

Liebherr Service

The Liebherr tooth systems



LIEBHERR

The Liebherr tooth systems



The right tooth for any application

To optimize the cost-effectiveness of Liebherr machines, the shape of the tooth must be adapted to the respective use. Liebherr offers comprehensive tooth programs with tooth shapes for any task.

The Liebherr Uni system

The low construction height and the narrow, self-sharpening tooth shape makes the Liebherr Uni system ideal for best digging with low penetration resistance. Highly wear-resistant steel assures the familiar reliability even under tough conditions that has already proven its worth among wheel loaders. The side clamping sleeve locking mechanism enables simple and efficient tooth replacement.



Standard tooth

Features: Symmetrical cap with front cut-away section, self-sharpening, can be rotated.

Areas of use: For light to medium ground hardness (loamy sand, gravel, soft brown coal, soft / medium clay etc.).



HD-Zahn

Features: Cap with large material volume for long service life when used in wear-intensive operations.

Areas of use: For particularly abrasive ground (granite, basalt, sandstone, stone containing quartz etc.).



Pointed tooth

Features: Pointed tooth for good penetration, can be rotated.

Areas of use: For very hard and frozen ground, rock that is difficult to break (limestone, slate, brown coal, mining of wall gravel etc.).



Zahnhalter

For precise leveling.

Elements

Tooth size

		Uni 20-0,5	Uni 20-1	Uni 25-2	Uni 35-3	Uni 45-4
Tooth holder		10297110	7621627	7622760	7621463	7621446
	Pointed	-	7623177	7623178	7623179	7623180
Tooth shape	Standard	10297109	7621628	7622761	7621462	7621445
	HD	-	-	10455459	10217743	7623761
Clamping pin		4320029	4601253	4002090	4635406	4635404

The Liebherr Z system

The optimized tooth design leads to an increase in efficiency on the construction site with the Liebherr Z system. The low digging resistance, the self-sharpening tooth shape as well as easy tooth replacement without hammering are arguments for the Liebherr Z system. The teeth are made from high tensile steel, which is distinguished by the highest level of wear resistance and long service life.



C-tooth

Features: The conical shape helps to achieve very good penetration in cohesive ground.

Areas of use: Types of ground that are easy to break up and ground that is little cohesive (e.g. loose, loamy sand, fine to medium gravel, moist and soft clay)



CR-tooth

Features: The long, drawn-out point enables very good penetration in aggregate material. The broad and thick base of the tooth facilitates a long service life under wear-intensive conditions.

Areas of use: Abrasive ground, rock (e.g. granite, basalt, sandstone; mainly in connection with backhoe bucket deployment)



P-tooth

Features: Pointed tooth with good penetration capability even in hard stone.

Areas of use: Very hard, frozen ground, rock that is very difficult to break (e.g. well set, unweathered shale)



L-tooth (for wheel loaders)

Features: Very good penetration in cohesive ground. Ideal for precise leveling together with single arm tooth adapter.

Areas of use: Light to medium ground hardness (e.g. loamy sand, clay, fine to medium gravel)



Tooth adapter (single arm)

For precise leveling.



Shrouds

Reduces exposure of the bucket to impacts and abrasion, extending its wear life.



CL-tooth

Features: Long, drawn-out point with sharp edge for very good penetration properties.

Areas of use: Medium and cohesive ground to ground with average plasticity (e.g. hard, loamy sand, medium clay, fine to medium clay)



R-tooth

Features: Low cutting width and large wear volume result in high specific penetration force and service life.

Areas of use: Heavy to break ground, particularly abrasive ground, rock (e.g. limestone, slate, very hard clay, brown coal)



PF-tooth

Features: Fork tip with outstanding penetration in extremely compact ground. Can be fitted to corners of bucket as a supplement to the P-points in order to maintain tilt angle.

Areas of use: Very hard and frozen ground, rock that is difficult to break (e.g. well set, unweathered shale, heavy ore with medium and weak cracks, slag heaps from steelworks)



H-tooth (for wheel loaders)

Features: Good penetration in aggregate material. The broad and thick base of the tooth facilitates a long service life under wear-intensive conditions.

Areas of use: Abrasive ground, rock (e.g. granite, basalt, sandstone; Mainly in connection with two arm tooth adapter and intermediate tooth segments)



Standard tooth adapter (two arm)

For tough operations, particularly with intermediate tooth segments (shrouds).

Elements

Tooth size

		35	40	50	70	90	100	
Tooth holder standard	Excavator	10451123	10451112	10451130	10451142	10451151	11102183	
Standard	Loader	10451123	11481564	-	-	-	-	
Tooth holder flush		10664482	10675342	-	-	-	-	
Wear cap	for tooth holder	-	-	10451131	10451140	10451152	11110105 11114661 (latéraux)	
Tooth shape	C	10451124	10451113	10451132	10451145	10451153	-	
	CL	10451125	10451114	10451133	10451146	10451154	11102191	
	P	10451126	10451115	10451134	10451148	10451155	11102193	
	PF	10451127	10451117	10451137	-	-	-	
	CR	-	-	-	10451147	10451157	11102192	
	R	-	10451121	10451136	10451149	10451156	-	
	L*	12229037	11481561	-	-	-	-	
	H*	12229036	11481562	-	-	-	-	
Locking system for tooth	Locking pin	10451122	10451110	10451129	10451139	10451150	11110101	
	Block part	Standard	10451185	10451185	10451187	10451188	10451188	11110104
		High temperature	-	-	-	11321116	11450173	-
	Protective plug	10451200	10451200	10451200	10451201	10451201	10451201	
Dismantable lip shroud	Width: 240	Middle	-	-	-	11080815	11081279	-
		Left	-	-	-	11080814	11081277	-
		Right	-	-	-	11080813	11081276	-
	Width: 280	Middle	-	-	-	11080810	11081288	-
		Left	-	-	-	11080811	11081286	-
		Right	-	-	-	11080812	11081289	-
	Width: 300	Middle	-	-	-	-	-	11102224
		Left	-	-	-	-	-	11102227
		Right	-	-	-	-	-	11102226
	Width: 320	Middle	-	-	-	-	11081281	-
		Left	-	-	-	-	11081278	-
		Right	-	-	-	-	11081280	-
	Width: 330	Middle	-	-	-	-	-	11102228
		Left	-	-	-	-	-	11110132
		Right	-	-	-	-	-	11110130
	Width: 410	Middle	-	-	-	-	-	11110134
		Left	-	-	-	-	-	11110136
		Right	-	-	-	-	-	11110135
	Locking system for shroud	Locking pin	-	-	-	11080809	11080809	11110173
		Block part	-	-	-	11080808	11080808	11110176
		Protective foam plug	-	-	-	10451201	10451201	10451201
		Key holder	-	-	-	11080848	11080848	11110177
		Limit Stop	-	-	-	11080807	11080807	11110172
	Weld-on lip shroud	Width: 215	Middle	-	-	-	-	3000932
Left			-	-	-	-	3000934	-
Right			-	-	-	-	3000933	-
Width: 260		Middle	-	-	-	-	3000901	-
		Left	-	-	-	-	3000903	-
		Right	-	-	-	-	3000902	-
Width: 330		Middle	-	-	-	-	3001106	-
		Left	-	-	-	-	3001104	-
		Right	-	-	-	-	3001105	-
Side shroud	70 UL (welded)	11088515	11088515	-	-	-	-	
	4MY40 U480	-	-	-	11827064	-	-	
	4MY50 U600	-	-	-	11827065	11827065	-	
	WS 50	-	-	-	11110178	11110178	11110178	
Locking system for side shroud	Locking pin	4MY40 U480	-	-	-	11827063	-	-
		4MY50 U600	-	-	-	11827062	11827062	-
		WS 50	-	-	-	11110183	11110183	11110183
	Block part	4MY40 U480	-	-	-	11827060	11827060	-
		4MY50 U600	-	-	-	11827060	11827060	-
		WS 50	-	-	-	11110184	11110184	11110184
	Protective foam plug		-	-	-	10451201	10451201	10451201
		4MY40 U480	-	-	-	11827059	11827059	-
	Limit stop	4MY50 U600	-	-	-	11827059	11827059	-
		WS 50	-	-	-	11110182	11110182	11110182
Wearing corner		-	-	-	3001598	3001598	3001598	
Locking spanner	Tooth and shroud	10451202	10451202	10451202	10451202	10451202	11110099	

* for wheel loaders

Conversion kit for fitting the Liebherr Type Z teeth

A conversion kit consists of:

- 1 x tooth holder
- 1 x tooth
- 1 x securing bolt
- 1 x protective plug
- 1 x locking element
- 1 x wear cap for tooth holder (size 50, 70, 90)

Example of an order:

The tooth size corresponds to the dimensions of the bucket lip.

Converting a bucket with a bucket lip thickness of 40 mm with 5 new C-teeth: 5 x conversion kit 10360053

Article numbers for conversion kits

Tooth size	Tooth holder Standard					Tooth holder flush	
	35	40	50	70	90	35	40
Tooth C	10360049	10360053	10360956	10361161	10361609	10361614	10361618
Tooth CL	10360050	10360054	10360957	10361160	10361610	10361615	10361619
Tooth P	10360051	10360055	10360959	10361159	10361611	10361616	10361620
Tooth PF	10360052	10360056	10360958			10361617	10361621
Tooth R		10361606	10361607	10361158	10361608		10361622
Tooth CR				10361613	10361612		
Tooth H	12580286 (35 mm cutting edge)	12580226 (40 mm cutting edge) 12580234 (50 mm cutting edge)				12580290	12580284
Tooth L						12580293	12580236

Service brochure overview

Front page	Brochure	Number for identification	Other languages
	The Liebherr Reman Program	11642378	de - 11642376 fr - 11642379
	The Liebherr tooth systems	11005756	de - 11005757 fr - 11005759
	Your strong service partner	10450711	de - 8420672 fr - 8420674
	LiDAT Fleet and plant management system	11005991	de - 11005990 fr - 11005992
	Oil analysis by Liebherr	10466882	de - 8420943 fr - 10678898
	Genuine parts from Liebherr	10454746	de - 8420944 fr - 10678811
	Lubricants and operating fluids from Liebherr	10450754	de - 10429567 fr - 10470994
	Service packages	10454745	de - 8420825 fr - 11643363
	Service agreements	11005853	de - 11005852 fr - 11005851

The Liebherr Group of Companies



Wide Product Range

The Liebherr Group is one of the largest construction equipment manufacturers in the world. Liebherr's high-value products and services hold a high reputation in many industries. The wide range includes domestic appliances, aerospace and transportation systems, machine tools and maritime cranes.

Exceptional Customer Benefit

Every product line provides a complete range of models in many different versions. With both their technical excellence and acknowledged quality, Liebherr products offer customers the highest benefits in practical applications.

State-of-the-art Technology

Liebherr attributes great importance to the product areas of core technology and components, in order to achieve its consistent, top-quality products. Important modules and components are developed and manufactured in-house, for instance the entire drive and control technology for the construction equipment and mining trucks.

Worldwide and Family-Owned

Hans Liebherr founded the Liebherr family company in 1949. Since that time, the enterprise has steadily grown to a group of more than 130 companies with over 41,000 employees located on all continents. The corporate headquarters of the Group is Liebherr-International AG in Bulle, Switzerland. The Liebherr family is the sole owner of the company.

www.liebherr.us

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