Backlash calculator instruction manual

The Backlash calculator app is able to manage the measured backlash of the gearboxes. It provides values to be applied and instruction to perform the measurements, then is possible to store and view each measurement as a graph.



Main page

Touching one of these buttons the user enters the selected section.

Section

Instructions

In this section is possible to view information about the backlash and all the information in order to perform the measures.



Section

Calculator

This section is the control panel of the app, where is possible to set the values and perform the test. On the first page of this section (called Settings) the user have to provide the required values. At the bottom there is an example picture.



After the setting operations pressing the **START** button, the user views the measurement section. On this page, in addition to displaying the values to use, the user have to type the values detected during the measurement (in the **M** box, in 1/100 mm);. In real time is possible to see the backlash.

Press NEXT button to proceed to the next measurement in sequence-

The page with a list of measurements will be opened automatically at the end of the measurements.



when all measurements are performed, the **Measurements list** will be opened automatically. In this window, the user views all the measured values, the graph of the measured backlash, and is also possible to save the datas.



By pressing the **Backlash chart** button a graph of the measurements will be displayed.



By pressing the **Continue** button the users will access to the saving session.

In the saving session is possible to store the measurement session with some information about the gearbox and its manufacturer.

The file name is the only information necessary to save the session.

	Input data report	
	File name Prova	
	Author	
	Gearbox type	
Data input box.	Manufacturer	
	Cod n°	
	Serial n"	
	Vear	
	Save	Button to save all datas.

By pressing the Save button, all the data and graph are saved in the main root of Android, in subfolders and the app goes back to the home page.



In this section the user accesses the report management with the option to view them and send them by email.

Folders list	
₩	Folder list.
The files are located in the main root of Android, into the folder: "Backlash Report / File name /"	
The .txt File contains the report, formatted to UTF code for exporting and opening with a text editor.	
The .png File contains the image of the chart.	
The .rsv File is only for internal use to the app and should not be deleted.	

By pressing one of the folders, the user enters the section of **Reports view** where is possible to see graphs and send text files and its graph by email.

	Report view	
	DATA:	
	Tn-Nominal torque Nm: 24	
	F-Force To be applied N: 2.67 Kg: 0.27	
	LF-Distance of force application mm: 180	1
	LM-Distance of dial application mm: 250	Report view.
	Qm-Amount of measurements: 9	
	MEASUREMENTS:	
	Measurement n° 1 0° 1.7' Measurement n° 2 40° 2.9'	
	Measurement n° 3 80° 2.6 Measurement n° 4 120° 2.3'	
	Backlash chart	Button to display the graph.
utton to send the sport.	Send @	

Press the back button to return to the previous page.