

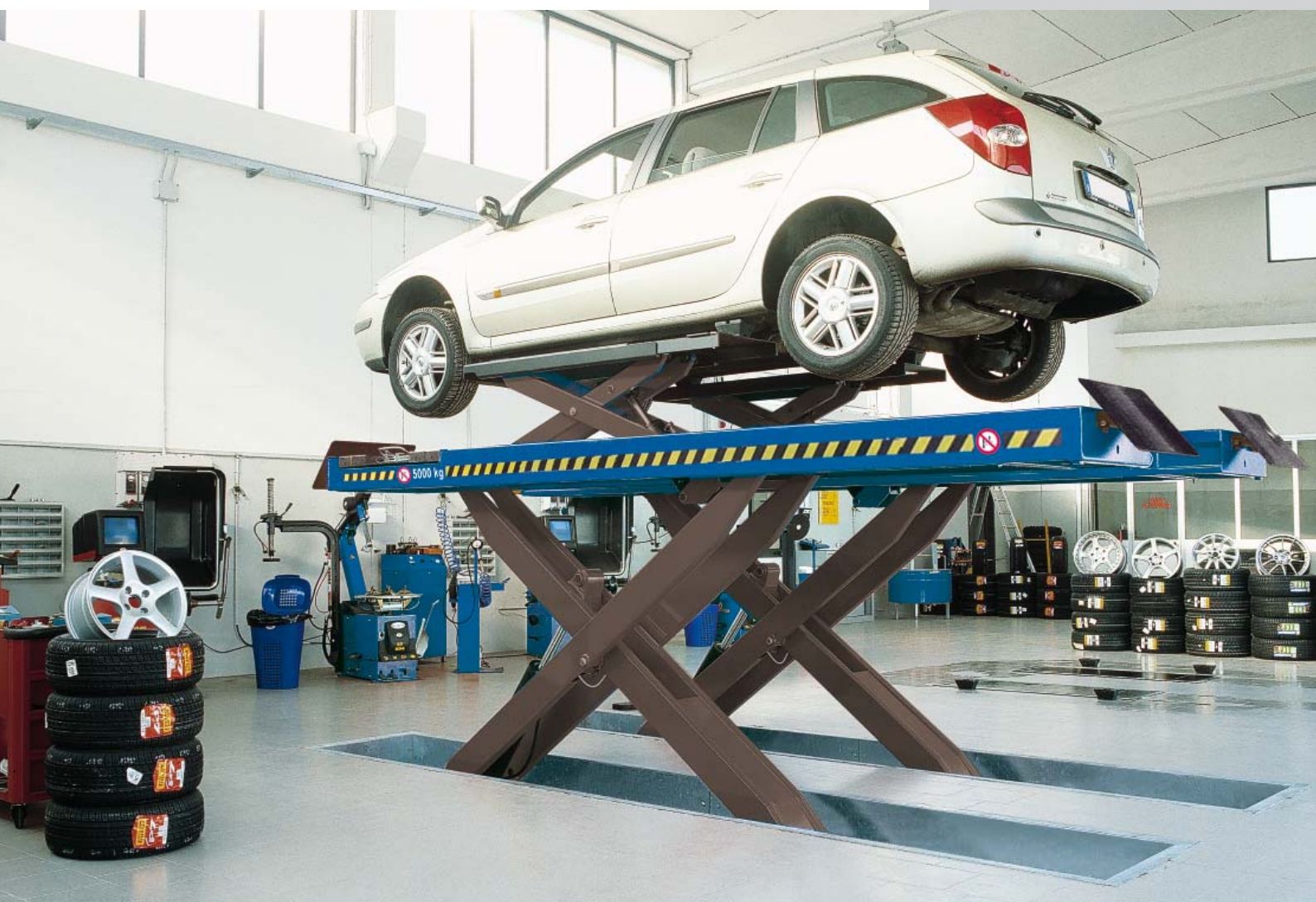
Scissors Lifts

for passenger cars and vans
up to 5.0 t gross weight



Quality control and certification
according to DIN EN ISO 9001

Models: ▶ Servicelift I · ▶ Servicelift II 3.0, 4.0, 5.0 · ▶ DUO 3.5
▶ DUO+1 · ▶ DUO 4.7 · ▶ DUO W · ▶ DUO GN · ▶ DUO GN WA
▶ Geolift 4.0, 5.0



- ▶ Rugged, compact design
- ▶ Electrostatic powder coating and cavity sealing
- ▶ Surface mounted and flush mounted versions
- ▶ CE design certification

Premium Workshop
Equipment

3,0 t

Scissors Lift Model: Servicelift I

for passenger cars and vans up to 3.0 t gross weight
The standard model for vehicle reception and service work



Servicelift I · Features

- ▶ Low drive-on height
- ▶ No connection shaft: easy and safe access, no stumbling hazard
- ▶ Safe runway synchronization by master/slave system
- ▶ Pinch point protection by light barrier or protection bar
- ▶ Manual lowering function

3,0/4,0/5,0 t

Scissors Lift

Model: Servicelift II 3.0 A/U, 4.0 A/U, 5.0 A/U

for passenger cars and vans up to 5.0 t gross weight

The runway lift with very low drive-on height, for all workshop demands, vehicle reception, service work and wheel alignment



Very low drive-on height



Patented support system for lifting operations from bottom position



Space saving design with short drive-on ramps

Servicelift II 3.0 A/U, 4.0 A/U, 5.0 A/U · Features

- ▶ Very low drive-on height by patented cylinder support system
- ▶ No connection shaft: easy and safe access, no stumbling hazard
- ▶ Synchronized operation and high safety level by patented twin master/slave system
- ▶ Automatic runway synchronization
- ▶ High lateral stability by special scissors arm profile
- ▶ Manual lowering function
- ▶ Wheel alignment unit (optional with Servicelift II 4.0 A/U / Servicelift II 5.0 A/U)

3,5 t

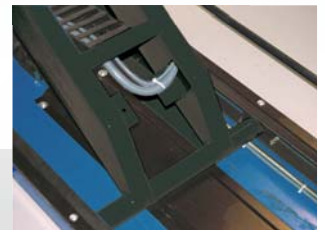
Scissors Lift Model: DUO 3.5

for passenger cars and vans up to 3.5 t gross weight

The universal runway lift for all workshop demands, vehicle reception, service work and wheel alignment



Maintenance-free cylinder support system



Cables and hoses ideally protected by installation inside scissors tubes

DUO 3.5 · Features

- ▶ Electronic runway synchronization
- ▶ No connection shaft: easy and safe access, no stumbling hazard
- ▶ Variable installation width
- ▶ Easy drive-on/drive-off by inclinable runways (optional with surface mounted lifts)
- ▶ High safety level by electronically controlled service and safety functions
- ▶ Manual lowering function (optional)
- ▶ High measuring accuracy by precision-milled serrated cylinders: lift can be set on mechanical locks in increments of 100 mm; perfect repeat accuracy for wheel alignment
- ▶ Exactly horizontal runways for wheel alignment
- ▶ Both runways independently adjustable (accuracy approx. 1/10 mm)

4,2 t / 4,7 t

Scissors Lift

Model: DUO W / DUO+1

**DUO 4.7 (Test Lane Lift with Axle Play Detector PMS, Lifting capacity 4,7 t,
Runaway length 5,2 m)**

for passenger cars and vans up to 4.7 t gross weight

The universal, heavy-duty runway lift for service work and vehicle inspection



Hydraulic Axle Play Detector
PMS 3/X(L), (optional)



Maintenance-free
cylinder support
system



Cables and hoses ideally
protected by installation inside
scissors tubes

DUO W / DUO + 1 / DUO 4.7 · Features

- ▶ Runway synchronization by torsion shaft
- ▶ Easy drive-on/drive-off by inclinable runways (optional with surface mounted lifts)
- ▶ Pinch point protection and synchronization check by light barrier
- ▶ Manual lowering function (optional with DUO W, standard equipment with DUO+1 and DUO 4.7)
- ▶ High measuring accuracy by precision-milled serrated cylinders: lift can be set on mechanical locks in increments of 100 mm; perfect repeat accuracy for wheel alignment
- ▶ Exactly horizontal runways for wheel alignment
- ▶ Both runways independently adjustable (accuracy approx. 1/10 mm)
- ▶ Scissors pins supported in synthetic bearings
- ▶ High-performance motors
- ▶ High throughput possible by shortened raising/lowering time of 20 s or 12 s (optional)

4,2 t

Scissors Lift

Model: DUO GN / DUO GN WA (Precision Wheel Alignment Lift)

for passenger cars and vans up to 4.2 t gross weight

The universal, heavy-duty runway lift without connection shaft for service work and vehicle inspection



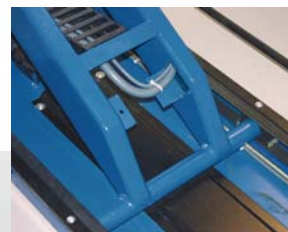
Slip plate, rotational movement +/- 5°, lateral movement +/- 50 mm (Option)



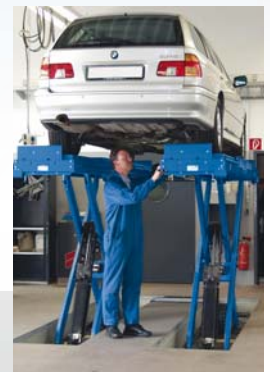
Precision holder for measuring tools and test position control system MKS (Option)



Maintenance-free cylinder support system



Cables and hoses protected through installation inside scissors tubes



Generous lifting height of approx. 2.1 m: ideally suited for installation in strip foundation

DUO GN / DUO GN WA · Features

- ▶ No connection shaft: easy and safe access, no stumbling hazard
- ▶ Variable installation width
- ▶ Easy drive-on/drive-off by inclinable runways (optional with surface mounted lifts)
- ▶ High safety level by electronically controlled service and safety functions
- ▶ Manual lowering function (optional)
- ▶ Pinch point protection and synchronization check by light barrier
- ▶ High measuring accuracy by precision-milled serrated cylinders: lift can be set on mechanical locks in increments of 100 mm; perfect repeat accuracy for wheel alignment
- ▶ Exactly horizontal runways for wheel alignment
- ▶ Both runways independently adjustable (accuracy approx. 1/10 mm)
- ▶ Scissors pins supported in synthetic bearings
- ▶ High-performance motors
- ▶ High throughput possible by shortened raising/lowering time of 20 s or 12 s (optional)

4,0/5,0 t

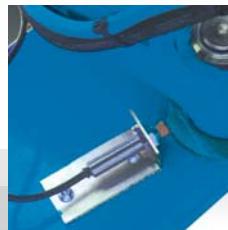
Scissors Lift

Model: Geolift 4.0 U, 5.0 U

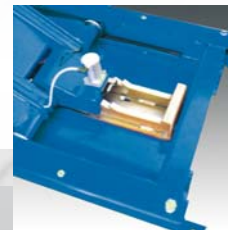
for passenger cars and vans up to 5.0 t gross weight
The wheel alignment runway lift for heavy vehicles



Various possibilities for adjustment
(pic. Geolift 5.0 U)



Safety functions and height detection by inductive sensors



Locking device for wheel alignment, high safety level
(pic. Geolift 5.0 U)



Slip plates with pneumatic locking device
(pic. Geolift 5.0 U)

Geolift 4.0 U, 5.0 U · Features

- ▶ Especially suited for flush installation
- ▶ Preselection of two different working heights (only with Geolift 5.0 U)
- ▶ Automatic runway synchronization
- ▶ Synchronization check by light barrier and reflector
- ▶ Locking device for wheel alignment, high safety level
- ▶ Wheel-free jack (optional) and lift have the same load capacity
- ▶ Manual lowering function

	Servicelift I	Servicelift II 3.0 A	Servicelift II 3.0 U	DUO 3.5	Servicelift II 4.0 A	Servicelift II 4.0 U	Geolift 4.0 U	DUO GN	DUO GN WA	DUO W	DUO +1	DUO 4.7	Servicelift II 5.0 A	Servicelift II 5.0 U	Geolift 5.0 U
Load capacity CE	3,0 t	3,0 t	3,0 t	3,5 t	4,0 t	4,0 t	4,0 t	4,2 t	4,2 t	4,2 t	4,2 t	*4,7 t	5,0 t	5,0 t	5,0 t
Surface mounted	++	++	-	++	++	-	+	++	++	++	++	-	++	-	+
Flush mounted	++	-	++	++	-	++	++	++	++	++	++	++	-	++	++
Flush mounted in strip foundation	-	-	-	++	-	-	-	++	++	-	-	-	-	-	-
Connection shaft between scissors															
Shortened raising/lowering time	-	-	-	-	-	-	-	O	O	O	S	S	-	-	O
Axle jack 2,2 t	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O
Axle jack 2,7 t	-	-	-	-	-	-	-	-	-	-	-	-	O	O	O
Strip foundation floor cover for axle jack	-	-	-	O	-	-	-	O	O	-	-	-	-	-	-
Automatic roll-off protection	-	-	-	-	-	-	-	O	-	-	-	-	-	-	-
Automatic synchronization	O	S	S	S	S	S	S	S	S	S	S	S	S	S	S
Wheel-free jack 3,0 t	O	O	O	-	-	-	-	-	-	-	-	-	-	-	-
Wheel-free jack 3,5 t	-	-	-	O	O	O	-	O	O	O	O	O	O	O	-
Wheel-free jack 4,0 t	-	-	-	-	-	-	O	-	-	-	-	-	-	-	-
Wheel-free jack 5,0 t	-	-	-	-	-	-	-	-	-	-	-	-	-	-	O
Lighting 2x	O	-	-	O	-	-	-	O	O	O	O	-	-	-	-
Lighting 4x	-	O	O	O	O	O	O	O	O	O	O	S	O	O	O
Shockproof socket	O	-	-	O	-	-	-	O	O	O	O	O	-	-	-
Lowering device and wheel alignment unit	-	-	-	O	O	O	S	O	S	O	O	-	-	-	S
Test position control system MKS	-	-	-	O	-	-	-	O	O	O	O	-	-	-	-
External control unit	O	O	O	O	O	O	O	O	-	O	O	-	O	O	O
Axle play detector	-	-	-	-	-	-	O	O	-	O	O	S	-	-	O
Runway inclination	-	-	-	O	-	-	-	O	O	O	O	-	-	-	-
Manual lowering function	S	S	S	O	S	S	S	O	O	O	S	S	S	S	S
Granulate coating for runaways	O	-	-	O	-	-	-	O	-	O	S	S	-	-	-
Runaway grating for flush mounted version	-	-	-	O	-	-	-	O	O	O	O	-	-	-	-
Vehicle manufacturers' approval	-	-	-	-	-	-	-	++	-	++	++	-	-	-	++
Special coating	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O
Galvanized	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O
Baseplate	-	-	-	-	-	-	O	-	-	-	-	-	-	-	O

* in combination with wheel free jack 4,2 t

Key: **S** Standard
O Option
++ Suitable
+ Partly suitable
- Unsuitable/Unavailable

Load capacity up to 4,0 t A = Surface mounted, U = Flush mounted	ServiceLift I	ServiceLift II 3.0 A	ServiceLift II 3.0 U	DUO 3.5	ServiceLift II 4.0 A	ServiceLift II 4.0 U	Geolift 4.0 U
	Load capacity CE	3,0 t	3,0 t	3,0 t	3,5 t	4,0 t	4,0 t
Overall dimensions in mm (Runway standard length)	5.000 x 2.075 (surf. mtd)	4.500 x 2.200	4.000 x 2.230	6.000 x 2.075 (surf. mtd)	4.900 x 2.230 *(2.266)	4.200 x 2.230 *(2.266)	4.200 x 2.230
Runway dimensions Standard in mm	4.000 x 617	4.000 x 660	4.000 x 660	4.400 x 617	4.200 x 660 *(708)	4.200 x 660 *(708)	4.200 x 688
Runway length Optional in mm	4.400	-	-	4.800	*4.800	*4.800	4.800
Drive-on height in (w/o accessories)	180 (surf. mtd)	125	-	225 (surf. mtd)	145 *(195)	-	360 (surf. mtd)
Lifting height max. in mm	1.900	2.000	1.875	2.075	2.000	1.855	1.900
Raising/Lowering time approx. in s	35 / 35	50 / 40	50 / 40	50 / 50	50 / 40	50 / 40	40 / 40
Extension length Wheel-free jack (optional)	1.400 - 2.100	1.550 - 1.970	1.550 - 1.970	1.400 - 2.100	1.550 - 1.970	1.550 - 1.970	1.350 - 2.100
Pinch point protection	Light barrier / Bar	Audible signal	Audible signal	Light barrier	Audible signal	Audible signal	Audible signal
Motor power in kW	2,5	3,0	3,0	2,5	4,0	4,0	3,0
Reservoir capacity in l	30	20	20	40	22	22	30
Supply voltage in V (Hz)	3 x 400 (50)	3 x 400 (50)	3 x 400 (50)	3 x 400 (50)	3 x 400 (50)	3 x 400 (50)	3 x 400 (50)
Shipping weight incl. packing in kg	2.700	1.200	1.200	2.700	1.300	1.300	2.600
Shipping dimensions approx. in mm (Runway standard length)	4.100 x 800 x 800	4.000 x 600 x 650	4.000 x 600 x 650	4.500 x 800 x 800	4.400 x 600 x 650	4.400 x 600 x 650	4.300 x 700 x 700

Load capacity up to 5,0 t A = Surface mounted, U = Flush mounted	DUO GN	DUO GN WA	DUO +1	DUO W	DUO 4.7	ServiceLift II 5.0 A	ServiceLift II 5.0 U	Geolift 5.0 U
	Load capacity CE	4,2 t	4,2 t	4,2 t	4,2 t	4,7 t	5,0 t	5,0 t
Overall dimensions in mm (Runway standard length)	5.600 x 2.075	6.000 x 2.075	5.600 x 2.075	5.600 x 2.075	6.900 x 2.075	5.500 x 2.230 *(2.266)	4.800 x 2.230 *(2.266)	4.800 x 2.100
Runway dimensions Standard in mm	4.000 x 617	4.400 x 617	4.000 x 617	4.000 x 617	5.200 x 617	4.800 x 660 *(708)	4.800 x 660 *(708)	4.800 x 660
Runway length Optional in mm	4.400 / 4.800	4.800 / 5.200	4.400 / 4.800	4.400 / 4.800	-	**5.200	**5.200	***5.200
Drive-on height in (w/o accessories)	225 (surf. mtd)	280 (surf. mtd)	225 (surf. mtd)	225 (surf. mtd)	280 (surf. mtd)	165 *(215)	-	360 (surf. mtd)
Lifting height max. in mm	2.075	2.125	2.075	2.075	2.075	2.000	1.815	1.900
Raising/Lowering time approx. in s	45 / 45	45 / 45	25 / 25	50 / 50	25 / 25	50 / 40	50 / 40	40 / 40
Extension length Wheel-free jack (optional)	1.400 - 2.100	-	1.400 - 2.100	1.400 - 2.100	1.400 - 2.100	1.550 - 1.970	1.550 - 1.970	1.350 - 2.100
Pinch point protection	Light barrier	Light barrier	Light barrier	Light barrier	Light barrier	Audible signal	Audible signal	Audible signal
Motor power in kW	2,5	2,5	5,5	2,5	5,5	4,0	4,0	3,0
Reservoir capacity in l	40	40	40	40	40	25	25	25
Supply voltage in V (Hz)	3 x 400 (50)	3 x 400 (50)	3 x 400 (50)	3 x 400 (50)	3 x 400 (50)	3 x 400 (50)	3 x 400 (50)	3 x 400 (50)
Shipping weight incl. packing in kg	2.700	2.700	2.700	2.700	3.500	1.400	1.400	2.750
Shipping dimensions approx. in mm (Runway standard length)	4.100 x 800 x 800	4.500 x 800 x 800	4.100 x 2.400 x 480	4.100 x 2.400 x 480	5.300 x 2.400 x 480	5.000 x 700 x 650	5.000 x 700 x 650	4.800 x 700 x 700

* with wheel alignment set

** with wheel alignment set and wheel free jack

*** with wheel free jack



Options and Accessories for the DUO Series:



Slip plate, rotational movement +/- 5°, lateral movement +/- 50 mm



Precision holder for measuring tools and test position control system MKS



Large axle jack extension makes it possible to lift the axle with the wheel suspension in unloaded condition



Wheel-free jack raises complete vehicle when positioned on runways



Pneumatic floor cover for strip foundation



Easy drive-on/drive-off by hydraulic or mechanical runway inclination for surface mounted lift



Automatic roll-off protection



Hydraulic axle play detector PMS, optional with cable or infrared hand lamp



Cable or radio controlled hand lamp for axle play detector



Various compensation and support plates



Runway lighting (four tubes)



Manual lowering function

Options and Accessories for Model Geolift:



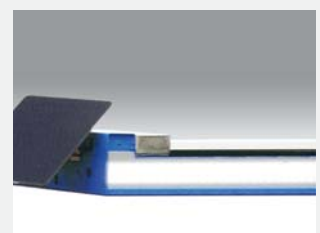
Axle play detector with cable hand lamp



Remote control



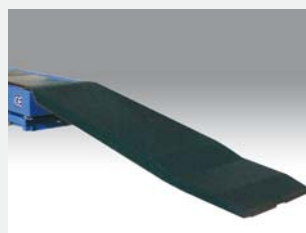
Four ductile spacer blocks 90 x 132 x 340 mm



Integrated lighting, four tubes (24 V)



Installation frames

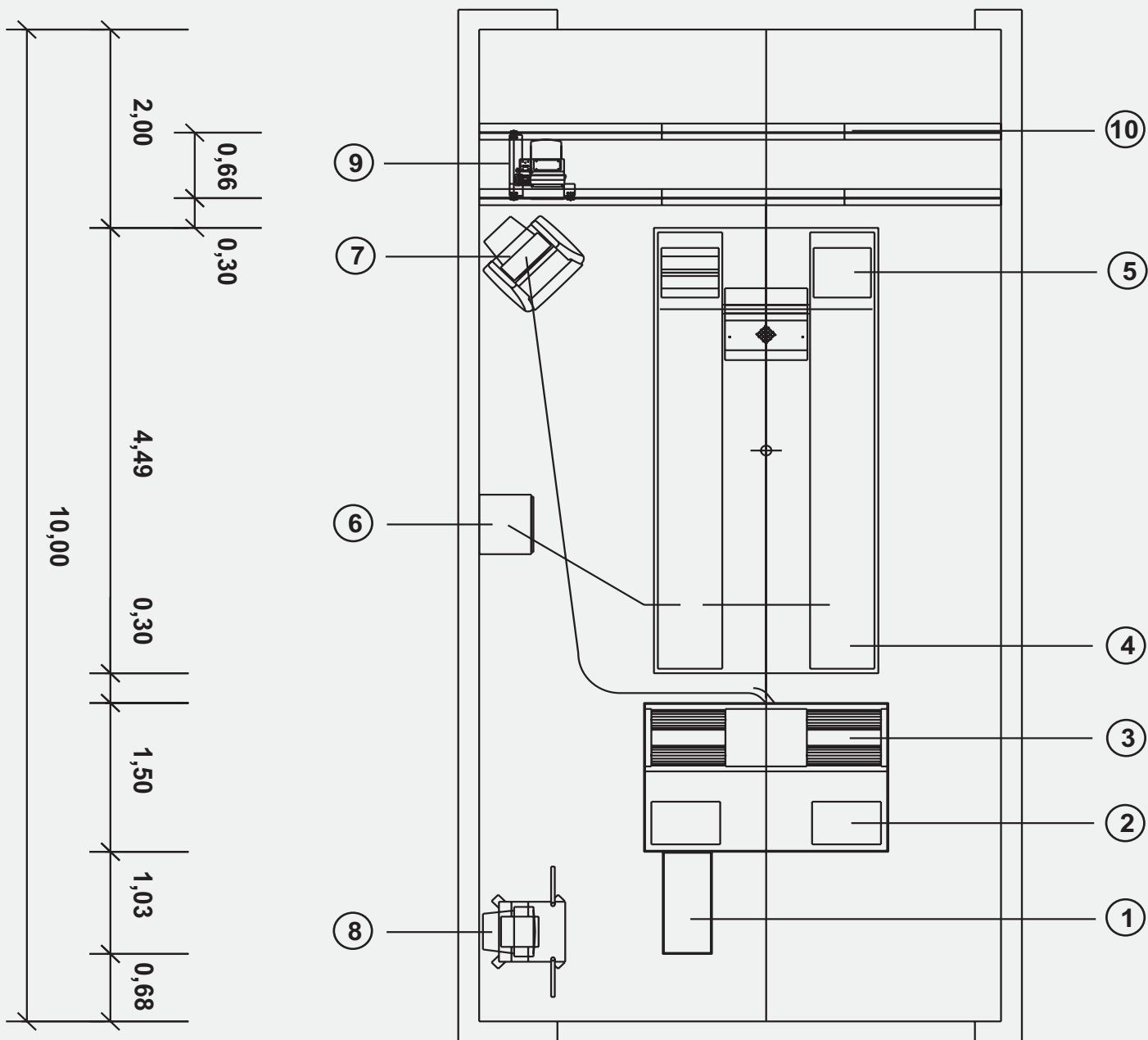


Drive-on ramps (2 m) for surface mounted lift

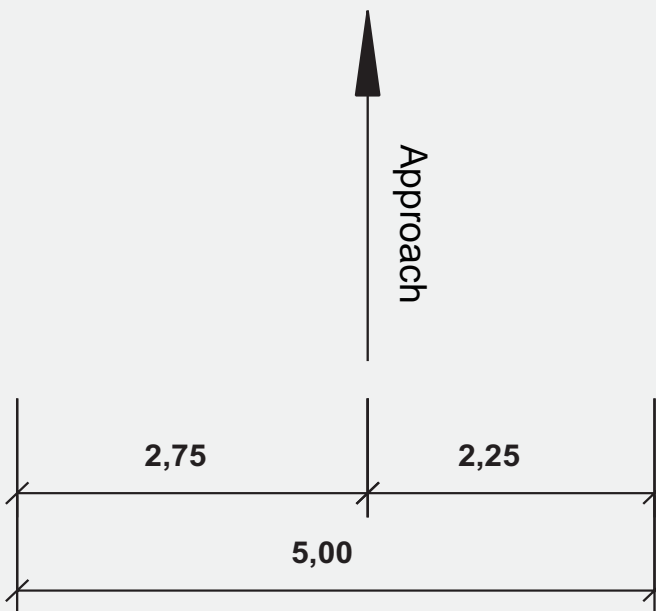


Wheel-free jack with large extension (1.35 - 2.1 m), same capacity as lift

Layout of Test Lane (Example):



- 01 - Side-slip tester MINC
- 02 - Shock absorber tester SA2D/FWT
- 03 - Brake tester IW 2
- 04 - Scissors lift DUO
- 05 - Axle play detector PMS
- 06 - Control desk for Scissors lift DUO
- 07 - Communication desk Eurosystem
- 08 - Emission tester (mobile)
- 09 - Headlight tester LITE
- 10 - Slide rails for Headlight tester LITE





MAHA Automotive Lift Product Range:



Twin/Short-Stroke Scissors Lifts, Model: SOLO/TWIN



Two Post Lift, Model: ECON III



Two Post Hydraulic Lift, Model: HL 9000



Two Post Lift, Model: ECON 5001/6500



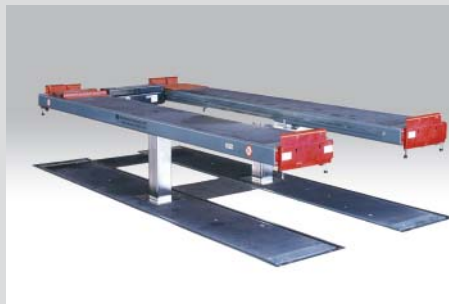
Four Post Lift, Model: Cariift 4.1



Two Post In-Ground Lift, Model: ZS 94 / ZS MATOP



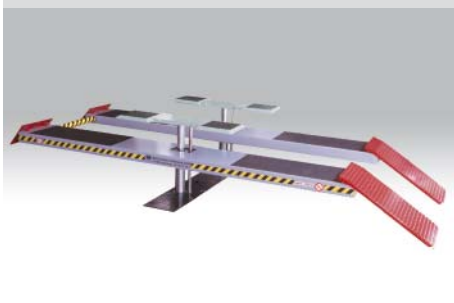
Two Post In-Ground Lift, Model: ZS 5



Two Post In-Ground Lift, Model: ZS Square



Four Post In-Ground Lift, Model: VS Square 5.0



Two Post In-Ground Lift, Model: ZS Vario



Pit Jacks



Mobile Column Lift, Model: RGE

Production Program:

Testing Technology for Cars, Trucks, Motorcycles, Tractors, Forklifts, Aircraft · Roller Brake Testers · Platform Brake Testers · Shock Absorber and Suspension Testers · Side-Slip Testers · Play Detectors · Roller Dynamometers for Performance and Function Testing · Speedometer Testers · Tachograph and Taximeter Testers · Axle and Wheel Load Scales · Scissors Lifts · Two- and Four-Post Lifts · In-Ground Lifts · Pit Jacks · Axle and Transmission Jacks · Mobile Column Lifts · Headlight Testers · Diesel Smoke Meters · Emission Testers for Petrol and Gas Engines · Sound Level Meters · Air Conditioning Service Equipment · Decelerometers · Closing Force Meters · Brake Fluid Testers · Complete Test Lanes for Cars and Trucks · Mobile Test Containers · Wheel Alignment Analysers · Wheel Balancers · Tyre Changers.

Additional Services: Workshop Design and Planning · Training Seminars for Users and Service Technicians



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