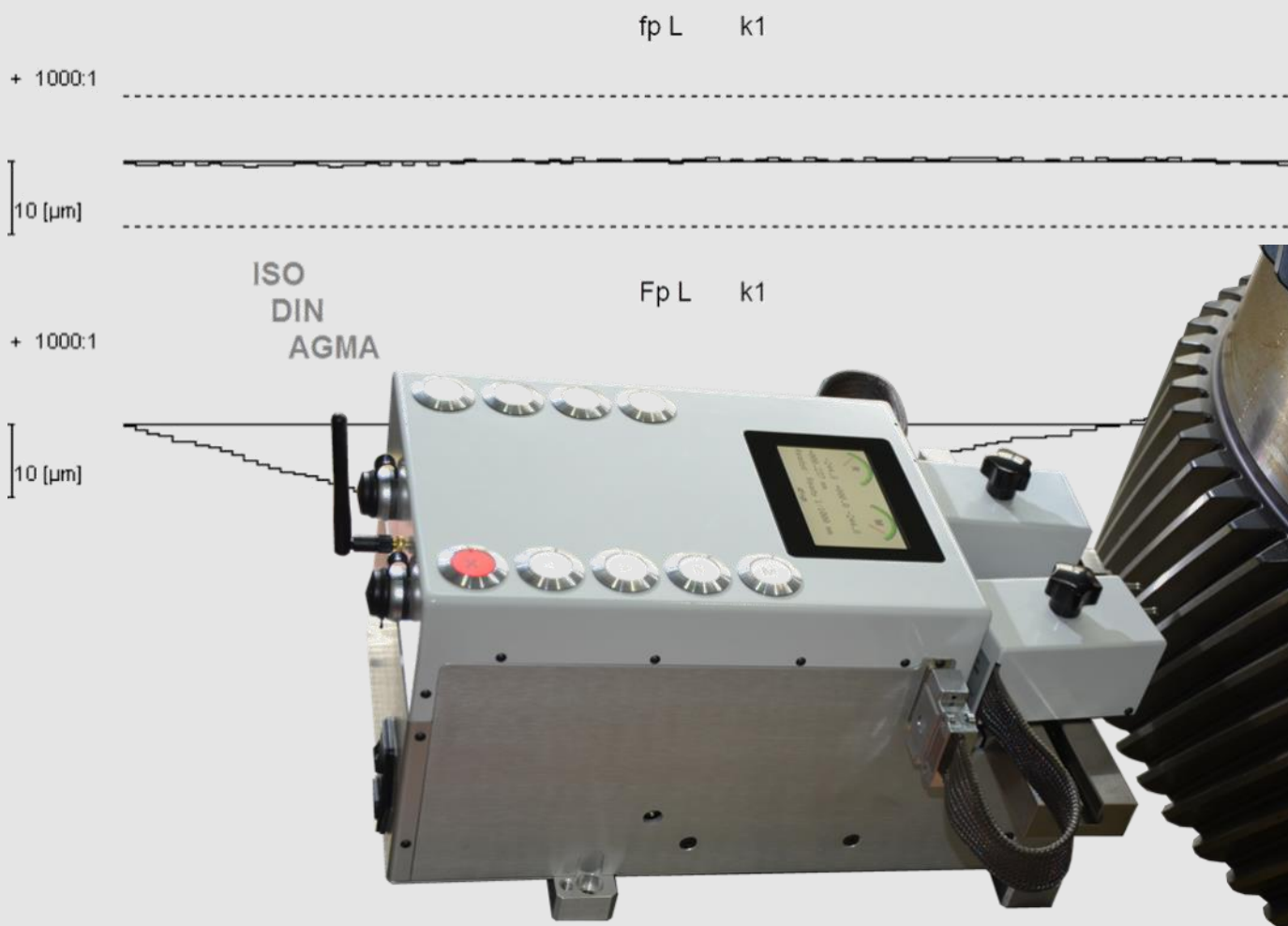


Portable Inspection Solutions:

ES4100 PITCH INSPECTION UNIT



The measuring Instrument

The new portable pitch measuring instrument ES 4100 offers an extremely exact method of measurement based on the principle of chord measurement (comparator method). A high degree of operational convenience is possible due to the built-in processing of the measured data.



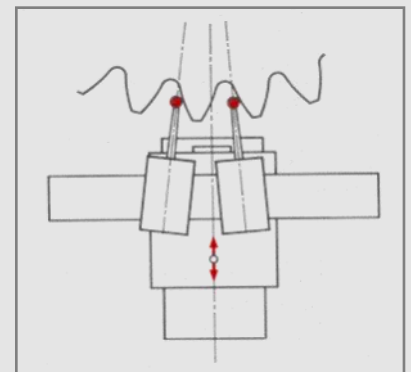
The quality level of the gear teeth is easily determined thanks to the evaluation software according to ISO, DIN or AGMA standards. The measured values are displayed on a small 4.3" TFT display. The evaluation is displayed via WiFi on a rugged 10.1" tablet with Windows 10 professional and can be stored as a PDF file or printed out.



Existing pitch measuring instruments MAAG ES401 can also be updated on request.

Operation

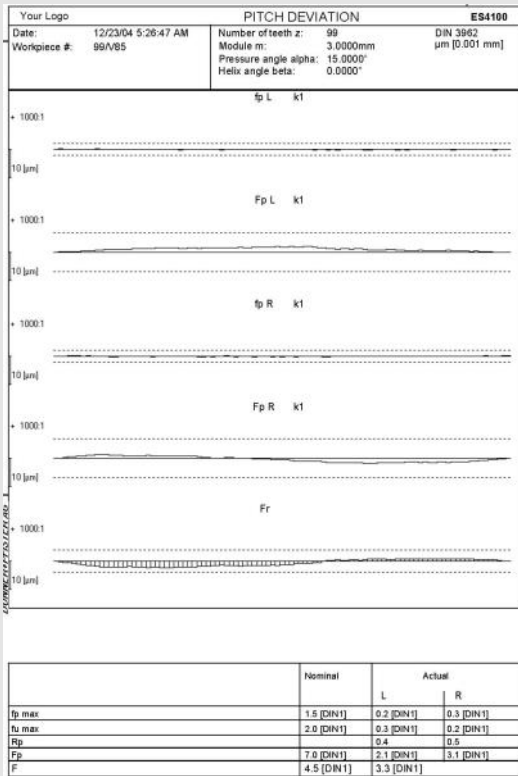
The portable pitch measuring instrument can be used in many production locations. The only prerequisite for its use is a slowly rotating work-table or an appropriate arrangement between centres, where the work piece to be measured can be accommodated. The instrument is therefore employed directly on the machine tool or as a supplementary device on measuring centres.



The operator is guided through the setting up and the measurement. The tuition time is minimal, and the measurements are performed automatically.

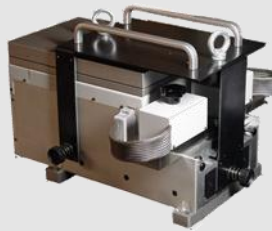
The measurements are stored automatically and can be recalled via the part numbers identifications.

The Result



A record with the requested and the actual quality printed out or as PDF file.

For a safe handling is a transportation box and hood provided



Transportation hood



Transportation Box

Options



Runout probe

Specifications:

Modul	1-40 mm
Measuring range	±500 µm
Resolution	0.2 µm
Accuracy	±1 µm
Measuring ball	
collet chuck	8mm
Weight	1.6 kg
Accessories	Transportation box

Internal measuring arm

Specifications:

Maximum measuring path	35 mm
Modul	1-20mm
Maximum measuring depth	125 mm
Span with probes	40 mm
Minimum diameter capacity	250 mm
Dimensions:	230 x 230 x 170 mm
Weight:	5 kg
Accessories:	Transportation box Necessary screws and tools



Technical Data

	Metric	Inch
Workpiece Diameter min/max	10mm/unlimited	0.394"/unlimited
Standard Module / DP	1 - 40 Mod.	25.4 - 0.635 DP
Larger Modules / DP	on request	on request
Standard Number of Teeth	up to 999	up to 999
Higher Number of Teeth	on request	on request
Circumferential speed of workpiece, variable	1 - 10 mm/sec	0.039"- 0.394"/sec
Left/right hand measurement changeover	motorized	motorized
Radial Slide adjustment (range)	70 mm	2.756"
Probe span (max)	250 mm	9.84"
Magnification for diagrams selectable	100,250,500,1000,2000	100,250,500,1000,2000
Net weight (approx)	35 kg	78 lbs
Dimensions of ES4100 unit	550x350x250 mm	21.65"x13.78"x9.84"
Measuring range	± 250 µm	± 0.00984"
Accuracy	VDI 2613 Group I	VDI 2613 Group I
Measuring range	±500 µm	± 0.0197"
Accuracy	VDI 2613 Group I	VDI 2613 Group I
Larger measuring ranges	on request	on request
Power requirements	110/220 Volts, 50/60 Hz. ± 10%	
Machine Colour	Light grey	Light grey
The evaluation comprises of the following parameters and evaluated per	ISO 1328, AGMA 2000, 2015 and DIN 3962	
Numerical printout of individual tooth values for each tooth is also possible in text and Excel file.		

Further information and our overseas representatives can be found on our website
www.dpag.ch



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