



## Samra Electric power Company

Tender 47/2022

### Horizontal Dynamic Balancing Machine

#### Specifications

Scope of supply:

- Horizontal Dynamic Balancing Machine

Specifications:

Field of application	Fan impellers (axial and centrifuge). Blower impellers. Pumps impellers (single stage). Pumps impellers (multi-stages). Symmetric and non-symmetric profiled shafts and spindles.	Maintenance and service applications
Maximum weight of work piece	1000 kg (+100 kg)	
Minimum weight of work piece	2-3 kg	
Maximum diameter of work piece	1800 mm	
Journal Diameter of roller carriage	25 – 240 mm	Counter roller to be included in the offer
Bearing Type	Soft suspension	
Machine bed length	Standard length with separate extendable basement up to 5000 mm	
MHI and the control module	User friendly, easy to use	<ul style="list-style-type: none"> <li>- Touch screen is advantage</li> <li>- Printer output is mandatory</li> </ul>
Result output	PDF format Auto report generation software includes the job ID number, balancing charts, and results before and after.	Printable and shareable
Motor output	Belt drive	Dual machine output is advantage, Belt drive and universal joint drive
Motor control	Variable frequency drive VFD CW and CCW rotation	Industrial brand VFD
Emergency stop	Yes, with braking system	
Balancing Modes	Auto and Manual	





شركة السمرات لتوليد الكهرباء  
Samra Electric Power Co. (SEPCO)

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Power Supply	400 v / 50Hz	
Precision	G1	
Minimum achievable residual unbalance	$\leq 0.02$ g.mm / kg	
Sequential unbalance reduction	not less than 95%	
Warranty	Two (2) years for hardware and software.	
Spare Parts	Shall be included in the offer	<ul style="list-style-type: none"><li>- Measuring sensors "Accelerometers"</li><li>- Tachometer/phase sensor</li><li>- Support bearing.</li><li>- Extra flat belt</li><li>- Any recommended spare parts.</li><li>- Spare parts are optional.</li></ul>
Software	Life-time free	free upgrade
Training	service Training included in the offer.	<ul style="list-style-type: none"><li>- Machine safe operation</li><li>- Machine maintenance.</li></ul>
General specification	Heavy structure Industrial instrumentations Easy to use.	
Foundation, installation, Testing	Scope of the supplier	

