

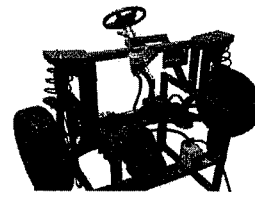


عدد صفحات هذا الكشف (٤) صفحات

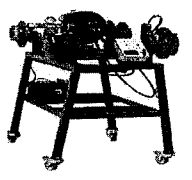
الملحق (ج) المرفق لدى العطاء رقم (ش و ٥ / ٢٠٢٢)

Equipment and Tools - Automotive Workshop																
خاص بالشركة المتقدمة للعطاء						خاص بالشركة الوطنية للتشغيل والتدريب										
السعر الاجمالي	السعر الافراضي	Warranty Period	Guarante e Period	مدة التسليم (يوم)	المواصفات الفنية المقدمة				المتشأ الصانعة	المتشأ المقدم	PICTURE	Technical specifications	Qty.	Unit	ITEM NAME	#
					مطابق للموصفة	غير مطابق للموصفة	الاختلاف (التعديل)	model								
												<p>Complete working Electric Vehicle which is A common car in Jordan, 2016 - manufacturing year or above, All vehicle accessories (Jack, Tire socket and handle, Tire inflator and foam, Fire extinguisher ...etc.) must be available). ALL Vehicle systems must be working properly. The Vehicle must not be registered as normal Vehicle registration. Chassis must be cut in 4 places. The Vehicle will be used for training.</p> <p>Prefer to contain a lithium-ion battery. Battery water cooling system. Electric hand brake system. Adaptive suspension system.</p> <p>Four wheel brake system. Special paint for a car covered with an insulating layer. The vehicle origin, model, type and year of manufacture must be specified".</p> <p>Vehicle battery capacity : not less than 24 kWh .</p> <p><u>Guarantee: 1 year.</u></p>	1	Each	Complete Working Electric Vehicle	1
												<p>Complete working Hybrid Vehicle which is A common car in Jordan, 2016 - manufacturing year or above, All vehicle accessories (Jack, Tire socket and handle, Tire inflator and foam, Fire extinguisher ...etc.) must be available). ALL Vehicle systems must be working properly. The Vehicle must not be registered as normal Vehicle registration. Chassis must be cut in 4 places. The Vehicle will be used for training.</p> <p>Prefer to contain a lithium-ion battery. Battery water cooling system. Electric hand brake system. Adaptive suspension system.</p> <p>Four wheel brake system. Special paint for a car covered with an insulating layer. The vehicle origin, model, type and year of manufacture must be specified".</p> <p><u>Guarantee: 1 year.</u></p>	1	Each	Complete working Hybrid Vehicle	2
												<p>MacPherson suspension with steering linkage, must be complete front suspension and steering system with linkage. Fixed on a table or a rotary arrangement, used for practice on assembly and disassembly training of steering. System and suspension as well as brake hubs and rotors and wheel bearing. All parts good working Clean, complete front suspension with coil spring, steering ends and steering linkage Rack and pinion steering assembly, wheel hubs with brake rotors. The trainee can understand the Steering angles like Castor, Camber and Toe In Toe out arrangement. Included all necessary accessories. Including: steering wheel, Steering Gear Box, front suspension system, carriage wheel, steering wheel, Electric control unit, torque sensor, voltage display, combination Instrument, starting switch, speed of the car simulator, OBD diagnose Interface.</p> <p>Fault setting system, traversing carriage</p> <p>Adjustable torque size of Power Steering system according to different rotate speed and vehicle speed of engine. Self-diagnosis system, the light must flicker when break down. Turning angle to measure and adjust wheel alignment.</p> <p>Measurement board: there are Engine electronic control system circuit diagram and 4mm measured terminal which is used to measure the voltage, resistance, frequency or waveform of circuit component.</p> <p>Fault setting system: numeric keypad and intelligent wireless networks with Movable bench.</p> <p>Trainer Dimensions (W x D x H): (1700*900*1100) mm - (2000 x 1250 x 1750) mm, movable with 4wheels</p> <p>Inspect steering shaft universal joint, flexible coupling,</p> <p>A three-phase or single-phase (380/220)V, (50-60)Hz, AC motor drives a booster pump to operate the steering wheel with installed a pressure meter that displays real-time oil pressure changes.</p> <p>Max operating temperature: 50°C, Noise: 50-65db, Oil pressure gauge: (min0-20- max100-140) kg/psi.</p> <p>Base frame is made of steel and the surface is paint-coated. Power: (1.5-3)KW, Rotation speed: 1000-1400 r/min</p> <p>Collapsible column, lock cylinder mechanism, and steering wheel.</p> <p>Trainer must enable following: Disassemble, Inspect, and reassemble rack and pinion steering gear. Remove and replace manual or power rack and pinion steering gear.</p> <p>Inspect and replace manual or power rack and pinion steering gear Inner track rod ends and gaiters. Inspect power steering fluid levels and condition. Diagnose power steering fluid leakage.</p> <p>Remove, inspect, and replace power steering pump, mounts, and seals, pump belt, pump pulley, and pump belt Remove, inspect, and install coil springs and spring Insulators.</p> <p>Inspect, replace, and adjust track rod ends, track rod sleeves, and clamps. Remove, inspect, and install upper and lower wishbones, bushes, shafts, and rebound bumpers.</p> <p>Remove, inspect, and install hub carrier assemblies. Inspect, remove, and replace dampers. Included all necessary tools &amp; accessories.</p> <p><u>Training hours: 50 hrs. for (6-10) employees.</u></p> <p><u>Guarantee: 1 year. (beginning after the completion of the installation and operation of the machine).</u></p> <p><u>Warranty: 2 years (beginning after end of Guarantee period).</u></p>	1	Each	MacPherson suspension with steering linkage assembly and disassembly trainer.	3

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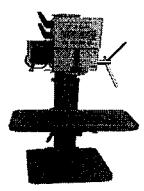
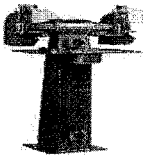
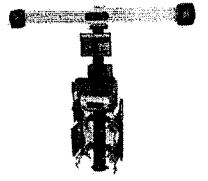
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خاص بالشركة المتقدمة للعطاء										خاص بالشركة الوطنية للتشغيل والتدريب						
السعر الاجمالي	السعر الافرادي	Warranty Period	Guarante e Period	مدة التسليم(يوم)	المواصفات الفنية المقدمة				الشركة الصانعة	المتشأ المقدم	PICTURE	Technical specifications	Qty.	Unit	ITEM NAME	#
					model	الاختلاف(التعديل)	غير مطابق للموصفة	مطابق للموصفة								
											<p>Hydraulic Brake System Training stand, it is a complete basic hydraulic braking system installed on a Movable table or structure where trainee can practice removal and replacing varies brake parts, and can Understand the structure and the operation of braking system (Dual-circuit brake system).</p> <p>The system must have composed of good used real vehicle parts such as two front disc brake rotors and hubs and calipers. With two rear drum brakes with axles bearing and brake cylinders with brake shoes lining. Servo brake. Master cylinder with oil reservoir and brake pedal with all brake piping, and four pressure gauges to display. Brake pressure for each brake line. Large oil drip pan can be installed at the bottom of the arrangement. All arrangement can be moved easily with heavy duty lockable castor wheels. Pressure meters are installed, installed a vacuum pump to provide vacuum servo power The movable shelf must be made of high-intensity steel and the surface must be paint-coated. Self-retention wheels' retention installed to ensure that it is flexible and convenient. Fully meet the needs for automobile braking system structure working simulation and assembly / disassembly practicing</p> <p>Dimensions: (1250 x 1000 x 750) mm - (2000 x 1100 x 1000) (length x width x height), weight (100-150) Kg. Max operating temperature: 50°C, Noise: 50-65db</p> <p>Diagnosis of electronic ABS system with integrated OBD 16 – pin diagnostic connector that allows to connect with the diagnostic tool and perform various measurements, tests and other diagnostic procedures such as reading fault codes, displaying the operating systems parameters and other.</p> <p>Trainer must include all necessary tools &amp; accessories.</p> <p>Power supply: 12 V dc battery which trainer must be supplied with.</p> <p>*Functions:</p> <ul style="list-style-type: none"> <li>• Clearly visible fully functional braking system and its components.</li> <li>• Cross diagonal hydraulic braking system with front and rear discs with calipers. <ul style="list-style-type: none"> <li>• Functional electronic ABS system and brake booster.</li> </ul> </li> <li>• With installed pressure gauges can be monitored the pressure in the brake circuit of each wheel <ul style="list-style-type: none"> <li>• Driving mode simulation and functional parking brake.</li> <li>• Brake rigs can be used for mechanical service and repair training</li> </ul> </li> <li>• On-board diagnostic capabilities and On Auto Edu made brake rigs could be performed all routine brake service like a component replacement, adjustments or hydraulic bleeding procedures</li> </ul> <p>*Control unit diagnosis:</p> <ul style="list-style-type: none"> <li>• Electronic control unit (ECU) identification and Reading/erasing fault codes</li> <li>• Displaying the operating system parameters (live data) , the air bleeding mode in a braking system. <ul style="list-style-type: none"> <li>• OBD Diagnostic scan tool 18pcs and fully tool kit for mechanic 24pcs.</li> </ul> </li> </ul> <p>Training hours: 60 hrs for (6-10) employees .</p> <p>Guarantee: 1 year.( beginning after the completion of the installation and operation of the machine).</p> <p>Warranty: 2 years (beginning after end of Guarantee period).</p>	1	Each	Hydraulic Brake System Training Panel	4	

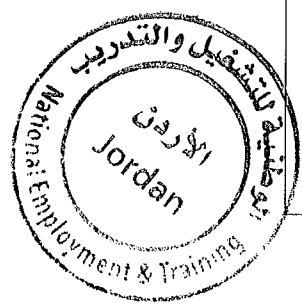
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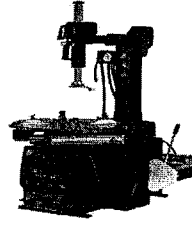
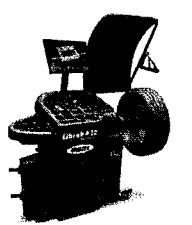
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خاص بالشركة المتقدمة للعطاء										خاص بالشركة الوطنية للتشغيل والتدريب						
السعر الاجمالي	السعر الافراضي	Warranty Period	Guarante e Period	مدة التسليم(يوم)	المواصفات الفنية المقدمة				الشركة الصانعة	المتشأ المقدم	PICTURE	Technical specifications	Qty.	Unit	ITEM NAME	#
					model	الاختلاف(التعديل)	غير مطابق للموصفة	مطابق للموصفة								
											 <p>Safe and reliable Quality assured rotation radial drill press vertical bench drilling. Max. drilling capacity diameter 16-20mm steel. Minimum tapping capacity M16 Cast iron, M10 steel, Spindle speeds at (50Hz) :105-210-350-445- 700-890-1450-2900. IP44 protection. Minimum spindle travel 100-125 mm. Distance spindle axis and column more than( 190-210) mm. Color: dark blue or grey. Included all necessary accessories Minimum distance spindle nose to table more than (300-350) mm.Spindle speed Min(100-110)RPM –Max(2900-3000) RPM. Motor power(1ph)(700- 1000) watt. Drill chuck, Tapper sleeve, Wrench, Safety guard/ Vice, Rectangular table with T-slots, Oil channel and drill guard, stop gauge to control the drill depth Drill head and table fastening pivots (360°), (8-10) steps in the gearbox with helical gears of steel and fiber material. Weight( 200-400)kg. Fully transportation and installation in site of project with all needs electricity, labor, material, tools. etc. include any needed accessory and auxiliary. Spare parts must be provided with minimum requirement pieces. <u>Guarantee: 1 year.( beginning after the completion of the installation and operation of the machine).</u> <u>Warranty: 2 years (beginning after end of Guarantee period ).</u></p>	1	Each	Bench Drilling Machine	5	
										 <p>Grinding Wheels: Dual 10inch. Aluminum-oxide grinding wheels' performance tool mini double end bench grinder with light 3 times magnifier shield hand held wheel dresser. Accept both wire wheel and grinding wheel. Equipped with adjustable work rest and safety glass. Motor power (KW): (3ph) (0.7-1) KW, Color: dark grey or dark green. Include all necessary accessories. Adjustable Speed: (2000 – 3400) RPM.Working Temperature: (60-70) °C, Weight (KG): (100-150). Includes (2) eye shields (2) grinding wheels' Adjustable tool rests.Work height: 30 inch height stand. Fully transportation and installation in site of project with all needs electricity, labor, material, tools. Etc. Any accessory and auxiliary or spare parts needed for machine must be provided with minimum requirement pieces. <u>Guarantee: 1 year.( beginning after the completion of the installation and operation of the machine).</u> <u>Warranty: 2 years (beginning after end of Guarantee period ).</u></p>	2	Each	Double Ended Grinder	6		
										 <p>Four Wheel Alignment, smart type and space saving with Wi-Fi connection-1 Full alloy aluminum tracking camera and movable beam (work level 0 – 2.1 m) Computer Controlled with 32" minimum monitor screen. 4 targets with universal wheel clamps 12"-24" Windows OS with Brand printer Easy-to-understand symbols and easy-to-operate software Complete and up-to-date OEM specifications. Free car specifications database with 2 years' free update. 3D Animation alignment instruction for easy operation. 3D measurement screen displayer with all relevant data Vehicle dimensions and wheel rolling radius measurement. 2turntable Plates for front wheels. Track width Min45"-50"- Max 90"-100" Wheel base Min75"-80"- Max175"-185" Steering Angle Sensor, Tire Diameter Unlimited Printer included, Steering wheel holder, Brake pedal depressor Fixed variable-height, tilt camera support, with live reading Vehicle orientation directional, variable high camera support Included all necessary accessories <u>Practical training on machine not less than 30 hrs., this includes any material and arrangement will be used during training for (6-10) employees.</u> Fully transportation and installation in site of project with all needs electricity, labor, material, tools. etc. Any accessory , auxiliary,tools or spare parts needed for machine must be provided with minimum requirement pieces. Power: (1ph) (1-1.2)KW. <u>Guarantee: 1 year.( beginning after the completion of the installation and operation of the machine).</u> <u>Warranty: 2 years (beginning after end of Guarantee period ).</u></p>	1	Kit	Wheel Alignment Kit	7		

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خاص بالشركة المتقدمة للعطاء										خاص بالشركة الوطنية للتشغيل والتدريب						
السعر الاجمالي	السعر الافراضي	Warranty Period	Guarante e Period	مدة التسليم (يوم)	المواصفات الفنية المقدمة				الشركة الصانعة	المنشأ المقدم	PICTURE	Technical specifications	Qty.	Unit	ITEM NAME	#
					model	الاختلاف (التعديل)	غير مطابق للموصفة	مطابق للموصفة								
											 <p>External clamping: Min8"-10" - Max22"-24" Internal clamping: Min11"-12" - Max24"-26" Max. wheel diameter: Min100-120, Max1120-1150mm Rim width: Min2"-3"-Max11"- 12" Bed breaker range: Min (60-70), max (350-360) mm. Air connection: Min8-10, Max11-14bar Rotation speed: Min8-10, Max18-22 RPM Tilt-back arm design and 4 assist arms. Pneumatic-lock locking system. The trapezoid column base and housing overall box welding design, more stability and reliability.180mm full aluminum double-inlet separation cylinder. Included all necessary accessories Double-structure cabinet and five stiffeners inside, for more stability. Plastic pole protection kit. Drawer control assembly, simple structure, fast and easy to maintenance. Sliding arm guarantees perfect locking. Air regulator assembly, Adjustable bucket holder for lubrication.1pcs of the following: (Bead lever/ Lubricant brush/ Inflating gun system with pipe connections). Power: (1ph) 2.4-3. 0kw.Fully transportation and installation in site of project with all needs electricity, labor, material, tools, etc. Any accessory , auxiliary,tools or spare parts needed for machine must be provided with minimum requirement pieces. Practical training on machine not less than 30 hrs., this includes any material and arrangement will be used during training for (6-10) employees. Guarantee: 1 year.( beginning after the completion of the installation and operation of the machine). Warranty: 2 years (beginning after end of Guarantee period ).</p>	1	Each	Wheel Tier Changer	8	
										 <p>Dynamic and static modes balance function. Electrical machine automatic stop when finish the measurement. Double LED display screen separate show the wheel inside and outside balance numeric. Alloy wheel many combination measurement modes. Self-calibration and diagnose function. Suit for different size wheel. Rim Diameter for all sizes 10" to 24 ". Rim width applicable for sizes (1.5" to 22"). Rotation Speed: (rpm) 0-100, Cycle time: 6s, Laser H12: Inner and outer laser beam Indicate the exact 12 o'clock position in the dynamic balancing program. English language. Electromagnetic brake. Easy to paste lead. LED light is convenient for working lighting. Use Laser Beam to indicate exactly where to paste. Accurate automatic measurement of distance and diameter. Include Protection disk. Cone set passenger car all sizes Ø (44 – 104) mm. Locking unit for Double centering with air locking Caliper for automatic measurement of rim width. Calibration kit, Computer-controlled wheel balancer with pneumatic clamping device.19" Touchscreen monitor with additional keyboard. Fully transportation and installation in site of project with all needs electricity, labor, material, tools, etc. include any needed accessory and auxiliary. Any accessory , auxiliary,tools or spare parts needed for machine must be provided with minimum requirement pieces. Power: (1ph) 0.5-0.7 kw. Practical training on machine not less than 30 hrs., this includes any material and arrangement will be used during training for (6-10) employees. Guarantee: 1 year.( beginning after the completion of the installation and operation of the machine). Warranty: 2 years (beginning after end of Guarantee period ).</p>	1	Each	Wheel Balancer Machine	9		

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التدريب والتشغيل  
الأردن  
Jordan