



ANTRIEBSELEMENTE

Cast products | Belt drives



If performance is required

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

