.478 x 4.040 *	392	001 795	

	Support strut for beams without mounting thread (SE -Design)			
	For stiffening of loadframes. Specification: Width: 200mm			
Description	Sizes (mm) Depth x Height	Weight ≈ (kg)	Order-No. VPK ...	Technical remark
Support strut for beams without mounting thread	553 x 940	117	003 197	für 1.000 mm Träger
	553 x 1.440	162	003 198	für 1.500 mm Träger
	553 x 1.940	206	003 199	für 2.000 mm Träger
	753 x 2.190	240	003 218	für 2.250 mm Träger
	753 x 2.240	245	003 200	für 2.300mm Träger
	753 x 2.440	262	003 201	für 2.500 mm Träger
	753 x 2.940	308	003 202	für 3.000 mm Träger
	953 x 3.440	365	003 203	für 3.500 mm Träger
	953 x 4.440	453	003 204	für 4.500 mm Träger
	953 x 5.440	542	003 205	für 5.500 mm Träger
	530 x 740	98	002 285	individuelle Verwendung
	530 x 1.040	124	002 286	
	530 x 1.540	151	002 287	
	530 x 2.040	227	002 299	
	753 x 2.540	271	002 288	
	1.478 x 4.040 *	401	002 289	

Note: For fixation purpose of braces at beams of **SE**-type, the clamping flange for beams [VPK 001 007] needs to be used.

	Angle section (pair)			
	Enable the diagonal arrangement for beams / for application of longitudinal beams as stiffening strut. Can be used as stiffener support as well. Scope of supply: 2 off angle section			
Description	Sizes (mm)	Weight ≈ (kg)	Order-No. VPK ...	Technical remark
Angle section 45° + 45°	each 211 x 195 x 302	2 x 26	002 097	-
Angle section 22,5° + 67,5°	200x195x388 / 220x195x251	24 + 47	002 098	-

	Stiffening bracket 45°			
	For stiffening purpose of MOCOKIT® 250 load frames, especially for cantilever arm application. for thread grid: 100 x 100mm, M24			
Description	Sizes (mm)	Weight ≈ (kg)	Order-No. VPK ...	Technical remark
Stiffening bracket 45°	585 x 200 x 560	73	000 319	-

	Support angle 90°			
	For stiffening of beams. for thread grid: 100 x 100mm, M24			
Description	Sizes (mm)	Weight ≈ (kg)	Order-No. VPK ...	Technical remark
Support angle 90°	245 x 193 x 201	14	000 320	-

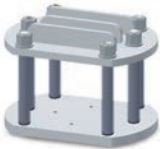
	Turning unit 300°			
	For the adjustment of the angles of horizontal beams. Scope of supply: 1 off turning unit 300° left hand, 1 off turning unit 300° right hand, 1 off hand lever			
Description	Sizes (mm)	Weight ≈ (kg)	Order-No. VPK ...	Technical remark
Turning unit 300° for beams	ø 370	84	002 119	Adjustment according to angle scale reading
Turning unit 300° for lateral beams	ø 565	258	002 103	

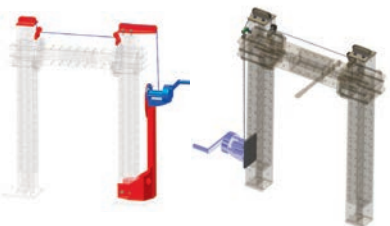
Note: For the application of the turning unit or vertical adjustment unit (stepless) the beam with LH / RH flange [VPK 001 007] need to be used.
 For the fixation of the turning unit on beams or vertical adjustment unit (stepless) , a clamping plate for the turning unit [VPK 002 270] is necessary.

	Clamping plate for turning unit 300° / brace for beams			
	For the fixation (clamping) of the height adjustment unit, turning unit, braces or vertical beams of SE -type, which are used as column. Specification: anchor bolt M16			
Description	Sizes (mm)	Weight ≈ (kg)	Order-No. VPK ...	Technical remark
Clamping plate for beams	275 x 380 x 335	36	001 007	-
Clamping plate for lateral beams	400 x 350 x 335	45	002 270	-

	Clamping plate			
	For the fixation (clamping) of a pair of beams. Specification: anchor bolt M24			
Description	Sizes (mm) Width x Depth x Height	Weight ≈ (kg)	Order-No. VPK ...	Technical remark
Clamping plate TT (Beam/beam)	403 x 275 x 620	65	000 753	-
Clamping plate TQ (Beam/lateral beam)	403 x 275 x 815	69	002 235	-
Clamping plate QQ (2 x lateral beam)	403 x 275 x 840	50	002 209	-

	Clamping flange for beam / crossbeam (pair)			
	For the fixation of horizontal beams and lateral beams on vertical beams of SE -type, which are used as column. Specification: anchor bolt r M24 Scope of supply: 2 off clamping flanges			
Description	Sizes (mm)	Weight ≈ (kg)	Order-No. VPK ...	Technical remark
Actuator fixation with foot flange adaption for beams	each 370 x 370 x 340	2 x 60	001 658	-
Actuator fixation with foot flange adaption for lateral beams	each 400 x 350 x 290	2 x 69	001 979	-

	Actuator fixation with foot flange adaption			
	For the fixation of the hydraulic actuators via base plate fixation. Specification: anchor bolt M24			
Description	Sizes (mm) Width x Depth x Height	Weight ≈ (kg)	Order-No. VPK ...	Technical remark
Actuator fixation with foot flange adaption for beams	403 x 275 x 290	48	000 324	In case of order the mounting face for the actuator needs to be available.
Actuator fixation with foot flange adaption for lateral beams	380 x 275 x 290	53	000 337	

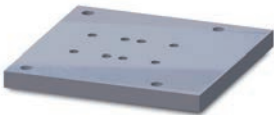
	Vertical adjustment unit			
	For vertical adjustment of beams or lateral beams, i.e. in case of non-availability of a roof crane. Step- or stepless adjustment according to specification. Scope of supply: 1 off hand lever, 2 off headplate with pulley, 2 off pulley, 1 off steel rape, additional (according to specification): 4 off guiding rail (for step adjustment) or 1 off crank lever bracket			
Description	Sizes (mm)	Weight ≈ (kg)	Order-No. VPK ...	Technical remark
Vertical adjustment unit with crank lever bracket for beams	500	63	002 101	The vertical adjustment unit with crank lever bracket enables the full height adjustment of lateral beams and beams. For stepless adjustment, the clamping plate for beams [VPK 001 658] needs to be applied. For stepless adjustment, the clamping plate for lateral beams [VPK 001 979] needs to be applied.
Vertical adjustment unit with crank lever bracket for lateral beams	1.225	73	002 934	
Vertical adjustment unit for beams, * step adjustment	500	35	000 333	
Vertical adjustment unit for lateral * beams, step adjustment	1.225	44	002 622	
Vertical adjustment unit for beams, * stepless adjustment	500	35	001 006	
Vertical adjustment unit for lateral * beams, stepless adjustment	1.225	44	002 935	

	Height adjustment unit for cantilever arm			
	For vertical adjustment (stepless) of cantilever arms. Scope of supply: 1 winch incl. console 1 rope grab incl. pulley 1 rope grab 1 steel rope			
Description	Sizes (mm)	Weight ≈ (kg)	Order-No. VPK ...	Technical remark
Vertical adjustment unit for cantilever arm	100	52	003 215	The adjustability is possible on full rope length.

	Clamping and adjustment unit for cantilever arm			
	For the fixation of cantilever arms. Specification: only 500mm beam with support angle 90°			
Description	Sizes (mm)	Weight ≈ (kg)	Order-No. VPK ...	Technical remark
Clamping and adjustment unit for cantilever arm	370 x 310 x 400	93	003 214	only for beam 500mm with support angle 90°

	Tiltable actuator fixation unit			
	For angle adjustment of actuator mounted on a beam via lateral beam. Adjustment according to angle scale reading. Step- or stepless adjustment on beam / lateral beam. Specification: anchor bolt M24			
Description	Sizes (mm)	Weight ≈ (kg)	Order-No. VPK ...	Technical remark
Tiltable actuator fixation unit for beams	690 x 380 x 403	110	001 004	In case of order the mounting face for the actuator needs to be available.
Tiltable actuator fixation unit for lateral beams	885 x 560 x 560	190	002 452	

	Tiltable actuator fixation unit for beams with head flange			
	For the fixation of an actuator with head flange mounting. Stepless or step-fixation according to specification. Specification: anchor bolt M24			
Description	Sizes (mm)	Weight ≈ (kg)	Order-No. VPK ...	Technical remark
Tiltable actuator fixation unit for beams with head flange	550 x 420 x 325	97	002 116	In case of order the mounting face for the actuator needs to be available.
Tiltable actuator fixation unit for lateral beams with head flange	650 x 420 x 520	120	002 368	

	Foot plate			
	For the adaption of support struts and beams to be used as columns assembled on a clamping plate.			
Description	Sizes (mm)	Weight ≈ (kg)	Order-No. VPK ...	Technical remark
Foot plate	300 x 300 x 30	20	000 326	150
			000 327	200
			000 328	250
			000 334	individual

	Connection cube			
	To connect several beams.			
Description	Sizes (mm)	Weight ≈ (kg)	Order-No. VPK ...	Technical remark
Connection cube	235 x 235 x 235	38	002 099	-

	Spacer (pair)			
	Adjustment of distance between pillars. Scope of supply: 2 off spacer			
Description	Sizes (mm)	Weight ≈ (kg)	Order-No. VPK ...	Technical remark
Spacer 25 mm	je 195 x 195 x 25	2 x 7	001 650	für Träger
Spacer 50 mm	je 195 x 195 x 50	2 x 14	001 651	
Spacer 25 mm	je 195 x 390 x 25	2 x 14	003 056	für Quertraversen
Spacer 50 mm	je 195 x 390 x 50	2 x 28	003 057	

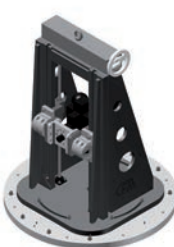
	Universal reaction bracket with T-slots			
	For the fixation of actuator or test specimens at reaction bracket. Specification: T-slots DIN 650 28H12, center space = 100mm			
Description	Sizes (mm) Width x Depth x Height	Weight ≈ (kg)	Order-No. VPK ...	Technical remark
Universal reaction bracket with T-slots	800 x 550 x 550	319	003 130	150
	800 x 580 x 1055	615	003 131	
	800 x 550 x 550	319	003 134	200
	800 x 580 x 1055	615	003 135	
	800 x 550 x 550	319	001 800	250
	800 x 580 x 1055	615	001 801	

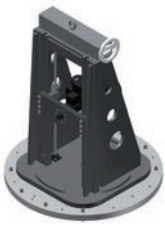
	Universal reaction bracket with mounting thread			
	For the fixation of actuator or test specimens at reaction bracket. Specification: thread grid: 100 x 100mm, M24			
Description	Sizes (mm) Width x Depth x Height	Weight ≈ (kg)	Order-No. VPK ...	Technical remark
Universal reaction bracket with mounting thread	800 x 550 x 550	245	003 132	150
	800 x 580 x 1.055	485	003 133	
	800 x 550 x 550	245	003 136	200
	800 x 580 x 1.055	485	003 137	
	800 x 550 x 550	245	000 331	250
	800 x 580 x 1.055	485	000 332	

Note: For the fixation of actuators or test specimens a T-slot plate is necessary [VPK 000 329 or VPK 000 330]

	Reaction bracket with vertical adjustment for turnable actuators					
	For the horizontal clamping of hydraulic actuator up to max. 250kN. The actuator is tiltable in a range of $\pm 25^\circ$ at middle height, if vertical center position is adjusted. In case of order the mounting face for the actuator needs to be available.					
Description	Sizes (mm) Width x Depth x Height	Weight $\approx$ (kg)	Order-No. VPK ...	Technical remark		for center space (mm)
Reaction bracket with vertical adjustment for turnable actuators	850 x 915 x 1.420	1.210	003 138	The vertical adjustment range is:	$\pm 250\text{mm}$	150
	1.000 x 1.000 x 1.900	1.400	003 146		$\pm 500\text{mm}$	
	850 x 915 x 1.420	1.210	003 142		$\pm 250\text{mm}$	200
	1.000 x 1.000 x 1.900	1.400	003 150		$\pm 500\text{mm}$	
	850 x 915 x 1.420	1.210	002 102		$\pm 250\text{mm}$	250
	1.000 x 1.000 x 1.900	1.400	002 915		$\pm 500\text{mm}$	

	Reaction bracket with vertical adjustment					
	For the horizontal clamping of hydraulic actuator up to max. 250kN. In case of order the mounting face for the actuator needs to be available.					
Description	Sizes (mm) Width x Depth x Height	Weight $\approx$ (kg)	Order-No. VPK ...	Technical remark		for center space (mm)
Reaction bracket with vertical adjustment	850 x 850 x 1.420	1.205	003 139	The vertical adjustment range is:	$\pm 250\text{mm}$	150
	1.000 x 1.000 x 1.900	1.490	003 147		$\pm 500\text{mm}$	
	850 x 850 x 1.420	1.205	003 143		$\pm 250\text{mm}$	200
	1.000 x 1.000 x 1.900	1.490	003 151		$\pm 500\text{mm}$	
	850 x 850 x 1.420	1.205	002 907		$\pm 250\text{mm}$	250
	1.000 x 1.000 x 1.900	1.490	002 916		$\pm 500\text{mm}$	

	Reaction bracket with vertical adjustment for turnable actuators on rotation plate					
	For the horizontal clamping of hydraulic actuator up to max. 250kN load capacity. The turning adjustment range is 90° . Furthermore the actuator can be turned $\pm 25^\circ$, if vertical center position is adjusted. In case of order the mounting face for the actuator needs to be available.					
Description	Sizes (mm) Width x Depth x Height	Weight $\approx$ (kg)	Order-No. VPK ...	Technical remark		for center space (mm)
Reaction bracket with vertical adjustment for turnable actuators on rotation plate	$\varnothing 1.170 \times 1.450$	1.300	003 140	The vertical adjustment range is:	$\pm 250\text{mm}$	150
	$\varnothing 1.270 \times 1.950$	1.800	003 148		$\pm 500\text{mm}$	
	$\varnothing 1.170 \times 1.450$	1.300	003 144		$\pm 250\text{mm}$	200
	$\varnothing 1.270 \times 1.950$	1.800	003 152		$\pm 500\text{mm}$	
	$\varnothing 1.170 \times 1.450$	1.300	002 908		$\pm 250\text{mm}$	250
	$\varnothing 1.270 \times 1.950$	1.800	002 917		$\pm 500\text{mm}$	

	Reaction bracket with vertical adjustment on rotation plate					
	For the horizontal clamping of hydraulic actuator up to max. 250kN load capacity. The turning adjustment range is 90°. In case of order the mounting face for the actuator needs to be available.					
Description	Sizes (mm) Width x Depth x Height	Weight ≈ (kg)	Order-No. VPK ...	Technical remark		for center space (mm)
Reaction bracket with vertical adjustment on rotation plate	ø1.170 x 1.450	1.250	003 141	The vertical adjustment range is:	±250mm	150
	ø1.270 x 1.950	1.750	003 149		±500mm	
	ø1.170 x 1.450	1.250	003 145		±250mm	200
	ø1.270 x 1.950	1.750	003 153		±500mm	
	ø1.170 x 1.450	1.250	002 909		±250mm	250
	ø1.270 x 1.950	1.750	002 918		±500mm	

	T-slot plate			
	For adaption of MOCOKIT® 250 steel beam to MOCOKIT® 400 steel beam. Specification: For thread grid:100 x 100mm, M24 and thread grid: 200 x 200mm, M24 Scope of supply: 2 off adapter piece			
Description	Sizes (mm) Width x Depth x Height	Weight ≈ (kg)	Order-No. VPK ...	Technical remark
T-slot plate, small	500 x 300 x 80	69	000 329	3 T-slots
T-slot plate, large	1.000 x 750 x 80	360	000 330	9 T-slots

	Adapter piece (pair)			
	For adaption of MOCOKIT® 250 steel beam to MOCOKIT® 400 steel beam. Specification: For thread grid:100 x 100mm, M24 and thread grid: 200 x 200mm, M24 Scope of supply: 2 off adapter piece			
Description	Sizes (mm)	Weight ≈ (kg)	Order-No. VPK ...	Technical remark
Adapter piece MOCOKIT® 250/400	each 295 x 275 x 125	2 x 23	002 096	-

Mounting material					
Description		Sizes (mm)	Weight ≈ (kg)	Order-No. VPK ...	Technical remark
	Handling bar with ring eye bolt	180 x 50 x 219	3	000 522	For the safe transport and handling of beams via crane.
	Collar nut	DIN 6331 - M24 Property class 10	-	VKT 000 410	-
	T-slot nut	DIN 508 M24 x 28	-	see page 48	-
	Socket head cap screw	DIN EN ISO 4762 - M24 Property class 10.9	-	see page 48	-

Component Layout

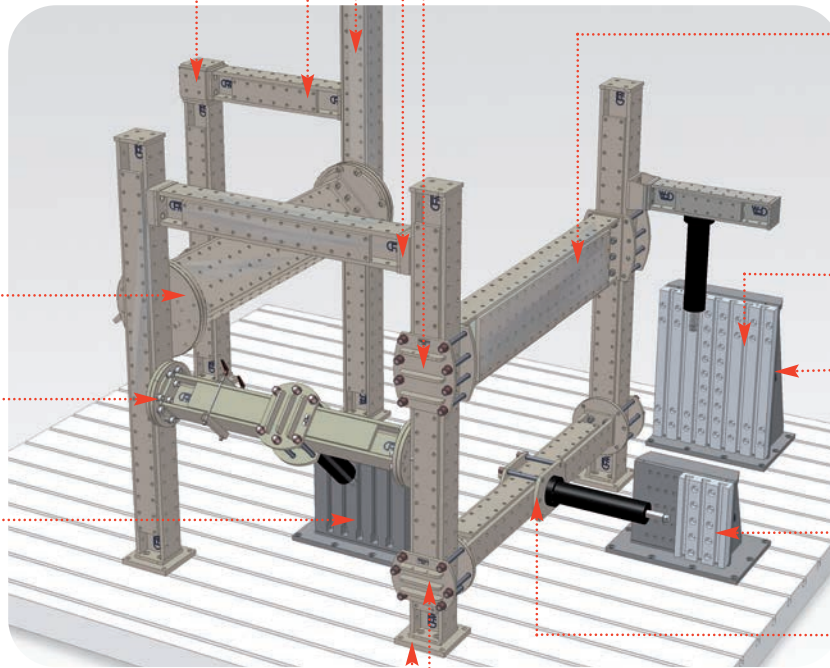
Beam 500-5.500 mm
VPK 000 314-318
VPK 001 788-790
VPK 002 011
VPK 002 234
VPK 001 633-637*
VPK 001 791-793*
VPK 002 012*
VPK 002 237*
VPK 003 186
VPK 003 187*

Turning unit 300°
for lateral beam
VPK 002 103

Turning unit 300°
for beam
VPK 002 119

Universal reaction
bracket with T-slots
VPK 001 800
VPK 001 801

Connection cube
VPK 002 099



Foot plate
VPK 000 326 - 328
VPK 000 334

Clamping flange
VPK 001 658

Spacer VPK 001 650, VPK 001 651

Clamping flange
VPK 001 979

Lateral beam
VPK 001 796
VPK 001 797
VPK 002 032
VPK 001 798*
VPK 001 799*
VPK 002 233*

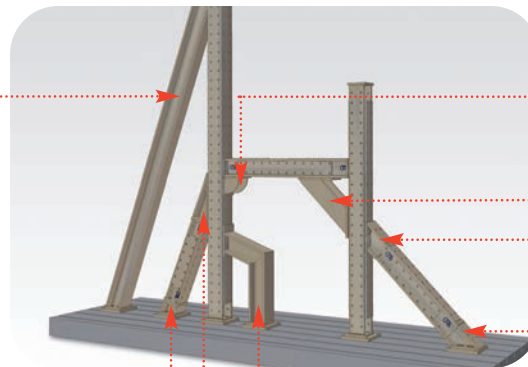
T-slot plate large
VPK 000 330

Universal reaction
bracket w. thread
VPK 000 331
VPK 000 332

T-slot plate small
VPK 000 329

Actuator fixation with
foot flange adaption
VPK 000 324
VPK 000 337

Support strut
for beam
4040 mm
VPK 001 795



Angle section 22,5°
VPK 002 098

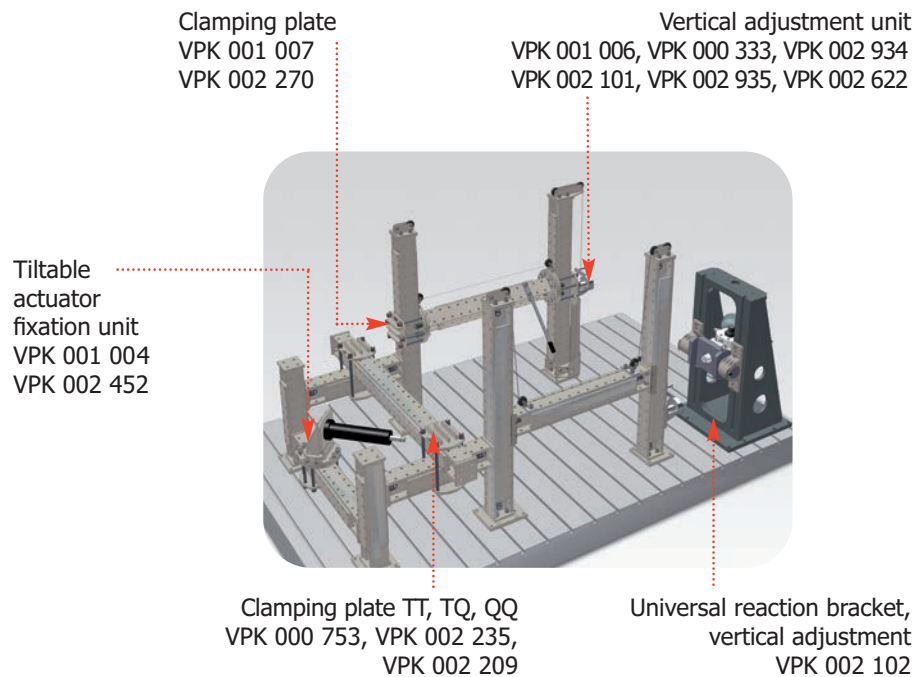
Support strut for beam
VPK 000 321, VPK 000 322, VPK 000 521, VPK 001 774, VPK 001 794,
VPK 002 299, VPK 002 285-289*, VPK 003 192-196, VPK 003 197-205*

Support angle 90°
VPK 000 320

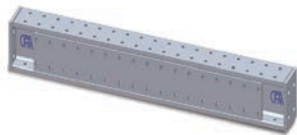
Stiffening bracket 45°
VPK 000 319

Angle section 45°
VPK 002 097

* for MOCOKIT® 250 SE

Component Layout

		Beam with mounting thread		
For vertical column application or horizontal beam. Specification: Width 350mm, height: 350mm, thread grid: 200 x 200mm, M24				
Description	Sizes (mm)	Weight ≈ (kg)	Order-No. VPK ...	Technical remark
Beam with mounting thread	L = 1.000	400	001 554	vertical and horizontal application
	L = 1.400	560	001 555	
	L = 2.000	717	001 556	
	L = 2.400	960	001 557	vertical application
	L = 3.000	1.082	001 552	
	L = 3.400	1.222	002 276	
	L = 4.000	1.400	001 553	
	L = 4.400	1.550	001 803	
	L = 5.000	1.765	001 804	
	L = 5.400	1.905	001 785	
	L = 6.000	2.118	002 241	

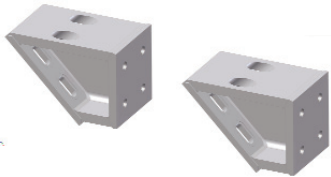
		Lateral beam with mounting thread		
For vertical column application or horizontal beam. Specification: Width 350mm, height: 550mm, thread grid: 200 x 200mm, M24				
Description	Sizes (mm)	Weight ≈ (kg)	Order-No. VPK ...	Technical remark
Lateral beam with mounting thread	L = 2.000	1.060	002 277	horizontal application
	L = 3.000	1.557	002 278	
	L = 4.000	2.120	002 279	
	L = 6.000	3.180	002 243	

		Support strut for beam with mounting thread		
For stiffening of loadframes. Specification: Width: 359mm, depth: 605mm for thread grid: 200 x 200mm, M24				
Description	Sizes (mm)	Weight ≈ (kg)	Order-No. VPK ...	Technical remark
Support strut for beams with mounting thread	L = 1.150	345	001 569	vertical stiffening
	L = 2.150	602	001 584	

	Support strut 45°			
	For stiffening purpose of load frames. For thread grid: 200 x 200mm, M24			
Description	Sizes (mm)	Weight ≈ (kg)	Order-No. VPK ...	Technical remark
Support strut 45°	1.150 x 309 x 1.150	370	001 786	vertical stiffening
	2.150 x 309 x 2.150	715	002 275	

	Stiffening bracket 45°			
	For stiffening purpose of load frames, especially for cantilever arm application. For thread grid: 200 x 200mm, M24			
Description	Sizes (mm)	Weight ≈ (kg)	Order-No. VPK ...	Technical remark
Stiffening bracket 45°	760 x 309 x 760	230	001 567	-

	Support angle 90°			
	For stiffening of beams. For thread grid: 200 x 200mm, M24			
Description	Sizes (mm)	Weight ≈ (kg)	Order-No. VPK ...	Technical remark
Support angle 90°	350 x 350 x 370	85	001 564	-

	Angle section (pair)			
	Enable the diagonal arrangement for beams / for application of longitudinal beams as stiffening strut. Can be used as stiffener support as well. Scope of supply: 2 off angle section			
Description	Sizes (mm)	Weight ≈ (kg)	Order-No. VPK ...	Technical remark
Angle section 45°	each 520 x 360 x 340	2 x 125	002 105	-

	Clamping plate			
	For the fixation (clamping) of a pair of beams. Spezifikation: Anchor bolt M24			
Description	Sizes (mm) Width x Depth x Height	Weight ≈ (kg)	Order-No. VPK ...	Technical remark
Clamping plate TT (Beam/beam)	654 x 440 x 910	195	001 561	-
Clamping plate TQ (Beam/lateral beam)	654 x 440 x 1.110	197	002 247	-
Clamping plate QQ (2 x lateral beam)	654 x 440 x 1.310	199	002 246	-

	Actuator fixation with foot flange adaption			
	For the fixation of the hydraulic actuators via base plate fixation. Specification: Anchor bolt M24			
Description	Sizes (mm) Width x Depth x Height	Weight ≈ (kg)	Order-No. VPK ...	Technical remark
Actuator fixation with foot flange adaption for beams	654 x 440 x 510	152	001 560	In case of order the mounting face for the actuator needs to be available.
Actuator fixation with foot flange adaption for lateral beams	845 x 440 x 520	190	002 453	

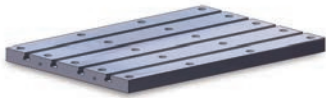
	Foot plate			
	For the adaption of support struts and beams to be used as columns assembled on a clamping plate.			
Description	Sizes (mm)	Weight ≈ (kg)	Order-No. VPK ...	Technical remark
Foot plate for beams / support struts for beams	450 x 450 x 40	64	001 643.100	for center space 200mm
Foot plate for support strut 45°	600 x 450 x 40	85	001 643.200	
Foot plate for beams / support struts for beams	550 x 550 x 40	95	001 644.100	for center space 250mm
Foot plate for support strut 45°	650 x 550 x 40	113	001 644.200	
	650 x 550 x 40	113	001 644.300	

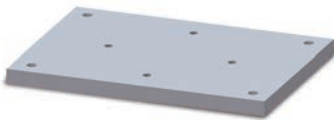
	Connection cube			
	To connect several beams.			
Description	Sizes (mm)	Weight ≈ (kg)	Order-No. VPK ...	Technical remark
Connection cube	410 x 410 x 410	180	002 106	-

	Universal reaction bracket with T-slots			
	For the fixation of actuator or test specimens at reaction bracket. Specification: T-slots DIN 650 28H12, center space = 200 mm			
Description	Sizes (mm) Width x Depth x Height	Weight ≈ (kg)	Order-No. VPK ...	for center space (mm)
Universal reaction bracket with T-slots	810 x 700 x 995	875	001 805	250
	1.060 x 810 x 1.395	1.465	001 806	
	1.060 x 900 x 1.500	1.687	002 109	
	1.060 x 1.060 x 1.800	2.150	002 110	
Note: For the fixation of actuators or test specimens an adapter plate for actuator flange [VPK 001 593 or VPK 001 594] is necessary.				

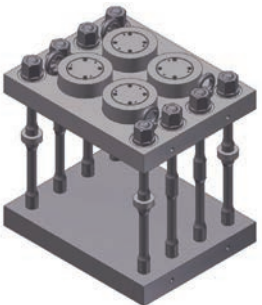
	Universal reaction bracket with mounting thread			
	For the fixation of actuator or test specimens at reaction bracket. Specification: thread grid: 200 x 200mm, M24			
Description	Sizes (mm) Width x Depth x Height	Weight ≈ (kg)	Order-No. VPK ...	for center space (mm)
Universal reaction bracket with mounting thread	810 x 700 x 995	775	001 562	250
	1.060 x 810 x 1.395	1.300	001 563	
	1.060 x 900 x 1.510	1.475	002 107	
	1.060 x 1.060 x 1.810	1.900	002 108	
Note: For the fixation of actuators or test specimens a T-slot plate [VPK 001 565 or VPK 001 566] is necessary. For the fixation of actuators or test specimens an adapter plate for actuator flange [VPK 001 593 or VPK 001 594] is necessary.				

	Reaction bracket with vertical adjustment				
	For the horizontal clamping of hydraulic actuator up to max. 400kN. Specification: For center space 250 mm In case of order the mounting face for the actuator needs to be available.				
Description	Sizes (mm) Width x Depth x Height	Weight ≈ (kg)	Order-No. VPK ...	Technical remark	
Reaction bracket with vertical adjustment	1.060 x 900 x 1.420	1337	003 206	The vertical adjustment range is:	±250mm
	1.160 x 1.000 x 1.900	1652	003 207		±500mm

	T-slot plate				
	For the fixation of actuator or test specimens at reaction bracket. Specification: T-slots DIN 650 28H12, center space = 200mm				
Description	Sizes (mm) Width x Depth x Height	Weight ≈ (kg)	Order-No. VPK ...	Technical remark	
T-slot plate, small	900 x 700 x 90	405	001 565	3 T-slots	
T-slot plate, large	1.300 x 900 x 90	750	001 566	4 T-slots	

	Adapter plate for actuator flange				
	For the fixation of actuator Specification: Anchor bolt M24				
Description	Sizes (mm) Width x Depth x Height	Weight ≈ (kg)	Order-No. VPK ...	Technical remark	
Adapter plate for actuator flange, small	500 x 500 x 40	80	001 593	In case of order the mounting face for the actuator needs to be available.	
Adapter plate for actuator flange, large	500 x 700 x 40	110	001 594		

	Vertical adjustment unit for (lateral) beam			
	For vertical adjustment of beams or lateral beams. Scope of supply: 1 x electric winch incl. console, 2 x rope grab incl. pulley, 2 x pulley, 4 x guiding gib, 1 x steel rope incl. fixtures 1 x electric control cabinet Power: 0,37 kW Voltage: 400V, 50Hz			
Description	Load max. (kg)	Weight ≈ (kg)	Order-No. VPK ...	Technical remark
Vertical adjustment unit for beam	3.200	430	003 221	-
Vertical adjustment unit for lateral beam	3.200	434	003 222	-

	Carriage			
	For fixation of vertical actuators. The carriage is equipped with a spring loaded bearing unit located at the upper side. After untightening of the anchor bolts it is possible to move the carriage including the actuator very easily by hand on the horizontal beam.			
Description	Sizes (mm) Width x Depth x Height	Weight ≈ (kg)	Order-No. VPK ...	Technical remark
Carriage for beam	400 x 500 x 515	219	003 208	-
Carriage for lateral beam	400 x 500 x 715	229	003 209	

	Guiding gib (Set)			
	For the horizontal guiding of beams. Scope of supply: 4 off guiding gib			
Description	Sizes (mm) Width x Depth x Height	Weight ≈ (kg)	Order-No. VPK ...	Technical remark
Guiding gib	450 x 15 x 75	each 2	001 592	-

Mounting material

Description		Detail	Weight ≈ (kg)	Order-No. VPK ...	Technical remark
	T-slot nut	DIN 508 - M24 x 28	-	see page 48	-
	Socket head cap screw	DIN EN ISO 4762 - M24 Property class 10.9	-	see page 48	-

Component Layout

Clamping plate TT, TQ, QQ

VPK 001 561

VPK 002 247

VPK 002 246

Beam

1.000 - 6.000 mm

VPK 001 552 - 001 557

VPK 001 785

VPK 001 803

VPK 001 804

VPK 002 241

VPK 002 276

Foot plate

VPK 001 643.100

VPK 001 643.200

VPK 001 644.100

VPK 001 644.200

VPK 001 644.300

Actuator fixation with

foot flange adaption

VPK 001 560

Adapter plate for

actuator flange

VPK 001 593

VPK 001 594

Support strut

VPK 001 569

VPK 001 584

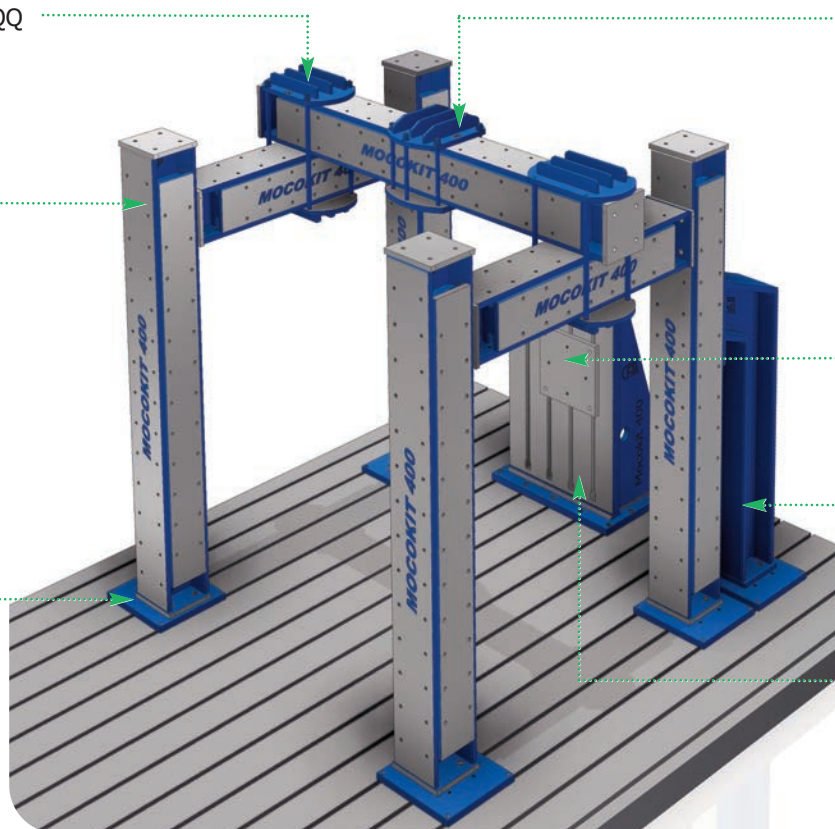
Universal reaction
bracket with T-slots

VPK 001 805

VPK 001 806

VPK 002 109

VPK 002 110



Carriage

VPK 003 208, VPK 003 209

Height adjust-

ment unit for

lateral beam

VPK 002 106

Lateral beam

VPK 002 277-279

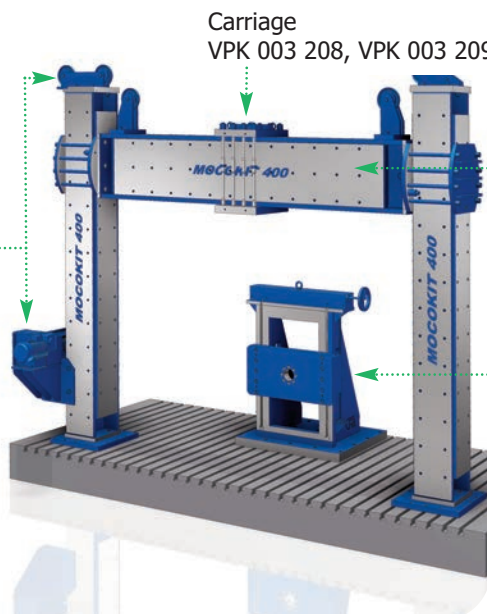
VPK 002 243

Universal reaction

bracket

VPK 003 206

VPK 003 207



	Beam with mounting thread			
	For vertical column application Specification: Width: 415mm, height: 415mm, thread grid: 250 x 250mm, M30			
Description	Sizes (mm)	Weight ≈ (kg)	Order-No. VPK ...	Technical remark
Beam with mounting thread	L = 2.500	1.200	002 583	vertical application
	L = 3.000	1.400	002 584	
	L = 4.000	1.800	002 585	
	L = 5.000	2.400	002 586	

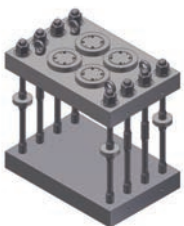
	Lateral beam with mounting thread			
	For horizontal application. Specification: Width: 415mm, height: 415 mm (fixation plate: 415 x 900mm) thread grid 250 x 250mm, M30			
Description	Sizes (mm)	Weight ≈ (kg)	Order-No. VPK ...	Technical remark
Lateral beam with mounting thread	L = 1.000	650	002 587	horizontal application
	L = 2.000	1.100	002 588	
	L = 3.000	1.500	002 589	

	Support strut for beams with mounting thread			
	For stiffening of loadframes. Specification: Width: 320mm, depth: 800mm for thread grid 250 x 250mm, M30			
Description	Sizes (mm)	Weight ≈ (kg)	Order-No. VPK ...	Technical remark
Brace for beams with mounting thread	Height = 1.925mm	600	002 590	vertical application
	Height = 2.425mm	715	002 591	
	Height = 3.425mm	975	002 592	

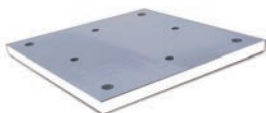
	Actuator fixation with foot flange adaption			
	For the fixation of the hydraulic actuators via base plate fixation. Specification: Anchor bolt M30			
Description	Sizes (mm) Width x Depth x Height	mounting thread	Weight ≈ (kg)	Order-No. VPK ...
Actuator fixation with foot flange adaption	780 x 500 x 530	290	002 593	In case of order the mounting face for the actuator needs to be available.

	Foot plate			
	For the adaption of support struts and beams to be used as columns assembled on a clamping plate.			
Description	Sizes (mm)	Weight ≈ (kg)	Order-No. VPK ...	Technical remark
Foot plate	600 x 600 x 55	155	002 609	250

	Universal reaction bracket with mounting thread				
	For the fixation of actuator or test specimens at reaction bracket. Specification: thread grid: 250 x 250mm, M30				
Description	Sizes (mm) Width x Depth x Height	mounting thread	Weight ≈ (kg)	Order-No. VPK ...	for center distance (mm)
Universal reaction bracket with mounting thread	1.060 x 1.300 x 1.500	M24	1.900	002 595	250
		M30		002 596	
	1.060 x 1.400 x 2.500	M24	3.200	002 599	
		M30		002 600	
	1.060 x 1.400 x 3.000	M24	4.200	002 603	
		M30		002 604	
Note: For the fixation of actuators or test specimens a T-slot plate [VPK 002 607 oder VPK 002 608] is necessary. For the fixation of actuators or test specimens an adapter plate for actuator flange [VPK 002 610 oder VPK 002 611] is necessary.					

	Carriage			
	For the fixation of vertical actuators. The carriage is equipped with a spring loaded bearing unit located at the upper side. After untightening of the anchor bolts it is possible to move the carriage including the actuator very easily by hand on the horizontal beam.			
Description	Sizes (mm) Width x Depth x Height	mounting thread	Weight ≈ (kg)	Order-No. VPK ...
Carriage for beam	400 x 500 x 515	219	003 210	-

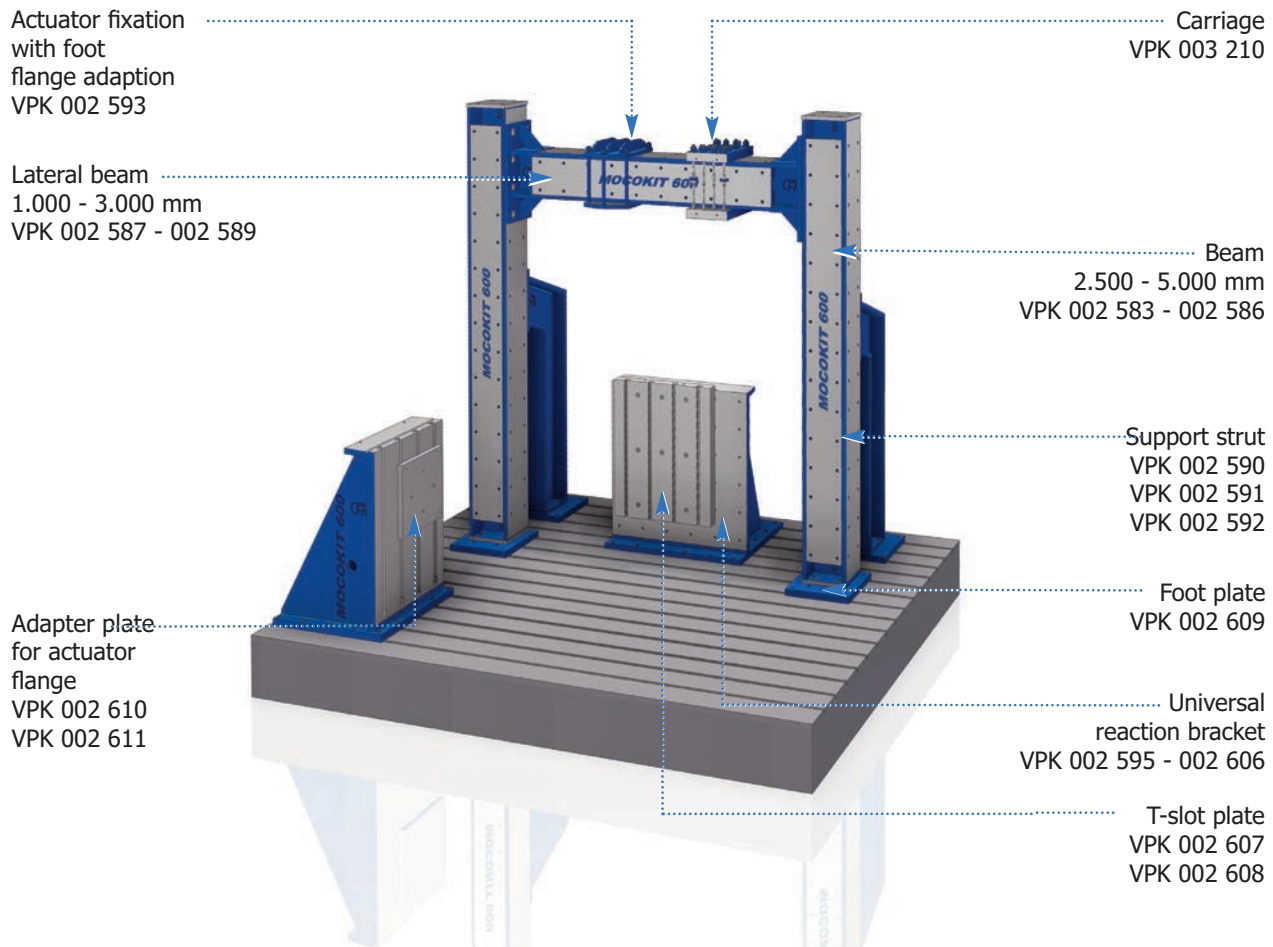
	Universal reaction bracket with T-slots				
	For the fixation of actuator or test specimens at reaction bracket. Specification: T-slots DIN 650 28H12, center space = 250mm				
Description	Sizes (mm) Width x Depth x Height	T-Slot	Gewicht ca. (kg)	Artikel-Nr. VPK ...	für Nutenabstand (mm)
Universal reaction bracket with T-slots	1.060 x 1.300 x 1.500	28H12	2.100	002 597	250
		36H12		002 598	
	1.060 x 1.400 x 2.500	28H12	3.500	002 601	
		36H12		002 602	
	1.060 x 1.400 x 3.000	28H12	4.600	002 605	
		36H12		002 606	
Note: For the fixation of actuators or test specimens an adapter plate for actuator flange [VPK 002 610 / VPK 002 611] is necessary.					

	Adapter plate for actuator flange			
	For the fixation of actuator Specification: Anchor bolt M30			
Description	Sizes (mm) Width x Depth x Height	Weight ≈ (kg)	Order-No. VPK ...	Technical remark
Adapter plate for actuator flange, small	600 x 600 x 45	127	002 610	In case of order the mounting face for the actuator needs to be available.
Adapter plate for actuator flange, large	950 x 950 x 45	318	002 611	

	T-slot plate			
	For the fixation of actuator or test specimens at reaction bracket. Specification: T-slots DIN 650 36H12, center space = 250mm			
Description	Sizes (mm) Width x Depth x Height	Weight ≈ (kg)	Order-No. VPK ...	Technical remark
T-slot plate, small	1.250 x 1.000 x 100	870	002 607	3 T-slots
T-slot plate, large	2.500 x 1.000 x 100	1.720	002 608	3 T-slots

Mounting material

Description	Detail	Weight ≈ (kg)	Order-No. VPK ...	Technical remark
 Collar nut	DIN 6331 - M30 Property class 10	-	VKT 000 410	-
 T-slot nut	DIN 508 - M24x28 and M30x36	-	see page 48	-
 Socket head cap screw	DIN EN ISO 4762 - M24 and M30 Property class 10.9	-	see page 48	-

Component Layout

Rocker arm 90°



For load redirectioning 90°.

Scope of supply: 1 off rocker arm 90°

Ratio: 1:1 / 1:1,5 / 1:2 (according to position of adapter plate)

Description	Grid	Order-No. VPK ...	Technical remark
Rocker arm 90°	75 x 75	002 924.075	Application up to 25kN - 65kN
	100 x 100	002 924.100	Application up to 100kN - 250kN
Note: For fixation of joints or test specimens 2 adapter plates for rocker arms 90° [VPK 002 925.xxx] are necessary.			

Adapter plate for rocker arm 90°



For fixation of a joint to the rocker arm 90°.

Scope of supply: 1 off adapter plate for rocker arm 90°

Description	Fixation ø (mm)	Order-No. VPK ...	Technical remark
Adapter plate for rocker arm 90°	ø100	002 925.025	Application up to 25kN
	ø145	002 925.065	Application up to 65kN
	ø185	002 925.100	Application up to 100kN
	ø235	002 925.250	Application up to 250kN

	Connection rod		
	For load introduction (length without ball joints). Connection to ball joint via clamped thread. Scope of supply: 1 off Connection rod		
Description	Sizes (mm)	Order-No. VPK ...	Technical remark
Connection rod	L= 250	002 919.025	Application up to 25kN
	L= 500	002 919.050	
	L= 750	002 919.075	
	L= 1000	002 919.100	
	L= 250	002 920.025	Application up to 65kN
	L= 500	002 920.050	
	L= 750	002 920.075	
	L= 1000	002 920.100	
	L= 250	002 921.025	Application up to 100kN
	L= 500	002 921.050	
	L= 750	002 921.075	
	L= 1000	002 921.100	
	L= 500	002 922.050	Application up to 160kN
	L= 750	002 922.075	
	L= 1000	002 922.100	
	L= 500	002 923.050	Application up to 250kN
	L= 750	002 923.075	
	L= 1000	002 923.100	

Socket head cap screw DIN EN ISO 4762

Additional information about their application

for MOCOKIT® 25, 65 and 65 SE all screws with tensile strength = 10.9 tightening torque = 260Nm	VKT 000 181...							
	.035	.040	.045	.050	.055	.060	.065	.070
	M16, Length ... (mm)							
	35	40	45	50	55	60	65	70
MOCOKIT® 25								
Beam on foot plate	x							
Foot plate on T-slot plate with T-slot 18H12			x					
Foot plate on T-slot plate with T-slot 22H12					x			
Universal reaction bracket on T-slot plate with T-slot 18H12					x			
Universal reaction bracket on T-slot plate with T-slot 22H12							x	
T-slot plate to universal reaction bracket							x	
MOCOKIT® 65								
Beam to beam	x							
Beam to foot plate	x							
Brace for beams to beam		x						
Stiffener bracket 45° to beam		x						
Support angle 90° to beam		x						
Brace for beams to foot plate		x						
Foot plate on T-slot plate with T-slot 18H12				x				
Foot plate on T-slot plate with T-slot 22H12						x		
Foot plate on T-slot plate with T-slot 28H12								x
Universal reaction bracket on T-slot plate with T-slot 18H12						x		
Universal reaction bracket on T-slot plate with T-slot 22H12							x	
Universal reaction bracket on T-slot plate with T-slot 28H12								x
T-slot plate to universal reaction bracket							x	

for MOCOKIT® 250, 250 SE and 400 all screws with tensile strength = 10.9 tightening torque = 820Nm	VKT 000 182...				
	.045	.055	.070	.080	.090
	M24, Länge ... (mm)				
	45	55	70	80	90
MOCOKIT® 250					
Beam to beam	x				
Beam to foot plate	x				
Brace for beams to beam	x				
Stiffener bracket 45° to beam	x				
Support angle 90° to beam	x				
Brace for to foot plate	x				
Foot plate on T-slot plate with T-slots 28H12			x		
Universal reaction bracket on T-slot plate with T-slot 28H12			x		
T-slot plate on universal reaction bracket				x	
MOCOKIT® 400					
Beam to beam		x			
Beam on foot plate		x			
Brace for beams to beam		x			
Stiffener bracket 45° to beam		x			
Support angle 90° to beam		x			
Stiffener bracket 45° on foot plate		x			
Brace for beams on foot plate		x			
Foot plate on T-slot plate with T-slot 28H12				x	
Uni. reaction bracket on T-slot plate with T-slot 28H12					x
T-slot plate to universal reaction bracket					x
T-slot plate to universal reaction bracket					x

for MOCOKIT® 600 all screws with tensile strength = 10.9 tightening torque 1 700 Nm	VKT 001 183...			
	.080	.090	.110	.120
	M30, Length ... (mm)			
	80	90	110	120
MOCOKIT® 600				
Lateral beam to beam tensile strength = 12.9	x			
Beam to bottom flange plate		x		
Stiffener support to beam	x			
Stiffener support to bottom flange plate		x		
Bottom flange plate to T-slot plate with T-slot 36H12				x
Universal reaction bracket to T-slot plate with T-slot 36H12				x
T-slot plate 36H12 to universal reaction bracket			x	

T-slot nuts DIN 508

Additional information about their application

T-slot nut DIN 508	MOCOKIT®					Order-No. VKT 000 376...
M16 x 18	25	65				.001
M16 x 22	25	65				.002
M16 x 28		65				.003
M24 x 28			250	400	600	.004
M30 x 36					600	.005

Maintenance & corrosion protection

auxiliary material

Untreated and functional areas must be covered at all times with a thin wax film. Herefore we offer:

MOCOKIT® transparent protective wax:
For cleaning and corrosion protection.

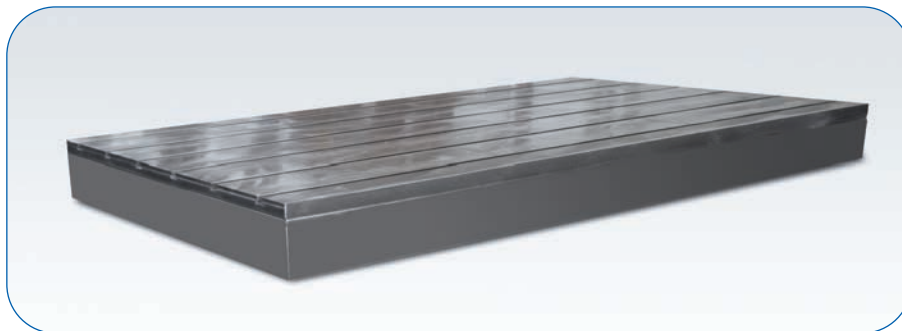
Volume: 400 ml
Order-No.: VPK 000 450



Base plates

Any test bench configuration starts on a robust and flexible baseplate. This plate guarantees a very stable and reproducible installation of the **MOCOKIT®** single components. Made of special steel casting the plates are available in different dimensions. We can install the plate into the ground floor or in a specified working height.

Furthermore CFM Schiller offers different vibration isolation systems with defined eigenfrequencies to react on the required applications and test conditions. The standard dimensions are listed below, but in case of special requirements concerning baseplate specification, please contact us for immediate support and an individual quote.



Ground plate for **MOCOKIT®**

Dimensions [mm]	T-slot DIN 650	T-slot DIN 650				Order-Nr. VPK ...
3.000 x 2.000	18H12	25	65			002 111.018
	22H12	25	65			002 111.022
	28H12		65	250	400	002 111.028
	36H12				600	002 111.036
3.000 x 3.000	18H12	25	65			002 112.018
	22H12	25	65			002 112.022
	28H12		65	250	400	002 112.028
	36H12				600	002 112.036
4.000 x 3.000	18H12	25	65			002 113.018
	22H12	25	65			002 113.022
	28H12		65	250	400	002 113.028
	36H12				600	002 113.036
4.000 x 4.000	18H12	25	65			002 114.018
	22H12	25	65			002 114.022
	28H12		65	250	400	002 114.028
	36H12				600	002 114.036
6.000 x 5.000	18H12	25	65			002 115.018
	22H12	25	65			002 115.022
	28H12		65	250	400	002 115.028
	36H12				600	002 115.036

Universal modular fixing system for actuator fixation

Technical data / Application:

- welded steel construction with various sizes and forces

Forces:

- 25 kN / 50 kN / 100 kN / 200 kN / 250 kN / 500 kN
- according to used for test frequency up to 75 Hz

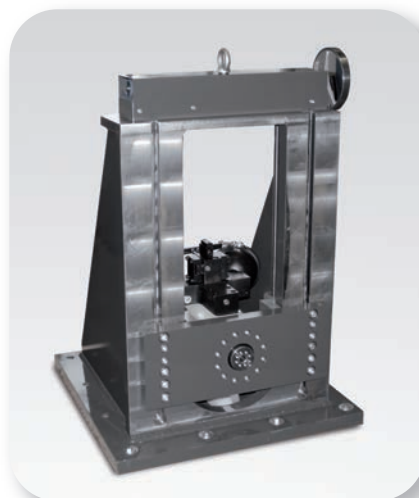
Vertical adjustment:

- 25 kN + 50 kN +/- 450 mm
- 100 kN + 200 kN +/- 450 mm
- 500 kN +/- 250 mm

- actuator flange plate for swiveling support available



Base frame bracket



Actuator flange plate
for fixed support

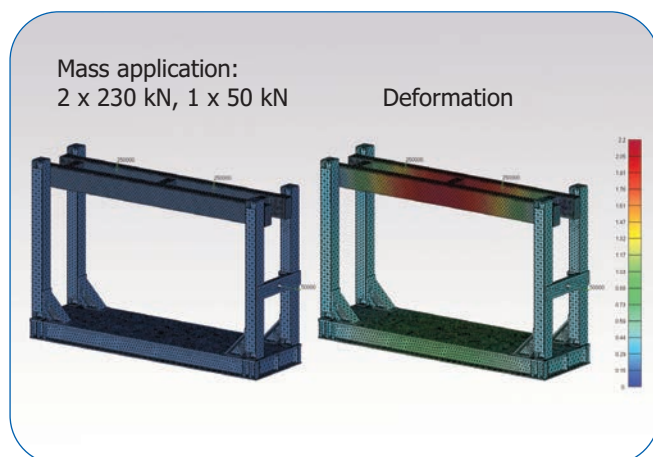


Reaction bracket with vertical
adjustment and additional
rotational axis

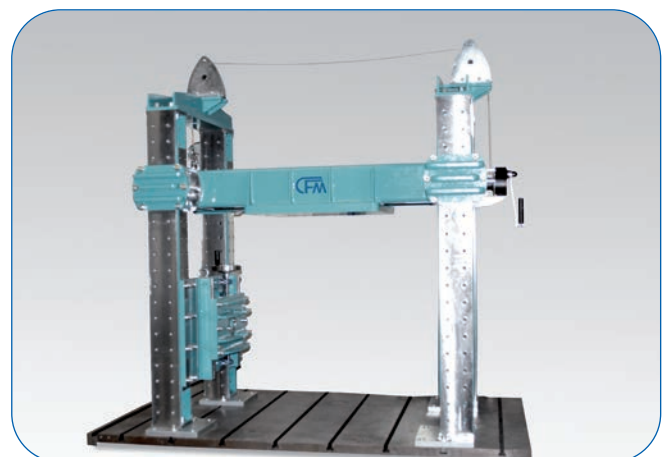
Individual solutions based on **MOCOKIT®** components

If you are uncertain about the proper layout or sizing of a test configuration please contact us as soon as possible. We can analyze your system using modern FEA analysis methods utilizing your static and dynamic test data. We work

out the individual **MOCOKIT®** configuration for your test requirements. We look forward to assist for you in your special requirements. Don't hesitate to contact us!



Example for a FEA calculation



Application of standard and special components

Notizen



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Vibration Isolation Systems
for electrodynamic shakers



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Turkey

Test Rig
Components



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