

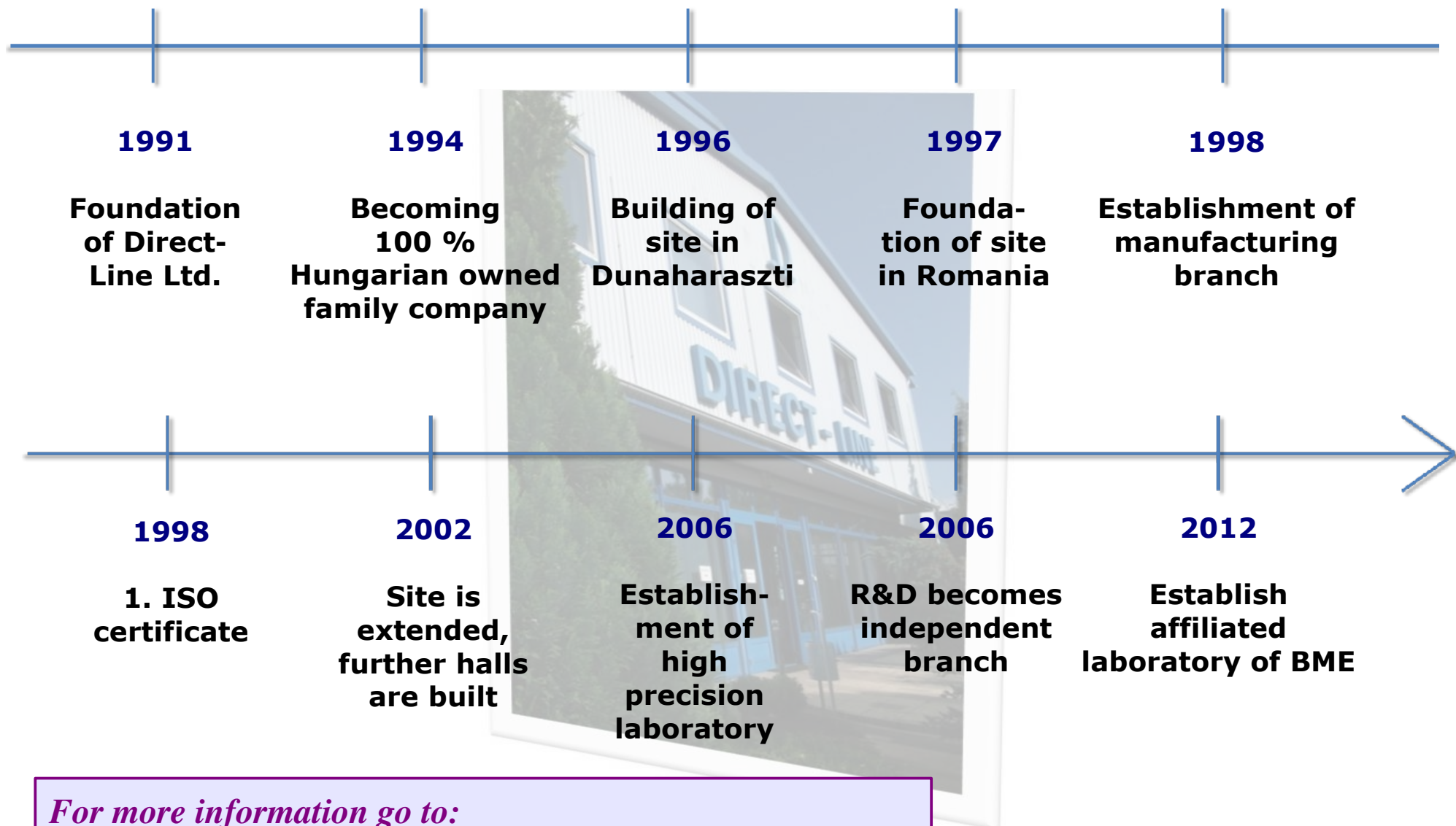
Presenting Direct-Line...



info@dldh.hu, www.dldh.hu



Introduction



For more information go to:

http://www.dldh.hu/wp-content/uploads/2012/11/dl_about_directline.pdf

<http://www.dldh.hu/products-3/exfactory/individual-projects?lang=en>



Fields of activity

R&D

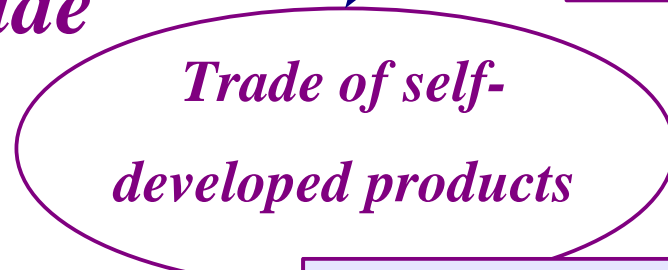


For more information go to:
<http://www.dldh.hu/r-d/development-areas?lang=en>



For more information go to:
<http://www.dldh.hu/products-3/our-services/engineering-services?lang=en>
<http://www.dldh.hu/products-3/exfactory/individual-projects?lang=en>

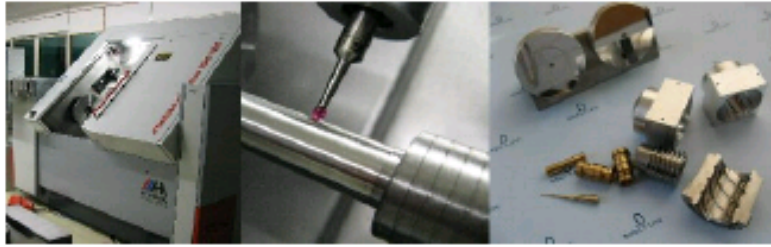

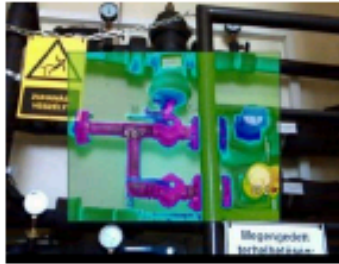


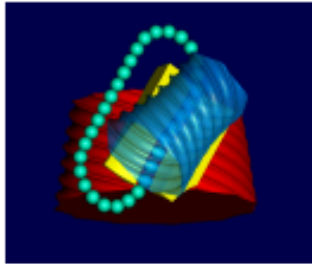
Trade



For more information go to:
<http://www.dldh.hu/products-3/products?lang=en>



Research and Development at Direct-Line

Ultra precision machining	IT-development: HaXSoN		
			
ERP systems	Product and technology rationalization		
			
Energy rationalization	Sewage water technology	Systematic engineering design	Roller gearing

Find out more about our research areas:

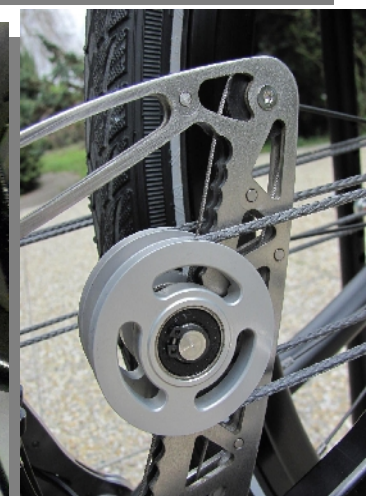
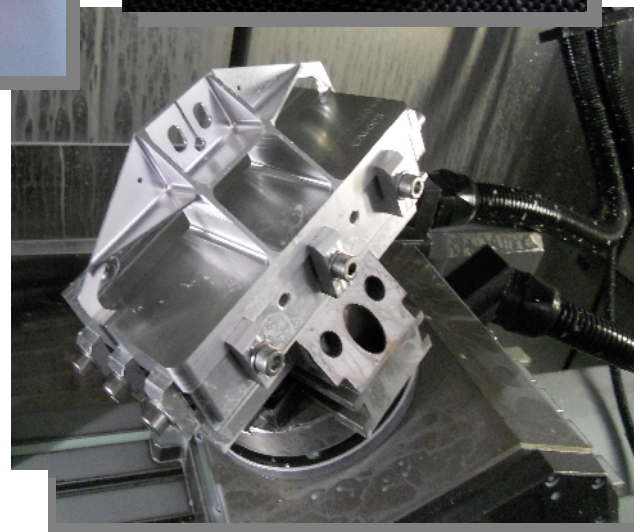
<http://www.dldh.hu/r-d/development-areas?lang=en>



Our exclusive R&D partners



- *Gömböc*
- *CERN*
- *Admatis - ESA*
- *Fraunhofer Institute Aachen*
- *KFKI*
- *BME*
- *Schwinn Csepel: Stringbike*
- *etc.*

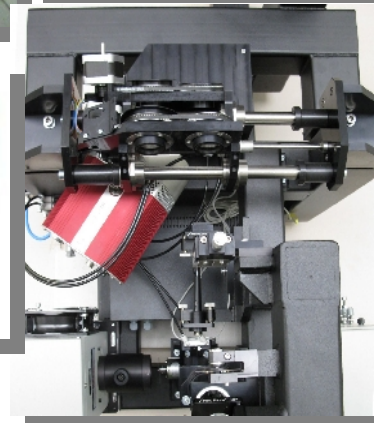


M Ű E G Y E T E M 1 7 8 2

 **FlexiSTAT**

effective
automated
safe
integrated

TP
hard turning
polishing



For more information go to:

<http://www.dldh.hu/about-us/divisions/research-and-development?lang=en>

<http://www.dldh.hu/r-d/development-areas?lang=en>

Educational activity, academic cooperation

- *External laboratories of BME*
- *Consultation and review of semester projects, BSc and MSc diplomas*
- *Consultation and review of PhD dissertations*
- *Members of state exam panels*
- *Giving laboratory practices*
- *Factory visits*
- *Coordination of international student projects*
- *Giving university lectures and tutorials*
- *Professional consultations*
- *Summer internships*
- *Manufacturing of student design prototypes*
- *Open Days at universities*



HaXSoN *Hardware-XWindow-Software-Network*



Integrated hardware-software system for professional use, which arranges Xwindow based terminals into a network



High number of applications

Not a box-software

*Open source code,
but closed system*

Extremely cost efficient

High security against internal and external attacks

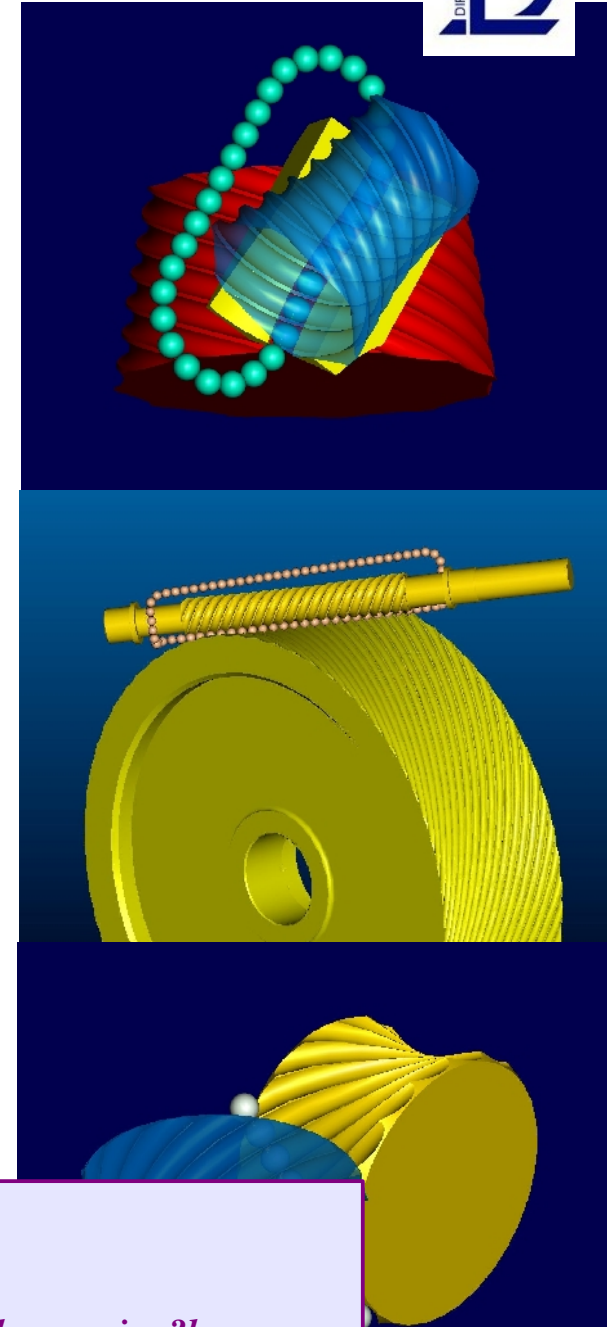
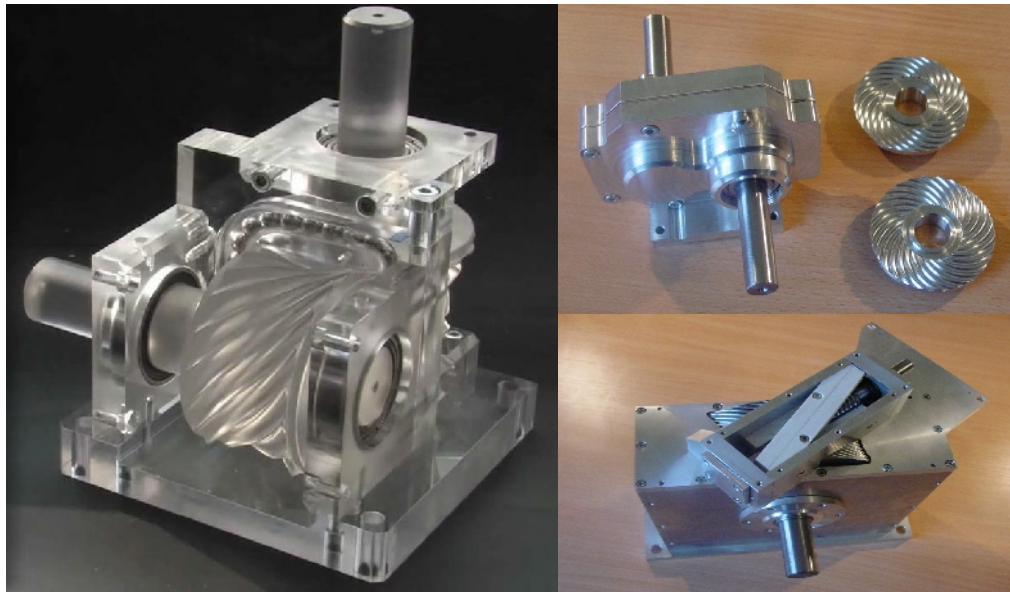
For more information go to:

http://www.dldh.hu/wp-content/uploads/2012/11/dl_haxson_catalogue.pdf

<http://www.dldh.hu/r-d/development-areas/it-development-haxson?lang=en>

Roller gearing transmission

- *New driving machine element system*
- *Patented in 50 countries*
- *Driving and driven elements are connected via balls in slots with special, very complex geometry*
- *Small friction, small driving torque, high efficiency*
- *Arbitrary axis arrangement*
- *Economic production technology is in development*
- *Application: vehicle, aeronautical industry, CNC*




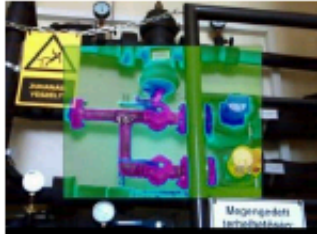


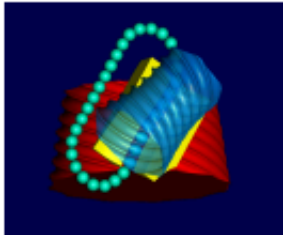

For more information go to:

http://www.dldh.hu/wp-content/uploads/2012/05/roller_gearing_mechanism.ppt

<http://www.dldh.hu/r-d/development-areas/product-and-technology-rationalization/roller-gearing?lang=en>

http://www.dldh.hu/wp-content/uploads/2012/10/dl_roller_gearing_catalogue.pdf

Engineering Services at Direct-Line

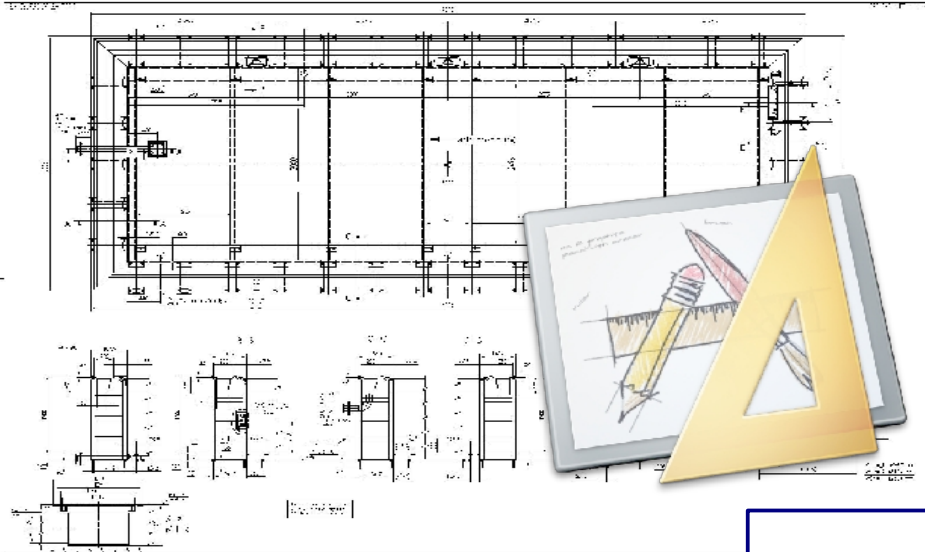
		
Developments related to ultraprecision machining	Energy rationalization	Development and Deployment of Solar systems
		
Design and production of products or target machine units	Design and production of roller gearings	Design and production of industrial, drinking water and waste water systems

Find out more about our Engineering Services:

<http://www.dldh.hu/products-3/our-services/engineering-services?lang=en>

Overall implementation

1. Design



2. Manufacturing

3. Installation



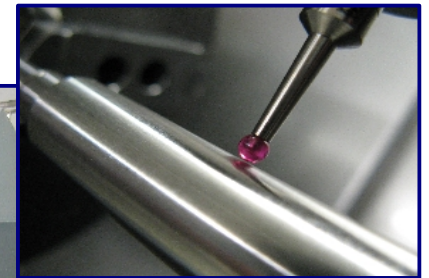
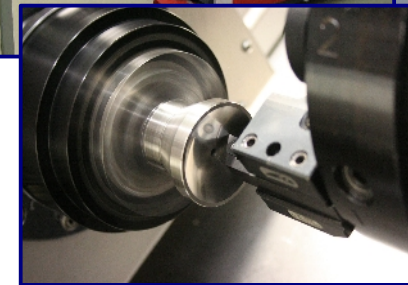
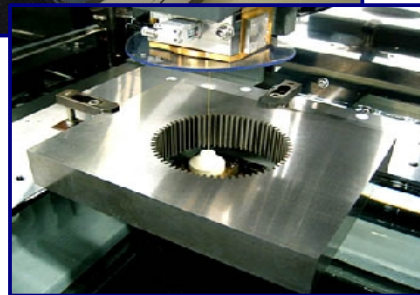
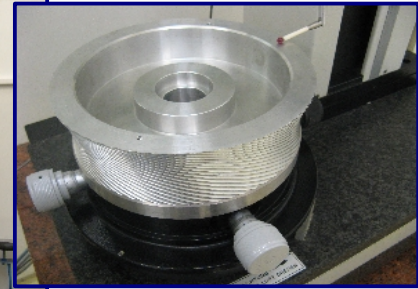
For more information go to:

<http://www.dldh.hu/products-3?lang=en>

<http://www.dldh.hu/products-3/exfactory/individual-projects?lang=en>

Technological capacities

- *Turning*
- *High precision turning*
- *5 axis milling*
- *Wire EDM*



For more information go to:

<http://www.dldh.hu/r-d/development-areas/development-of-high-precision-technologies?lang=en>
http://www.dldh.hu/wp-content/uploads/2015/01/dl_up_catalogue_2015.pdf



Measuring laboratory

FAG FMS 2100 roundness meas. equ.

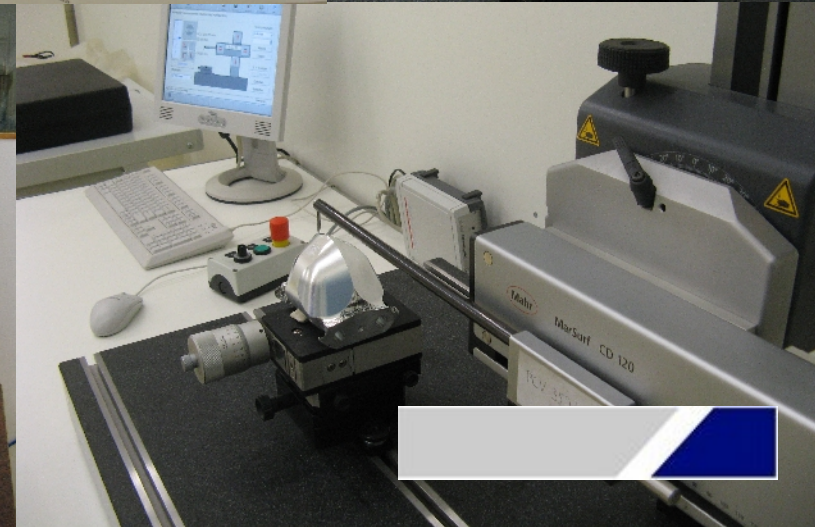
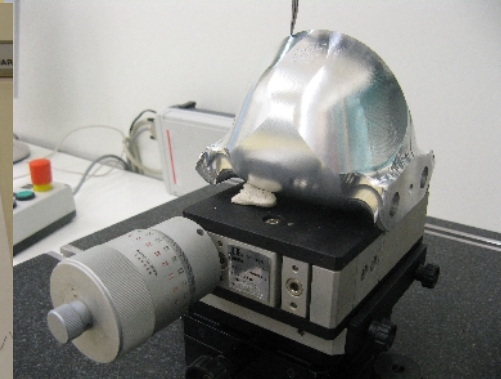
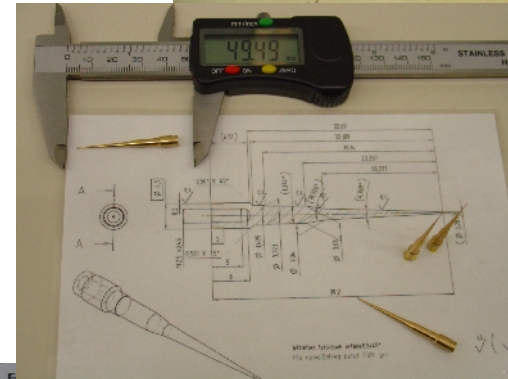
MAHR MarSurf CD120 profile meas. equ.

Perthen Perthometer C5D roughness meas. dev.

Zeiss measuring microscope

Zeiss Abbe vertical optimeter

Manual measuring equ., master gauges



Manufacturing of industrial equipment

Stainless steel solar collectors



Sewage water equipments



Vacuum distillation system



Heat exchangers



Ventilation towers



Drainage devices



Find more information about our REFERENCES here:

<http://www.dldh.hu/referenciaink>

<http://www.dldh.hu/products-3/ex-stock/finished-products/structural-engineering-equipments?lang=en>

Product categories

			
Loading stations and transfer systems	Drain systems	Bath technology	Structural engineering
			
Street furniture	Railing systems	Products for the construction industry	Accessories for horticulture

Find out more about our product categories:
<http://www.dldh.hu/products-3/products?lang=en>



Loading and transfer stations



Steel constructions, podiums

Top and bottom loading arms

Folding stairs

System features:

- *Leak-free technology*
- *Steam exhausting, vapour back diverting mechanisms*
- *Overload sensors and blocks*
- *Final position switches, emergency alarm equipments*
- *Pneumatic movement of loading arms*
- *Touch protection, earthing*
- *Unloading and loading in closed system*
- *Explosion safe layout*



For more information go to:

http://www.dldh.hu/wp-content/uploads/2013/05/dl_loading_stations.pdf

<http://www.dldh.hu/products-3/exfactory/loading-stations?lang=en>



DL - Drain systems



Trench drains



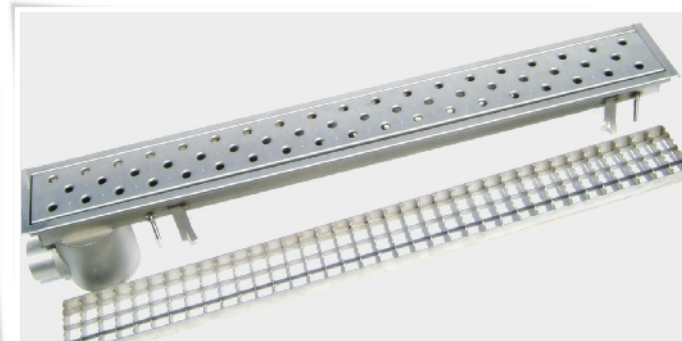
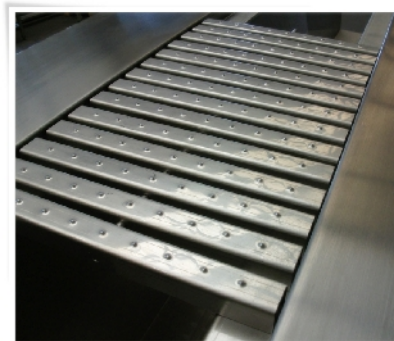
Slot drains



Drain boxes



Pool grids



Besides production of standardised module elements we undertake the design, production and local implementation of individual drain solutions.

- Large scalability
- Wide selection
- Easy level setting
- Electrical earthing
- Easy to keep clean, lasting layout
- Large draining and bearing capacity
- Certified, complies with HACCP

For more information go to:

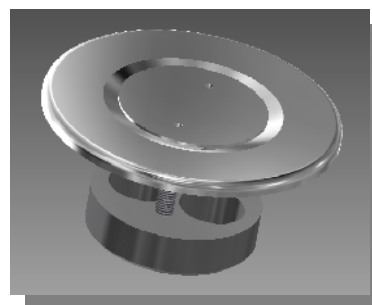
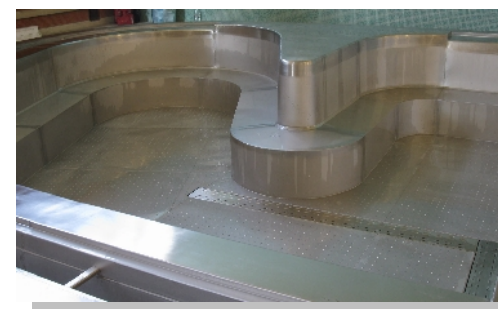
http://www.dldh.hu/wp-content/uploads/2012/10/dl_drain_catalogue.pdf

<http://www.dldh.hu/products-3/exfactory/drain-systems?lang=en>



DL - Stainless steel swimming pools

DIRECT LINE KFT.
D



For more information go to:

http://www.dldh.hu/wp-content/uploads/2013/10/dl_bath_technologies_catalogue.pdf

<http://www.dldh.hu/products-3/exfactory/bath-technologies?lang=en>



DL-drainback solar collector system



Heat transmission medium is water



Environmental friendly

Heat exchanger in the secondary circle



Hygienic, no dead hot water

Open system



Pressure keeping vessel not required

Stainless steel base material



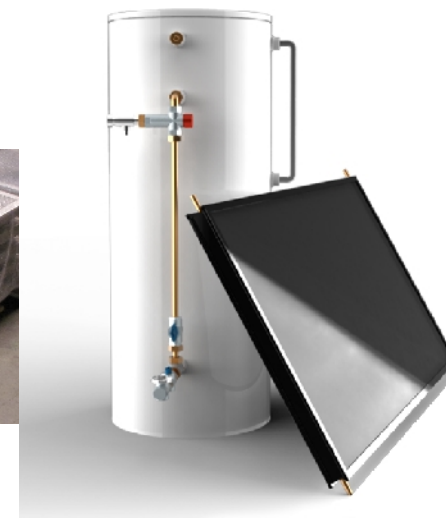
Almost limitless lifetime

Minimal heat loss



High system efficiency

*Specific investment, operation and maintenance costs
are lower than for traditional solar collector systems!*



For more information go to:

http://www.dldh.hu/wp-content/uploads/2012/11/dl_solar_collector_systems.pdf

<http://www.dldh.hu/products-3/exfactory/solar-system?lang=en>

Street and urban furniture



Benches and seats



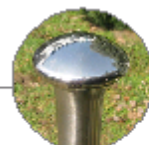
Garbage bins and ashtrays



Bycicle racks



Drinking fountains



Guiding rails and street columns



Billboards



Flower boxes and tree grids



For more information go to:

http://www.dldh.hu/wp-content/uploads/2013/12/dl_street_furniture_catalogue.pdf

<http://www.dldh.hu/products-3/exfactory/street-furniture?lang=en>

“Puritan” spraying machine



Operation

*Pressurizing the tank with car pump or compressor
6 bar pressure sprays out complete liquid amount
Problems related to gas engine do not appear*

Comfort

*Power source does not have to be carried
Easy to handle
Noiseless operation*

No risk of fire

Safety

No moving parts endangering user

Long lifetime

*Tank made of stainless steel, resists aggressive media
No unnecessary and moving parts
Auxiliary parts standardized, made of elastic polymer*



For more information go to:

<http://www.dldh.hu/products-3/ex-stock/finished-products/accessories-for-horticulture/10234-2?lang=en>

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