

MOCOKIT

Modular Construction Kit



Test-Rig Components

MOCOKIT 25
MOCOKIT 65
MOCOKIT 250

Smooth Solutions for a Fast Moving Market

Universal modular construction kit for static and dynamic test setups

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

Next to servohydraulic components like linear actuators and rotary actuators do you also need appropriate devices for mounting actuators and test specimen simply and safely?

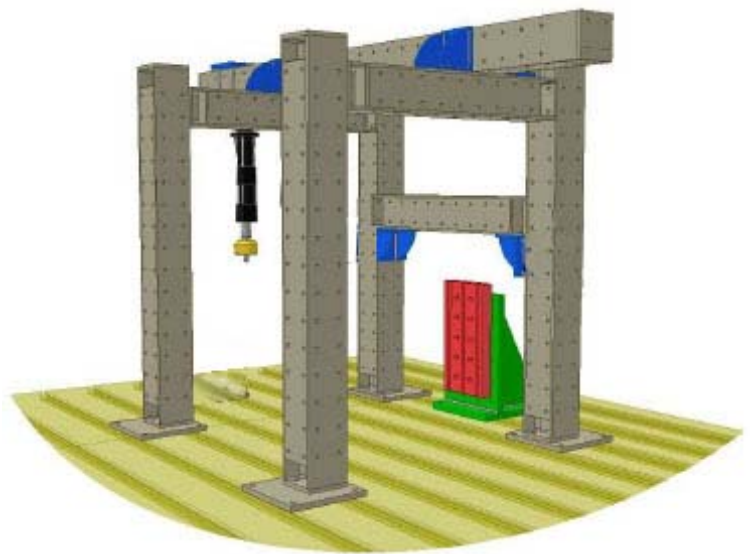
In order to keep down investment cost, modular solutions are especially useful for frequently changed test setups.

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 the demands of component tests and fulfills the demands of an up-to-date test lab in terms of stiffness, mounting and versatility.

Linear actuators and rotary actuators as well as test specimen can easily be mounted by means of specific adaptor plates, which you can either manufacture yourself or let us manufacture for you.

Various sizes, graded by their maximum permissive static load, allow you to construct test frames for forces up to 250 kN. You can get dynamic load values on request.



Design **MOCOKIT 250**

Almost all screw connections are free from backlash and positive fit designed, in order to achieve a high stiffness in reversed bending fatigue tests.

You need only a few tools to join the separate components and set up the whole construction. The design itself allows for easy handling of the various parts.

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

On request, we also offer an FE-analysis of your chosen test setup.
Additionally, we can provide you with customized flange and adaptor plates for all servohydraulic actuators available in the market.

Following are the standard available sizes:

MOCOKIT 25

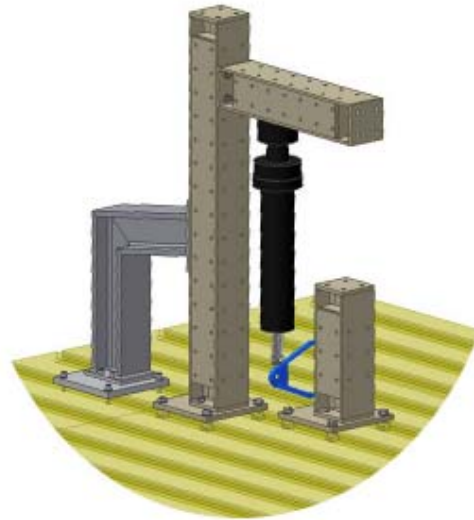
Max. static load with actuators up to 25 kN
Adjustability: stepless

MOCOKIT 65

Max. static load with actuators up to 65 kN
Adjustability: 75 mm pattern

MOCOKIT 250

Max. static load with actuators up to 250 kN
Adjustability: 100 mm pattern



Design **MOCOKIT 250**

General description

The universal modular construction kit **MOCOKIT** consists of supporting elements, angles and specific components, which you can join as desired according to a modular concept. By means of hexagon fit bolts (dowel screws) you can fix flange plates to all sides. These might be needed for fixing vertically or horizontally arranged test-rig components (e. g. actuators, test specimen or measuring instruments).

This system allows the flexible and easy mounting of test-rig components in almost any spatial arrangement. You can also employ the mounting elements for dynamic applications as well as stronger forces. In order to ensure a troublefree employment, we will -on request - analyse the resonance behavior and deformation of specific test setups by means of FE-analysis.

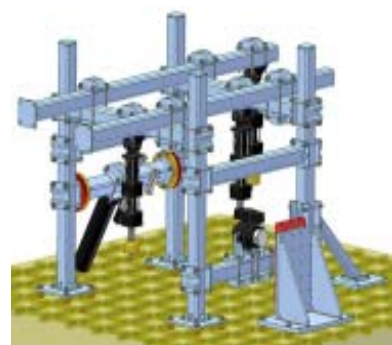
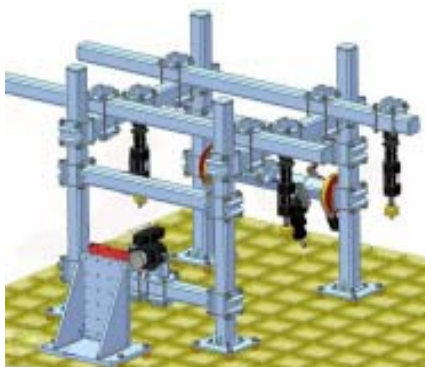
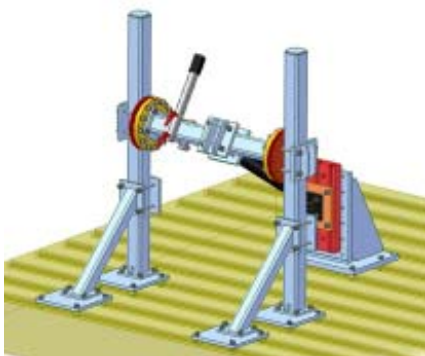
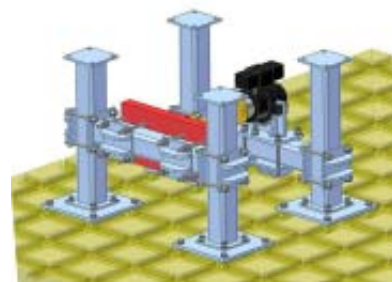
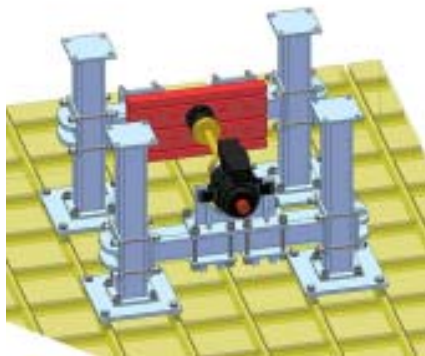
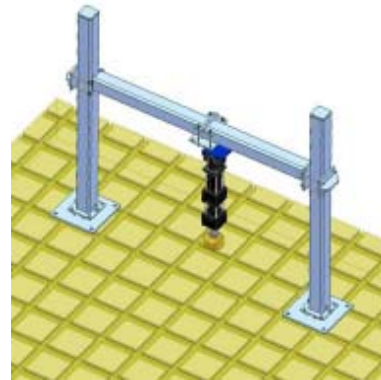
We produce the universal modular construction kit series **MOCOKIT 65** and **250** as welded steel construction completely in our premises. All surfaces are manufactured rectangular and parallel to each other, and are equipped with fit bores on the head sides and thread bores on the long sides. All parts are lacquered with the color RAL 7035.

We also produce the series **MOCOKIT 25** completely on our premises. In this series the beam elements are made from structural square tubes. These are head-on welded and delivered galvanized.

In the following you find various examples presenting the flexibility of this system. Most standard components in this catalogue are available for prompt delivery.

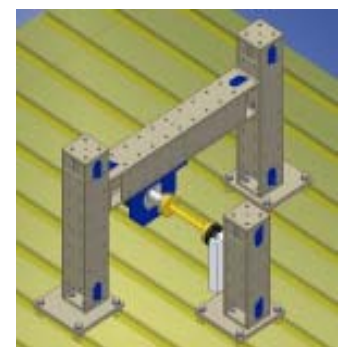
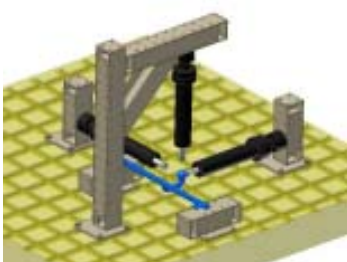
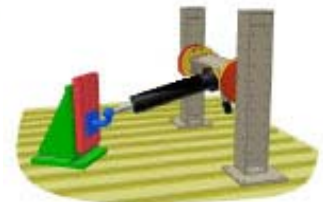
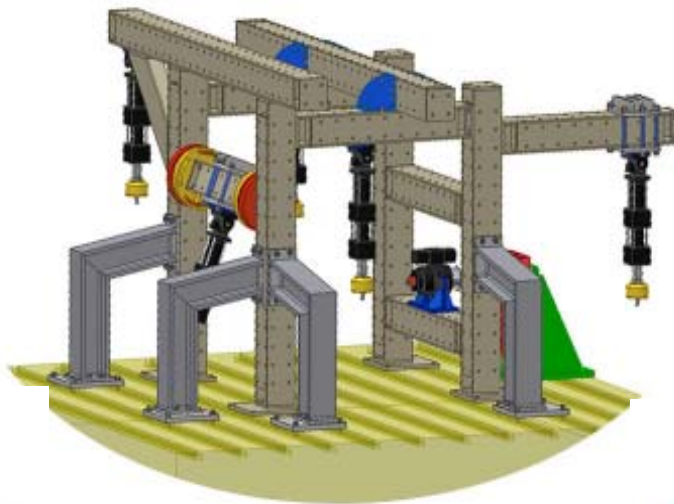
MOCOKIT 25

Examples for actuator forces up to 25 kN (static)



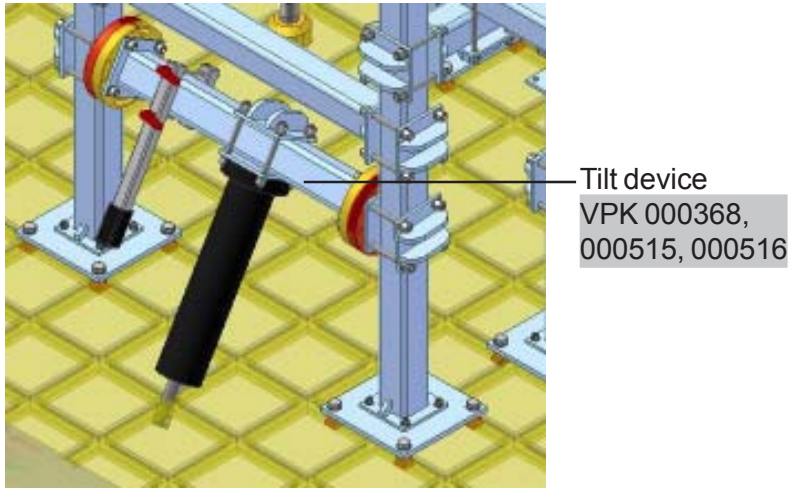
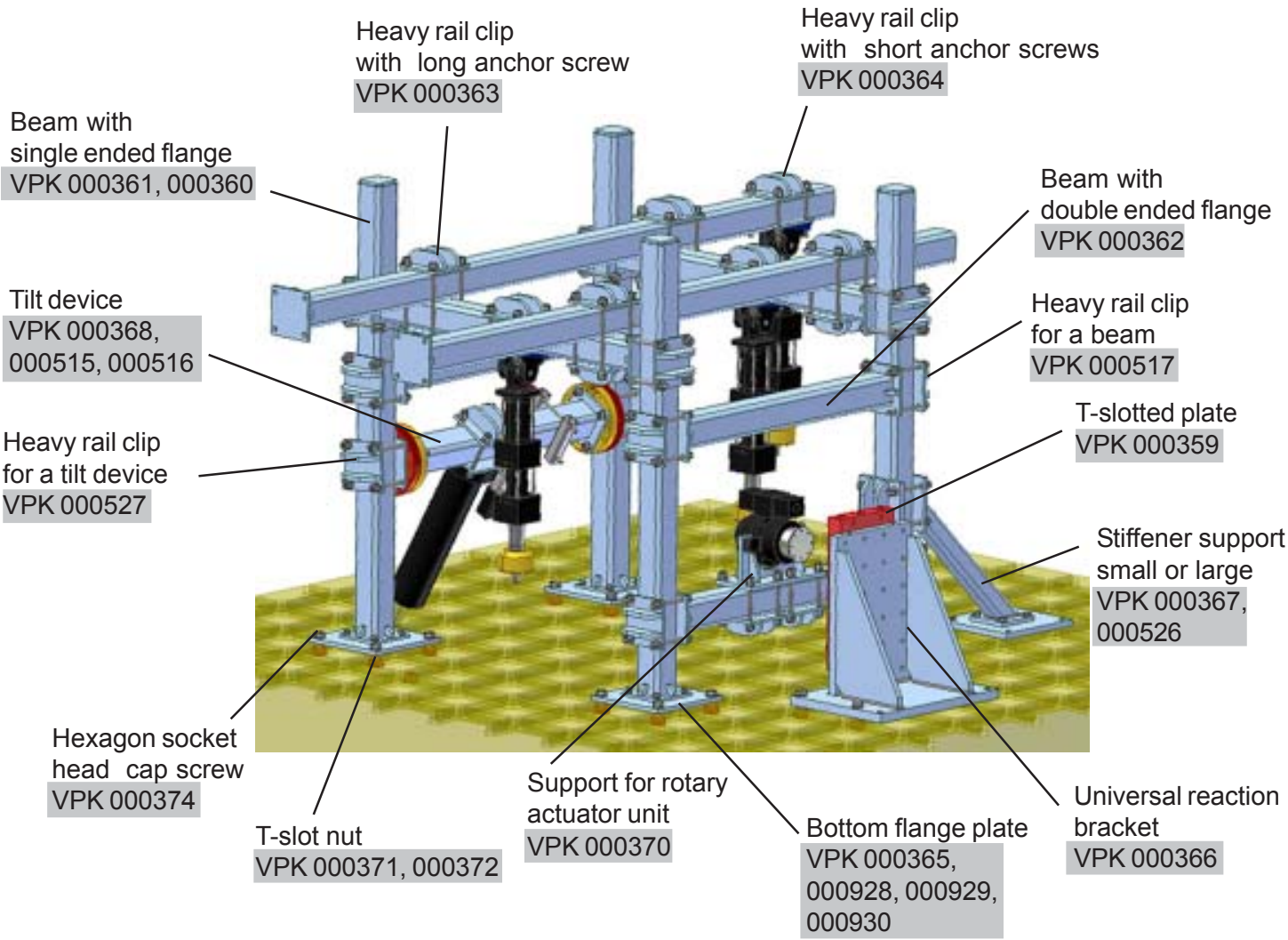
MOCOKIT

Examples for actuator forces more than 25 kN (static)



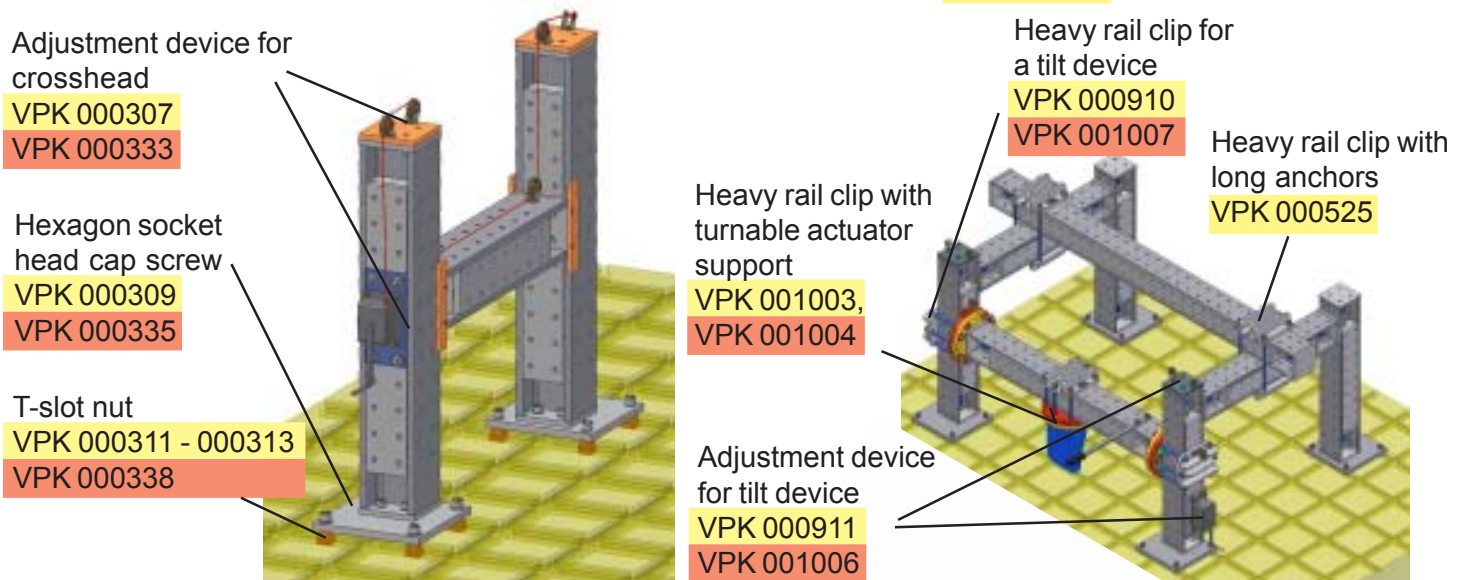
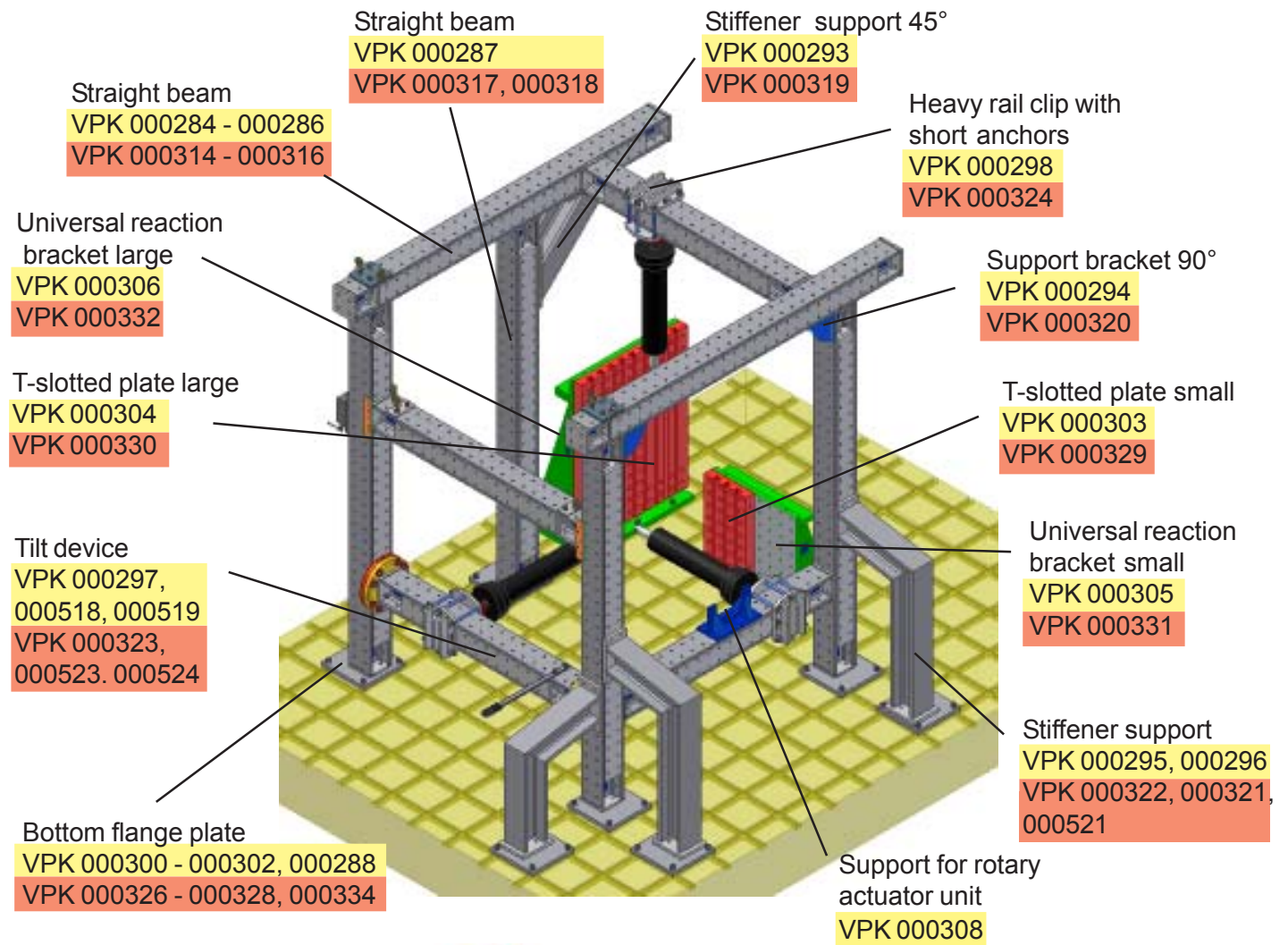
MOCOKIT 25

component layout







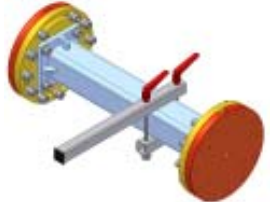



MOCOKIT 65 / 250

component layout













MOCOKIT 25

For actuator forces up to 25 kN (static)

MOCOKIT 25	Description	Sizes LxWxH Application	Moment of inertia Weight approx.	Order-No.
	Beam with double ended flange	L = 1000 mm 100 x 100 x 10 mm as a crossbeam	$I_y = 462 \text{ cm}^4$ $I_z = 462 \text{ cm}^4$ 32 kg	VPK 000 362
	Beam with single ended flange	L = 1500 mm 100 x 100 x 10 mm as a pillar	$I_y = 462 \text{ cm}^4$ $I_z = 462 \text{ cm}^4$ 44,5 kg	VPK 000 361
	Beam with single ended flange	L = 2000 mm 100 x 100 x 10 mm as a pillar	$I_y = 462 \text{ cm}^4$ $I_z = 462 \text{ cm}^4$ 58 kg	VPK 000 360
	Stiffener support 500 mm	675 x 305 x 520 mm	18 kg	VPK 000 367
	Stiffener support 1000 mm	675 x 305 x 990 mm	25 kg	VPK 000 526
	Tilt device 300° with anglescale incl. crossbeam	angular adjustment for test actuator		VPK
		L = 750 mm	80 kg	000 368
		L = 1000 mm	87 kg	000 515
		L = 1500 mm	100 kg	000 516
	Heavy rail clip with long anchors	180 x 180 mm anchors L = 260 mm M16 clamping for 2 beams	15 kg	VPK 000 363
	Heavy rail clip with short anchors	180 x 180 mm anchors L = 165 mm M16 for an actuator with an actuator base max. \varnothing 200 mm	18 kg	VPK 000 364
	Heavy rail clip	180 x 180 mm anchors L = 185 mm M16 for a beam	9 kg	VPK 000 517









MOCOKIT 25

For actuator forces up to 25 kN (static)

MOCOKIT 25	Description	Sizes LxWxH Application	Weight approx.	Order-No
	Heavy rail clip	180 x 180 mm anchors L = 165 mm M16 for a tilt device	9,5 kg	VPK 000 527
	Bottom flange plate for centerdistances	300 x 300 x 20 mm	14 kg	VPK
	of 150 mm	adjustment of upright pillars on clamping plates		000 928
	of 200 mm			000 929
	of 250 mm			000 365
	individual			000 930
	T-slotted plate	500 x 250 x 58 mm 3 T-Slots DIN 650 18 H12	47 kg	VPK 000 359
	Reaction bracket 500 mm	400 x 550 x 550 mm	118 kg	VPK 000 366
	Hexagon socket head cap screw	DIN 912 M16 strength category 10.9	-	VPK 000 374
	High-level nut with collar	DIN 6331 M16 strength category 10	-	VPK 000 373
	T-slot nut	T-slot nut 18 / M16	-	VPK 000 371
	T-slot nut	T-slot nut 22 / M16	-	VPK 000 372
	Support for rotary actuator unit (customized construction)	350 x 160 x 165 mm	9 kg	VPK 000 370







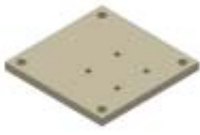
MOCOKIT 65

For actuator forces up to 65 kN (static)

MOCOKIT 65	Description	Sizes LxWxH Hole pattern and/or application	Moment of inertia Weight approx.	Order-No.
	Straight beam 750 mm	750 x 155 x 155 mm 75 x 75 mm, M16 vertical + horizontal	$I_z = 3300 \text{ cm}^4$ $I_y = 3500 \text{ cm}^4$ 75 kg	VPK 000 284
	Straight beam 1000 mm	1000 x 155 x 155 mm 75 x 75 mm, M16 vertical + horizontal	$I_z = 3300 \text{ cm}^4$ $I_y = 3500 \text{ cm}^4$ 82 kg	VPK 000 285
	Straight beam 1500 mm	1500 x 155 x 155 mm 75 x 75 mm, M16 vertical + horizontal	$I_z = 3300 \text{ cm}^4$ $I_y = 3500 \text{ cm}^4$ 152 kg	VPK 000 286
	Straight beam 2250 mm	2250 x 155 x 155 mm 75 x 75 mm, M16 Vertical pillar	$I_z = 3300 \text{ cm}^4$ $I_y = 3500 \text{ cm}^4$ 232 kg	VPK 000 287
	Stiffener support 45°	L = 725 mm 75 x 75 mm, M16	50 kg	VPK 000 293
	Support bracket 90°	155 x 161 x 170 mm 75 x 75 mm, M16	7 kg	VPK 000 294
	Support for rotary actuator unit (customized construction)	310 x 155 x 165 mm	9 kg	VPK 000 308
	Stiffener support 770 mm	575 x 180 x 770 mm vertical pillar stiffening	73 kg	VPK 000 295
	Stiffener support 1070 mm	575 x 180 x 1070 mm vertical pillar stiffening	93 kg	VPK 000 296



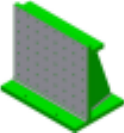








MOCOKIT 65

For actuator forces up to 65 kN (static)

MOCOKIT 65	Description	Sizes LxWxH Hole pattern and/or application	Weight approx.	Order-No.
	Tilt device 300° with anglescale incl. crossbeam	angular adjustment for actuators		VPK
		L = 750 mm	135 kg	000 519
		L = 1000 mm	150 kg	000 297
		L = 1500 mm	195 kg	000 518
	Vertical step-by-step adjustment device for tilt device		50 kg	VPK 000 911
	Heavy rail clip for tilt device	250 x 280 x 210 mm anchors L = 225 mm stepless adjustment of tilt device	17 kg	VPK 000 910
	Heavy rail clip with turnable actuator support	590 x 300 x 300 mm anchors L = 225 mm stepless adjustment of actuators	62 kg	VPK 001 003
	Heavy rail clip with short anchors	280 x 210 x 245 mm anchors L = 220 mm stepless adjustment of actuators with an actuator base max. ø 200 mm	25 kg	VPK 000 298
	Heavy rail clip with long anchors	450 x 210 x 280 mm anchors L = 375 mm stepless adjustment of actuators	30 kg	VPK 000 525
	Bottom flange plate for centerdistances			VPK
	of 150 mm	300 x 300 x 25 mm		000 300
	of 200 mm	adjustment of upright pillars on clamping plates	18 kg	000 301
	of 250 mm			000 302
	individual			000 288

MOCOKIT 65

For actuator forces up to 65 kN (static)

MOCOKIT 65	Description	Sizes LxWxH Pattern	Weight approx.	Order-No.
	T-slotted plate small	500 x 300 x 58 mm 3 T-slots / DIN 650 18 H12	58 kg	VPK 000 303
	T-slotted plate large	1000 x 750 x 58 mm 7 T-slots / DIN 650 18 H12	297 kg	VPK 000 304
	Universal reaction bracket 550 mm	400 x 600 x 550 mm	167 kg	VPK 000 305
	Universal reaction bracket 1055 mm	550 x 750 x 1055 mm	407 kg	VPK 000 306
	Vertical step-by-step adjustment device for crosshead		15 kg	VPK 000 307
	High-level nut with collar	DIN 6331 M16 strength category 10	-	VPK 000 373
	Hexagon socket head cap screw	DIN 912 M16 strength category 10.9	-	VPK 000 309
	T-slot nut	T-slot 18 / M16	-	VPK 000 311
	T-slot nut	T-slot 22 / M16	-	VPK 000 312
	T-slot nut	T-slot 28 / M16	-	VPK 000 313
	Transport bracket with eyebolt	160 x 50 x 175 mm	2,5 kg	VPK 000 520


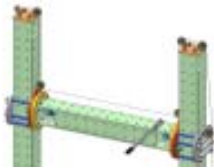

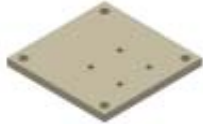
MOCOKIT 250

For actuator forces up to 250 kN (static)

MOCOKIT 250	Description	Sizes LxWxH Hole pattern	Moment of inertia Weight approx.	Order-No.
	Straight beam 500 mm	500 x 195 x 195 mm 100 x 100 mm M24 vertical + horizontal	$I_z = 7200 \text{ cm}^4$ $I_y = 8200 \text{ cm}^4$ 65 kg	VPK 000 314
	Straight beam 1000 mm	1000 x 195 x 195 mm 100 x 100 mm M24 vertical + horizontal	$I_z = 7200 \text{ cm}^4$ $I_y = 8200 \text{ cm}^4$ 127 kg	VPK 000 315
	Straight beam 1500 mm	1500 x 195 x 195 mm 100 x 100 mm M24 vertical + horizontal	$I_z = 7200 \text{ cm}^4$ $I_y = 8200 \text{ cm}^4$ 195 kg	VPK 000 316
	Straight beam 2000 mm	2000 x 195 x 195 mm 100 x 100 mm M24 Vertical pillar	$I_z = 7200 \text{ cm}^4$ $I_y = 8200 \text{ cm}^4$ 260 kg	VPK 000 317
	Straight beam 2500 mm	2500 x 195 x 195 mm 100 x 100 mm M24 Vertical pillar	$I_z = 7200 \text{ cm}^4$ $I_y = 8200 \text{ cm}^4$ 328 kg	VPK 000 318
	Stiffener support 45°	L = 750 mm 100 x 100 mm M24	68 kg	VPK 000 319
	Support bracket 90°	245 x 195 x 201 mm 100 x 100 mm M24	15 kg	VPK 000 320
	Stiffener support 740 mm	530 x 200 x 740 mm vertical pillar stiffening	90 kg	VPK 000 322
	Stiffener support 1040 mm	530 x 200 x 1040 mm vertical pillar stiffening	120 kg	VPK 000 321
	Stiffener support 1540 mm	530 x 200 x 1540 mm vertical pillar stiffening	162 kg	VPK 000 521



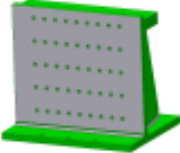






MOCOKIT 250

For actuator forces up to 250 kN (static)

MOCOKIT 250	Description	Sizes LxWxH Application	Weight approx.	Order-No.
	Tilt device 300° with anglescale incl. crossbeam	angular adjustment for test actuator		VPK
		L = 1000 mm	185 kg	000 323
		L = 1500 mm	253 kg	000 523
		L = 2000 mm	320 kg	000 524
	vertical step-by- step adjustment device for tilt device		75 kg	VPK 001 006
	Heavy rail clip for tilt device	290 x 275 x 403 mm anchors L = 277 mm stepless positioning of actuators	28 kg	VPK 001 007
	Heavy rail clip with turnable actuator device	690 x 380 x 403 mm anchors L = 277 mm stepless positioning of actuators with an actuator base max. ø 270 mm	110 kg	VPK 001 004
	Heavy rail clip with short anchors	403 x 275 x 290 mm anchors L = 277 mm stepless positioning of actuators	48 kg	VPK 000 324
	Bottom flange plate for centerdistances			VPK
	of 150 mm	300 x 300 x 30 mm		000 326
	of 200 mm	adjustment of upright pillars on clamping plates	20,5 kg	000 327
	of 250 mm			000 328
	individual			000 334

MOCOKIT 250

For actuator forces up to 250 kN (static)

MOCOKIT 250	Description	Sizes LxWxH Pattern	Weight approx.	Order-No.
	T-slotted plate small	500 x 300 x 80 mm 3 T-slots / DIN 650 28 H12	69 kg	VPK 000 329
	T-slotted plate large	1000 x 750 x 80 mm 7 T-slots / DIN 650 28 H12	360 kg	VPK 000 330
	Universal reaction bracket 550 mm	480 x 600 x 550 mm	245 kg	VPK 000 331
	Universal reaction bracket 1055 mm	580 x 750 x 1055 mm	476 kg	VPK 000 332
	Vertical step-by-step adjustment device for crosshead		22 kg	VPK 000 333
	High-level nut with collar	DIN 6331 M24 strength category 10	-	VPK 000 375
	Hexagon socket head cap screw	DIN 912 M24 strength category 10.9	-	VPK 000 335
	T-slot nut	T-slot 28 / M24	-	VPK 000 338
	Transport bracket with eyebolt	180 x 50 x 175 mm	2,8 kg	VPK 000 522

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