

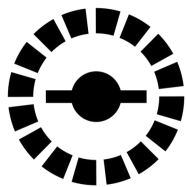
Dynamic Balancing Center

From Ton to Micron

| HIGH YIELD BUSINESS MODEL | PROFITABILITY: **80%**

DBC

INDUSTRY 4.0



**Dynamic
Balancing
Center**
From Ton to Micron

WHAT IS BALANCING?

- this is the elimination of the 3 most common types of imbalance of rotating parts (static, momentary and dynamic), which are the cause of vibration, which, in turn, leads to a decrease of an equipment services and also an increase in energy consumption - up to 50%

Increased vibration of equipment / machines due to the imbalance of rotating parts can also cause unpleasant sensations and negative consequences for the human body

"New Generation Franchise following the
Industry 4.0 technology"

R.R. Gabdrahmanov
founder of the company

Dynamic Balancing Center

- Vibration Diagnostics & Dynamic Balancing outcall company
 - Once an outcall request is received, the specialist arrive to the location, operate vibration diagnostics of the equipment and, in case of deviations, we carry out balancing
 - The associate units of the head office are working independently, receiving centralized assistance and support.
 - Due to well organized structures, the center is able to act flexibly & efficiently on the market
-

Eliminating the imbalance of the rotating parts will allow you to significantly reduce equipment repair costs and improve the quality of machine elaboration

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3 STAGES of DEVELOPMENT



Vibration Diagnostics
& Dynamic
Balancing



Laser alignment
& professional rank
promotion



Launching of the
balancing
workshop

- First earnings in just 4-5 months
- One employee can be enough for a business model to function
- Workshop/office is not required
- We work with an exclusive franchising partnership: 1 franchise on a city with a population of up to 500,000 people, as well as a master franchise



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Vibration Diagnostics & Dynamic balancing

Earning from **\$5.500 per month** by DYNAMIC BALANCING CENTER © franchise.



Stage №1

VIBRATION DIAGNOSTICS

Based on the information received, it is possible to optimize the planning of maintenance and overhaul, increase the overhaul interval, reduce the cost of purchasing spare parts and consumables.

Vibration diagnostics allow you to identify a wide variety of equipment defect, such as:

- imbalance
- misalignment & unparallel shafts
- softness & loosening
- breakage of anchor bolts
- violation of the geometry of the shaft line
- various bearing defects, including lubrication problems

Services:

- Acceptance measurement
- Machine motion analysis
- Load measurement
- Noise analysis
- Vibration Control & Analysis

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Lowest possible cost price of the business model:

- workshop/office is not required
- minimal staff

Vibration Diagnostics & Dynamic balancing

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Stage №1

DYNAMIC BALANCING

Imbalance is most often the main cause of rotating parts' deterioration. Balancing diagnosis is carried out to limit vibrations, loads, forces on the support and deformation of the shafts, thereby prolonging the life of the machine

Dynamic balancing of rotors of any mass: from 0.5 to 36000 kg

The dynamic rotor imbalance is eliminated by dynamic balancing methods, in which the static and moment rotor unbalance are simultaneously reduced. In practice, dynamic balancing - is the process of checking the mass distribution of a rotating rotor and, in the presence of imbalances, a change in this distribution using corrective masses is operated until an acceptable unbalance value is reached.

Services:

- Dynamic balancing of the rotors
- Profile's geometric measurements
- Shafts' parallelism
- Turbine alignment
- Inspection & Deterioration Analysis

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Lowest possible cost price of the bussines model:

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Stage №2

LASER ALIGNMENT

is an accurate, intelligent centering system for rotating machinery. Using laser alignment, you can align the shafts, align the pulleys / blocks, vibration measurements

Laser technology alignment

Technology created taking into account the following principles:

- Simple installation of measuring units;
- Simplicity of measurement and analysis of results.

The whole process can be described by the following actions:

- Assessing the condition of the machine by vibration on the bearing housing (using a vibration analyzer)
- Checking of the bearing play and "soft foot" before alignment
- Measurement & alignment in just three steps
- Record the result of your work with the protocol

Services:

- Rotary shaft measurement
- Rotary Machine Groups
- Determination of thermal growth
- Foundation movements
- Machine movements
- Cardan shafts

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Lowest possible cost price of the business model:

- professional rank promotion
- workshop/office is not required
- minimal staff

Vibration Diagnostics & Dynamic balancing

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Stage №3

STATIONARY WORKSHOP

opens up unlimited possibilities for the production of services for the dynamic balancing of rotating bodies (rotors) of almost any size: from the gyroscope to aircraft turbines

Enterprise-Level Dynamic Balancing

Stationary workshop, goes beyond solving point problems and has the ability to master versatile directions in a wide variety of industries:

- aerospace
- automobile
- oil&gas
- climatic

ADVANCED EQUIPMENT:

- **Micron**
balancing of gyroscopes, automobile turbines, motor anchors and all small rotors
- **Etalon**
balancing of different drive shafts
- **Proton**
balancing of medium and heavy rotors, industrial shafts, flywheels, crankshafts, etc. ...

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Production expansion:

- workshop required
- equipment - machine tools:
Micron, Etalon, Proton.

Vibration Diagnostics & Dynamic balancing

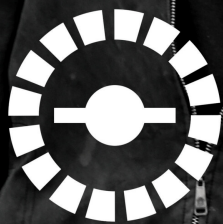
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PARTNERSHIP

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OBTAINING THE FRANCHISE

- Drafting a franchise partnership application and awaiting DBC approval
- DBC provides partners with the following: website, regional customer base, professional equipment and business management tools
- Getting started: operating dynamic balancing services - and, as a result, making a profit
- The partner is still receiving support from DBC, in the form of business model development through the stages and the new customers search assistance.



- Effective business model for investment
- Extremely low cost price of services
- No need for a workshop/office in the initial stages

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SUPPORT

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DBC partners get multi-stage support

- Employee training in vibration diagnostics at Kazan Aviation Institute and Kazan State Energy University within 3 weeks
- Obtaining admission to enterprises and subsequent qualifications of a first-level specialist. Names are entered in the Federal Register of vibration diagnostics specialists. (after a year, retraining for a specialist of the 2nd level, qualifications: Expert)
- Practical classes in the workshops of "Tatkardan" and LLC "Kinetika-M", as well as visits to the enterprises of the customers
- Regional Clients and Connection to the Federal telephone number & Federal web-site for receiving applications
- Equipment necessary for diagnostic activities following the Industry 4.0 standards
- Advice on conducting business and finding clients in an unlimited volume
- Access to our tender department & call - center, where new orders are received daily

Management & Merch:

- **Business processes' automation software:**
1C Enterprise, UNF, amoCRM, ip-tel, UDS
- **Branded specialist rig out:**
"made in Italy" full set
- **All of the promotional materials for marketing:**
pdf documents & presentations, brochures & booklets, etc ...
- **Contract and document templates**

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