



***ULTRATECH Ltd. - partner
in MagForming Project
(EU 6FP Contract No.036852)***



ULTRATECH was founded in the year 2000 as
Polish owned private limited company (Ltd.)

**27 July 2000 – ULTRATECH's
Ltd. Court registration**



In the end of year 2000 – the first CNC Japanese milling centre and
German 3D measuring machine (Zeiss) were started to work



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ULTRATECH's location outside of Rzeszów

- * at Przeworsk City (32 km east of Rzeszów) –
250 sqm production room rented for performing of
polishing operation of the steam turbine and gas
turbine blades (15 people)
- * at Sędziszów City (25 km west of Rzeszów) -
where the biggest ULTRATECH's machines
(FIDIA K214 and OKUMA MacTurn 350)
are located.



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- * **ULTRATECH** is a member-founder of Aviation Valley Association in which is represented in Association's Board by Marek Bujny.
- * Since April 2007 **ULTRATECH** have external independent approval made by German TUV Nord. Quality system is based on aviation EN9100 (AS9100)
- * **ULTRATECH** have DSQAR status in Goodrich as first company in Poland and one of the few companies in Europe and Asia.
- * **ULTRATECH** is Goodrich, WSK Rzeszów (UTC), General Electric, British Aerospace, PZL Mielec, Moog, HUTCHINSON and Selex Galileo approved supplier.
- * **ULTRATECH** have USA licence for production parts for Sikorsky Black Hawks.
- * **ULTRATECH** have signed agreement with Polish Army (production of military products – blades for polish jet trainer ISKRA)
- * **ULTRATECH** is the sole supplier in the world for over 50 different items for Boeing 737 (landing gear components)



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- **Staff (70 persons now):**

- Managers: 3
- Designers, process planners: 12
- Commerce : 2
- Quality department: 6
- Direct workers: 46

- 12 engineers and 4 persons after other university graduated
- 54 technicians



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ULTRATECH's activity

- * Machining of high precision aviation parts
- * Machining of blades for steam turbines, gas turbines and jet engines
- * Aviation deburring
- * FPI (Fluid Penetrant Inspection) approved by Nadcap
- * Electrochemical Etch marking of aviation parts
- * Assembly
- * Design of special production tools
- * Research programs (6th Framework Programme of EU – MagForming (Contract Number 036852)



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Main customers

Goodrich Krosno (landing gear)	65 %
INWAT (steam turbine overhaul)	13 %
Zakład Metalurgiczny WSK „PZL-Rzeszów”	5 %
WSK „PZL-Rzeszów” (aircraft engines)	4 %
ALSTOM POWER Elbląg	4 %
RCL Industries Ltd.	2 %
Bryk	2 %
2 Polish research programs	2 %
Others	3 %



Main equipment

* Production machines -

Japanese machines:

- 8 CNC centres

- 5 CNC lathes

- new big 5-axis italian high speed milling centre
FIDIA K 214

- and several conventional machines

* German CMM machine
Zeiss Vista

* CAD/CAM software system
Unigraphics NX4 — 2 licence



EXAMPLE OF PARTS WE PRODUCED



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MagForming

Development of New **Magnesium Forming**
technologies for the Aeronautics Industry
(Contract Number 036852)

- * Start date : 1 August 2006
- * ULTRATECH's budget in MagForming: 343 102 Euro



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MagForming work packages :

- * Large scale forging
(*ULTRATECH is taking part in this WP*)
- * Small / medium scale forging
- * SPF (super plastic forming) / hydroforming
- * Deep draw
- * Roll bending
- * Pad / rubber forming
- * Creep forming



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MagForming

PART B

Development of **Magnesium Forming**
Technologies for the Aeronautic Industry.

Date of preparation: TBD

Type of instrument: STREP

Thematic Priority: 1.4 Aeronautics and Space

Technical domain: TBD

List of participants

The Coordinator

Company: **Palbam-AMTS**

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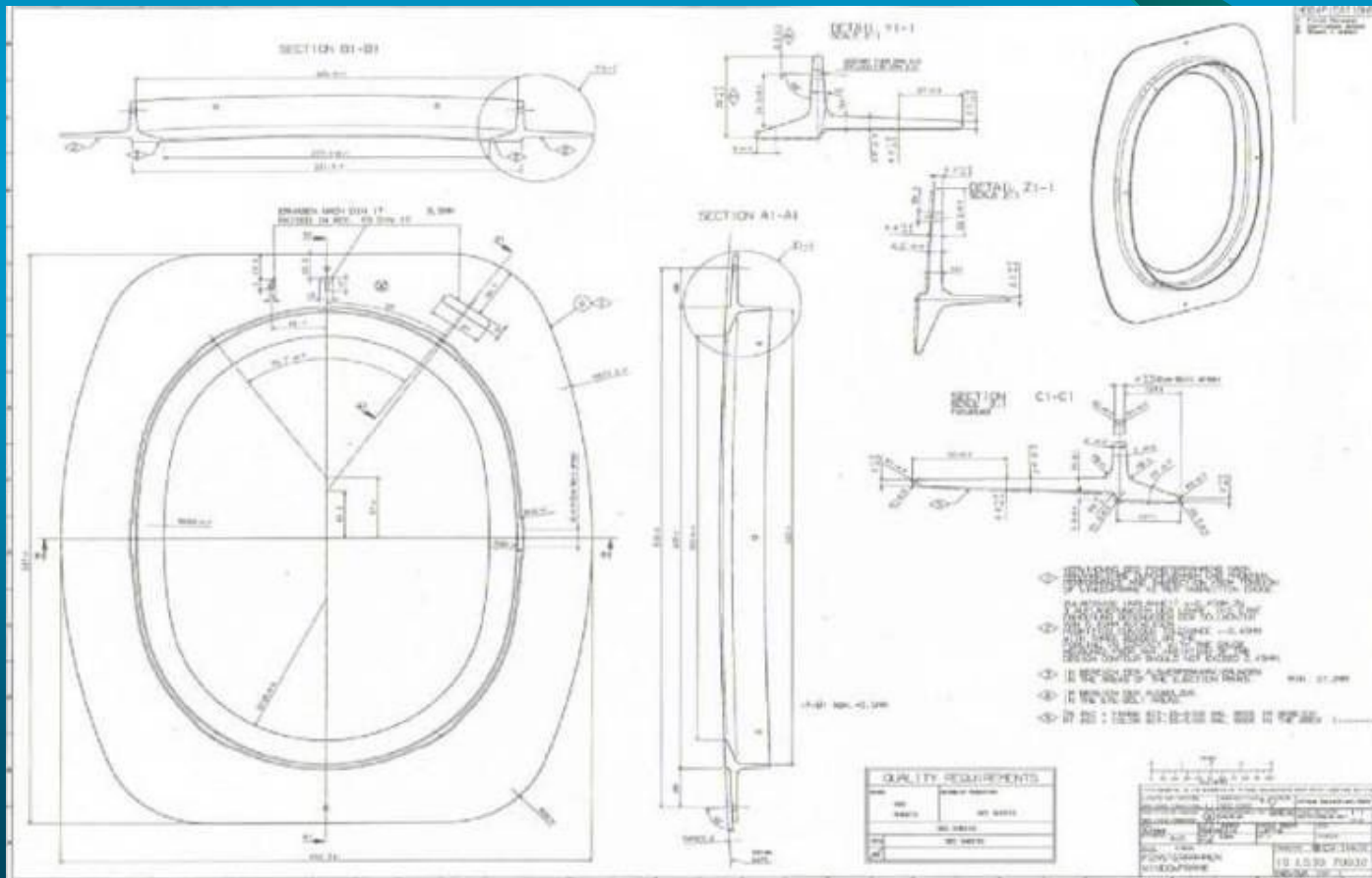
Fax: +972-4-6531904

No	Participant Name	Short name	Country	Role	Type
1	Palbam Metal Works	Palbam-AMTS	IL	Coordinator	SME
2	EADS Deutschland GmbH	EADS CRC	D	Contractor	Research
3	Magnesium Elektron Ltd.	MEL	UK	Contractor	Industry
4	Airbus Deutschland GmbH	A-D	D	Contractor	End-User
5	Israel Aviation Industry	IAI	IL	Contractor	End-User
6	Liebherr Aerospace S.A.S.	LTS	F	Contractor	End-User
7	SMW Engineering	SMW-E	RU	Contractor	SME
8	Chemetall GmbH	Chemetall	D	Contractor	Industry
9	Ultratech	Ultratech	PL	Contractor	SME
10	Alubin	Alubin	IL	Contractor	SME
11	Department of Metal Physics, Charles University, Prague	CUNI	CZ	Contractor	University
12	Institute of Metal Forming, Hannover University	IFUM	D	Contractor	University



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***ULTRATECH is responsible for preparing forging die
for this demonstrator (window frame for Airbus 340)***





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forging die prepared in ULTRATECH





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Thank you for your attention

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