



AUTO EQUIPMENT & ENGINEERING

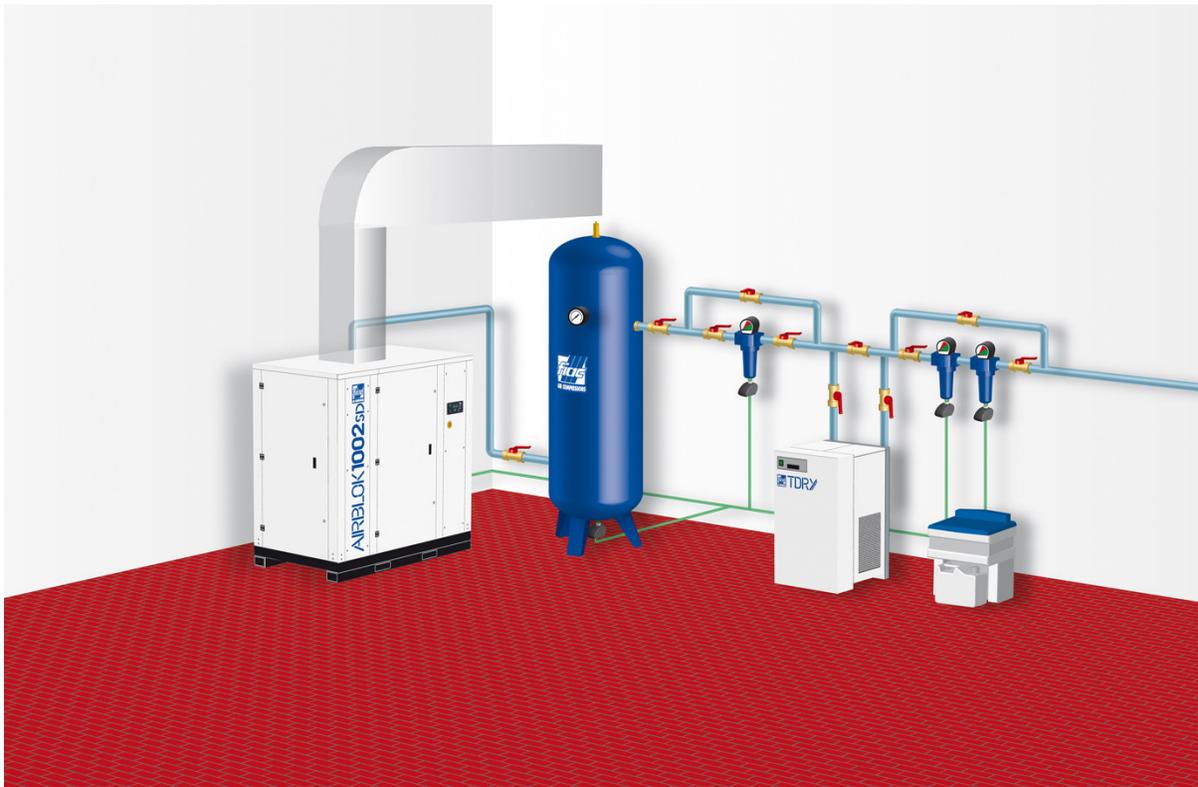
捷高汽修設備工程有限公司 JAPCO AUTO EQUIPMENT & ENGINEERING CO.,LTD.

香港九龍九龍灣啟祥道 20 號 20 KAI CHEUNG ROAD, KOWLOON BAY, KOWLOON, HONG KONG. TEL: (852) 2768 2988 FAX: (852) 2707 9121

Object: Equipment lists of the EMSD Replacement of Air Compressor System

I. The Air Compressor System:

- A) EMSD Tuen Mun Depot
- B) EMSD Fan Garden Depot
- C) EMSD Caroline Hill Depot



大昌行集團成員
A member of the DCH Group

A) EMSD Tuen Mun Depot

N.1 Silent encapsulated roary screw compressor

Model CRSD 15/500 13bar



TECHNICAL DATA		
Max pressure	bar	13
Free Air Delivered ISO 1217 Ed.1996 Annex C r	l/min	1130
	m3/h	68
	C.F.M.	40
Motor nominal power	HP/KW	15/11
Motor speed	RPM min ⁻¹	2930
Air end Rotor speed	RPM min ⁻¹	4380
Tension/frequency/phasi	Volt/Hz/ph	400/50/3
Nominal current	Ampere	55
Insulation class		F
IP		55
Service factor		S1
Brand/model		FIAC 112 md/2
Efficiency motor		Eff 1
Cooling		AIR
Cooling capacity	m3/ora	6500
AIR RECEIVER	litre	500
DRYER		
Air Flow	l/min	1800
Differential pressure	bar	0,2
Dew point	°C	3
Outlet air joint	G	1" G
Pre-filter	Micron	1
Post-filter	Micron	0,1
Tension/frequency/phase	V/HZ/Ph	230-240/50/1
Conditions of technical data rate		

Inlet air pressure	bar (a)	1
Ambient temperature	°C	20
Percentage humidity	%	50
Working pressure range	bar	2
Max ambient temperature	°C	40
Min ambient temperature	°C	5

N.1 Industrial Air Filter

Model FQ 2000

Max air flow rate = 2000 lt/min

Filtration level = 3 micron

Complete with accessories

(manual drain valve and differential pressure gauge)



B) EMSD Fan Garden Depot

N.1 Silent encapsulated rotary screw compressor

Model CRSD 20/500 13bar



TECHNICAL DATA

Max pressure	bar	13
Free Air Delivered ISO 1217 Ed.1996 Annex C r	l/min	1490
	m3/h	89
	C.F.M.	53
Motor nominal power	HP/KW	20/15
Motor speed	RPM min ⁻¹	2930
Air end Rotor speed	RPM min ⁻¹	4760
Tension/frequency/phasi	Volt/Hz/ph	400/50/3
Nominal current	Ampere	55
Insulation class		F
IP		55
Service factor		S1
Brand/model		FIAC 132 md/2



Efficiency motor		Eff 1
Cooling		AIR
Cooling capacity	m3/ora	6500
DRYER		
Air Flow	l/min	2100
Differential pressure	bar	0,2
Dew point	°C	3
Pre-filter	micron	1
Post-filter	micron	0,1
Outlet air joint	G	1" G
Tension/frequency/phase	V/HZ/Ph	230-240/50/1
Conditions of technical data rate		
Inlet air pressure	bar (a)	1
Ambient temperature	°C	20
Percentage humidity	%	50
Working pressure range	bar	2
Max ambient temperature	°C	40
Min ambient temperature	°C	5

N.1 Industrial Air Filter

Model FQ 2000

Max air flow rate = 2000 lt/min
 Filtration level = 3 micron
 Complete with accessories
 (manual drain valve and differential pressure gauge)



C) EMSD Caroline Hill Depot

N.2 Silent encapsulated rotary screw compressor

Model CRSD 15/500 13bar



TECHNICAL DATA		
Max pressure	bar	13
Free Air Delivered ISO 1217 Ed.1996 Annex C r	l/min	1130
	m3/h	68
	C.F.M.	40
Motor nominal power	HP/KW	15/11
Motor speed	RPM min ⁻¹	2930
Air end Rotor speed	RPM min ⁻¹	4380
Tension/frequency/phasi	Volt/Hz/ph	400/50/3
Nominal current	Ampere	55
Insulation class		F
IP		55
Service factor		S1
Brand/model		FIAC 112 md/2
Efficiency motor		Eff 1
Cooling		AIR
Cooling capacity	m3/ora	6500
AIR RECEIVER	litre	500
DRYER		
Air Flow	l/min	1800
Differential pressure	bar	0,2
Dew point	°C	3
Outlet air joint	G	1" G
Pre-filter	Micron	1
Post-filter	Micron	0,1
Tension/frequency/phase	V/HZ/Ph	230-240/50/1
Conditions of technical data rate		
Inlet air pressure	bar (a)	1
Ambient temperature	°C	20
Percentage humidity	%	50
Working pressure range	bar	2
Max ambient temperature	°C	40
Min ambient temperature	°C	5

N.1 Industrial Air Filter

Model FQ 2000

Max air flow rate = 2000 lt/min

Filtration level = 3 micron

Complete with accessories

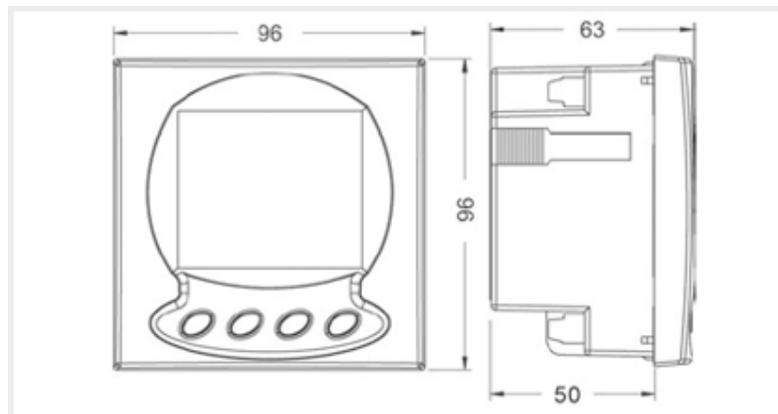
(manual drain valve and differential pressure gauge)



II. The Meter for the Control Panel:

CIRCUTOR

Three-phase power analyzer
Model CVM NGR96



Features





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	dc Version	Plus Version: ac and dc
Power supply circuit	24 Vdc (-15...+10%)	= "type_3">85...265 V ac / 95...300 V dc
AC Power supply frequency	-	50...60 Hz (ac type)
Maximum consumption (equipment with communications)	2.2 W	2 V·A
DC Power supply consumption (equipment w/o communications)	1.8 W	2 V·A
Metering circuit		
Nominal voltage		300 Vac (ph-n) / 520 Vac (ph-ph)
Frequency		45..0.65 Hz
Nominal current		In .../ 5 A
Current consumption of the circuit		0.75 V·A
Overload (permanent)		1.1 In
Class/Accuracy		
Voltage		0.5 % ± 2 digits
Current		0.5 % ± 2 digits
Power rating		1 % ± 2 digits
Ambient conditions		
Operating temperature		-10 ... +50 °C
Relative humidity		5 ... 95%
Output transistor		Optoinsulated (collector open) NPN
Maximum switching voltage		24 Vdc
Maximum switching current		50 mA
Maximum impulse frequency		5 impulse / s
Duration of the impulse		100 ms
Build features		
Type of box		VO self-extinguishing plastic
		Fitted unit (frontal): IP 51



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Spindel 2-posts lift

SMART LIFT – multitalent

2.30 SL 2.32 SL 2.32 SL MM

2.40 SL 2.40 SL MM

2.50 SL 2.50 SL DG

SMART LIFT – safety, multifunctional and persistent



For very low pick-up points



Resistant Poly-V-belt



SMART LIFT 2.30 SL for passenger cars



Door-free opening through asymmetric lifting arms



Long-lift cycle nylatron-nut:
5 years guarantee

The robust construction of SMART LIFT, as well as its fully developed technique are the results of more than 10.000 units produced in one year and about 30 years experiences in lifts production.

Reliable, long-life cycle and silent operation

Both low wear Nylatron-nuts convince through their long-life cycle and silent operation. Moreover, the resistant Poly-V-belt assures transmission with the roller tempered spindle. NUSSBAUM gives 5 years warranty to the spindle-system.

Flexibility, stability and accuracy

The solid arms are flat constructed and can lift vehicles with lowest pick points. Lifting of a widest range of vehicles from the small passenger cars to commercial vehicles. Short carrying arms can be turned by 180° and along with the true asymmetrical carriage, the doors can be completely opened.

Perfect synchronization

An electronic system guarantees silence and synchronization by lifting and lowering. No need for mechanical top connection. Both columns can be connected together with height adjustable simple top connection.

Space-saving in an attractive design

2 high-performing motors are perfectly integrated in the slim columns. The lift has no floor connection. A LED-display is integrated in the columns for simple and safe operation, also for service purposes.

SMART LIFT Model



SMART LIFT 2.40 SL for passenger cars and commercial vans



MINI MAX: comfortable as garage's assistant



SMART LIFT 2.50 SL DG for commercial vans



SMART LIFT 2.50 SL DG with double joint arms for passenger cars and commercial vans

SMART LIFT for passenger cars

- The 2.30 SL is a universal lift for passenger cars, with a lifting capacity of 3.000 kg.
- The 2.30 SL and 2.32 SL MB/BMW with its special carrying arms (480–870 mm) is optimized.
- The 2.32 SL T with 2-times telescopic and asymmetrical lifting arms (580–1.170 mm) lifts commercial vehicles, for example VW T5 long version.

The universal lift

- With the 2.40 SL with lifting capacity of 4.000 kg enables to lift a wide range of vehicle from passenger cars to vans.
- Also available with MINI MAX lifting arms.
- The 2.50 SL DG has a flat and especially slim construction of double-joined arms – it enables to lift from the smallest cars (for example, smart) up to commercial vans. With optimal adjustable height adapters.

MINI MAX – comfortable as garage's assistant

The MINI MAX is a height adjustable lifting adapter, which is particularly suitable for lifting vehicles with higher and hidden pick up points.

- An enormous adjustment area of 75–185 mm (2.32 SL) or 85–190 mm (2.40 SL)
- Multi-level fast adjustable with the foot.

SMART LIFT for commercial vans

- The 2.50 SL has a lifting capacity of 5.000 kg. It is used for lifting large commercial van, for example VW LT, MB Sprinter.
 - For a comfortable handling positioning, the 2.50 SL has roller-bearred lifting arms. The arms are 2-times telescopic.
 - The fast „replacement-system“ of 2.50 SL simplifies changing of the disk adapters.
-

Technical details

SMART LIFT – clear and cut

- Electronic synchronization system
- Vehicles's door can be opened completely
- Low wear Nylatron-nut
- 5 years warranty on spindle and spindle-nut
- Resistant Poly-V belt
- Silent operation
- Two motors integrated into the columns, no connection on the floor
- Single or 2-times telescopic lifting arms with low lifting point, swivelling 180°
- Symmetric roller-bearred lifting arms, 2-times telescopic (2.50 SL)

SMART LIFT – accessories

- Large assortment of height adapters and turntables for commercial vans and off-road vehicles
- Special lifting arms for MB and BMW vehicles
- Different energy-sets (electricity and air supply connections integrate into control column)
- Tool storage for lifting arms

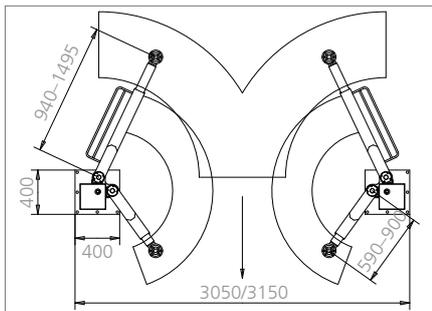


Different height adapters for safety lifting commercial vans up to off-road vehicles

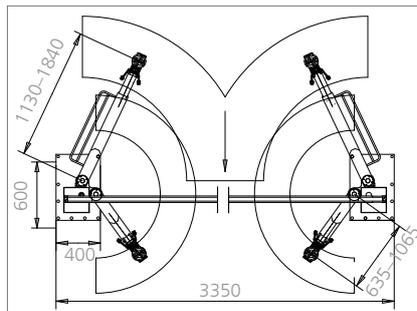
Energy-set with electricity 220 V and compressed air

SMART LIFT	2.30 SL	2.32 SL	2.32 SL MM	2.40 SL	2.40 SL MM	2.50 SL	2.50 SL DG
Capacity (kg)	3000	3200	3200	4000	4000	5000	5000
Lifting time (sec)	40	40	40	46	46	48	48
Lifting height (mm)	2010	2010	2010	2060	2060	2050	2050
Lowest lifting point (mm)	95–140	95–140	75–185	115–190	85–190	115–190	115–190
Total height (mm)	2890–4170	2890–4170	2890–4170	2890–4170	2890–4170	2835–5100	2835–5100
Total width (mm)	3000–3100	3050–3150	3300	3350	3350	3750	3500
Distance between columns	2460–2560	2470–2570	2720	2770	2770	3043	2450
Longs arm reach (mm)	940–1495	940–1495	1000–1480	1130–1840	1130–1840	–	0–1789
Short arm reach (mm)	590–900 (1)	580–900 (1)	600–980	570–1160	635–1065	890–1916	–
Motor (kW)	3,0	3,0	3,0	3,0	3,0	3,0	3,0
Power supply (V/Hz)	400/50	400/50	400/50	400/50	400/50	400/50	400/50

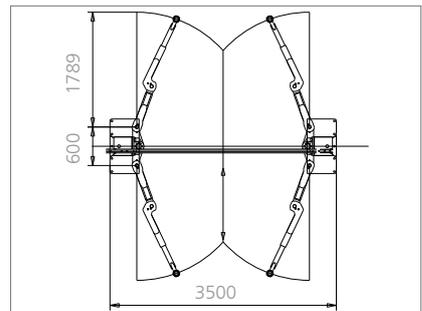
Measurments in mm (1) for MB/BMW: 480–870mm | Version T 580–1170mm



Standard lifting arms 2.32 SL
telescopic, asymmetric



Lifting arms 2.40 SL MM
two telescopic, asymmetric



Double-jointed arms 2.50 SL DG
telescopic, roller-bearred



Viersäulenhebebühnen · Four-Post-Lift

COMBI LIFT 4.45 H N

COMBI LIFT 4.45 HN

flach, kompakt, elegant, montagefreundlich



Die Hebebühne hebt Fahrzeuge bis 4500 kg mit einer Hubhöhe bis zu 1840 mm sicher an · The lift lifts vehicles up to 4500 kg safely with a max. lifting height of 1840 mm



Der Radfreiheber der Version Plus A ist optional längs verstellbar; zwei Schiebeplatten, bzw. bei Schienenlängen von 5500 mm über drei · Wheel-free lift of version Plus A is optional length adjustable; two sliding plates, incase over three with runway length of 5500 mm

Die Vorteile des neuen COMBI LIFT im Überblick

- **Flache Überfahrhöhe** für ein bequemes Auffahren auch für tiefergelegte Fahrzeuge (Achsmess-Set kann in die Schiene integriert werden)
- **Flexible Einsatzmöglichkeiten:** Die Fahrschienen sind 4800 mm (optional 5500 mm) lang, wobei eine Fahrschiene querverschiebbar (850–1150 mm) ist. So ist der COMBI LIFT auf unterschiedliche Spurbreiten einstellbar, was den Aus- oder Einbau von quer eingebauten Aggregaten oder Getrieben vereinfacht.
- Sechsfach nach innen gekantete Fahrschienen sorgen für ein schlankes Design
- Ein extrem steifer Querträger im I-Profil garantiert hohe Steifigkeit
- Die vorgespannte Schiene garantiert eine minimale Durchbiegung der Fahrbahnen.
- Bedienhebel zum Heben und Senken
- Steckbare Kabel sind im Querträger vormontiert, so dass die Montage vor Ort erleichtert wird
- Sauberer Kabelverlauf in der Kommandosäule durch Energiekette
- Modifiziertes Bedienaggregat an der Kommandosäule
- Gute Zugänglichkeit der Elektrik durch Klappöffnung
- **Beleuchtung:** in die Fahrschienen integrierte 6-fache Beleuchtung erleichtert das Arbeiten unter dem Fahrzeug für eine indirekte Ausleuchtung

Die vielfältigen Ausstattungsmöglichkeiten

- **Version A** – Achsmess-Set: Installation von Schiebeplatten im hinteren Teil der Fahrschienen, Aussparung für Drehteller vorne.
- **Version Plus** – Radfreiheber: Mit aufgebautem, starrem Radfreiheber, optional mit verlängertem Radfreiheber.
- **Version Plus A** – Achsmess-Set und Radfreiheber: bilden mit den Ausgleichkästen eine ebene Fläche auf den Fahrschienen.

Funktion und Sicherheit mit feinjustierbarer Klinkenleiste & Leistungsfähigem, geräuscharmen Unterölaggregat

Die Viersäulenhebebühne COMBI LIFT wird über einen hydraulischen Zylinder und Stahlseile betrieben, wobei eine mechanisch feinjustierbare Klinkenleiste als Sicherheitseinrichtung dient. Mit einem zusätzlichen Hydraulikventil ist ein langsames Absenken in die Sicherheitsklinge möglich.

Das leistungsfähige, geräuscharme Unterölaggregat ist an der Bediensäule angebracht und garantiert eine hohe Laufruhe. Die Hebebühne wird über Drucktaster bedient. Die Senkgeschwindigkeit kann durch den Bediener mit Hilfe eines Drucktasters beeinflusst werden.

flat, compact, elegant, installation-friendly



Bequemes Auffahren auch für tiefergelegte Fahrzeuge durch flache Fahrschienen und Auffahrrampen ·
Comfortable to drive-on also for low clearance vehicles through flat runways and drive-on ramps



Modernes Bedienelement · *Modern control panel*



Sicherheit mit feinjustierbarer Klinkenleiste mit sicher geführtem Kabel-in-Kabel-Kanal · *Safety through adjustable ratchet bar*

The advantages of new COMBI LIFT in overview

- **Flat drive-on height:** for a comfortable drive-on also for low clearance vehicles (wheel alignment set can be integrated in the runways)
- **Flexible possible field of applications:** the runways length is 4800 mm (optional 5500 mm), whereas a runway is transversally movable (850–1150 mm). So that the COMBI LIFT can be adjusted for different track widths, which simplify the cross dismounting or mounting of power engine or gearbox.
- Six times cant inwards the runways provides a slim design
- An extreme rigid crossbeam in I-profile guarantees a high stiffness
- The pre-stressed runways guarantee a minimum bending of the runways
- Control panel for lifting and lowering
- Pluggable cables are pre-assembled in crossbeam, so that makes the installation on site easier
- Neat run of cables in the master column through energy chain
- Modified control unit on the master column
- Good accessibility of electric through retractable opening
- **Lighting:** in the runways integrated 6-times lighting lightens the works under the vehicle for an indirect illumination

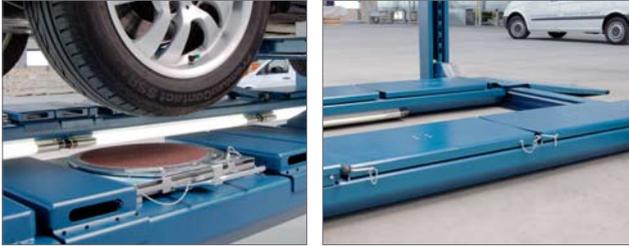
The multifaceted possible configurations

- **Version A** – wheel alignment set: installation of sliding plates in rear part of the runways, front recesses for turntables.
- **Version Plus** – wheel-free lift: with built-on, rigid wheel-free lift, optional with length extended wheel-free lift
- **Version Plus A** – wheel alignment set and wheel-free lift: provide a flat surface on the runways, thanks flat plates.

Function and safety with adjustable ratchet bar & powerful, silent oil-submerged motor

The four-post lift COMBI LIFT is operated through a hydraulic cylinder and steel ropes, whereas a mechanical adjustable ratchet bar serves safety system. An additional hydraulic valve possible slower lowering in the safety ratchet. The powerful, silent oil-submerged motor is fitted on the master column and guarantees quiet running. The lift is operated through a push button. The lowering speed can be affected through control panel with a help of the push button.

Technische Daten · Technical Data



Achsmes-Set mit Drehteller und geteilten Schiebepplatten · *Wheel alignment set with turntables and seperated sliding plates*



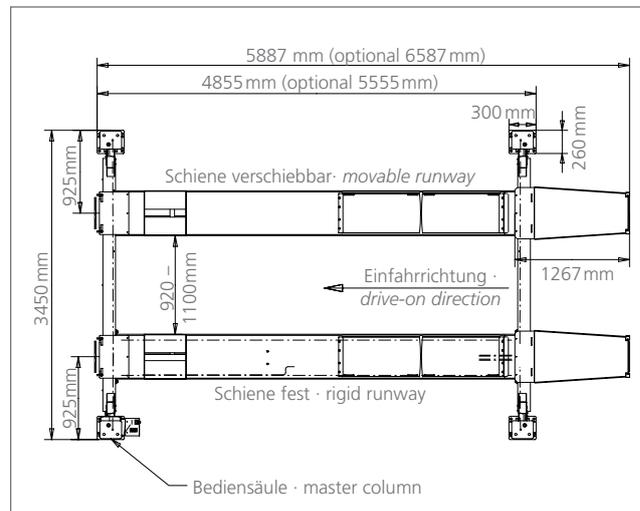
Beleuchtung an den Fahrschienen · *Lightings at the runways*

Optionen

- LASER JACK Achsheber pneumatisch, Tragkraft 2.000kg
- Scheren-Achsheber JACK 2000, lufthydraulisch, Tragkraft 2000kg
- Achsmess-Set mit Schiebepplatten hinten und Aussparungen für Drehteller vorne
- 6-fache Beleuchtung mit Leuchtstoffröhren an den Fahrschienen

Options

- LASER JACK pneumatic axle jack, lifting capacity 2,000kg
- Axle jack JACK 2000, air-hydraulic, lifting capacity 2,000kg
- Wheel alignment set with rear sliding plates and front recesses for turntables
- 6-times lighting with flueorescent tubes at the runways



Technisches Datenblatt der COMBI LIFT 4.45 HN Plus A · *Technical data sheet for COMBI LIFT 4.45 HN Plus A*

	4.45 HN	4.45 HN A	4.45 HN Plus	4.45 HN Plus A
Tragfähigkeit · <i>lifting capacity (kg)</i>	4500	4500	4500	4500
Hubhöhe · <i>lifting height (mm)</i>	1840	1890	1840	1890
Hubhöhe RFH · <i>lifting height WFL (mm)</i>	–	–	490	490
Länge RFH · <i>length WFL (mm)</i>	–	–	1500 – 1900	1500 – 1900
Hubzeit ca. · <i>lifting time approx. (sec.)</i>	45	45	45	45
Senkzeit ca. · <i>lowering time approx. (sec.)</i>	30	30	30	30
Auffahrhöhe · <i>drive-on height (mm)</i>	170	220	170	220
Schienenbreite · <i>runway width (mm)</i>	500	500	500	500
Schienenlänge · <i>runway length (mm)</i>	4855 (optional 5555)	4855 (optional 5555)	4855 (optional 5555)	4855 (optional 5555)
Gesamtbreite · <i>total width (mm)</i>	3450	3450	3450	3450
Gesamtlänge Überflur · <i>total length above-ground (mm)</i>	5887 (incase 6587)	5887 (incase 6587)	5887 (incase 6587)	5887 (incase 6587)
Motorleistung · <i>motor (kW)</i>	3,0	3,0	3,0	3,0
Elektroanschluss · <i>power supply (V/Hz)</i>	400/50	400/50	400/50	400/50

VLT ROLLER BRAKE TESTERS 3000 KG, 4000 KG AND 5000 KG

Series VLT 3222/3233/M/P/22, VLT 4222/4233/M/P/22 and VLT 5222/5233/M/P/22



Standard model



Optional with Console



Analogue Readout only on special order

VLT's MOTOR DRIVEN ROLLER CONCEPT EVEN UNIQUE AS SPECIAL.

After four years of intensive research VLT has developed the ultimate solution for Roller Brake Testers up to 5000 kg axle weight. VLT's Motor Driven Rollers are the most innovative solution for Roller Brake Testers nowadays. Strong benefits of this design:

- No longer losses of Brake Force due to misalignment.
- Internal wear and losses in Gearbox / Motor Combination Compensated.
- Brake Force measurement direct on the Rollers.
- Real Brake Force Readings.
- By making use of a two step oversized Planetary gearbox suitable to test: Electrical operated Hand or Parking Brakes in Applied Test mode (this is a Hand Brake Test against locked wheels)
- High IP 65 Protection
- Available in three Roller Lengths 750 mm – 860 mm and 1050 mm by 220 mm Roller diameter.
- Optional Roller Locking devices installed inside the Rollers.
- Very compact construction.
- Low maintenance.
- Roller Body made out of high tension T 6 Aluminum, no corrosion.
- VLT solutions known for the highest quality in the Industry.
- Available as VLT3200 – VLT 4200 and VLT 5200 series in standard and/or special versions. As stand-alone – as combination with Suspension Tester and Side Slip Tester (Mini Test Lane) or as fully integrated part of Automated VLT Test Lane.



® Patent Pending

Technical specifications:

Model	VLT 3222/M/P/22	VLT 3233/M/P/22	VLT 4222/M/P/22	VLT 4233/M/P/22	VLT 5222/M/P/22	MP 5233/M/P/22
Measuring Range each wheel	0 - 8000 N	0 - 8000 N	0 - 10000 N	0 - 10000 N	0 - 12500 N	0 - 12500 N
Max. Axle weight with 50% braking	3000 kg	3000 kg	4000 kg	4000 kg	5000 kg	5000 kg
Max. Axle weight with 70% braking	2300 kg	2300 kg	2900 kg	2900 kg	3600 kg	3600 kg
Maximum drive-over weight	4000 kg	4000 kg	5000 kg	5000 kg	6000 kg	6000 kg
Axle weight measuring range	-	50 - 3500 kg	-	50 - 4500 kg	-	50 - 5500 kg
Testing Speed	5.2 km/h	5.2 km/h	5.1 km/h	5.1 km/h	3.9 km/h	3.9 km/h
Dimensions Rollers	220 x 750 mm	220 x 750 mm	220 x 860 mm	220 x 860 mm	220 x 860 mm	220 x 860 mm
All Rollers at	Floor level	Floor level	Floor level	Floor level	Floor level	Floor level
Minimum / Maximum test width 1	750 x 2250 mm	750 x 2250 mm	730 x 2450 mm	730 x 2450 mm	730 x 2450 mm	730 x 2450 mm
Minimum / Maximum test width 2	650 x 2150 mm	650 x 2150 mm	880 x 2600 mm	880 x 2600 mm	880 x 2600 mm	880 x 2600 mm
Minimum / Maximum test width 3	500 x 2000 mm	500 x 2000 mm	480 x 2200 mm	480 x 2200 mm	480 x 2200 mm	480 x 2200 mm
Motor Power (2x)	4.0 kW	4.0 kW	5.5 kW	5.5 kW	5.5 kW	5.5 kW
Motor voltage standard, 3 Phase 50 Hz	380/400 Volt	380/400 Volt	380/400 Volt	380/400 Volt	380/400 Volt	380/400 Volt
Motor voltage on request, 3 phase 60 Hz	440/480 Volt	440/480 Volt	440/480 Volt	440/480 Volt	440/480 Volt	440/480 Volt
Facility to upgrade to (1*)	VLT 3233/M/P/22	-	VLT 4233/M/P/22	-	VLT 5233/M/P/22	-
Drive-over cover plates	Optional	Optional	Optional	Optional	Optional	Optional
Infrared remote control	Standard	Standard	Standard	Standard	Standard	Standard
Radio remote control	Optional	Optional	Optional	Optional	Optional	Optional
Printer and RS 232 interface	Standard	Standard	Standard	Standard	Standard	Standard
Optional Sub frame for concrete floor	VLT 3205T** Specify test width	VLT 3205/T2** Specify test width	VLT 4005T2** Specify test width			

1* Facility to upgrade to RBT with weighing system only when installed in VLT original Sub frame suitable for weighing system.

M: MPU Controller – P: Planetary gearbox – TFT 28" or 32" on request – Analogue Read-out on Request.

Test Lane Model with only Controller on request.



Van Leeuwen Test Systems B.V.

Automobile Safety Testing Equipment - Test Lanes
www.vltest.com, email: sales@vltest.com

Nieuwe Donk 18 • 4879 AC Etten-Leur • Holland
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VLT ROLLER BRAKE TESTERS 4000 KG

Special versions of the M/P/V series

Special Universal Roller Brake Testers with extra long Rollers for testing width range of Vehicle from Quads up to Light Goods Vehicle with double Tires on the rear axle, all on the same Roller Brake Tester, no problem with the VLT 4222/1050/M/P/22"TFT series.

Technical specifications:

Model:	VLT 4222/1050/M/P/22"TFT	VLT 4233/1050/M/P/22"TFT
Measuring range	0 – 5000/10000 N	0 – 5000/10000 N
Maximum wheel weight on roller pair	2000 kg	2000 kg
Maximum axle weight on both rollers pairs	4000 kg	4000 kg
Maximum drive over weight axle	5000 kg	5000 kg
Testing speed	5.2 km/h	5.2 km/h
Dimension rollers	220 x 1050 mm	220 x 1050 mm
Centre-to-centre rollers	420 mm	420 mm
Minimum/maximum test width	350 x 2450 mm	350 x 2450 mm
Motor Power (2x)	5.5 kW	5.5 kW
Electrical supply 400V, 3Phase, 50 Hz	20 Amps	20 Amps
Weight measuring system range	no	50 – 4500 kg
Drive over / covering plates	Optional on request	Optional on request
Infrared remote control	Yes, standard	Yes, standard
Radio Frequency remote control	No, optional	No, optional
Printer and RS 232 interface	Yes, standard	Yes, standard
Optional sub frame for concrete floor	VLT 4005/350x2450	VLT 4005/350x2450



For installation over Inspection pit we offer our VLT 4222 /M/P/22"TFT/SPLIT series

Technical specifications:

Model:	VLT 4222/M/P/22"TFT/SPLIT	VLT 4233/M/P/22"TFT/SPLIT
Measuring range	0 – 5000/10000 N	0 – 5000/10000 N
Maximum wheel weight on roller pair	2000 kg	2000 kg
Maximum axle weight on both roller pairs	4000 kg	4000 kg
Maximum drive over weight axle	5000 kg	5000 kg
Testing speed	5.2 km/h	5.2 km/h
Dimension rollers	220 x 860 mm	220 x 860 mm
Centre-to-centre rollers	420 mm	420 mm
Minimum/maximum test width	860 – FREE - 860 mm	860 – FREE - 860 mm
Motor Power (2x)	5.5 kW	5.5 kW
Electrical supply 400V, 3Phase, 50 Hz	20 Amps	20 Amps
Weight measuring system range	No	50 – 4500 kg
Drive over / covering plates	Optional on request	Optional on request
Infrared remote control	Yes, standard	Yes, standard
Radio Frequency remote control	No, optional	No, optional
Printer and RS 232 interface	Yes, standard	Yes, standard
Optional sub frame for concrete floor	VLT 4005/T2/SPLIT	VLT 4005/T2/SPLIT

Special for caravans and light trailers with tandem axles we offer our VLT Lifting System VLT 4210/LIFTING to lift the axle under test up to 100 mm. This to increase the axle weight to its normal on the road weight.

Technical specifications Roller Brake Tester Lifting System:

Model:	VLT 4210/LIFTING	Lifting Capacity 4500 kg, stroke 100 mm
Suitable for Roller Brake Tester	VLT 4233/M/P/22"TFT	Test Range 880 x 2600 mm
Electro/Hydraulic pump unit	1.5 kW 400 Volt 3 Phase 50 Hertz	



MT 845 AD/ADP –

wuchten leicht gemacht
make balancing simple



- Elf Auswuchtprogramme auch für Alufelgen
- Automatische Felgendaten-Erfassung
- OEM Freigaben
- *Eleven balancing programs, including aluminium rims*
- *Automatic rim data recording*
- *OEM Approvals*

Die Kompakt-Klasse für den Profi

Compact class for professionals



Detail-Info

- Automatischer Messablauf mit Radabbremmung
- Elektronische Abtastarme zur automatischen Felgendaten-Erfassung
- Einfache Anbringung aller versteckten Klebege- wichte mittels easyfix-Datenarm und optischer/ akustischer Bedienerführung
- 11 Auswuchtprogramme für Pkw-/Leicht-Lkw- und Motorradfelgen; zusätzlich integriertes Match-Programm
- Splitprogramm zur exakten Platzierung der Gewichte hinter den Speichen
- Mittenzentrierflansch mit pneumatischer Schnell- spannung, gesteuert über das Pedal (845 ADP)
- Pedal-Bremse zur Fixierung der Maschinenwelle beim Radaufspannen oder Unwuchtausgleich
- Maschine sehr einfach umrüstbar auf Schwenk- bolzen- oder Motorradflansch

Detailed information

- *Automatic measurement procedure with wheel braking ratio*
- *Electronic scanner arms for automatic recording of rim data*
- *Easyfix data arm and visual/sound operator guidance for easy attachment of all concealed adhesive weights*
- *11 balancing programs for passenger cars, light trucks and motorcycle rims, plus integral match program*
- *Split weight program for accurate positioning of weights behind the spokes*
- *Centring flange with pneumatic quick-clamp, controlled from the pedal (845 ADP)*
- *Pedal brake for locking the wheel to apply the weight in the correct position or correcting imbalance*
- *Fast easy change to fix stud adapters or motorcycle flange*



Auf Knopfdruck:
Auswuchtprogramme für Standard-, Alu-, Speichen- und Motorrad-Räder.

At the press of a button:
Wheel balancing programs for standard, aluminium, spoked and motorcycle wheels.



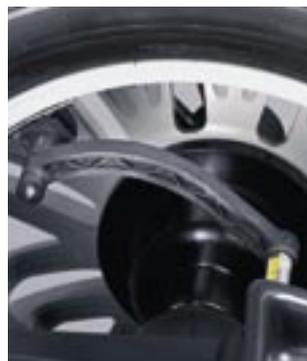
Serienmäßig:
Elektronische Abtastarme für automatische Felgendaten-Erfassung.

Supplied as standard:
Electronic scanner arms for automatic recording of rim data.



Schnell gespannt
Der Mittenzentrierflansch mit pneumatischer Schnellspannung bringt das Rad leicht in Position (nur ADP).

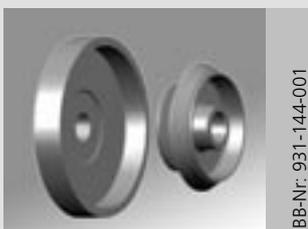
Rapid clamping
The mid-centring flange with quick pneumatic clamping puts the wheel easily into place (only ADP).



Geschickte Teilung
Mit dem Splitprogramm und dem easyfix-Datenarm können Gewichte auch exakt hinter den Speichen platziert werden.

Clever separation
With the split programme and the easyfix data arm, the hidden weights can be exactly placed behind the spokes.

Sonderzubehör Accessories



BB-Nr: 931-144-001

Zentrierkonus Ø 122-174 mm für Off-Road und LLkw-Felgen.
Centering Cone Ø 122-174 mm for Off-Road and Light Trucks.



BB-Nr: 931-141-071

Universalflansch stufenlos einstellbar, inkl. Zentrierringe.
Passenger-car wheel flange for rims without center hole, continuously adjustable, including centring rings.



BB-Nr: 931-141-053

Motorradflansch, universell einsetzbar.
Motorcycle wheel flange, for all wheels.



Zentrierscheiben und Bolzen für jeden Fahrzeugtyp.
Centering devices for all Passenger car types.

Im Lieferumfang Included delivery



BB-Nr: 931-141-029

Pkw-Standard-Mittenzentrierflansch.
Standard passenger-car wheel centering flange.

Ausstattung

Modell-Varianten	845 AD	845 ADP
Elektronischer easyfix-Datenarm	•	•
pneumatische Schnellspannung	–	•
• serienmäßig – optional		

Technische Daten

Anwendungsbereich

Felgenbreite	bis 20"
Max. Radbreite	508 mm
Felgendurchmesser	10 – 26"
Max. Raddurchmesser	900 mm
Max. Radgewicht	70 kg

Motor

Stromversorgung	1~ 230V, 50 – 60Hz
(andere Spannungen auf Anfrage)	
Auswuchtgeschwindigkeit	190 U/min

Abmessungen

Max. Höhe (Radschutzvorrichtung geöffnet)	1.800 mm
Max. Tiefe (Radschutzöffnung geschlossen)	1.250 mm
Breite	1.300 mm

Gewicht/Farbe

Gewicht	170/175 kg
Lackierung	Blau RAL 5015, Grau RAL 7011

Änderungen in der Technik und Ausstattung bleiben vorbehalten.

Equipment

Model versions	845 AD	845 ADP
Electronic easyfix data recording arm	•	•
pneumatic quick-clamp	–	•
• standard – optional		

Technical Data

Scope

Rim width	up to 20"
Max. wheel width	508 mm
Rim diameter	10 – 26"
Max. wheel diameter	900 mm
Max. wheel weight	70 kg

Motor

Power supply	1~ 230V, 50 – 60Hz
(other voltages available on request)	
Balancing speed	190 rpm

Dimensions

Max. height (wheel safety hood open)	1,800 mm
Max. depth (wheel safety hood closed)	1,250 mm
Width	1,300 mm

Weight/Paint

Weight	170/175 kg
Paint finish	blue RAL 5015, grey RAL 7011

We reserve the right to modify technical specifications and equipment.

Ihr Händler vor Ort:
Local distributor:

Beissbarth GmbH
Ein Unternehmen der Bosch-Gruppe
A Bosch Group Company
Hanauer Straße 101
80993 München (Munich, Bavaria)
Germany

Tel. +49-89-149 01-0
Fax +49-89-149 01-285/-240

www.beissbarth.com
sales@beissbarth.com

MS 68 – hebellose Reifenmontage *leverless tyre fitting*



- Topmodell für Pkw- und LLkw-Räder
- Montagekopf für hebellose Montage
- Sicheres Montieren mit integriertem Radlift
- *Top model for cars and light commercial vehicles*
- *Mounting head for leverless fitting*
- *Safe changing with integral wheel lift*

Für harte Anforderungen und harte Reifen *For hard conditions and hard tyres*



Die MS 68 ist unser Topmodell für Standardreifen, PAX-Räder, RFT und UHPs. Die neue hebellose Technologie und die präzise Hydraulikeinheit zum gleichzeitigen Abdrücken beider Reifenwulste garantieren sicheres Arbeiten. Und der serienmäßige Pneumatiklift erleichtert die Aufnahme von schweren SUV- und LLkw-Rädern.

The MS 68 is our top model for standard tyres, PAX wheels, RFTs and UHPs. The new leverless technology and the accurate hydraulic unit for simultaneous pressing down of both beads ensure safe working. And the pneumatic lift supplied as standard makes it easier to position the wheels of heavy SUVs and vans.



Hebellose Montagetechnik

Die neue hebellose Montagetechnik von Beissbarth bringt Ihnen ganz entscheidende Vorteile: schnell, komfortabel, präzise.

Leverless tyre fitting

Beissbarth's new leverless mounting technology supplies crucial advantages: fast, easy to use, accurate.



Feinfühlig und präzise

Die zentrale Steuereinheit garantiert Ihnen eine einfache Bedienung, dank Hydraulik feinfühlig und präzise.

Sensitive and accurate

The central control unit ensures ease of use, and with the hydraulic system it is sensitive and accurate too.

Detail Info

- Weiterentwickelte Abdrückrollen, optimal positioniert und aus dem Arbeitsbereich schwenkbar
- 2-stufiger Motor mit 1,7 PS
- Einfaches Aufspannen des Rades auf Mittenzentrierflansch
- Flansch austauschbar – z.B. für Felgen französischer Bauart
- Reifenschnellbefüllung serienmäßig
- Pneumatischer Radlift für SUVs bis 80 kg

Detailed information

- *The advanced, optimally positioned pressure rollers can be tilted away from the working area*
- *2-step 1.7 HP motor*
- *Easy to clamp the wheel on the centring flange*
- *Replaceable flange, for example for French rim types*
- *Fast tyre inflation as standard*
- *Pneumatic wheel lift for SUVs up to 80 kg*

Sonderzubehör Accessories



BB-Nr: 766 104 055

PKW Universalflansch mit Schwenkbolzen.
Car universal flange with swivelling bolt.



BB-Nr: 931-145 213

Zentrierkonus Ø 89-132 mm für Off-Road und LLkw-Felgen.
Centering cone Ø 89-132mm for offroad and light truck rims.



BB-Nr: 766 104 256

Adapterring aus Nylon zur Flanscherhöhung.
Nylon distance ring for height adaption of flange.

Technische Daten MS 68

Anwendungsbereich

Max. Felgendurchmesser	30"
Max. Felgenbreite	22"

Hydraulikeinheit

Max. Systemdruck	150 bar
Max. Abdrückkraft	~14.000 N (~1,4 t)

Pneumatik

Systemdruck	8 – 12 bar
-------------	------------

Motor

Stromversorgung	3~ 400 V, 50 – 60 Hz (andere Spannungen auf Anfrage)
Leistung	1,25 kW

Radlift

Max. Hubgewicht	80 kg
-----------------	-------

Abmessungen

Höhe	1.700 mm
Tiefe	1.850 mm
Breite	1.800 mm

Arbeitsplatzbedarf

Tiefe	2.500 mm
Breite	2.500 mm

Gewicht

490 kg

Änderungen in der Technik und Ausstattung bleiben vorbehalten.

Technical Data MS 68

Clamping range

Max. rim diameter	30"
Max. rim width	22"

Hydraulic unit

Max. system pressure	150 bar
Max. bead breaker force	~14,000 N (~1.4 t)

Pneumatics

System pressure	8 – 12 bar
-----------------	------------

Motor

Power supply	3~ 400 V, 50 – 60 Hz (non-standard voltages on request)
Capacity	1.25 kW

Wheel lift

Max. load	80 kg
-----------	-------

Dimensions

Height	1,700 mm
Depth	1,850 mm
Width	1,800 mm

Operating space requirement

depth	2,500 mm
width	2,500 mm

Weight

490 kg

We reserve the right to modify technical specifications and equipment.

Ihr Händler vor Ort:

Local distributor:

Beissbarth GmbH
Ein Unternehmen der Bosch-Gruppe
A Bosch Group Company
Hanauer Straße 101
80993 München (Munich, Bavaria)
Germany

Tel. +49-89-149 01-0
Fax +49-89-149 01-285/-240

www.beissbarth.com
sales@beissbarth.com

ROLLER BIKE brake tester - ROLLER BIKE Bremsenprüfstand

Integrated weight - <i>Integrierte Waage</i>	Yes - <i>Ja</i>
Max. capacity - <i>Höchstdurchsatz</i>	10.000 N
Roller lining - <i>Rollenverkleidung</i>	Corundum - <i>Korund</i>
Diameter of wheels tested - <i>Raddurchmesser während Prüfung</i>	6" - 24"
Useful length of rollers - <i>Nutzlänge Rollen</i>	400mm
Roller distance - <i>Rollenabstand</i>	380mm
Adherence coefficient with wet rollers - <i>Haftkoeffizient bei nassen Rollen</i>	> 0,6
Roller peripheral speed - <i>Rollenumfangsgeschwindigkeit</i>	5,3 km/h
Wheel containment devices - <i>Radaufnahmevorrichtung</i>	4 side rollers - <i>4 Seitenrollen</i>
Braking force measurement full scale - <i>Messskalenende Bremskraft</i>	> 3.000 N
Test repeatability - <i>Wiederholbarkeit der Prüfungen</i>	2%
Braking force resolution - <i>Auflösung Bremskraft</i>	1 N
Zero point calibration - <i>Nulleichung</i>	Automatic - <i>Automatisch</i>
Lever brake effort measurement full scale - <i>Skalenende Bremshebelkraftmessung</i>	> 300
Pedal and lever brake effort measurement full scale - <i>Skalenende Bremspedal- und Bremshebelkraftmessung</i>	> 500
Pedal effort measurement resolution - <i>Auflösung Pedalkraftmessung</i>	1 N
Power supply - <i>Versorgung</i>	230/400V 3ph 50Hz
Motor power - <i>Motorleistung</i>	3 kW
Brake tester dimensions - <i>Größe Bremsenprüfmodul</i>	750 x 1220 x 1370
SAFETY DEVICES - SICHERHEITSVORRICHTUNGEN	
Motor brake - <i>Motorbremse</i>	Yes - <i>Ja</i>
Machine activation with vehicle onboard and commanded by operator - <i>Maschinenaktivierung bei anwesendem Fahrzeug und durch Steuerbefehl des Bedieners</i>	Yes - <i>Ja</i>

STB 500 motorcycle speed tester - STB 500 Geschwindigkeitsprüfstand

Loading capacity (transit) - <i>Tragfähigkeit beim Befahren</i>	10.000 N
Diameter of rollers - <i>Rollendurchmesser</i>	100 mm
Minimum diameter of wheels tested - <i>Mindestdurchmesser Räder während Prüfung</i>	300 mm
Useful length of rollers - <i>Nutzlänge Rollen</i>	400mm
Roller distance - <i>Rollenabstand</i>	200mm
Wheel containment devices - <i>Radaufnahmevorrichtung</i>	2 side rollers - <i>2 Seitenrollen</i>
Max. speed - <i>Höchstgeschwindigkeit</i>	80 km/h
Braking force resolution - <i>Auflösung Bremskraft</i>	1 km/h
Working temperature - <i>Betriebstemperatur</i>	0 - 40°C
Power supply - <i>Versorgung</i>	230/400V 3ph 50Hz and compressed air 10 bar
Speed tester dimensions - <i>Maße Geschwindigkeitsprüfmodul</i>	750 x 1220 x 370 mm
Weight - <i>Gewicht</i>	141 kg
Test noise level - <i>Lärm bei laufender Prüfung</i>	> 85 dBA
Roller brake - <i>Rollenbremse</i>	On request - <i>Auf Anfrage</i>

Wheel clamping module - Räderblockiermodul

Max. load capacity (transit) - <i>Tragfähigkeit beim Befahren</i>	10.000 N
Wheel clamping system with 2 clamps - <i>Rädereinspannsystem mit zwei Zangen</i>	Pneumatic - <i>Pneumatisch</i>
Clamping force - <i>Spannkraft</i>	> 200 kg
Wheel clamping height - <i>Höhe des Rädereinspannsystems</i>	70 mm
Dimensions - <i>Abmessungen</i>	1500 x 1220 x 370 mm
Weight - <i>Gewicht</i>	210 kg
Power supply - <i>Versorgung</i>	Compressed air 10 bar - <i>Druckluft 10 bar</i>
Air quantity per clamp - <i>Luftmenge pro Einspannvorrichtung</i>	1,35 l

Portable cooling module - Portables Kühlmodul

Power supply - <i>Versorgung</i>	230/400V 3ph 50Hz
Power - <i>Leistung</i>	2 x 0,37 kW
Air speed - <i>Luftgeschwindigkeit</i>	> 22,22 m/s
Surface area - <i>Oberfläche</i>	> 0,01 each m ² - <i>jeweils > 0,01 m²</i>
Dimensions - <i>Abmessungen</i>	273 x 318 x 322 mm
Weight - <i>Gewicht</i>	12 each kg - <i>jeweils 12 kg</i>
Noise level - <i>Geräuschpegel</i>	> 70 dBA



TESTING EQUIPMENT FOR 2-WHEEL MOTORCYCLES AND SCOOTERS

INSPEKTIONSLINIE FÜR MOPEDS UND MOTORRÄDER MIT ZWEI RÄDERN



ROLLER BIKE - STB 500



Dedra s.r.l.
Via Costituzione 70, 42015 Correggio (RE) - Italy
Tel.0522 731111 Fax.0522 747305
info@dedra-automotive.com
www.dedra-automotive.com



05/2011



Test management control unit

It includes a PC with Windows operating system (licence included), net connectivity and serial ports RS 232. It can be used as PC STATION.

Geschwindigkeitsprüfstand

Umfasst einen PC mit Windows-Betriebssystem, Konnektivität Netz und seriellen Schnittstellen RS232, verwendbar als PC-Station.

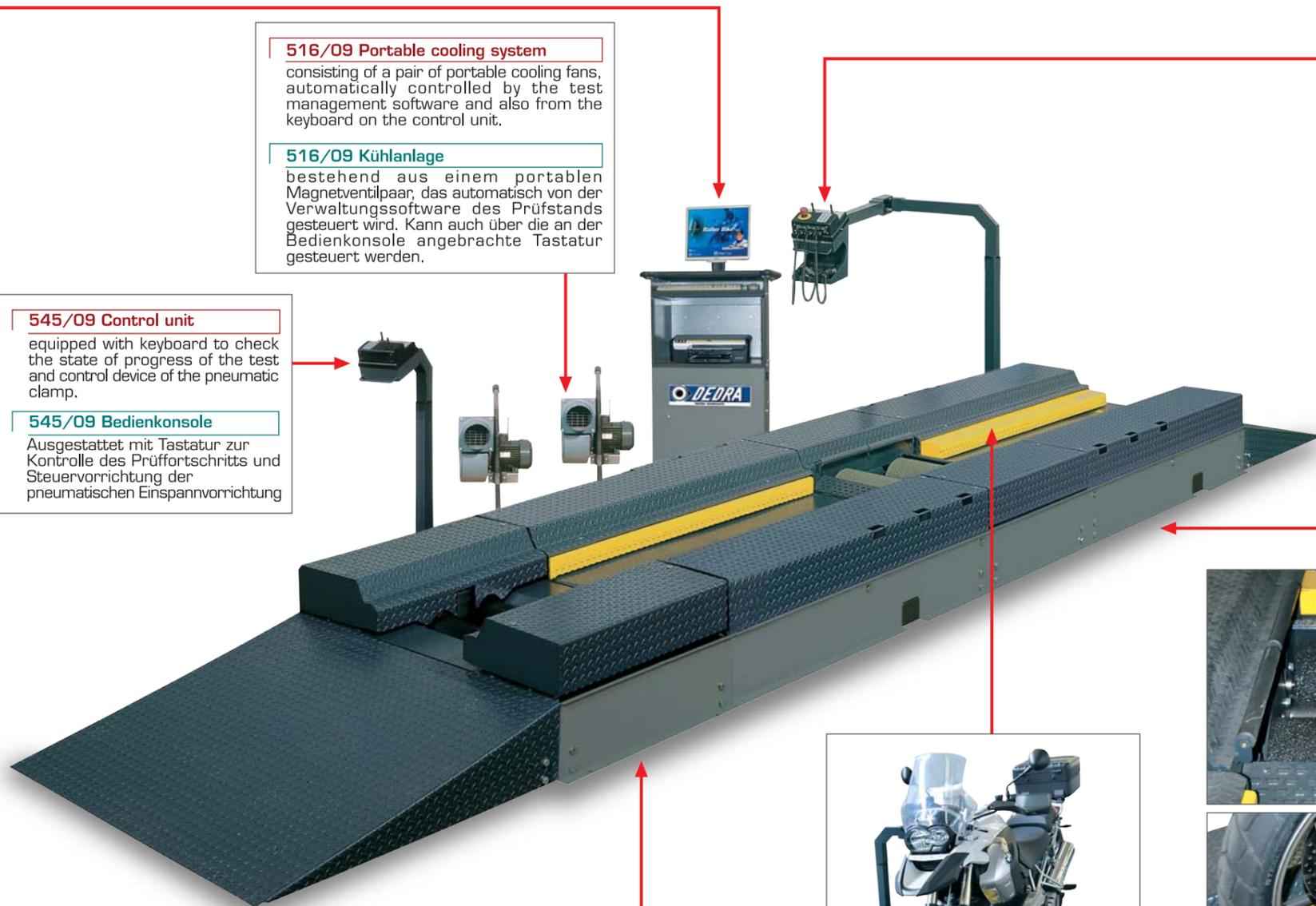


Dedra Software

for 2-wheel motorcycles and scooters. It controls the whole testing line STB 500-ROLLER BIKE with one single test flow.

Dedra Software

für Mopeds und Motorräder mit 2 Rädern verwaltet die gesamte Linie STB500-ROLLER BIKE in einem einzigen Prüfdurchgang.



516/09 Portable cooling system

consisting of a pair of portable cooling fans, automatically controlled by the test management software and also from the keyboard on the control unit.

516/09 Kühlanlage

bestehend aus einem portablen Magnetventilpaar, das automatisch von der Verwaltungssoftware des Prüfstands gesteuert wird. Kann auch über die an der Bedienkonsole angebrachte Tastatur gesteuert werden.

545/09 Control unit

equipped with keyboard to check the state of progress of the test and control device of the pneumatic clamp.

545/09 Bedienkonsole

Ausgestattet mit Tastatur zur Kontrolle des Prüffortschritts und Steuervorrichtung der pneumatischen Einspannvorrichtung



STB 500 Motorcycle Speed Tester

for testing the maximum speed of 2-wheel motorcycles and scooters and for testing pollution through the combined gas analyser to test exhaust gas. Developed with exclusive aerodynamic dissipation system, without electric consumption.

STB 500 Geschwindigkeitsprüfstand

bestimmt für die Kontrolle der Höchstgeschwindigkeit von Mopeds und Motorrädern mit 2 Rädern und für die Durchführung von Verschmutzungstests in Kombination mit Abgasanalysator. Ausgestattet mit dem exklusiven aerodynamischen Dissipationssystem, ohne Stromverbrauch.



MF 200 Pneumatic self-centring clamps

controlled in total safety from the two control units, enabled alternatively based on the real position of the vehicle on the test line.

MF 200 Selbstzentrierende pneumatische Einspannvorrichtungen

die unter sicheren Bedingungen über die beiden in Abhängigkeit von der effektiven Position des Fahrzeugs auf der Inspektionslinie aktivierten Bedienkonsolen gesteuert werden können.



535/09 Swivel Control Unit

equipped with test check keyboard, emergency stop button, pneumatic clamps control and connection plugs for lever/pedal strain measuring kit.

535/09 Ausrichtbare Bedienkonsole mit Tastatur zur Kontrolle

des Prüfungsfortschritts, Not-Aus-Pilz, Steuervorrichtung der automatischen Einspannvorrichtungen und mit Anschlussbuchse für die Hebel- und Pedalkraftmessgeräte.



537/09 Kit pedal/lever

Kit of pedal and lever brake effort testers

537/09 Hebel/Pedal Kit

Kit Messgeräte der auf die Hebel- und Pedalkraftmessgeräte

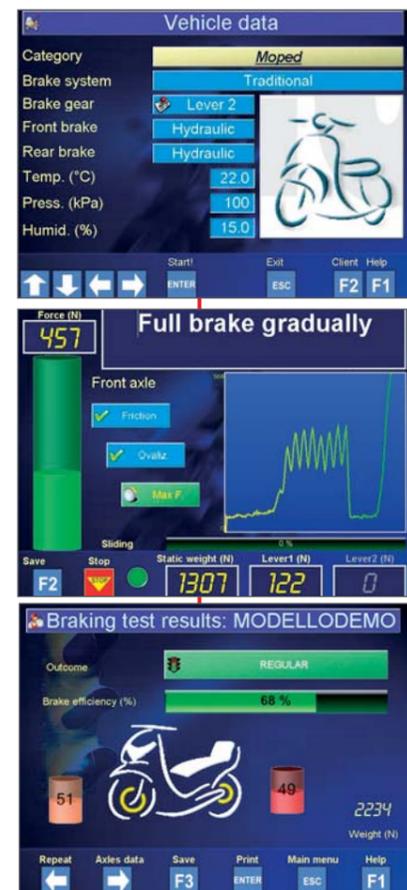


Motorcycle Brake Tester Roller Bike

Brake tester for checking the braking efficiency of 2-wheel motorcycles and scooters. Built-in weighing system. **Patented.** Rollers lined with high resistance Epoxy resin with Corundum, tested for over 100,000 test cycles. Tyre protection rollers. Self-braking motor for easy drive-out from rollers.

Bremsenprüfstand Roller Bike

bestimmt für die Bremsleistungskontrolle an Mopeds und Motorrädern 2 Räder Integriertes Wiegesystem. **Patentiert.** Rollenverkleidung aus Epoxidharz mit Korund, mit über 100.000 Prüfzyklen getestet. Radschutzrollen zum Schutz des Reifens. Selbstbremsender Motor für ein leichteres Verlassen der Rollen.



Clear Layout

of the test results and of diagnosis information relating to the braking system.

Deutliche Anzeigegratik

des Prüfergebnisses und der Diagnoseinformationen des Bremssystems.

TRENFAS

TRENFAS INTERNATIONAL EQUIPMENT CO. LTD.

Room 801, 8/F., New Commerce Centre, 19 On Sum St.,
Shek Mun, Shatin, N. T., Hong Kong.
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Fax: (852) 2636 0398
E-mail: trenfast@netvigator.com
Website: www.trenfast.com.hk

盛迅國際機械有限公司

香港新界沙田石門安心街19號
匯貿中心8字樓801室
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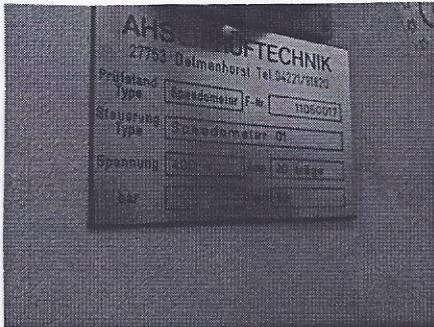
Our Ref. TF/ADMIN/0323/12

March 23, 2012

Electrical and Mechanical Services Limited

G/F, 98 Caroline Hill Road
Tel: 3113 0416
Fax: 2576 8621
e-mail: kmtam@emsd.gov.hk
Attn: Mr. K. M. Tam

RE: Sound Level Report of "AHS" Speedometer Tester



Brand Name	: "AHS"
Model	: Speed Check
Origin	: Germany
Serial Number	: 11060017
Production Year	: 2006
Max. Test Speed	: 150Km
Motor Power	: 400V/3PH/50HZ-7.5KW
Sound Level at max. Speed	: 104 db
Measuring Distance	: 1 meter from driving roller
Measuring Date	: 19-03-2012



Trenfast International Equipment Co Ltd



Automobile Equipment Sales • Installation • Maintenance Service & Engineering
汽車維修設備銷售 • 安裝 • 保養維修及工程