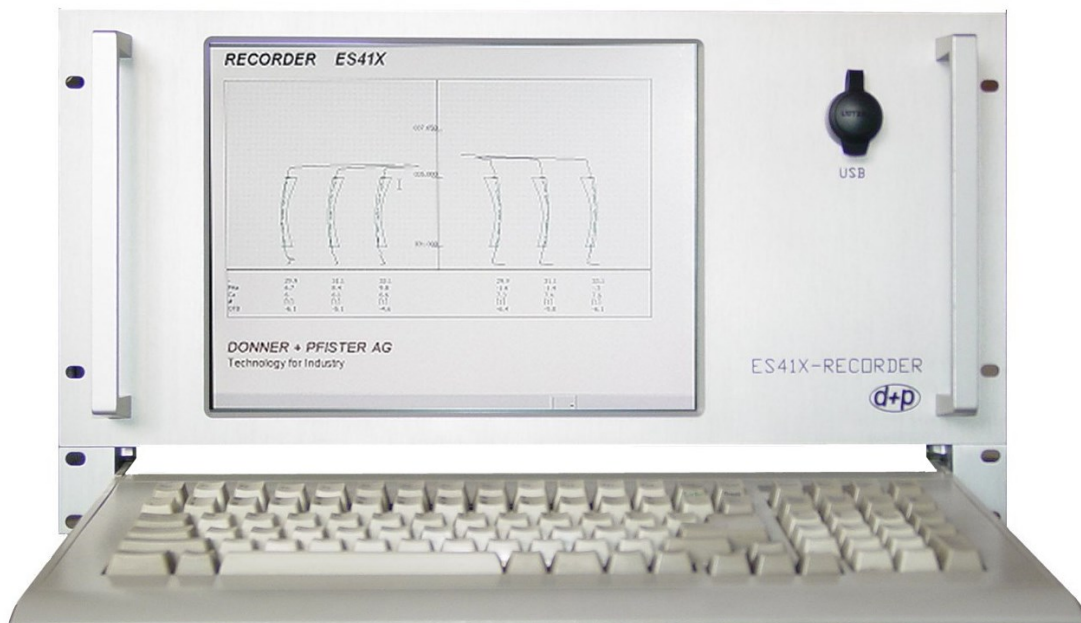


ES41X RECORDER

Plug in replacement of MAAG ES-410
ES-411
ES-412
ES-415
ES-416

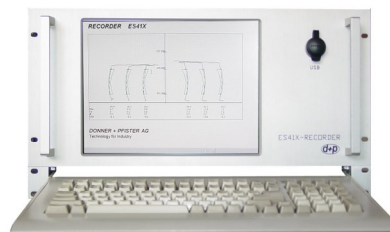
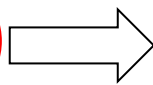
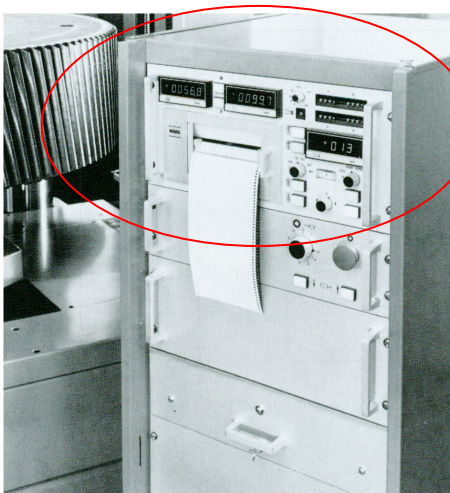


The measuring instrument

RECORDER ES-41X

Plug-In Replacement for MAAG Measuring and Recording Unit:
ES-410/ES-411/ES-412/ES-415/ES-416

Of the Gear Measuring Machines:
SP60/SP130/SP160/SP200 Series



ES-41X Recorder 19" Unit
Inbuilt graphic and evaluation

Test results and their analysis on standard
A4 or Letter paper:

Profile	$F_{\alpha}, f_{f\alpha}, f_{H\alpha}, f_{Ham}$
Helix	$F_{\beta}, f_{f\beta}, f_{H\beta}, f_{H\beta m}$
Crown	C_{α}, C_{β}

-Quality numbers as per ISO, DIN, AGMA..
-Inch and roll degree

With optional software on USB memory-stick :

-Tolerance bands
-Design curves
-Preparation of data

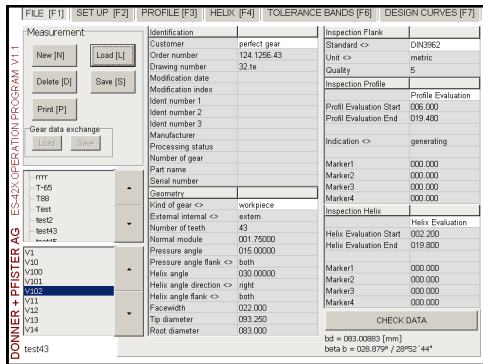
Accessories:

-Keyboard
-Laser Printer
-USB memory-stick
for storing documents in PDF format

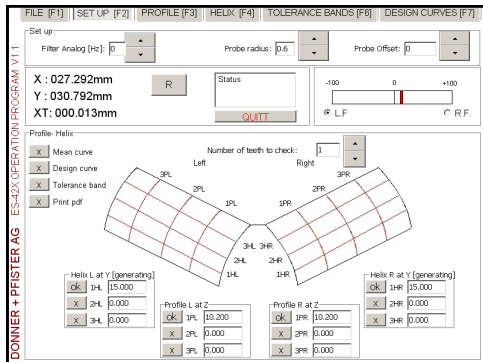


ES-41X Recorder 19" Unit with keyboard
in a SP130

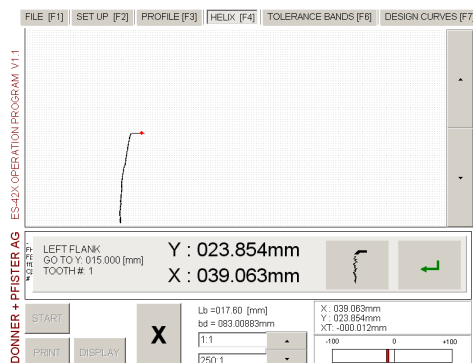
Operation



The operator is guided through the setting up and the measurement where the tuition time is minimal.



The quality of the gear is easily determined by the evaluation software to ISO, DIN or AGMA standards.



Online display during measuring.

For documentation the results can be printed out via standard laser printer or stored to the USB memory stick as a PDF.

HMI:

Interactive Touch panel and Keyboard

Interfaces:

2 x USB; 1 x Ethernet

Quality numbers as per :

ISO 1328, AGMA 2000, 2015 and DIN 3962

Test results and their analysis:

Profile	$F_{\alpha}, f_{f\alpha}, f_{H\alpha}, f_{Ham}$
Helix	$F_{\beta}, f_{f\beta}, f_{H\beta}, f_{H\beta m}$
Crown	C_{α}, C_{β}

Graphic representation:

Up to 4 teeth with 3 sections

Input:

Roll degree, path of generation, radius or diameter
Inch or metric.

Net weight (approx.):

12 kg 26.4 lbs.

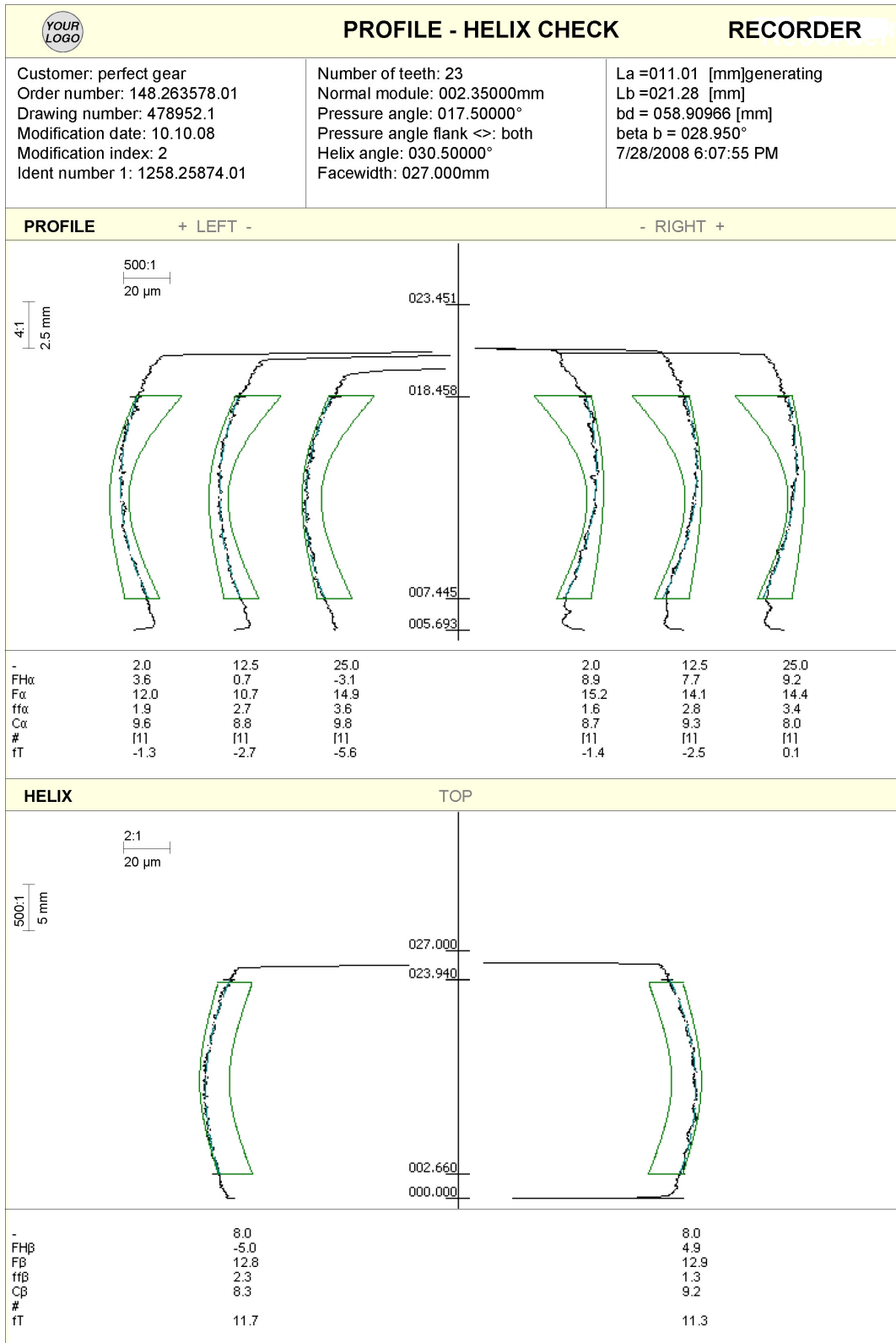
Dimensions of ES4100 unit:

482 x 222 x 405 18.9" x 8.7" x 15.9"

Power Requirements:

110 / 220 Volts, 50/60 Hz. \pm 10 %

The result



DONNER+PFISTER AG TECHNOLOGY FOR INDUSTRY

Flexible documentation also as PDF file.

The company



1989

Foundation of the d + p AG.
d+p is a Ltd. Co. with a share
capital of SFr. 100'000.-.

Development of the prototype control system for gear
grinding machines.

1992

Occupation of the new building in Nuolen.
Development and manufacture of
control systems for gear grinding
machines in world-wide operation.

2000

Development of electronically
generation head.

2001

Occupation of the new workshop
in Wangen.

2002

Development of pitch measuring device ES4100

2004

Certification ISO 9001:2000

2005

Development of conical involute grinding

2006

Development of new CNC version V3

2007

Development of new pitch measuring
device ES4100

2008

Development modernizing MAAG SP42, ES430 and
ES Recording-Unit

2012

Development of Hob checking control

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