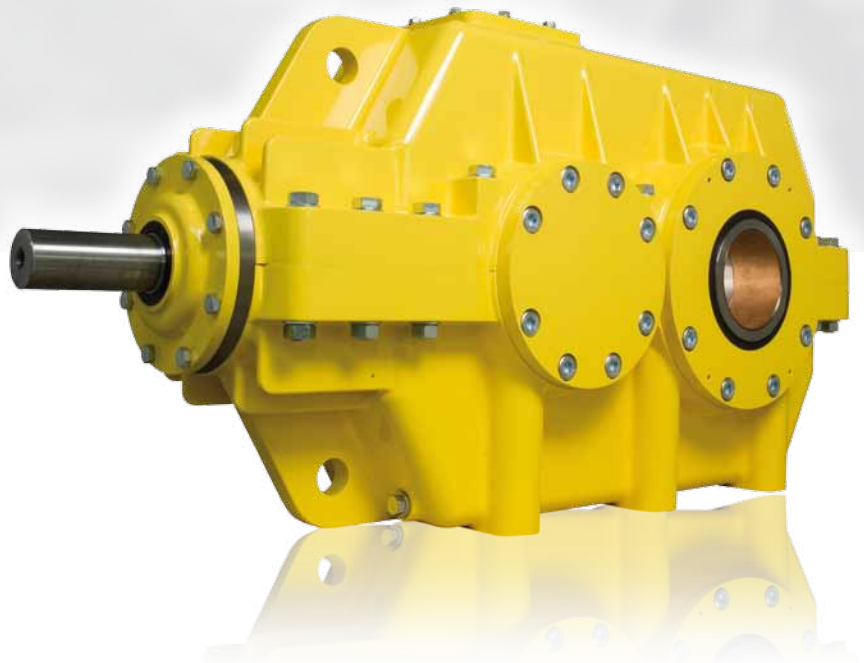




## QuarryMaster® HighPower

Quite simply, we get things moving.

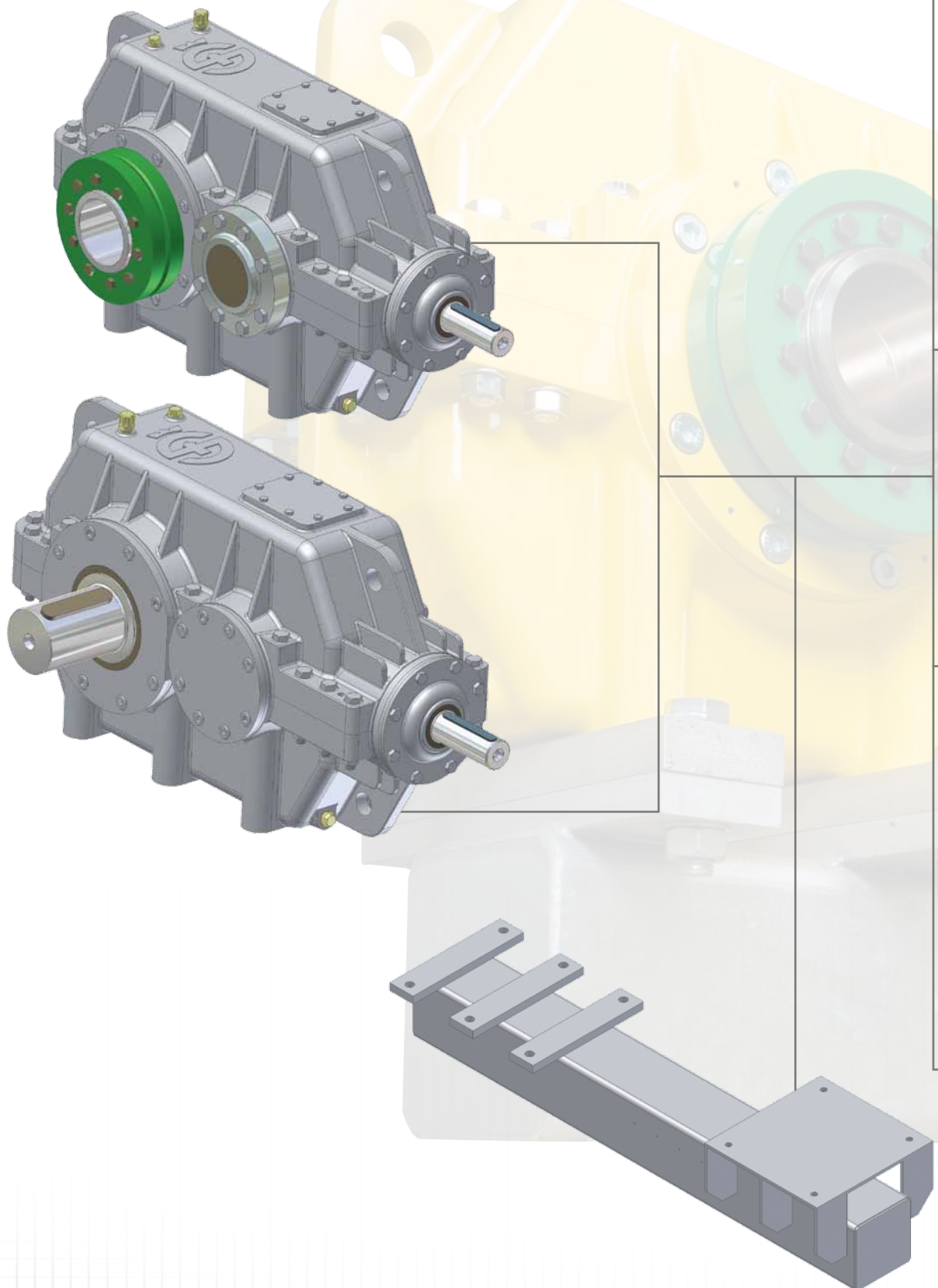


# A new Dimension in our planning

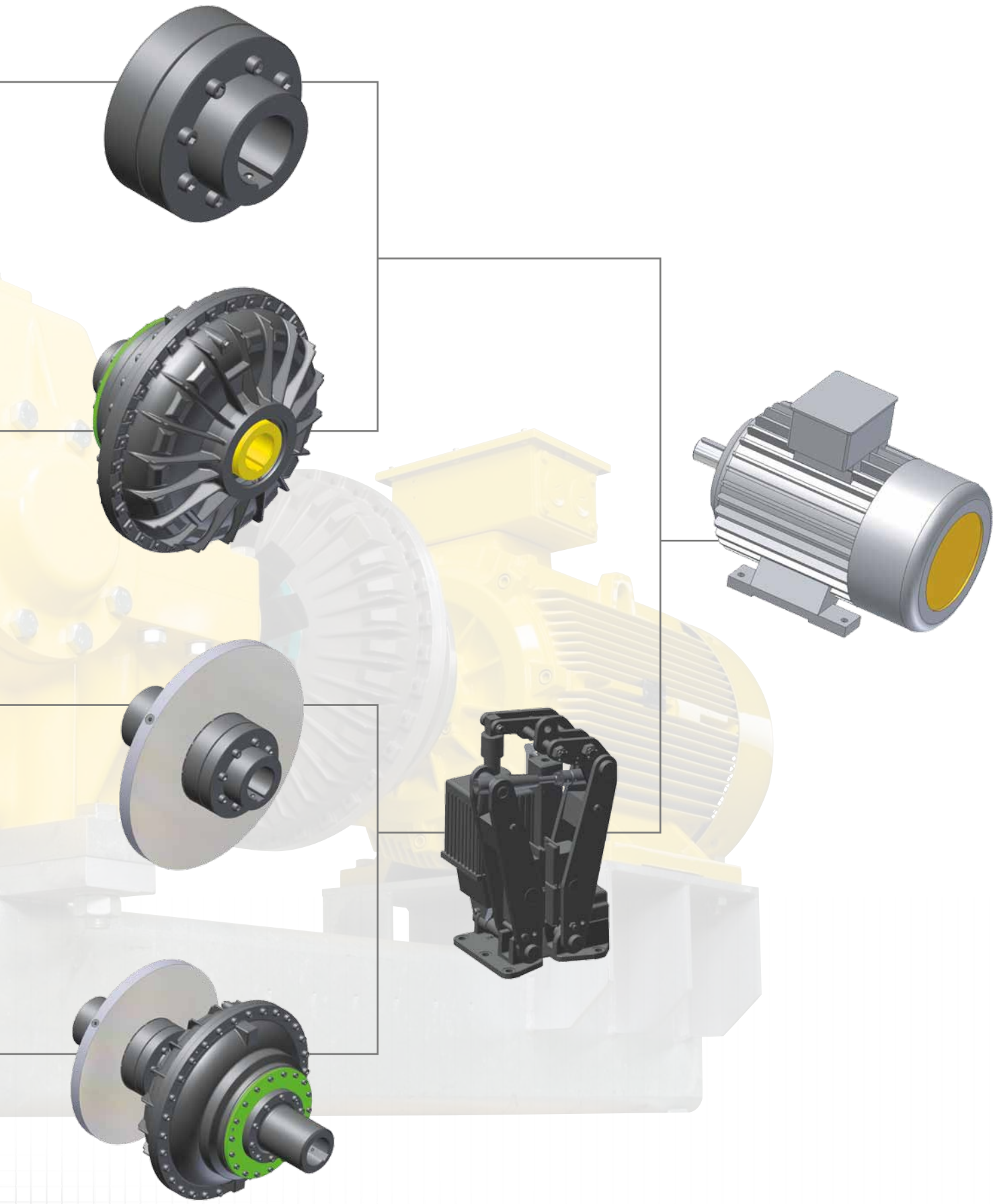
STIEBEL have developed the QuarryMaster® HighPower primarily so as to make sure you do not need to worry about the drive unit, even when planning the most ambitious projects. Think extreme, think monumental, allow for the toughest conditions – it will work out just fine. Long-lasting. Perfectly reliable. You can rely on that.



## Mounting variants





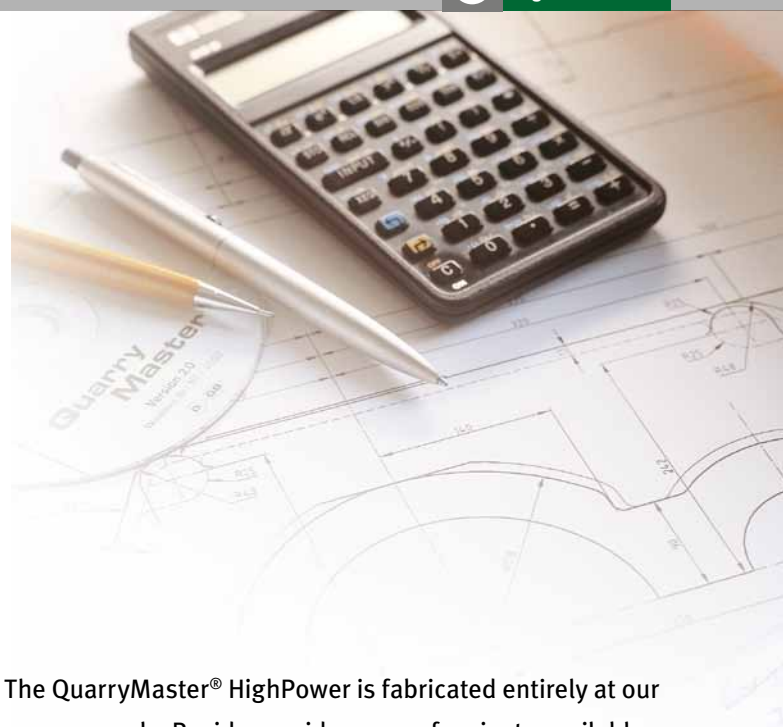


## The Power Source for your Project

At STIEBEL we draw our inspiration from more than 60 years of experience in engineering high-powered drive units. We are well aware of the extreme conditions under which our products are expected to work perfectly all over the world, and know about the tough environments they face. And as there is always the potential for even more extreme applications, we have engineered the QuarryMaster® HighPower.

We are, therefore, justifiably proud in saying that you have probably not yet come across anything quite like the QuarryMaster® HighPower. It excels thanks to its compact design, and is robust and durable beyond all measure. It bears impressive testimony to the enormous capabilities of German mechanical engineering: rock solid, efficient, coming in a great number of variants. Customised in order to meet your very specific requirements, the QuarryMaster® HighPower is not simply a gear unit – it will become the real power source behind your project.

Due to their long life cycles, minimal maintenance requirements and extremely low downtimes STIEBEL drives enjoy an excellent reputation worldwide. The QuarryMaster® HighPower easily lives up to that reputation, too.



The QuarryMaster® HighPower is fabricated entirely at our company only. Besides a wide range of variants available it also offers options for any additional appliances. An innovative lubrication system integrated in the housing ensures a constant oil flow around the bearings, making oil pumps redundant which are susceptible to malfunctions. As well as enhancing the life span of bearings this system maintains a good temperature balance in the gear box.

Owing to a housing split horizontally the QuarryMaster® HighPower is very easy to service, in particular as any work on the unit does not require any special tools. Thus, in the unlikely event of a failure there is no need to send it back to our plant, it can simply be repaired on-site – quickly and efficiently. You are therefore in a comfortable position, even in the most unlikely event of an operational malfunction.

And if all that were not enough, the QuarryMaster® HighPower is also unbeatable in terms of value for money.

**See for yourself. You will find us all over the world.**





# There's a pattern to our reliability

No matter what kind of project: one of the most important factors for continued success is that everything runs smoothly, even under the most adverse conditions. If you know how to do that, you will quickly achieve sustained success.



## Tunnel construction



## Power plant technology




## Cement / steelworks technology



## Loading and unloading facilities





Imagine being able to  
**harness all**  
**this power ...**

It can be a heavy load if you don't have the right drive for the job. Well, we know all about heavy loads and we provide you with technology always operating at full power exactly as needed, even under the toughest conditions. That generally has a great impact.



## Minerals processing technology



## Fossil fuel extraction



## Mining



## Mining for mineral resources



# QuarryMaster® HighPower 4-pole drive units

		Load spectrum: P = 100 % - ED = 100 %						Lh (Bearing load hours) = 12500 h				BF (Operating coefficient) ≥ 1,3			
i : 1	10	11,2	12,5	14	16	18	20	22,4	25	28	31,5	35,5	40	45	
n <sub>2</sub> /Rpm	145	130	118	106	92	82	76	66	58	52	48	42	37	33	
11			17	17	17	17	17	17	17	17	17	17	17	17	
15			17	17	17	17	17	17	17	17	17	17	17	17	
18,5			17	17	17	17	17	17	17	17	17	17	17	17	
22			17	17	17	17	17	17	17	17	21	21	21	21	
30			17	17	17	17	17	17	21	21	21	21	21	21	
37			17	17	17	17	21	21	21	21	21	21	21	21	
45			21	21	21	21	21	21	21	21	21	21	21	21	
55			21	21	21	21	21	21	21	21	23	23			
75			21	21	21	21	23	23	23	23	23	23			
90			21	21	21	21	23	23	25	25	25	25			
110	23	23	23	23	23	23	23	23	25	25	25	25			
132	23	23	23	23	23	23	23	25	27	27	27	27			
160	23	23	23	23	25	25	25	25	27	27	27	27			
200	23	25	25	25	25	25	27	27	29	29	29	29			
250	25	25	25	25	27	27	27	27	29	29	29	29			
315	27	27	27	27	27	27	29	29	31	31	31	31			
355	27	27	27	27	29	29	29	29	31	31	31	31			
400	27	27	27	29	29	29	29	31	31	31	31	33			
450	29	29	29	29	29	29	31	31	31	31	31	33	33		
500	29	29	29	29	31	31	31	31	33	33	33	33	33		
560	29	29	29	31	31	31	31	31	33	33	33	33	35		
630	29	29	31	31	31	31	31	31	33	33	33	35	35		
710	31	31	31	31	31	31	31	33	33	35	35	35	35		
Load spectrum:		P = 100 % - ED = 10 % + P = 90 % - ED = 10 % + P = 80 % - ED = 80 % +						Lh = 12500 h				BF ≥ 1,3			
i : 1	10	11,2	12,5	14	16	18	20	22,4	25	28	31,5	35,5	40	45	
n <sub>2</sub> /Rpm	145	130	118	106	92	82	76	66	58	52	48	42	37	33	
11			17	17	17	17	17	17	17	17	17	17	17	17	
15			17	17	17	17	17	17	17	17	17	17	17	17	
18,5			17	17	17	17	17	17	17	17	17	17	17	17	
22			17	17	17	17	17	17	17	17	17	17	17	17	
30			17	17	17	17	17	17	17	17	21	21	21	21	
37			17	17	17	17	21	21	21	21	21	21	21	21	
45			17	17	17	17	21	21	21	21	21	21	21	21	
55			21	21	21	21	21	21	21	21	21	21			
75			21	21	21	21	21	21	23	23	23	23			
90			21	21	21	21	23	23	25	25	25	25			
110	23	23	23	23	23	23	23	23	25	25	25	25			
132	23	23	23	23	23	23	23	25	25	25	27	27			
160	23	23	23	23	25	25	25	25	27	27	27	27			
200	23	25	25	25	25	25	25	27	27	27	27	29			
250	25	25	25	25	27	27	27	27	29	29	29	29			
315	25	27	27	27	27	27	27	29	29	31	31	31			
355	27	27	27	27	29	29	29	29	31	31	31	31			
400	27	27	27	29	29	29	29	31	31	31	31	33			
450	29	29	29	29	29	29	31	31	31	31	31	33	33		
500	29	29	29	29	31	31	31	31	31	33	33	33	33		
560	29	29	29	31	31	31	31	31	31	33	33	33	35		
630	29	29	31	31	31	31	31	31	33	33	33	35	35		
710	31	31	31	31	31	31	31	33	33	33	35	35	35		

Motor rating in kW – 4-pole

# QuarryMaster® HighPower 4-pole drive units

	Load spectrum: P = 100 % - ED = 100 %							Lh = 25000 h				BF ≥ 1,5			
	i : 1	10	11,2	12,5	14	16	18	20	22,4	25	28	31,5	35,5	40	45
n <sub>2</sub> /Rpm	145	130	118	106	92	82	76	66	58	52	48	42	37	33	
11			17	17	17	17	17	17	17	17	17	17	17	17	
15			17	17	17	17	17	17	17	17	17	17	17	17	
18,5			17	17	17	17	17	17	17	17	21	21	21	21	
22			17	17	17	17	17	17	17	21	21	21	21	21	
30			17	17	17	17	21	21	21	21	21	21	21	21	
37			21	21	21	21	21	21	21	21	21	21	21	21	
45			21	21	21	21	21	21	21	21	23	23			
55			21	21	21	21	21	21	23	23	23	23			
75	23	23	23	23	23	23	23	23	25	25	25	25			
90	23	23	23	23	23	23	23	23	25	25	25	25			
110	23	23	23	23	23	23	23	25	27	27	27	27			
132	23	23	23	23	25	25	25	25	27	27	27	27			
160	23	23	23	25	25	25	27	27	29	29	29	29			
200	25	25	25	25	27	27	27	27	29	29	29	29			
250	25	27	27	27	27	27	29	29	31	31	31	31			
315	27	27	27	27	29	29	29	29	31	31	31	31			
355	27	27	27	29	29	29	31	31	31	31	31	31			
400	29	29	29	29	31	31	31	31	31	31	31	33			
450	29	29	29	29	31	31	31	31	33	33	33	33			
500	29	29	29	31	31	31	31	31	33	33	33	33			
560	29	31	31	31	31	31	31	31	33	33	33	35			
630	31	31	31	31	33	33	33	33	35	35	35	35			
710	31	31	31	31	33	33	33	33	35	35	35	35			
	Load spectrum: P = 100 % - ED = 10 % + P = 90 % - ED = 10 % + P = 80 % - ED = 80 % +							Lh = 25000 h				BF ≥ 1,5			
i : 1	10	11,2	12,5	14	16	18	20	22,4	25	28	31,5	35,5	40	45	
n <sub>2</sub> /Rpm	145	130	118	106	92	82	76	66	58	52	48	42	37	33	
11			17	17	17	17	17	17	17	17	17	17	17	17	
15			17	17	17	17	17	17	17	17	17	17	17	17	
18,5			17	17	17	17	17	17	17	17	17	17	17	17	
22			17	17	17	17	17	17	17	17	21	21	21	21	
30			17	17	17	17	21	21	21	21	21	21	21	21	
37			17	17	17	17	21	21	21	21	21	21	21	21	
45			21	21	21	21	21	21	21	21	21	21	21	21	
55			21	21	21	21	21	21	23	23	23	23			
75			21	21	21	21	23	23	25	25	25	25			
90	23	23	23	23	23	23	23	23	25	25	25	25			
110	23	23	23	23	23	23	23	23	25	25	25	25			
132	23	23	23	23	23	23	23	25	27	27	27	27			
160	23	23	23	23	25	25	25	25	27	27	27	29			
200	25	25	25	25	25	27	27	27	29	29	29	29			
250	25	25	25	25	27	27	27	27	29	29	29	31			
315	27	27	27	27	27	29	29	29	31	31	31	31			
355	27	27	27	27	29	29	29	29	31	31	31	31			
400	27	27	27	29	29	29	29	31	31	31	31	33			
450	29	29	29	29	29	31	31	31	31	31	31	33			
500	29	29	29	29	31	31	31	31	33	33	33	33			
560	29	29	29	31	31	31	31	31	33	33	33	35			
630	29	29	31	31	31	31	31	33	33	33	35	35			
710	31	31	31	31	31	31	33	33	35	35	35	35			



# QuarryMaster® HighPower 4-pole drive units

Load spectrum: P = 100 % - ED = 100 %								Lh = 50000 h				BF ≥ 1,8		
i : 1	10	11,2	12,5	14	16	18	20	22,4	25	28	31,5	35,5	40	45
n <sub>2</sub> /Rpm	145	130	118	106	92	82	76	66	58	52	48	42	37	33
11			17	17	17	17	17	17	17	17	17	17	17	17
15			17	17	17	17	17	17	17	17	21	21	21	21
18,5			17	17	17	17	17	17	17	21	21	21	21	21
22			17	17	17	17	21	21	21	21	21	21	21	21
30			21	21	21	21	21	21	21	21	21	21	21	21
37			21	21	21	21	21	21	21	21	23	23		
45			21	21	21	21	21	21	23	23	23	23		
55			21	21	21	21	23	23	25	25	25	25		
75	23	23	23	23	23	23	23	23	25	25	25	25		
90	23	23	23	23	23	23	23	25	27	27	27	27		
110	23	23	23	23	25	25	25	25	27	27	27	27		
132	23	23	23	25	25	25	27	27	29	29	29	29		
160	25	25	25	25	27	27	27	27	29	29	29	29		
200	25	27	27	27	27	27	27	29	31	31	31	31		
250	27	27	27	27	29	29	29	29	31	31	31	31		
315	27	29	29	29	29	31	31	31	31	31	31	31		
355	29	29	29	29	31	31	31	31	33	33	33	33		
400	29	29	29	31	31	31	31	31	33	33	33	33		
450	29	29	31	31	31	31	31	31	33	33	33	33		
500	31	31	31	31	33	33	33	33	35	35	35	35		
560	31	31	31	31	33	33	33	33	35	35	35	35		
630	31	31	31	31	33	33	33	33	35	35	35	35		
710	33	33	33	33	33	33	33	33	---	---	---	---		
Load spectrum: P = 100 % - ED = 10 % + P = 90 % - ED = 10 % + P = 80 % - ED = 80 % +								Lh = 50000 h				BF ≥ 1,8		
i : 1	10	11,2	12,5	14	16	18	20	22,4	25	28	31,5	35,5	40	45
n <sub>2</sub> /Rpm	145	130	118	106	92	82	76	66	58	52	48	42	37	33
11			17	17	17	17	17	17	17	17	17	17	17	17
15			17	17	17	17	17	17	17	17	17	17	17	17
18,5			17	17	17	17	17	17	17	17	21	21	21	21
22			17	17	17	17	17	17	17	21	21	21	21	21
30			17	17	17	17	21	21	21	21	21	21	21	21
37			21	21	21	21	21	21	21	21	21	21	21	
45			21	21	21	21	21	21	21	21	23	23		
55			21	21	21	21	23	23	23	23	23	23		
75	23	23	23	23	23	23	23	23	25	25	25	25		
90	23	23	23	23	23	23	23	23	25	25	25	25		
110	23	23	23	23	23	23	23	25	27	27	27	27		
132	23	23	23	23	25	25	25	25	27	27	27	27		
160	23	23	23	25	25	25	27	27	29	29	29	29		
200	25	25	25	25	27	27	27	27	29	29	29	29		
250	27	27	27	27	27	27	29	29	31	31	31	31		
315	27	27	27	27	29	29	29	29	31	31	31	31		
355	27	27	27	29	29	29	31	31	31	31	31	31		
400	29	29	29	29	31	31	31	31	33	33	33	33		
450	29	29	29	29	31	31	31	31	33	33	33	33		
500	29	29	29	31	31	31	31	31	33	33	33	33		
560	29	31	31	31	31	31	31	31	33	33	33	35		
630	31	31	31	31	33	33	33	33	35	35	35	35		
710	31	31	31	31	33	33	33	33	35	35	35	35		

Motor rating in kW – 4-pole

# QuarryMaster® HighPower 4-pole drive units

	Load spectrum: P = 100 % - ED = 100 %								Lh = 80000 h				BF ≥ 2,0		
	i : 1	10	11,2	12,5	14	16	18	20	22,4	25	28	31,5	35,5	40	45
n <sub>2</sub> /Rpm	145	130	118	106	92	82	76	66	58	52	48	42	37	33	
11			17	17	17	17	17	17	17	17	17	17	17	17	
15			17	17	17	17	17	17	17	17	21	21	21	21	
18,5			17	17	17	17	21	21	21	21	21	21	21	21	
22			17	17	17	17	21	21	21	21	21	21	21	21	
30			21	21	21	21	21	21	21	21	23	23			
37			21	21	21	21	21	21	23	23	23	23			
45			21	21	21	21	23	23	25	25	25	25			
55	23	23	23	23	23	23	23	23	25	25	25	25			
75	23	23	23	23	23	23	23	23	27	27	27	27			
90	23	23	23	23	25	25	25	25	27	27	27	27			
110	23	23	23	25	25	25	25	27	27	27	27	27			
132	25	25	25	25	27	27	27	27	29	29	29	29			
160	25	25	25	27	27	27	27	27	29	29	29	29			
200	27	27	27	27	29	29	29	29	31	31	31	31			
250	27	27	27	29	29	29	31	31	31	31	31	31			
315	29	29	29	29	31	31	31	31	33	33	33	33			
355	29	29	29	31	31	31	31	31	33	33	33	33			
400	29	31	31	31	31	31	31	31	33	33	33	33			
450	31	31	31	31	33	33	33	33	35	35	35	35			
500	31	31	31	31	33	33	33	33	35	35	35	35			
560	31	31	31	31	33	33	33	33	35	35	35	35			
630	33	33	33	33	35	35	35	35	---	---	---	---			
710	33	33	33	33	35	35	35	35	---	---	---	---			

	Load spectrum: P = 100 % - ED = 10 % + P = 90 % - ED = 10 % + P = 80 % - ED = 80 % +								Lh = 80000 h				BF ≥ 2,0		
	i : 1	10	11,2	12,5	14	16	18	20	22,4	25	28	31,5	35,5	40	45
n <sub>2</sub> /Rpm	145	130	118	106	92	82	76	66	58	52	48	42	37	33	
11			17	17	17	17	17	17	17	17	17	17	17	17	
15			17	17	17	17	17	17	17	17	21	21	21	21	
18,5			17	17	17	17	17	17	17	17	21	21	21	21	
22			17	17	17	17	21	21	21	21	21	21	21	21	
30			21	21	21	21	21	21	21	21	21	21	21	21	
37			21	21	21	21	21	21	21	21	23	23			
45			21	21	21	21	21	21	23	23	23	23			
55			21	21	21	21	23	23	25	25	25	25			
75	23	23	23	23	23	23	23	23	25	25	25	25			
90	23	23	23	23	23	23	23	23	27	27	27	27			
110	23	23	23	23	25	25	25	25	27	27	27	27			
132	23	23	23	25	25	25	25	27	27	27	27	27			
160	25	25	25	25	27	27	27	27	29	29	29	29			
200	25	25	27	27	27	27	27	29	31	31	31	31			
250	27	27	27	27	29	29	29	29	31	31	31	31			
315	27	27	29	29	29	31	31	31	31	31	31	31			
355	29	29	29	29	31	31	31	31	33	33	33	33			
400	29	29	29	29	31	31	31	31	33	33	33	33			
450	29	29	31	31	31	31	31	31	33	33	33	33			
500	31	31	31	31	31	31	31	31	35	35	35	35			
560	31	31	31	31	33	33	33	33	35	35	35	35			
630	31	31	31	31	33	33	33	33	35	35	35	35			
710	31	31	31	31	33	33	33	33	35	35	35	35			

# QuarryMaster® HighPower 6-pole drive units

Motor rating in kW – 6-pole	Load spectrum: P = 100 % - ED = 100 %								Lh = 12500 h				BF ≥ 1,3
	i : 1	10	11,2	12,5	14	16	18	20	22,4	25	28	31,5	35,5
	n <sub>2</sub> /Rpm	100	89	83	72	61	54	50	44	38	34	32	28
	75	23	23	23	23	23	23	23	23	25	25	25	25
	90	23	23	23	23	23	23	23	25	25	25	27	27
	110	23	23	23	23	25	25	25	25	27	27	27	27
	132	23	23	23	25	25	25	25	27	27	27	29	29
	160	25	25	25	25	25	27	27	27	29	29	29	29
	200	25	25	25	27	27	27	27	29	29	29	31	31
	250	27	27	27	27	29	29	29	29	31	31	31	31
	315	27	29	29	29	29	29	31	31	31	33	33	33
	355	29	29	29	29	29	31	31	31	33	33	33	33
	400	29	29	29	29	31	31	31	33	33	33	33	35
	450	29	29	29	31	31	31	33	33	33	33	35	35
	500	31	31	31	31	31	33	33	33	35	35	35	35
	560	31	31	31	31	33	33	33	33	35	35	35	---
	630	31	31	31	33	33	33	33	35	35	35	---	---
	710	31	31	33	33	33	33	35	35	35	---	---	---
	Load spectrum: P = 100 % - ED = 10 % + P = 90 % - ED = 10 % + P = 80 % - ED = 80 % +								Lh = 12500 h				BF ≥ 1,3
	i : 1	10	11,2	12,5	14	16	18	20	22,4	25	28	31,5	35,5
n <sub>2</sub> /Rpm	100	89	83	72	61	54	50	44	38	34	32	28	
75	23	23	23	23	23	23	23	23	25	25	25	25	
90	23	23	23	23	23	23	23	25	25	25	27	27	
110	23	23	23	23	23	25	25	25	27	27	27	27	
132	23	23	23	25	25	25	25	27	27	27	29	29	
160	25	25	25	25	25	27	27	27	29	29	29	29	
200	25	25	25	27	27	27	27	29	29	29	31	31	
250	27	27	27	27	29	29	29	29	31	31	31	31	
315	27	29	29	29	29	29	31	31	31	33	33	33	
355	29	29	29	29	29	31	31	31	33	33	33	33	
400	29	29	29	29	31	31	31	33	33	33	33	35	
450	29	29	29	31	31	31	33	33	33	33	35	35	
500	31	31	31	31	31	33	33	33	33	35	35	35	
560	31	31	31	31	33	33	33	33	35	35	35	---	
630	31	31	31	33	33	33	33	35	35	35	---	---	
710	31	31	33	33	33	33	35	35	35	---	---	---	



# QuarryMaster® HighPower 6-pole drive units

		Load spectrum: P = 100 % - ED = 100 %						Lh = 25000 h				BF ≥ 1,5	
		i : 1	10	11,2	12,5	14	16	18	20	22,4	25	28	31,5
Motor rating in kW – 6-pole	n <sub>2</sub> /Rpm	100	89	83	72	61	54	50	44	38	34	32	28
	75	23	23	23	23	23	23	23	23	25	25	25	25
	90	23	23	23	23	25	25	25	25	27	27	27	27
	110	23	23	23	23	25	25	25	27	27	27	27	27
	132	25	25	25	25	27	27	27	27	29	29	29	29
	160	25	25	25	27	27	27	27	27	29	29	29	29
	200	27	27	27	27	27	29	29	29	31	31	31	31
	250	27	27	27	29	29	29	29	31	31	31	31	31
	315	29	29	29	29	31	31	31	31	33	33	33	33
	355	29	29	29	29	31	31	31	31	33	33	33	33
	400	29	29	31	31	31	31	31	33	35	35	35	35
	450	31	31	31	31	33	33	33	33	35	35	35	35
	500	31	31	31	31	33	33	33	33	35	35	35	35
	560	31	31	31	31	33	33	33	33	35	35	35	---
	630	33	33	33	33	33	33	33	35	35	35	---	---
	710	33	33	33	33	35	35	35	35	---	---	---	---
			Load spectrum: P = 100 % - ED = 10 % + P = 90 % - ED = 10 % + P = 80 % - ED = 80 % +						Lh = 25000 h				BF ≥ 1,5
	i : 1	10	11,2	12,5	14	16	18	20	22,4	25	28	31,5	35,5
	n <sub>2</sub> /Rpm	100	89	83	72	61	54	50	44	38	34	32	28
	75	23	23	23	23	23	23	23	23	25	25	25	25
	90	23	23	23	23	23	23	23	25	25	25	27	27
	110	23	23	23	23	25	25	25	25	27	27	27	27
	132	23	23	23	25	25	25	25	27	27	27	29	29
	160	25	25	25	25	27	27	27	27	29	29	29	29
	200	25	25	25	27	27	27	27	29	29	29	31	31
	250	27	27	27	27	29	29	29	29	31	31	31	31
	315	27	29	29	29	29	29	31	31	31	33	33	33
	355	29	29	29	29	29	31	31	31	33	33	33	33
	400	29	29	29	29	31	31	31	33	33	33	33	35
	450	29	29	29	31	31	31	33	33	33	33	35	35
	500	31	31	31	31	31	33	33	33	35	35	35	35
	560	31	31	31	31	33	33	33	33	35	35	35	---
	630	31	31	31	33	33	33	33	35	35	35	---	---
	710	31	31	33	33	33	33	33	35	35	35	---	---

# QuarryMaster® HighPower 6-pole drive units

Motor rating in kW – 6-pole	Load spectrum: P = 100 % - ED = 100 %								Lh = 50000 h				BF ≥ 1,8
	i : 1	10	11,2	12,5	14	16	18	20	22,4	25	28	31,5	35,5
	n <sub>2</sub> /Rpm	100	89	83	72	61	54	50	44	38	34	32	28
	75	23	23	23	23	25	25	25	25	27	27	27	27
	90	23	23	23	23	25	25	25	27	27	27	27	27
	110	25	25	25	25	27	27	27	27	29	29	29	29
	132	25	25	25	27	27	27	27	27	29	29	29	29
	160	27	27	27	27	27	29	29	29	31	31	31	31
	200	27	27	27	27	29	29	29	31	31	31	31	31
	250	29	29	29	29	31	31	31	31	33	33	33	33
	315	29	29	29	31	31	31	31	31	35	35	35	35
	355	29	29	31	31	31	31	31	31	35	35	35	35
	400	31	31	31	31	33	33	33	33	35	35	35	35
	450	31	31	31	31	33	33	33	33	35	35	35	35
	500	31	31	31	31	33	33	33	33	35	35	35	35
	560	33	33	33	33	35	35	35	35	---	---	---	---
	630	33	33	33	33	35	35	35	35	---	---	---	---
	710	33	33	33	33	35	35	35	35	---	---	---	---
	Load spectrum: P = 100 % - ED = 10 % + P = 90 % - ED = 10 % + P = 80 % - ED = 80 % +								Lh = 50000 h				BF ≥ 1,8
	i : 1	10	11,2	12,5	14	16	18	20	22,4	25	28	31,5	35,5
n <sub>2</sub> /Rpm	100	89	83	72	61	54	50	44	38	34	32	28	
75	23	23	23	23	23	23	23	23	25	25	25	25	
90	23	23	23	23	25	25	25	25	27	27	27	27	
110	23	23	23	23	25	25	25	27	27	27	27	27	
132	25	25	25	25	27	27	27	27	29	29	29	29	
160	25	25	25	27	27	27	27	27	29	29	29	29	
200	27	27	27	27	27	29	29	29	31	31	31	31	
250	27	27	27	29	29	29	29	31	31	31	31	31	
315	29	29	29	29	31	31	31	31	33	33	33	33	
355	29	29	29	31	31	31	31	31	33	33	33	33	
400	29	31	31	31	31	31	31	33	35	35	35	35	
450	31	31	31	31	33	33	33	33	35	35	35	35	
500	31	31	31	31	33	33	33	33	35	35	35	35	
560	31	31	31	31	33	33	33	33	35	35	35	---	
630	33	33	33	33	33	33	33	35	35	35	---	---	
710	33	33	33	33	35	35	35	35	---	---	---	---	

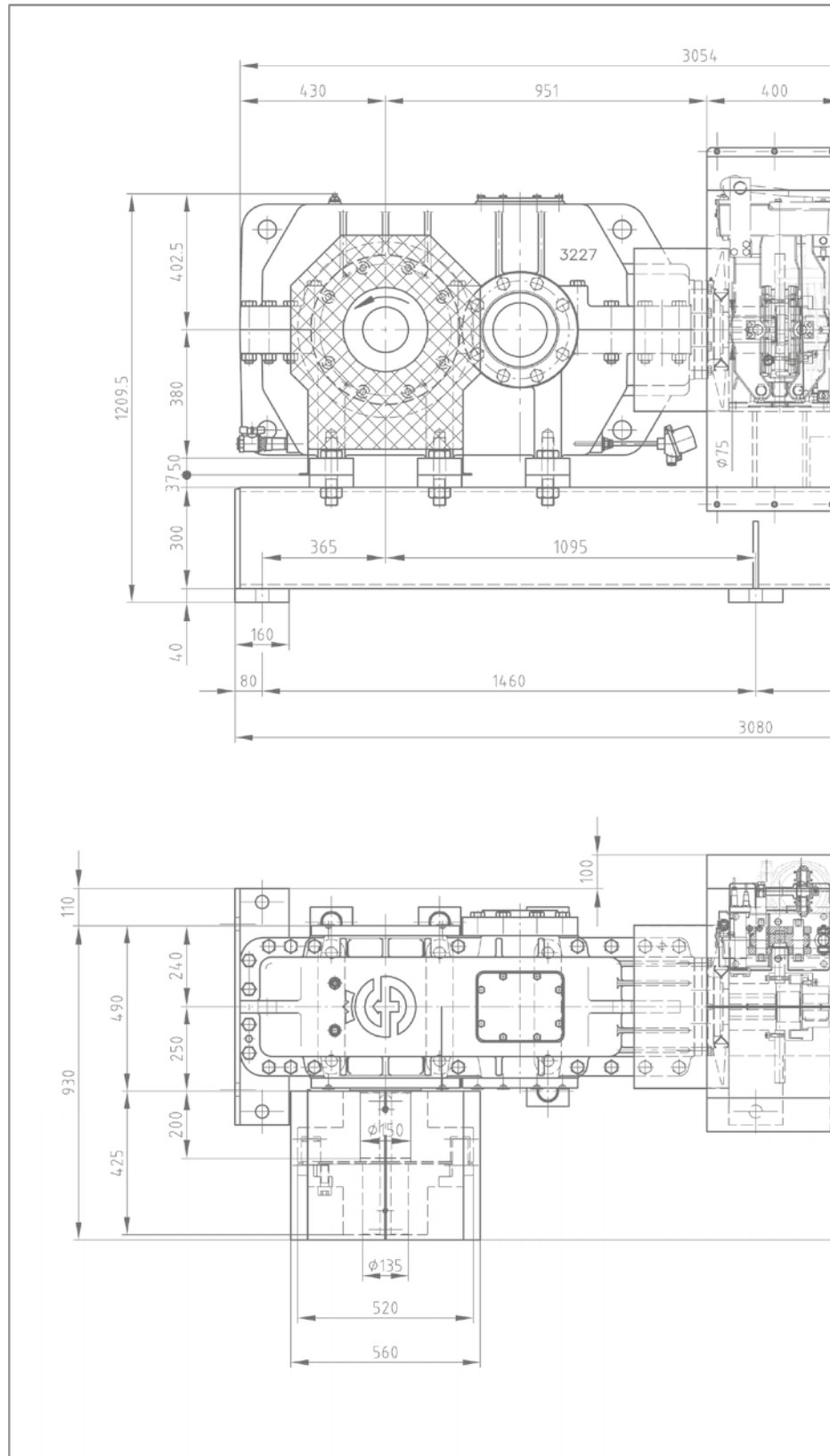
# QuarryMaster® HighPower 6-pole drive units

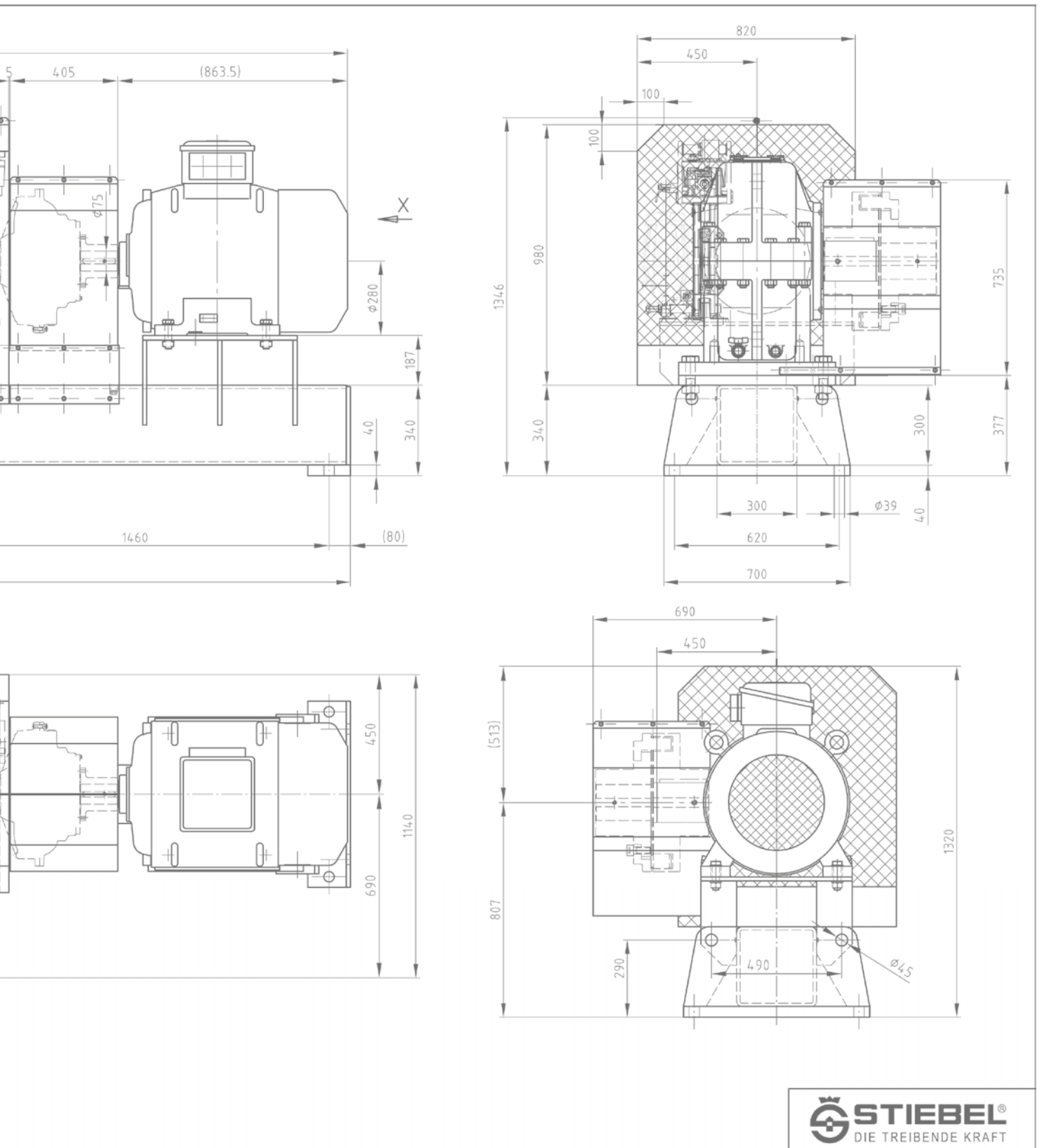
		Load spectrum: P = 100 % - ED = 100 %						Lh = 80000 h				BF ≥ 2,0	
		10	11,2	12,5	14	16	18	20	22,4	25	28	31,5	35,5
<b>Motor rating in kW – 6-pole</b>	i : 1	10	11,2	12,5	14	16	18	20	22,4	25	28	31,5	35,5
	n <sub>2</sub> /Rpm	100	89	83	72	61	54	50	44	38	34	32	28
	75	23	23	23	23	25	25	25	25	27	27	27	27
	90	25	25	25	25	25	27	27	27	29	29	29	29
	110	25	25	25	25	27	27	27	27	29	29	29	29
	132	25	27	27	27	27	27	29	29	31	31	31	31
	160	27	27	27	27	29	29	29	29	31	31	31	31
	200	27	29	29	29	29	31	31	31	31	31	31	31
	250	29	29	29	29	31	31	31	31	33	33	33	33
	315	31	31	31	31	33	33	33	33	35	35	35	35
	355	31	31	31	31	33	33	33	33	35	35	35	35
	400	31	31	31	31	33	33	33	33	35	35	35	35
	450	33	33	33	33	33	33	33	33	35	35	35	35
	500	33	33	33	33	35	35	35	35	---	---	---	---
	560	33	33	33	33	35	35	35	35	---	---	---	---
	630	33	33	33	33	35	35	35	---	---	---	---	---
	710	35	35	35	35	35	---	---	---	---	---	---	---
			Load spectrum: P = 100 % - ED = 10 % + P = 90 % - ED = 10 % + P = 80 % - ED = 80 % +						Lh = 80000 h				BF ≥ 2,0
		10	11,2	12,5	14	16	18	20	22,4	25	28	31,5	35,5
		100	89	83	72	61	54	50	44	38	34	32	28
		75	23	23	23	23	23	25	25	27	27	27	27
		90	23	23	23	23	25	25	25	27	27	27	27
		110	25	25	25	25	25	27	27	27	29	29	29
		132	25	25	25	25	27	27	27	29	29	29	29
		160	25	27	27	27	27	27	29	31	31	31	31
		200	27	27	27	27	29	29	29	31	31	31	31
		250	27	29	29	29	29	31	31	31	31	31	31
		315	29	29	29	31	31	31	31	33	33	33	33
		355	29	31	31	31	31	31	31	35	35	35	35
		400	31	31	31	31	33	33	33	35	35	35	35
		450	31	31	31	31	33	33	33	35	35	35	35
		500	31	31	31	31	33	33	33	35	35	35	35
		560	33	33	33	33	33	33	33	---	---	---	---
		630	33	33	33	33	35	35	35	---	---	---	---
		710	33	33	33	33	35	35	35	---	---	---	---



## Individual installation drawing

On submitting an enquiry you will receive a dimensional drawing tailored to your individual requirements.







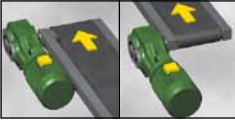
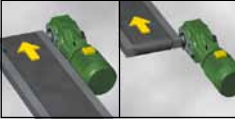
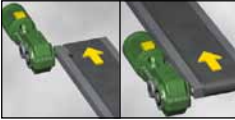
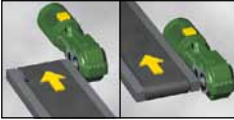
## We adapt to your environment

The QuarryMaster® HighPower is designed in order to offer you a great number of options. Whether you want to fit it with hollow or solid shafts, with or without backstop or with any individual additional devices – just do it. We will assemble your QuarryMaster® HighPower exactly the way you require it.

Each one of our high-power gear units is as special as our customers are. We deploy state of the art processes for custom-made products. We have made it our goal to offer all our clients an individual solution to their drive problems, no matter how challenging this task might be. And up until now we have always achieved this objective.

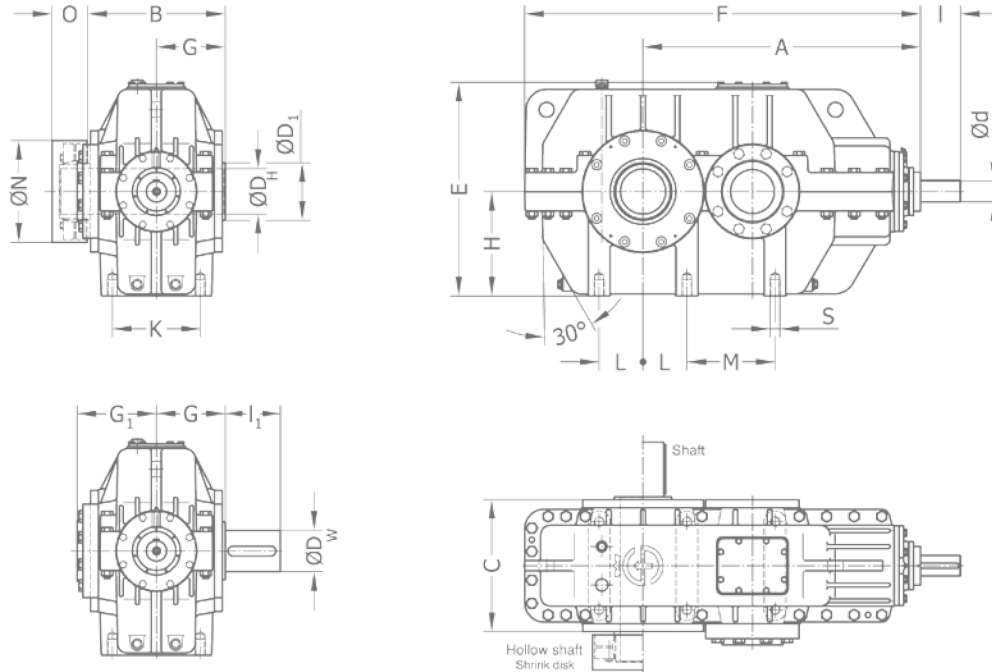
# Order number system

Example: H 200.082.140 S 1 E 01 25.13

Example	Designation	Variants	Explanation
H	HighPower	17 - 35	Drive unit
200.	Power	11 - 710	Power variations (kW), e.g. 200 = 200 kW
082.	Speed n <sub>2</sub>	033 - 145	rpm (min <sup>-1</sup> ), e.g. 082 = 82 min <sup>-1</sup>
140	Output diameter	100 - 280	Output diameter (mm), e.g. 140 = 140 mm
S	Output type	S, P, W or T	S = hollow shaft shrink disk P = hollow shaft keyway W = output shaft T = output shaft both sides
1	Output (backstop / brake)	Right 0 / 1 / 2 / 3 / A / C Left 4 / 5 / 6 / 7 / B / D	R / L = output right or left 0 / 4 = without backstop or brake 1 / 5 = backstop 2 / 6 = shoe brake 3 / 7 = disk brake A / B = disk brake + backstop C / D = shoe brake + backstop <i>Please notice mounting position!!!</i>
E	Type of coupling	E or S	E = flexible coupling, S = hydraulic coupling
01	Serial / model number	01 - 99	To identify different clutch models, motor manufacturer, thermal cut-out or other special features
25.	Installed size of gear	17. - 35.	Gear types, e.g. 25. = 3225
1	Mounting configuration	1 / 2 / 3 / 4	Output <b>right</b> only for mounting configuration 1 / 4 Output <b>left</b> only for mounting configuration 2 / 3
	<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <input type="checkbox"/> 1   </div> <div style="text-align: center;"> <input type="checkbox"/> 2   </div> <div style="text-align: center;"> <input type="checkbox"/> 3   </div> <div style="text-align: center;"> <input type="checkbox"/> 4   </div> </div>		
3	Colour	0 - 7 / F / S	<input type="radio"/> <input checked="" type="checkbox"/> 0 - primed <input type="radio"/> <input checked="" type="checkbox"/> 1 - RAL 6002 leaf green (Stiebel standard) <input type="radio"/> <input checked="" type="checkbox"/> 2 - RAL 1021 colza yellow <input type="radio"/> <input checked="" type="checkbox"/> 3 - RAL 3002 carmine red <input type="radio"/> F - different choice of colour <input type="radio"/> S - Special lacquer finish <input type="radio"/> <input checked="" type="checkbox"/> 4 - RAL 5007 brilliant blue <input type="radio"/> <input checked="" type="checkbox"/> 5 - RAL 7001 silver grey <input type="radio"/> <input checked="" type="checkbox"/> 6 - RAL 7035 light grey <input type="radio"/> <input checked="" type="checkbox"/> 7 - RAL 7015 slate grey <input style="width: 100px; height: 20px; margin-top: 10px;" type="text"/> <input style="width: 100px; height: 20px; margin-top: 10px;" type="text"/>



# Mounting dimensions



Installed size	T <sub>2</sub> Nm	D <sub>H</sub> Hollow shaft Shrink disk mm	D <sub>w</sub> Welle mm	I <sub>1</sub> mm	D <sub>1</sub> mm	A mm	B mm	C mm	E mm	F mm	G mm	G <sub>1</sub> mm	H mm	K mm	L mm	M mm	N mm	O mm	S mm	d mm	I mm
<b>17</b>	9000	100	100	165	130	516	280	272	470	770	140	158	225	180	80	160	233	75	M20	42	110
<b>21</b>	17000	120	110	165	170	660	370	360	570	970	185	204	275	225	110	220	286	90	M27	45	110
<b>23</b>	22000	135	120	165	180	705	410	400	570	1030	205	236	275	250	125	250	315	115	M33	55	110
<b>25</b>	32000	150	140	200	200	835	460	440	670	1210	230	263	325	300	140	280	348	110	M36	65	140
<b>27</b>	50000	165	150	200	220	1015	500	480	780	1445	250	302	380	320	160	320	370	145	M36	75	140
<b>29</b>	72500	180	160	240	240	1140	560	548	885	1625	280	330	435	360	180	360	418	175	M42	85	170
<b>31</b>	110000	190	190	280	250	1330	670	658	990	1835	335	396	485	450	225	450	428	175	M42	100	170
<b>33</b>	170000	230	220	280	310	1520	760	750	1110	2105	380	484	545	500	250	500	508	220	M42	110	180
<b>35</b>	240000	280	240	330	360	1750	830	820	1340	2445	415	524	660	560	280	560	613	240	M42	120	180

Fax to (0 22 91) 791-298  
Stiebel Getriebebau GmbH & Co. KG  
Industriestr. 12

D-51545 Waldbröl

Company: \_\_\_\_\_

Contact: \_\_\_\_\_

Street: \_\_\_\_\_

Postcode, City: \_\_\_\_\_

Phone: \_\_\_\_\_

Fax: \_\_\_\_\_

E-Mail: \_\_\_\_\_

## Technical questionnaire

### Type of Drive

Power  $P_{\text{Motor}}$   kW

Speed  $n_1$    $\text{min}^{-1}$

Power  $P_{\text{eff}}$   kW

flexible coupling  hydraulic coupling  shockproof  strong shocks k

other  
brake, backstop, heater, temperature sensor, ...

required output  
speed  $n_2$    $\text{min}^{-1}$

drum  $\varnothing$   mm

belt speed  $v$   m/s

### Type of Output

shaft  $\varnothing$   mm

hollow shaft  $\varnothing$   mm

hollow shaft  
shrink disk  $\varnothing$   mm

other  
flange coupling, gear coupling, flexible coupling, ...

### Electric Motor

voltage  V

frequency  Hz

protection

ISO class

### Required Output Torque

rated torque  $T$   Nm

maximum torque  $T_{\text{max}}$   Nm

### Additional Loading Output

axial load  $F_a$   N

radial load  $F_r$   N

acting on centre  
hollow shaft / shaft

### Operating Conditions

required service life  h daily operating time  8h  16h  24h or  h

duty cycle ED  % referred to 8h operation

ambient conditions  normal  dusty  damp  other

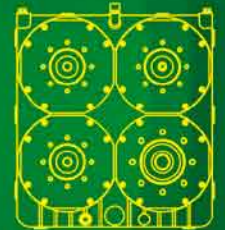
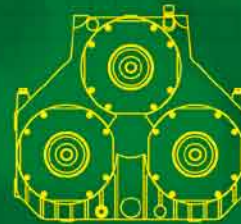
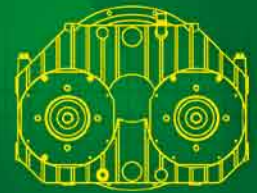
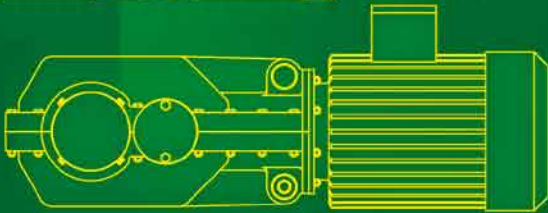
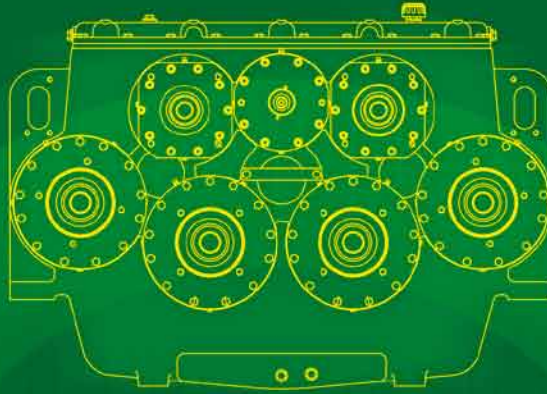
altitude of site  m

ambient temperature  $_{\text{max}}$    $^{\circ}\text{C}$

ambient temperature  $_{\text{min}}$    $^{\circ}\text{C}$

## Special Gear Units

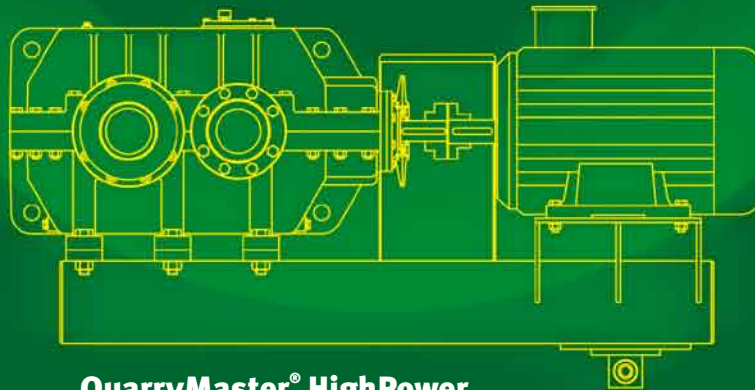
Custom-made Drive Solutions



**P 2000**  
Pump Drives

### QuarryMaster®

Helical-bevel Geared Motors



### QuarryMaster® HighPower

Drive Groups



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D-51545 Waldbröl

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