



Teknik Balans
Makina Sanayi ve Ticaret A.Ş.

MESSOMATIC®





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Makina Sanayi ve Ticaret A.Ş.

Teknik Balans A.S. founded in 1978, started its activity as a manufacturer of **Industrial Balancing Machines and Automotive Service & Garage Equipments** under Mess-Matic brand name.

These continuous improvements in the quality, technology and range of the products during the past years resulted the rapid and powerful growth of the company. In 1996, the company moved to its current premises located in İzmir and set in area of 5.000 square meters offering a covered production area of 2.500 square meters.

In year 2000, Teknik Balans A.S. became the first company in Turkey obtained ISO 9001 certification in the sector. This certification proved how total quality is important for the company and for its personnel.

The company's main product group is Automotive Garage & Service Equipments and Industrial Balancing Machines. Under Automotive Garage & Service Equipments, wheel balancers for passenger cars and heavy vehicles, headlight testers, nitrogen generators are produces. Industrial Balancing Machines is divided into two sub-groups which are Horizontal and Vertical Axis Balancing Machines. These machines are designed to balance parts like brake disc, drum, fly-wheel, shaft, crank, rotor, fan, propeller etc... According to the demand or upon request, balancing machines can be supplied with full-automatic or semi-automatic or manual control systems.

Believing that the Research & Development is the most important department for the product quality, the company invests large percentage of its turnover in this department. In the production department, high technology machines are used for production and all the personnel in this field follows the quality and control procedures step by step.

At the final point, all of the products are subjects to strict and precise controls for costumers' satisfaction.



MESS MATIC®



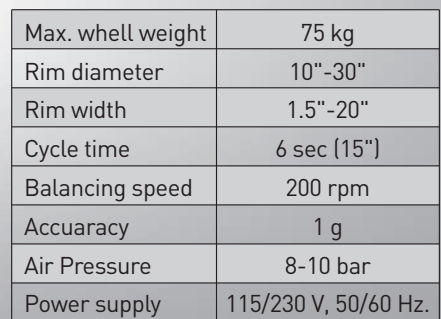
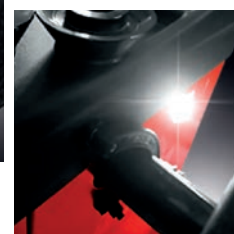
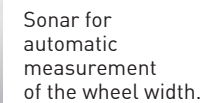
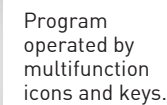
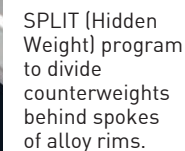
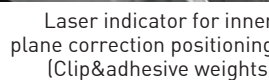
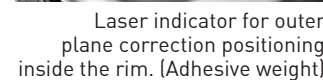
SIRION PRO/S

Laser Wheel Balancers

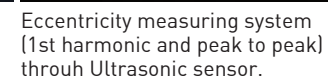
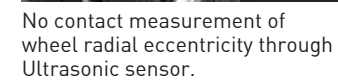


MAIN FEATURES

- 24" LCD Monitor with 3D graphics.
- Easy operation with multi-functional keyboard
- Automatic Start by lowering the wheel guard.
- Automatic braking on unbalance positions
- **Laser** indicator for outer plane correction positioning inside the rim (adhesive weight)
- **Laser** indicator for inner plane correction positioning (clip & adhesive weights)
- Automatic wheel positioning with fine approximation on external side.
- Pneumatic brake to ease locking/unlocking of the wheel as well as counterweight fitting.
- Automatic input of wheel distance and diameter.
- Automatic input of wheel width with **sonar system** (Sirion Pro/S)
- Self-calibration and self-diagnosis programs.
- ALU/ALU-S/ALU-S1 programs for aluminum wheels.
- SPLIT (Hidden Weight) program to divide counterweights behind spokes of alloy rims.
- Optimization program to compensate the tire unbalance with the rim unbalance.
- Wheel led lightening.



OPTIONAL FEATURES



Pneumatic clamping option.



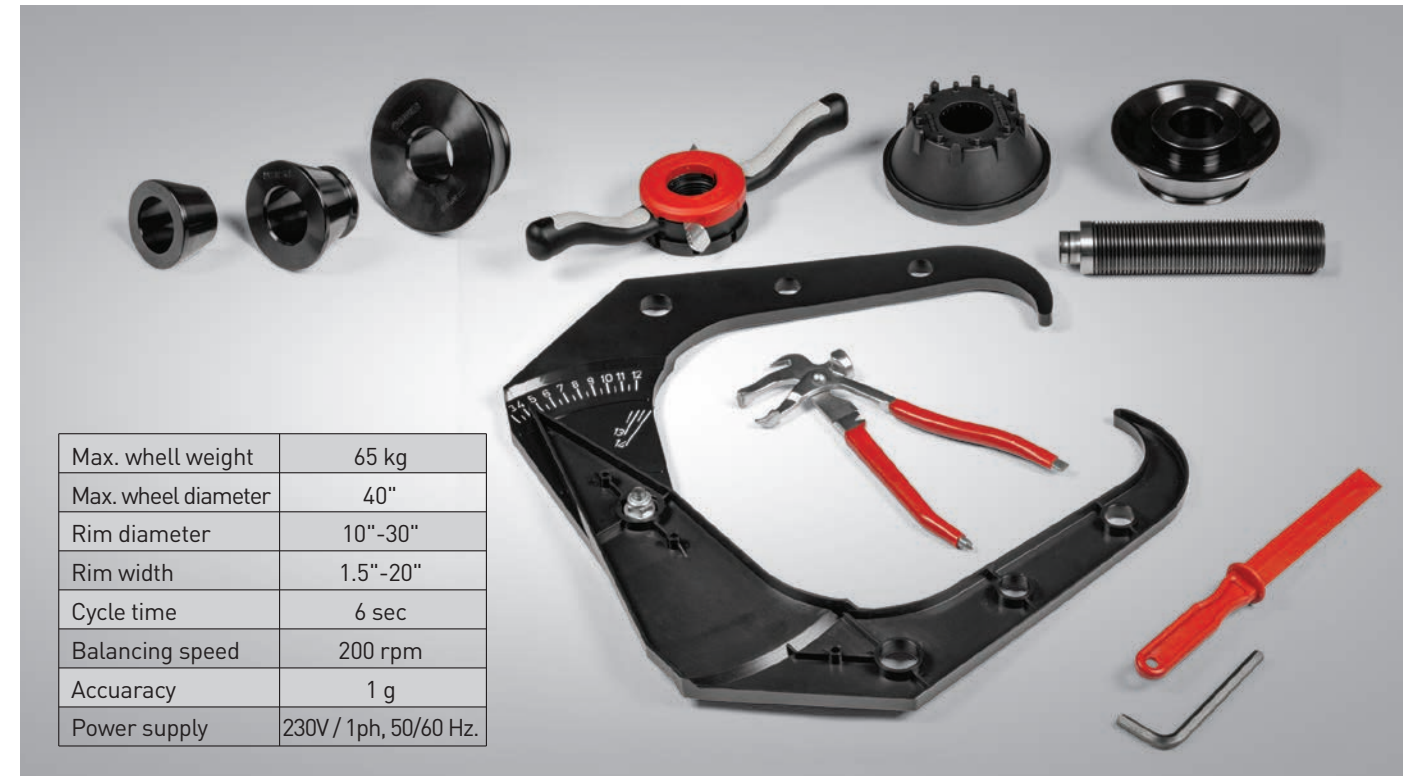
SIRION PLUS

Wheel Balancers



MAIN FEATURES

- 19" LCD Monitor with 3D graphics.
- Easy operation with multi-functional keyboard
- Automatic Start by lowering the wheel guard.
- Automatic braking on unbalance positions
- Automatic wheel positioning with fine approximation on external side.
- Automatic input of wheel distance and diameter.
- Automatic input of wheel width with **sonar system**
- Self-calibration and self-diagnosis programs.
- ALU/ALU-S/ALU-S1 programs for aluminum wheels.
- SPLIT (Hidden Weight) program to divide counterweights behind spokes of alloy rims.
- Optimization program to compensate the tire unbalance with the rim unbalance.



Max. wheel weight	65 kg
Max. wheel diameter	40"
Rim diameter	10"-30"
Rim width	1.5"-20"
Cycle time	6 sec
Balancing speed	200 rpm
Accuracy	1 g
Power supply	230V / 1ph, 50/60 Hz.

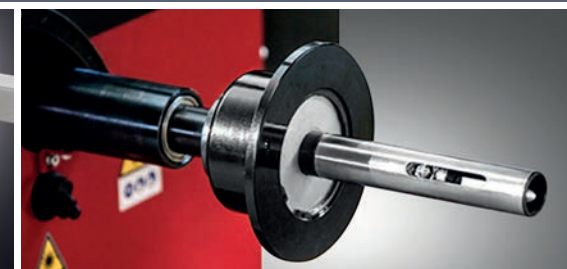
OPTIONAL FEATURES



Eccentricity measuring system (1st harmonic and peak to peak) through Ultrasonic sensor.



No contact measurement of wheel radial eccentricity through Ultrasonic sensor.



Pneumatic clamping option.

Footbrake to ease locking and unlocking wheels on adaptors as well as for counterweight fitting.



Program operated by multifunction icons and keys.



ALU-S function with "intelligent" gauge (automatic input of diameter and distance rim/machine) for correction on the wheel. Axial weight position indication by arrows.



SPLIT (Hidden Weight) program to divide counterweights behind spokes of alloy rims.



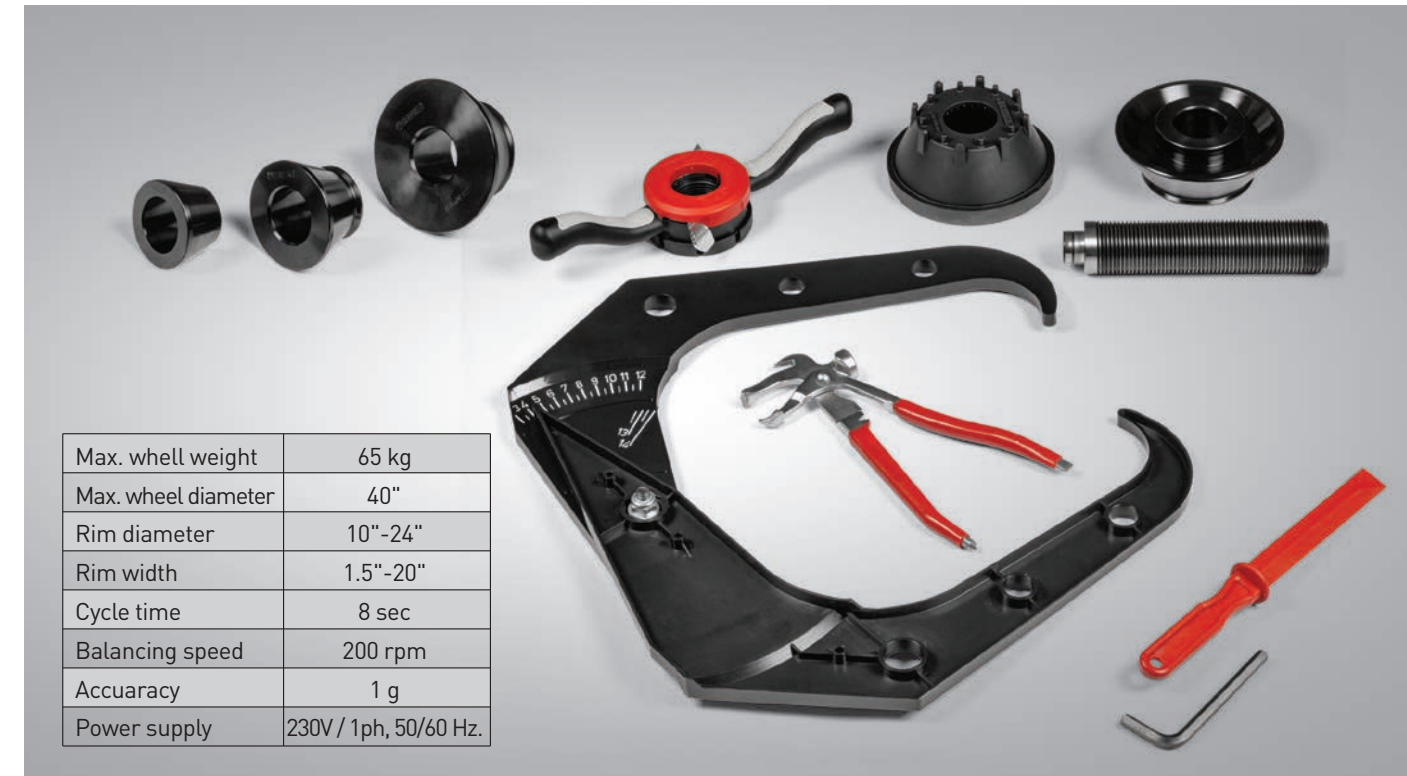
SIRION LX

Wheel Balancers



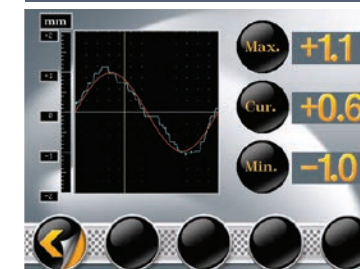
MAIN FEATURES

- 19" LCD Monitor with 3D graphics.
- Automatic Start by lowering the wheel guard.
- Footbrake to ease locking and unlocking wheels on adaptors as well as for counterweight fitting.
- Automatic braking and wheel positioning with fine approximation on external side.
- Self-calibration and self-diagnosis programs.
- ALU programs and motorcycle programs.
- Automatic ALU-S and ALU-S1 programs
- SPLIT (Hidden Weight) program to divide counterweights behind spokes of alloy rims.
- Automatic input of wheel distance and diameter.
- Automatic input of wheel width.
- Optimization program to compensate the tire unbalance with the rim unbalance.



Max. wheel weight	65 kg
Max. wheel diameter	40"
Rim diameter	10"-24"
Rim width	1.5"-20"
Cycle time	8 sec
Balancing speed	200 rpm
Accuracy	1 g
Power supply	230V / 1ph, 50/60 Hz.

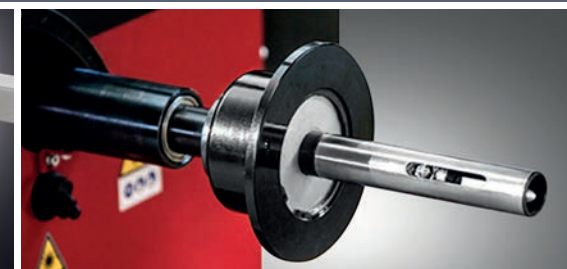
OPTIONAL FEATURES



Eccentricity measuring system (1st harmonic and peak to peak) through Ultrasonic sensor.



No contact measurement of wheel radial eccentricity through Ultrasonic sensor.



Pneumatic clamping option.

Footbrake to ease locking and unlocking wheels on adaptors as well as for counterweight fitting.



Program operated by multifunction icons and keys.



ALU-S function with "intelligent" gauge (automatic input of diameter and distance rim/machine) for correction on the wheel. Axial weight position indication by arrows.



SPLIT (Hidden Weight) program to divide counterweights behind spokes of alloy rims.



SIRION

Wheel Balancers



Self calibration and self diagnosis programs.

Program operated by multifunction icons and keys.

SPLIT (Hidden Weight) program to divide counterweights behind spokes of alloy rims.

ALU-S function with "intelligent" gauge (automatic input of diameter and distance rim/machine) for correction on the wheel. Axial weight position indication by arrows.

Pneumatic clamping option.

MAIN FEATURES

- 19" LCD Monitor with 3D graphics.
- Automatic Start by lowering the wheel guard.
- Footbrake to ease locking and unlocking wheels on adaptors as well as for counterweight fitting.
- Automatic braking and wheel positioning with fine approximation on external side.
- Self-calibration and self-diagnosis programs.
- ALU programs and motorcycle programs.
- Automatic ALU-S and ALU-S1 programs
- SPLIT (Hidden Weight) program to divide counterweights behind spokes of alloy rims.
- Automatic input of wheel distance and diameter.
- Automatic input of wheel width.
- Optimization program to compensate the tire unbalance with the rim unbalance.

Max. whell weight	60 kg
Max. wheel diameter	40"
Rim diameter	10"-24"
Rim width	1.5"-20"
Cycle time	8 sec
Balancing speed	200 rpm
Accuaracy	1 g
Power supply	230V / 1ph, 50/60 Hz.



SIRION ECO

Wheel Balancers



Self calibration and self diagnosis programs.

Program operated by multifunction icons and keys.

SPLIT (Hidden Weight) program to divide counterweights behind spokes of alloy rims.

ALU-S function with "intelligent" gauge (automatic input of diameter and distance rim/machine) for correction on the wheel. Axial weight position indication by arrows.

Pneumatic clamping option.

MAIN FEATURES

- Backlight monochrome graphic LCD display with flat screen 114×64 mm.
- Start-up by keyboard.
- Self-calibration and self-diagnosis programs.
- ALU programs and motorcycle programs.
- Automatic ALU-S and ALU-S1 programs.
- SPLIT (Hidden Weight) program to divide counterweights behind spokes of alloy rims.
- Automatic input of wheel distance and diameter.
- Optimization program to compensate the tire unbalance with the rim unbalance.

Max. whell weight	60 kg
Max. wheel diameter	40"
Rim diameter	10"-24"
Rim width	1.5"-20"
Cycle time	8 sec
Balancing speed	200 rpm
Accuaracy	1 g
Power supply	230V / 1ph, 50/60 Hz.



SIRION TRUCK

Balancing Machine for Truck and Car

Air Brake
System



MAIN FEATURES

- 24" LCD Monitor with 3D graphics.
- Fully automatic cycle with braking & pneumatic brake to ease locking/unlocking of the wheel as well as counterweight fitting.
- Selection of truck or car balancing modes
- Easy operation with multi-functional keyboard
- Automatic gauge for distance and diameter measurement
- Automatic Start by lowering the wheel guard.
- Automatic wheel positioning with fine approximation on external side.
- Self-calibration and self-diagnosis programs.
- ALU/ALU-S/ALU-S1 programs for aluminum wheels.
- SPLIT (Hidden Weight) program to divide counterweights behind spokes of alloy rims.
- Optimization program to compensate the tire unbalance with the rim unbalance.



Complete with
pneumatic lift (250 kg)



Max. wheel weight	250 kg
Max. wheel diameter	1300 mm
Rim diameter	10"-30"
Rim width	1.5"-20"
Cycle time	8-20 sec
Balancing speed	150 rpm for car / 80 rpm for truck
Air Pressure	8-10 bar
Accuracy	1 g
Power supply	230V / 1ph, 50/60 Hz.



TECHNICAL SPECIFICATIONS	SIRION-ECO	SIRION	SIRION-LX	SIRION PLUS	SIRION PRO/ECO	SIRION PRO/S
19" LCD Monitor	○	●	●	●	●	○
24" LCD Monitor	○	○	○	○	○	●
LCD display with flat screen 114x64 mm. Backlight monochrome graphic	●	○	○	○	○	○
Footbrake to ease locking and unlocking wheels on adaptors as well as for counterweight fitting	○	○	●	●	●	○
Pneumatic brake - lock at unbalance position	○	○	○	○	○	●
Automatic braking and wheel positioning with fine approximation on external side	●	●	●	●	●	●
Balancing speed (rpm)	200	200	200	200	200	200
Cycle Time (sec)	8	8	8	6	6	6
Accuracy (gr)	1	1	1	1	1	1
Max. Wheel Weight (kg)	60	60	65	75	75	75
Max. Wheel Diameter (inch)	24	24	24	30	30	30
Self calibration and self diagnosis programs	●	●	●	●	●	●
ALU-S and ALU-S1 functions with "intelligent" gauge (automatic input of diameter and distance rim/machine) for correction on two planes inside of the wheel	●	●	●	●	●	●
Hidden Weight program to divide counterweights behind spokes of alloy rims	●	●	●	●	●	●
Automatic input of wheel distance and diameter	●	●	●	●	●	●
Automatic input of wheel width	○	○	●	●	●	●
Width Gauge	○	○	●	○	○	○
Sonar (Automatic Width Measurement)	○	○	○	●	●	●
Motor Power (Watt)	105	105	105	200	200	200
Upper Lazer (For Clip weight application)	○	○	○	○	○	●
Lower Lazer (For adhesive weight application)	○	○	○	○	●	●
Wheel Led Lightening	○	○	○	○	○	●
Automatic Alu Program Selection with measurement gauge	○	○	○	○	○	●

ACCESSORIES

Pneumatic Clamping	Optional	Optional	Optional	Optional	Optional	Optional
Wheel guard with microswitch	Stdandart	Stdandart	Stdandart	Stdandart	Stdandart	Stdandart
Wheel width caliper and hammer	Stdandart	Stdandart	Stdandart	Stdandart	Stdandart	Stdandart
Haweka Adaptor with cones and pro-grip	○	○	Stdandart	Stdandart	Stdandart	Stdandart
Mess-Matic Adaptor with cones and pro-grip	Stdandart	Stdandart	○	○	○	○
Cones for off-road vehicles, vans and light trucks	Optional	Optional	Optional	Optional	Optional	Optional
Uni-lug with standard nuts	Optional	Optional	Optional	Optional	Optional	Optional
Haweka Motorcycle Kit	Optional	Optional	Optional	Optional	Optional	Optional
Touchscreen	○	Optional	Optional	Optional	Optional	Optional



RR-33**On-Vehicle "Finish Balancer"****MAIN FEATURES**

- Stroboscopic light
- Designed for both Trucks and Cars
- Accurate balance

TECHNICAL FEATURES:

- Truck-Bus pick-up capacity : 5.000 kg.
- Car pick-up capacity : 800 kg.
- RPM of drive disk : 3000 rpm.
- Balancing speed : 85-175 km/h

ACCESSORIES

SS - 33T
Pick-up Unit
(For trucks and busses)



SS - 33CV
Pick-up Unit
(For cars and vans)

**FA-100****Headlight Tester****MAIN FEATURES**

- Plexiglass Lens,
- Digital Luxmeter,
- Level
- Laser Visor
- Laser Pointer

FA-50**Headlight Tester****MAIN FEATURES**

- Plexiglass Lens,
- Digital Luxmeter,
- Level
- Precision Mirror,

NITROGEN GENERATORS



MAIN FEATURES

- 95-99% pure nitrogen
- Nitrogen / Compressed air selection
- Regulator

Model	Capacity	Vehicle
NM04	4 m³/hours	Passenger Cars
NM15	15 m³/hours	Heavy Vehicles

RIM STRAIGHTENING MACHINE



MAIN FEATURES

- 10-28" Capacity
- Hydraulic engine 0.55 kw 900 rpm.

PL-3000 Platform Lift



MAIN FEATURES

- Pneumatic
- Maximum 3000 kg. lifting capacity
- Maximum 420 mm lifting height.

MODEL
PL-3000 PL-3000 K

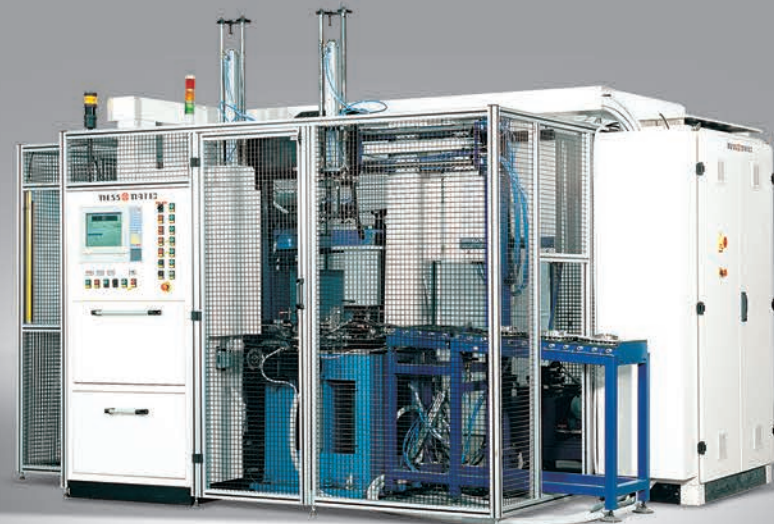
PL-5000 Platform Lift



MAIN FEATURES

- Hydraulic
- Maximum 3000 kg. lifting capacity
- Maximum 1000 mm lifting height.

INDUSTRIAL BALANCING MACHINES



ODF 21-2



Automatic
Vertical
Balancing
Machines



ODM 20



Automatic
Vertical
Balancing
Machines

Automatic
Vertical
Balancing
Machines



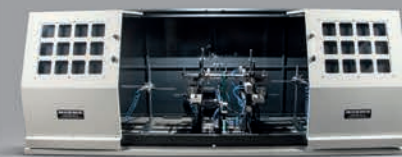
ODM 20



Belt-Drive
Horizontal
Balancing
Machines



SYM-5000 Series



Crankshaft
Balancing
Machines



**Crankshaft
Balancing**



Horizontal
Balancing
Machines



SYM-6000 Series



Horizontal
Balancing
Machines



SYM-1000 Series



