



**ANTRIEBSELEMENTE**

Cast products | Belt drives



**If performance is required**

[www.luetgert-antriebe.de](http://www.luetgert-antriebe.de)

## V-belt pulleys

- For drive powers up to 1.000 kW
- Optimized for maximum peripheral speed
- Application-specific geometry as required
- One-piece and two-piece design (split pulley)
- Execution of pulley with arm-, plate- or solid-design
- Production up to 6 t unit weight and Ø 2.800 mm
- Complete drive solution from one source
- Balancing according to DIN 1940 in all quality levels
- TL standard pulleys up to Ø 1.250 mm -10 x SPC supplied from stock



## Flat belt pulleys

- Spherically turned pulleys according to DIN 111
- Belt pulleys for bucket elevators
- Split pulleys (two-part - bursted)
- Execution of pulley with arm-, plate- or solid-design
- Friction coatings of rubber, silicone and polyurethane
- Production up to 6 t unit weight and Ø 2.800 mm
- Complete drive solution from a one source
- Balancing according to DIN 1940 in all quality levels



## Flywheels

- Geometries up to Ø 2.800 mm
- Pulley width up to 750 mm
- Up to 6 t unit weight
- Specific design according to weight and mass inertia
- One-piece and two-piece design (split pulley)
- Various shaft-hub-connections (also frictional clamping sets)
- Conical fits possible
- All common materials supplied



## Special pulleys

- Grid pulleys / rod drums with a Ø 355 up to 1.000 mm and rim widths up to 500 mm
- Timing belt pulleys with all common profiles up to Ø 2.000 mm
- Finish bored and grooved according to customer requirements



All drive pulleys are available as Taper Lock versions. Various materials and in special designs according to individual customer requirements are available.

## Taper Lock clamping bushes (TL)

- Optimized shaft-hub connection for all designs and pulley types  
common stocking ring of bush sizes: 1008 | 1108 | 1210 | 1610  
1615 | 2012 | 2517 | 3020 | 3030 | 3535 | 4040 | 4545 | 5050
- Short leadtime from our own production: 6050 | 7060 | 8065 | 10085
- Special design available (metric thread): Design with cylindrical bore and keyway and frictional connections (tempered steel) available



## Motor clamping systems

- Optimum solution for fixing and tensioning the motor or belt drive
- Motor slide rails according to DIN 42923 made of grey cast iron
- Motor slide rails in light design and slide rails WEN for heavy-duty drives made of grey cast iron
- Motor slide rails made of steel
- Motor slide base with mono-plate and split-plate made of steel
- Universal pivoting motor bases for belt drives
- Special solutions for mobile and stationary plants



## Customer casting

- WITHOUT model costs for rotation-symmetric castings
- Casting and mechanical processing from one source
- Single parts and batch series according to customer specifications
- Customer-specific parts in all designs
- Unit weights from 1 kg to 6.000 kg
- Cost optimization with international partners
- Smart concepts for storage and logistics



## Foundation blocks acc. to DIN 799

- Ready to install with screw and washer
- Form A: Standard form without lateral cast lug
- Form B: With lug for thread and adjusting screw
- High damping properties due to the cast material
- Isolation of the plant from vibrations
- Highest casting quality for safety and stability
- Optional plant layout by pre-assembling of the foundation blocks
- Available from stock in all sizes



## V-belts / Drive belts

- V-belts, flat belts, power belts and timing belts of all leading producers
- High performance and high belt speeds
- High synchronisation accuracy at constant operating conditions
- Reverse direction of rotation possible
- Insensitive for short-term overload (sliding slip)
- On request also electrically conductive, same set etc.
- We select your custom-made drive: economical, low-cost and with long endurance.



## Supplies for drive belts

- Adjustment of belt tension by mechanical or frequency controlled test equipment
- Drive alignment by laser technology
- Belt profile gauge for profile checking
- Belt length gauge
- Service kits



## Foundry

- No model costs for rotation-symmetric castings
- Gray cast iron (EN-GJL), Spheroidal graphite iron (EN-GJS), Steel cast (GS), Aluminium and other materials available
- Professional melting works
- Internal model design department
- Permanent quality analyses - continuous quality control
- Own locksmithery and steel construction



## Metal-cutting manufacturing / Contract production

- CNC turning and milling
- Drilling, grooving and broaching
- Balancing technology according to DIN 1940 in all quality levels
- Surface refinement by painting or coating
- Coordinate measurement equipment and quality control



## Designing / Drive engineering

- Designing and development of optimal drive solutions
- 3D-CAD-system (SolidWorks / STEP, IGES)
- Optimisation of efficiency and lifetime
- FEM-Simulations for iterative drive optimization
- Drive design based on performance data
- Providing of technical documentation and certificates
- Test rig trials and design optimisation

