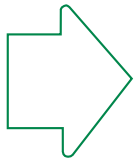




LANNER[®] 
The Specialist for chip processing



Ideas. Systems. Success.



Environment, costs and high commodity prices. There are so many good reasons to turn chips, grinding sludge & Co. into ready cash and to feed them back into the raw material workflow, since these precious materials are more than just industrial waste.



Rely on leading technology. With ideas, know-how and experience we create the necessary conditions in order to process your chips and your coolants at an optimum.

>>> In an effective, economic and ecological way.

At a glance.



Foundation	1987
Management	Klaus Lanner
Headcount	30

We offer

- single components and complete systems for
- > chip processing
- > sludge processing
- > coolant processing

Our customers include

- > the automotive industry and supplier
- > turned part manufacturers
- > the recycling industry
- > foundries



We develop single components and individual all-in solutions for the chip and grinding sludge processing.

Thereby, we provide advice, construction, controls, production, assembly and after sales service from one source.

Even for special customer requirements we always find a suitable solution.

World wide leading – and absolutely „Made in Germany“ for more than 20 years



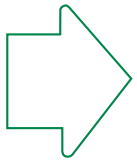
Headcounter

Our company was founded 20 years ago.

A team of highly qualified staff with innovative, technical solutions and top class service are a sure way to gain the technical lead in the capital goods market.

The result: LANNER® systems are planned, constructed and made in our plant – and are in great demand on the world-wide market.

Whenever it's about dry chips and coolant recovery.



Much more than state-of-the-art.

Systematically for quality.

Lanner Anlagenbau GmbH has been certified in accordance with ISO 9001:2000 and 14001 since 2004.

The LANNER® systems comply with the current national and European regulations for environmental protection.



The trademark LANNER® stands for high-tech and innovation, as well as quality, advice, service and local presence. Our complete product range and service capacity is at your command.



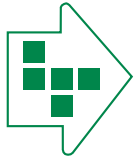
Our sales partners

Our service team assembles your LANNER® system on site. With an extra concluded service contract we assure an annual certified inspection by a LANNER® technician. This ensures a best possible reliability over the complete life-time of the product.

During the inspection, the proper state of every LANNER® product is documented in the machine's testing log and awarded a seal of approval.

LANNER® systems are built to last with minimum wear and tear. But even the best machines need the occasional spare part. For this reason we always keep a stock of spare parts in our warehouse in Kippenheim. In this way we can reduce the standstill periods of your machine to a minimum.





Complete know-how, perfectly combined.



The components are ideally matching; the complete system can exceptionally be integrated in the production process: LANNER® systems simply are more efficient.



We always offer the system, which meets your specific requirements. From the small and compact Vetamat® system to the complete processing system with a high throughput.

The fully automatic LANNER® recycling concept:

1. Long and woolly chips containing coolant are tilt into the infeed hopper of the chip crusher.
2. Here, the chips are crushed of a defined size. Tramp metals are ejected by an automatic tramp metal ejector.
3. A subsequent conveyor feeds the crushed chips onto a screener.
4. The screener separates probably existing tramp metals from the crushed chips in an absolute reliable way. The crushed chips are feed into the centrifuge.
5. The centrifuge separates the coolant from the chips up to a minimal residual moisture content.
6. Afterwards, the centrifuged chips are conveyed into containers or silos.
7. The separated coolant can be processed and directly used in production again.
8. The complete system is controlled automatically from a central control cabinet.

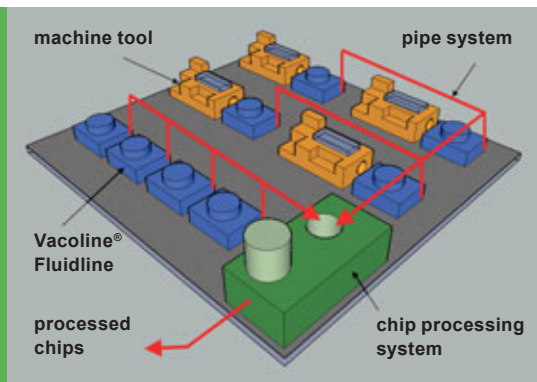
Chip processing systems

Complete chip processing systems, designed and built according your requirements. Customized systems made by LANNER® are available as all-in solutions. Our systems are able to process different types of chips and sludge and coolants with minimal mixture. The throughput of these systems is up to 10 t/h.

Advantages of a LANNER® chip processing system:

- > All components are made by LANNER®
- > Customized all-in solutions
- > Maximum throughput due to ideally matching components
- > Start-up on site by LANNER® technician
- > High reliability





Vacoline® and Fluidline:

Chips logistics: flexible & clean

The Vacoline® is a fully automatic solution for crushing and transporting chips per pipe system. Therefore the system relies on suction per vacuum, which is directly integrated in the machine tool instead of a chip cart.

Advantages of the Vacoline®:

- > Internal chip transport is not necessary anymore
- > Highest flexibility in the production planning
- > Easily expandable at any time
- > Local crushing – central processing

With the Fluidline, the crushed chips and the coolant are fully automatically pumped away for further processing.

Advantages of the Fluidline:

- > Internal chip transport is not necessary anymore
- > Easily expandable at any time
- > Can be integrated into the central coolant supply of the machine tool
- > Local crushing directly at the machine tool

Both systems use the approved LANNER® chip crushers S30GF and S50GF with automatic tramp metal separator.

Vetamat®: Chip processing – compact and ready-for-use

With the patented Vetamat® system the metal chips and/or grinding sludge are reliably separated from the coolant. The throughput of the Vetamat® systems can reach up to 2.000 kg/h. The complete systems include a centrifuge, a conveyor with tank, as well as an oil tub and control. With the add-on system the Vetamat® can optionally be expanded with a feed bunker, chip crusher, chip cart dumper, tramp metal separator, material separation as well as coolant treatment.

Advantages:

- > Very short start-up
- > Turnkey execution
- > Low space requirements
- > Very good accessibility
- > Add-on system
- > Oil tub according WRA
- > High reliability
- > Approved LANNER® technology
- > Fully automatic operation with standby function
- > Expandable for processing long chips and coolant cleaning system
- > Can be fitted and removed from three sides



For all systems applies:

> Flexible use

Our systems process chips of different kinds of material.

> Simple to handle

Automatic operation with standby function.

> Full range supplier

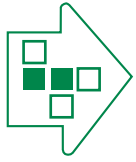
Your LANNER® system comes completely from one source.

> Latest technology

LANNER® systems are subject to a continuous process of development.

> Highest efficiency

LANNER® systems return on your investment within a very short period.



Perfection up to the last detail.



From the centrifuge, the briquetting press to the silo:

Each LANNER® component convinces by high quality and innovative technology.



LANNER® PV and DS centrifuges

The optimal solution in order to dry nearly any material

LANNER® PV centrifuges

The shape of the parabolic drum provides for a high degree of dryness of the chips in connection with the centrifugal force. An economic alternative to the lifting bottom centrifuge.

LANNER® DS centrifuges

Due to the vertical movement of the lifting bottom the self-cleaning of the sieve can be assured. Also suitable for the treatment of grinding sludge and brass chips.

Advantages

- > Continuous operation
- > Long service life
- > Highly wear-resistant execution
- > Vibration-proof set-up
- > Optimum degree of dryness achievable
- > Fully automatic and continuous operation
- > Compact design
- > Very low maintenance costs
- > Very service-friendly



LANNER® chip crushers:

Made for very strong cases, too.

The woolly and long chips with coolant content to be crushed are fed with a conveyor or chip cart dumper into the infeed hopper of the chip crusher. A rotating knife head with hardened crushing tools moves the complete chip ball against the hardened tearing blocks fixed into the crushing hopper. The precrushed chips fall downwards into the crushing mill, where they are crushed to a minimum size. Tramp metals such as bar ends and tools can be ejected in automatic operation. Even the roughest chips can be crushed with this chip crusher.

Advantages

- > Vertical chip crusher
- > Highly wear-resistant execution
- > High-quality, hardened crushing tools
- > Possible volume reduction of up to 80%
- > Smooth and fully automatic operation
- > Different grinding mills
- > Automatic tramp metal ejector
- > Compact and robust design
- > Low energy requirement
- > Easy to maintain due to quickly interchangeable wear parts





LANNER® silo technology

A larger quantity of chips?

The rational chip logistics of LANNER® always offer a suitable solution. LANNER® silo technology is the perfect solution for the temporary storage of larger quantities of chips. This includes the fully automatic filling of the silos, documented chip volumes as well as the quick and fast way HVG and containers are filled.

LANNER® references (extract): World-wide successful.

Abloy (FIN)	Former (F)	Renault (E)
Airbus AG (F)	General Motors (USA)	Renor (N)
Alphatech (F)	GSA (D)	Robert Bosch GmbH (D)
AMAG (A)	Giesler (D)	Sandvik (S)
Arsenal Company (B)	Harting-Electric (D)	Scania (S)
ATM-HSB (HUN)	HDM (D)	Schmidt & Clemens (D)
ATS-Felgen (D)	Henco (B)	Seegerströms (S)
Beru (IRL)	Hugard (F)	Seppelfricke (D)
Bervic-Industries (AUS)	INA-Schaeffler (D)	Sihn (D)
BMW AG (D)	John Deere (D/F)	Stabilus (D)
Borbet Gruppe (D)	KABA (A)	Stelter Zahnradfabrik (D)
British-Aerospace (GB)	Katsa (FIN)	Südöl (D)
CMS (TR)	Kolbenschmidt (D)	Swagelok (USA)
Daimler AG (D)	Krekeler & Losch (D)	Te Booy (NL)
MAN AG (D)	Kronprinz-Aluguss (D)	Tebit (D)
Dexam (AUS)	KSM (D)	Tesla (SLO)
Dvorak (A)	Lajous (F)	Thyssen Krupp (D)
Eberle (D)	LeBronze Industriel (F)	Toten-Metall (N)
Eurocopter (D)	Mahle (D)	TRW (D)
FAG (D)	Mattsson-Metal (S)	Turnspeed (GB)
Federal-Mogul (D)	Munkfors (S)	Valmet (FIN)
Ferrovias (E)	Nissan (E)	Van An del (NL)
Floby (S)	Oetinger-Aluminium (D)	Vivex (S)
Flygt (S)	Perryman (USA)	Volkswagen AG (D/MEX)
FNM (BR)	Ponsse (FIN)	Volvo (S)
Fonderie du Poitou (F)	PSA Group (F)	Webb Wheel (USA)
Ford (USA/CDN/D/F)	Rege Motorenwerk (D)	ZF (D)

LANNER® briquetting press: The perfect logistic solution.

Chips containing coolant are fed into the infeed hopper. The dosing screw leads the chips into the pressing chamber in a continuous way. A high-pressure cylinder compresses the chips to a briquette. At this point the coolant is pressed out of the chips. An optionally integrated chip crusher with automatic tramp metal ejector allows the processing of long and woolly chips. The multipress execution allows the pressing of different materials to briquettes with different configuration of pressure.

Advantages

- > Compact and robust design
- > Oil-tightly mounted on oil tub according WRA
- > Integrated control cabinet, plug-in connection
- > Execution with integrated chip crusher and automatic tramp metal ejector possible
- > Fully automatic dosage of the chips
- > High pressures and high press power achievable
- > High and constant quality of the briquettes
- > Processing of more materials possible (Multipress execution)
- > Short start-up
- > Quiet operation
- > Short return to investment



The trademark LANNER® stands for competitive edge and high quality world-wide – in the ecological and economically oriented chip processing. Renowned automotive manufacturer and their supplier industry, foundries, fitting industry as well as a multitude of other companies of the metalworking industry rely on the know-how of LANNER®.





Lanner Anlagenbau GmbH
Kehnerfeld 9-11
D-77971 Kippenheim
Phone +49 (0) 7825-8454 0
Fax +49 (0) 7825-8454 50
eMail info@lanner.de
www.lanner.de