

EPSILON TIMBER & RECYCLING CRANES

PALFINGER

GRIPPING SOLUTIONS NEXT EPSOLUTION M- AND Q-SERIES

PALFINGEREPSILON.COM







POWER. WHENEVER.

PALFINGER EPSILON.

At PALFINGER EPSILON the issue of sustainability starts where others finish. We don't just limit ourselves to a few specific fields when we talk about sustainable solutions. We create forward-thinking, economical and environmentally friendly systems in every area of the company.

Our customers are assured of the best possible product quality, delivered in the shape of efficient, custom-made, ecologically sound solutions. We apply the same high standards to our own work, and that of our employees. The sparing use of resources achieved by developing innovative solutions is of long-term benefit to the environment.

This is what makes PALFINGER EPSILON a partner you can rely on — a life long!

WE UNITE WHAT BELONGS TOGETHER

The new PALFINGER EPSILON M- and Q- Series is a perfect unity of design, comfort and technology. The result is a product that fulfills every individual requirement, and even exceeds expectations.

PALFINGER EPSILON new M- and Q- Series sets new standards in design. The new high-seat Masterdrive offers operators absolute comfort and convenience, and the multifunctional command centre provides the ultimate in precision crane manipulation. The new M- and Q- Series technology impresses immediately, and thanks to extended boom reach capacities customers benefit from increased operational productivity.

The new PALFINGER EPSILON M- and Q- Series is a system that serves every individual requirement, and customers can rely on a product that unites the very best in design, comfort and technology.

The PALFINGER EPSILON M- and Q- Series –
The crane for your requirements.





FROM PLANS TO CRANES

How we combine theory and practise.



Ensuring excellence in design, comfort and technology requires taking a variety of perspectives. At PALFINGER EPSILON we bring together all the best brains in the business to generate the best possible preconditions for innovative solutions.

Together with experts in the field of industrial design we draw inspiration from a whole range of solutions, conventional and unconventional. We play with concepts and reject them again until, finally, what starts as a vague idea develops into a completely new product.

Concepts may look great on the drawing board but also need to perform out in the real world. That's where Hermann, our highly experienced test driver, comes in. He does a whole range of stringent and tough tests on all the latest developments that come out of PALFINGER EPSILON. The sophisticated interplay of theory and practice ensures the final product is a perfect combination of design, comfort and technology – so that we can guarantee our customers exactly what they expect:

Quality you can rely on!
PALFINGER EPSILON.



SAFE IN THE SADDLE

Master Drive is the
new high seat from PALFINGER EPSILON.

PALFINGER EPSILON has once again raised the bar for comfort and user-friendliness with a new high seat. Masterdrive enables the operator to enjoy full control of all operational commands. Thanks to the benefits of the most sophisticated design and technology this crane can be operated with a minimum of effort. The ergonomic shape of the comfortable and convenient mechanical suspension high seat guarantees great comfort, and the multifunctional arm rest puts every command at the operator's fingertips.



Multifunctional arm rest

The multifunctional arm rest puts every command at the operator's fingertips.

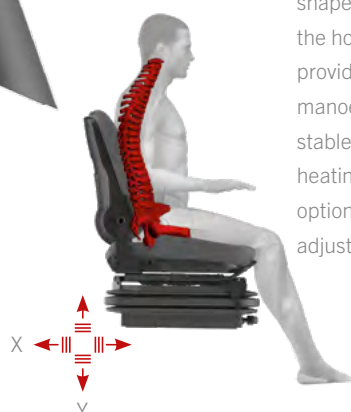
Hydraulic servo joysticks

Hydraulic servo joysticks
facilitate precise operation.



High-comfort high seat provides horizontal and vertical suspension

The comfortable, ergonomically-shaped seat from the house of GRAMMER provides maximum manoeuvrability, secure and stable seating, as well as seat heating, weight adjustment options and mechanically adjustable lumbar support.





ALL UNDER THE HOOD

EPSHOOD

Fold-away mechanism

The pneumatic fold-away weather hood facilitates a more compact operating position.

Weather shield
hood position

Hood in open position

Extremely compact
construction





EPSHOOD – The protective hood for safe crane operation.

The EPSHOOD crane operator hood is a newly developed weather shield and gives the driver excellent protection from the elements while operating the crane. The foldaway mechanism and tinted plastic hood keep out the sun, rain and wind during the whole operating process, making every job a pleasant and comfortable experience.

PALFINGER

Service openings

Easily accessible service openings make the replacement of hoses a quick and easy procedure.

Inside hose routing

The unique, inside hose routing solution ensures the risk of damage is minimised and the cost of wear and tear reduced.

Rotary distributor

Easily accessible via service opening.

Finish crane column

Excellent design and perfect functionality.

Internally routed hoses

WORTH HIDING

Easily accessible inside hose routing.

No other crane manufacture can offer anything like the ease of service and technical convenience provided by PALFINGER EPSILON. The unique inside hose routing enables crane operators to gain quick and easy on-the-job service access. Inside hose routing also reduces the risk of damage to the hoses. Service openings on the crane make replacement a simple task and help to save time and money.

Service openings



- Rotary distributor
- Hose routing
- Pipe routing

TECHNICAL DETAILS M-SERIES

MZ

1. Outreach

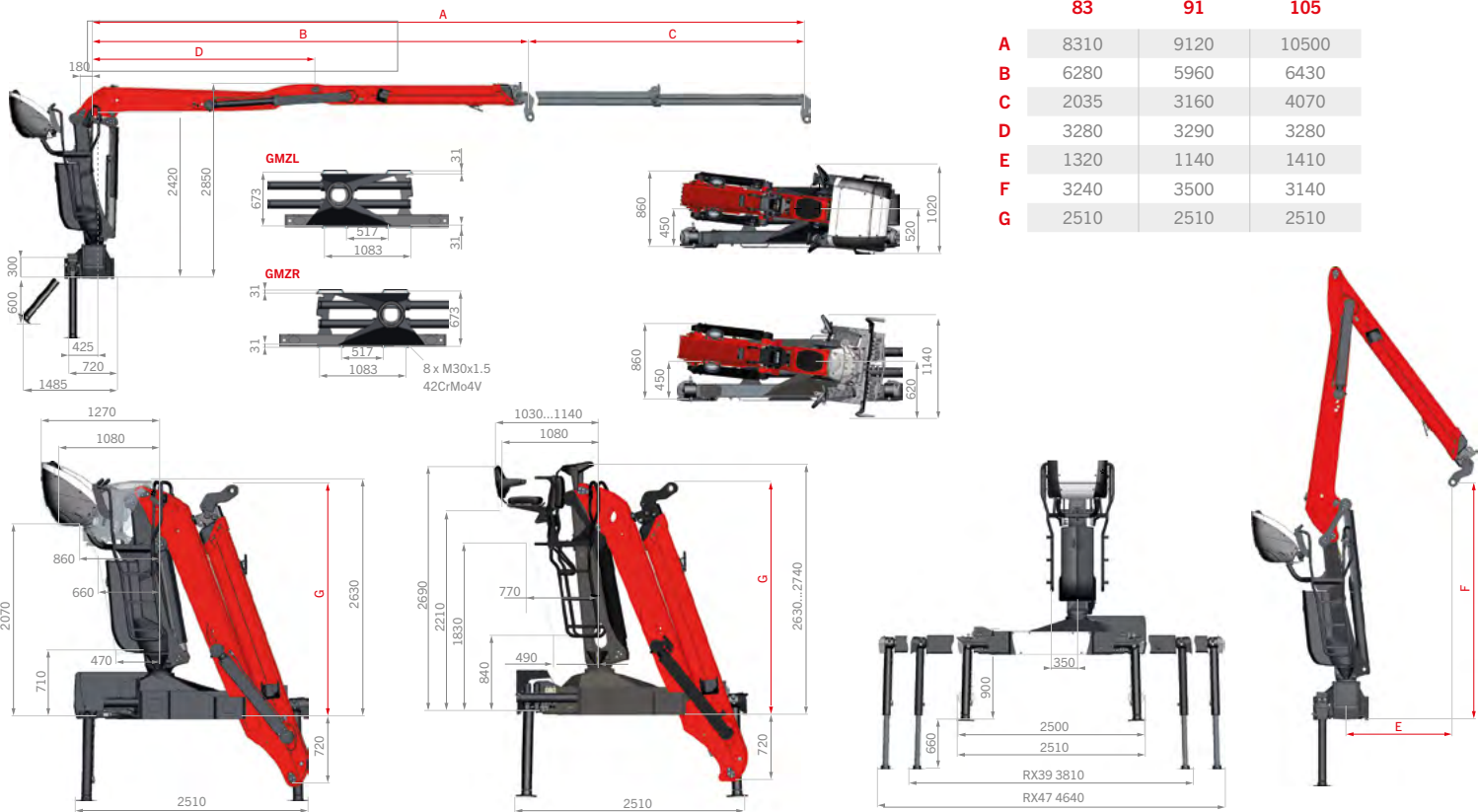
83=8,30 m
91=9,10 m
105=10,50 m

2. Details

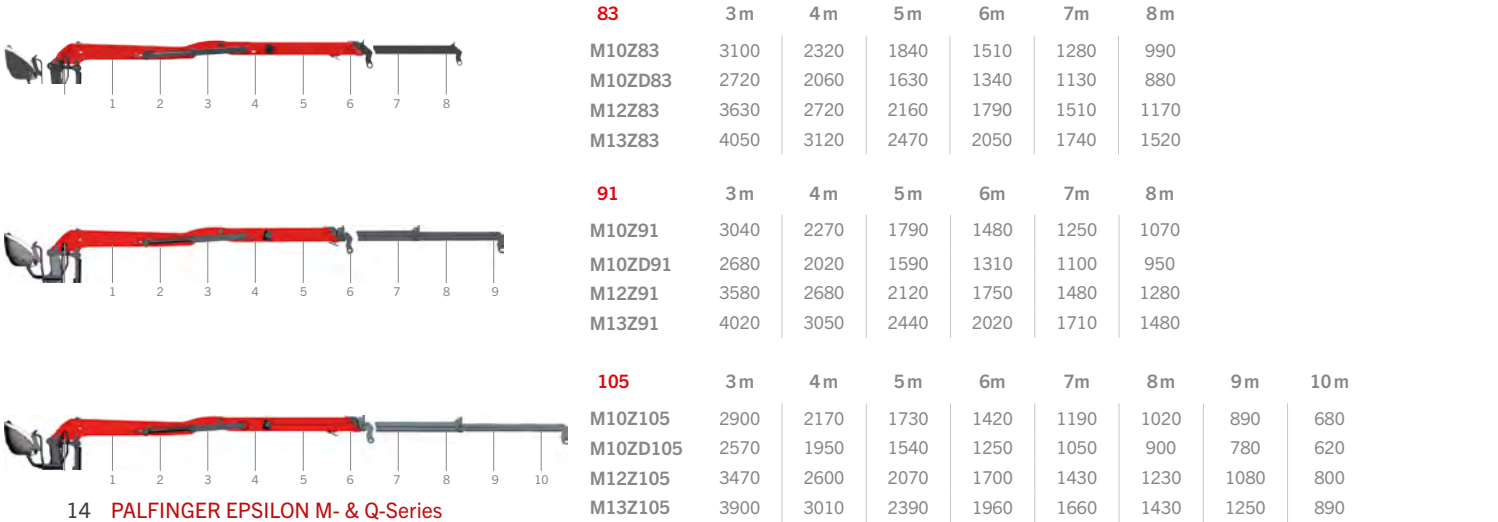
2. Details		M10Z			M10ZD			M12Z			M13Z		
		83	91	105	83	91	105	83	91	105	83	91	105
Lifting moment net	[kNm]	93	91	87	82	81	78	109	107	104	124	107	104
Slewing torque net	[kNm]	24			24			28			28		
Slewing angle	[°]	425			425			425			425		
Max. Outreach	[m]	8,3	9,1	10,5	8,3	9,1	10,5	8,3	9,1	10,5	8,3	9,1	10,5
Operating pressure	[bar]	230			210			260			290		
Recommended pump capacity	1K [l/min]	1x80			1x80			1x80			1x80		
	2K [l/min]	2x70			2x70			2x70			2x70		
	1K LS [l/min]	1x150			1x150			1x150			1x150		
Dead weight without link/rotator													
Master Drive	[kg]	2340	2390	2470	2380	2430	2510	2380	2430	2510	2380	2430	2510
Classic Drive	[kg]	2220	2270	2350	2260	2310	2390	2260	2310	2390	2260	2310	2390

3. Dimensions

Fixed size | variable size



4. Lifting power



ML

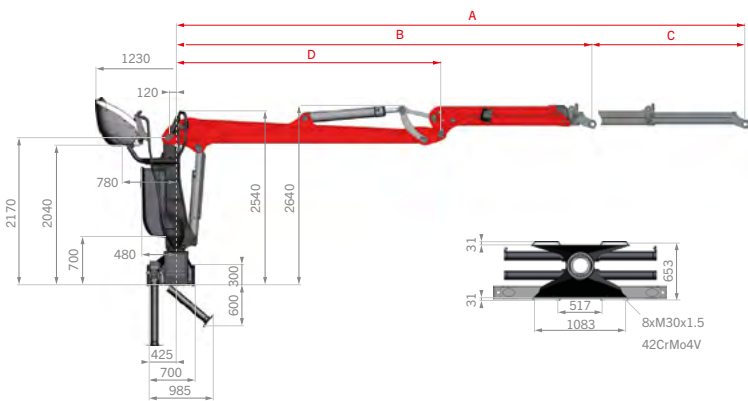
1. Outreach

2. Details

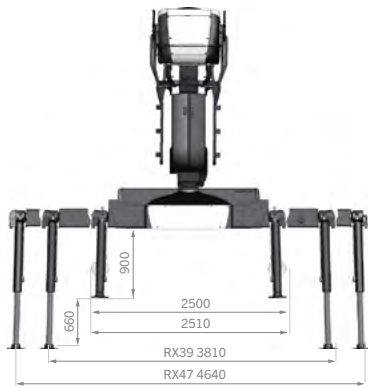
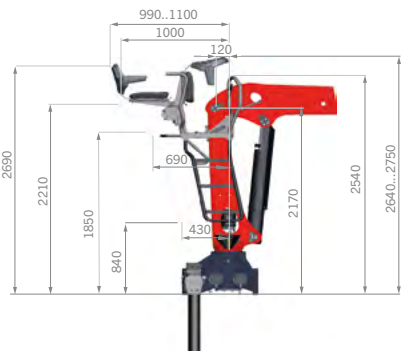
80 =8,00 m 83 =8,30 m 97 =9,70 m	Lifting moment net	[kNm]	97	95	93	85	95	93	115	113	110	115	113	110
	Slewing torque net	[kNm]	24			24			28			28		
	Slewing angle	[°]	425			425			425			425		
	Max. Outreach	[m]	8,0	8,3	9,7	8,0	8,3	9,7	8,0	8,3	9,7	8,0	8,3	9,7
	Operating pressure	[bar]	220			200			250			280		
		1K [l/min]	1x80			1x80			1x80			1x80		
	Recommended pump capacity	2K [l/min]	2x70			2x70			2x70			2x70		
		1K LS [l/min]	1x150			1x150			1x150			1x150		
	Dead weight without link/rotator													
Master Drive	[kg]	2190	2210	2280	2260	2280	2350	2260	2280	2350	2260	2280	2350	
Classic Drive	[kg]	2070	2090	2160	2140	2160	2230	2140	2160	2230	2140	2160	2230	

3. Dimensions

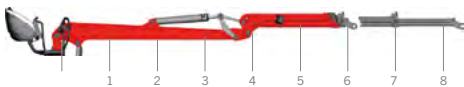
Fixed size | variable size



	80	83	97
A	8000	8340	9720
B	6420	6100	6560
C	1580	2240	3160
D	3880	3880	3880
E	3680	3980	3510



4. Lifting power



80	3m	4m	5m	6m	7m	8m	
M10L80	3230	2420	1930	1590	1360	1190	
M10LD80	2690	2140	1700	1400	1190	960	
M12L80	3830	2860	2270	1880	1600	1360	
M13L80	4290	3280	2620	2180	1860	1500	
83	3m	4m	5m	6m	7m	8m	
M10L83	3160	2370	1880	1560	1320	1150	
M10LD83	2640	2110	1670	1380	1170	1010	
M12L83	3770	2830	2240	1860	1580	1370	
M13L83	4230	3260	2590	2160	1840	1580	
97	3m	4m	5m	6m	7m	8m	9m
M10L97	3070	2320	1820	1500	1270	1090	960
M10LD97	2550	2050	1620	1320	1120	960	830
M12L97	3690	2760	2190	1800	1530	1320	1170
M13L97	4130	3200	2540	2100	1780	1540	1240



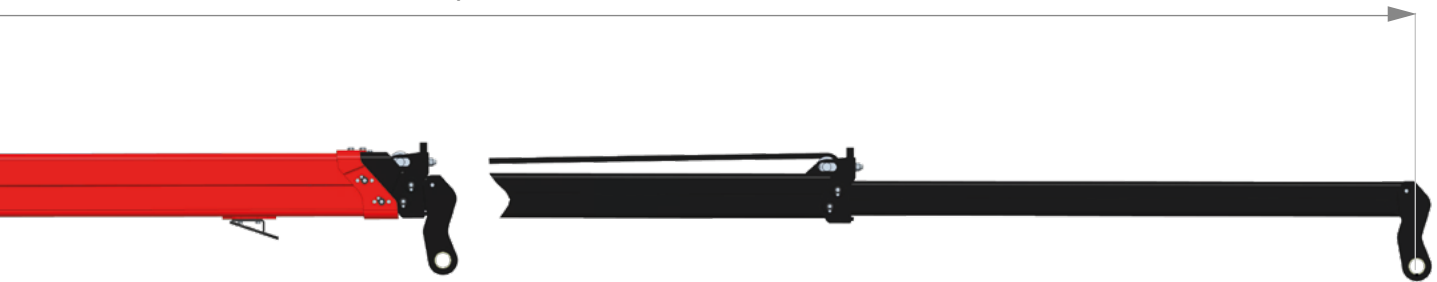
THE NEW Q-SERIES OPENS UP NEW PERSPECTIVES





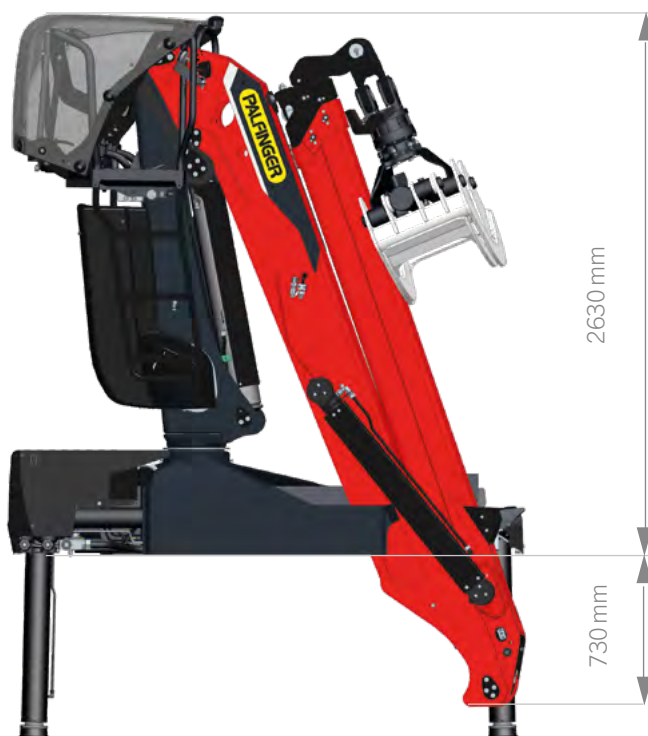
Q17Z THE LONGEST REACH IN ITS CLASS

Outreach - double telescope



Outreach double telescope

The new design of the double telescope system provides up to 900mm more reach than the predecessor. The longest reach in its field.



Height reduction

The new arm geometry has made it possible to build an even more compact crane with an extra 100mm of ground clearance.

QZ

2. Details

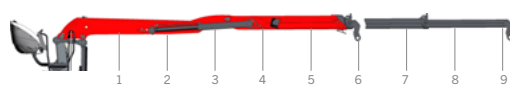
110 = 11,00 m

2. Details		Q14Z			Q17Z		
		86	99	110	86	99	110
Lifting moment net	[kNm]	136	134	132	162	160	158
Slewing torque net	[kNm]	30			32		
Slewing angle	[°]	425			425		
Max.Outreach	[m]	8,6	9,9	11,0	8,6	9,9	11,0
Operating pressure	[bar]	290			290		
	1K [l/min]	1x90			1x90		
Recommended pump capacity	2K [l/min]	2x80			2x80		
	1K LS [l/min]	1x150			1x150		
Master Drive	[kg]	2560	2610	2670	2600	2650	2710
Classic Drive	[kg]	2440	2490	2550	2480	2530	2590

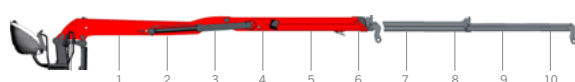
Fixed size | variable size



86	3m	4m	5m	6m	7m	8m
Q14Z86	4420	3400	2710	2240	1890	1650
Q17Z86	5220	4020	3220	2670	2270	1970



99	3m	4m	5m	6m	7m	8m	9m
Q14Z99	4380	3360	2670	2200	1860	1620	1430
Q17Z99	5200	4000	3200	2650	2250	1950	1720



110	3m	4m	5m	6m	7m	8m	9m	10m	11m
Q14Z110	4330	3320	2620	2160	1830	1590	1390	1230	1150
Q17Z110	5150	3950	3150	2600	2210	1910	1680	1490	1350

QL

1. Outreach

85=8,50 m

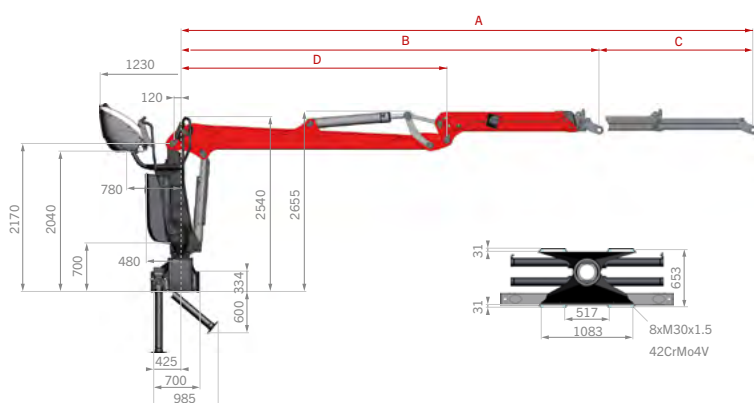
105=10,50 m

2. Details

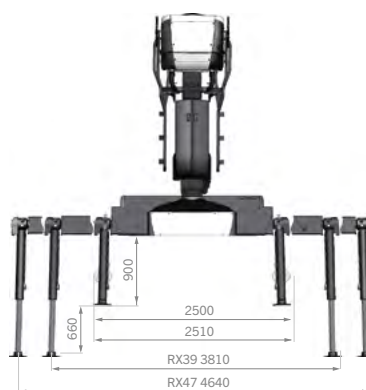
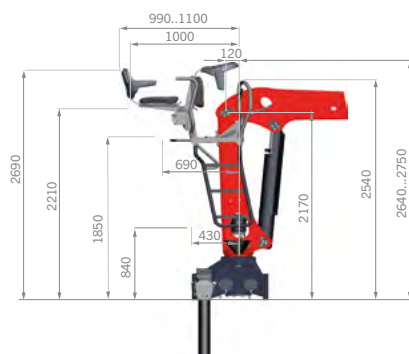
		Q14L		Q17L	
		85	105	85	105
Lifting moment net	[kNm]	138	135	153	150
Slewing torque net	[kNm]	30		32	
Slewing angle	[°]	425		425	
Max. Outreach	[m]	8,5	10,5	8,5	10,5
Operating pressure	[bar]	290		290	
Recommended pump capacity	1K [l/min]	1x90		1x90	
	2K [l/min]	2x80		2x80	
	1K LS [l/min]	1x170		1x170	
Master Drive	[kg]	2440	2520	2480	2560
Classic Drive	[kg]	2320	2400	2360	2440

3. Dimensions

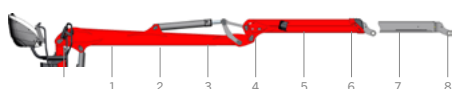
Fixed size | **variable size**



	85	105
A	8460	10480
B	6540	6640
C	1920	3840
D	3880	3880
E	3320	3420



4. Lifting power



85	3 m	4 m	5 m	6 m	7 m	8 m
Q14L85	4100	3450	2760	2310	1970	1720
Q17L85	4600	3800	3050	2550	2170	1890



105	3 m	4 m	5 m	6 m	7 m	8 m	9 m	10 m
Q14L105	4000	3370	2690	2250	1900	1660	1460	1300
Q17L105	4500	3750	2990	2480	2110	1830	1620	1450

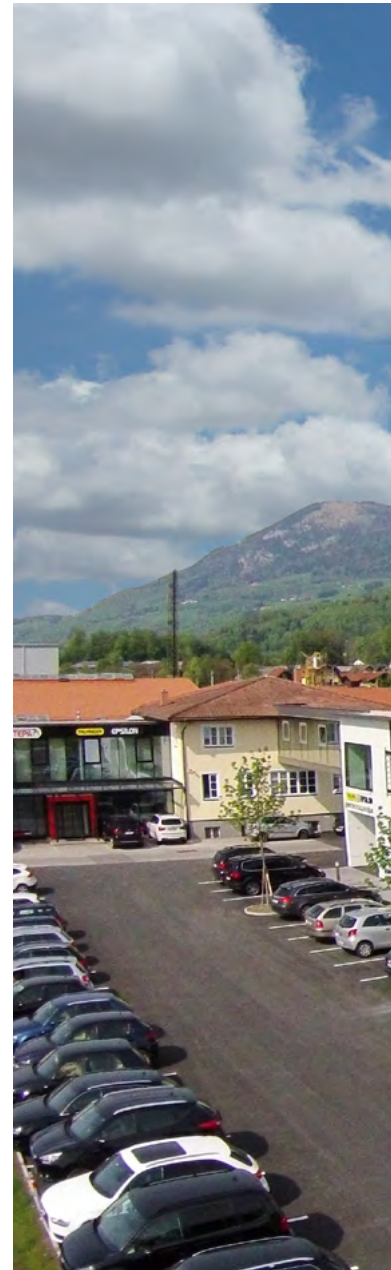
YOUR PARTNER FOR THE FUTURE

Each and every PALFINGER EPSILON product is far more than just the sum of its parts. Throughout the entire company we adhere to the very latest standards, and on behalf of our customers we strive unceasingly to provide sustainable, innovative, bespoke solutions. We consider customer satisfaction to be of the utmost importance; so you can rely on PALFINGER EPSILON to deliver long-lasting, low-maintenance products that are economical to run in terms of costs and the consumption of resources.

We are constantly working on the development of solutions to offer long-term viability. We give our staff at the development centre plenty of encouragement and set them plenty of challenges; and today's reconstruction work on the company headquarters is taking place to guarantee we have the necessary capacity to serve customers in the years to come.

Working in cooperation with our partners we continue to do everything within our power to provide innovative, custom-built products that deliver the best possible solutions for your needs.

PALFINGER EPSILON.





New development centre and assembly

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