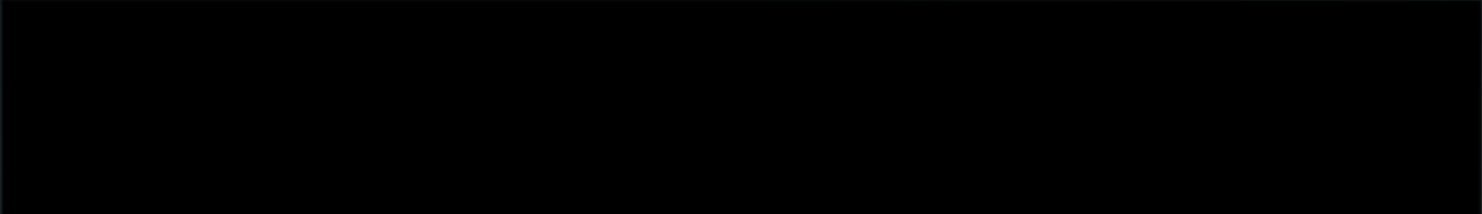
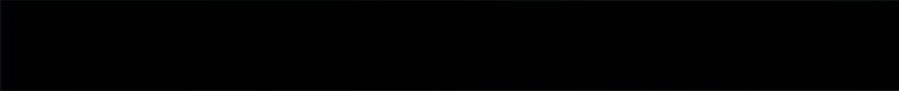
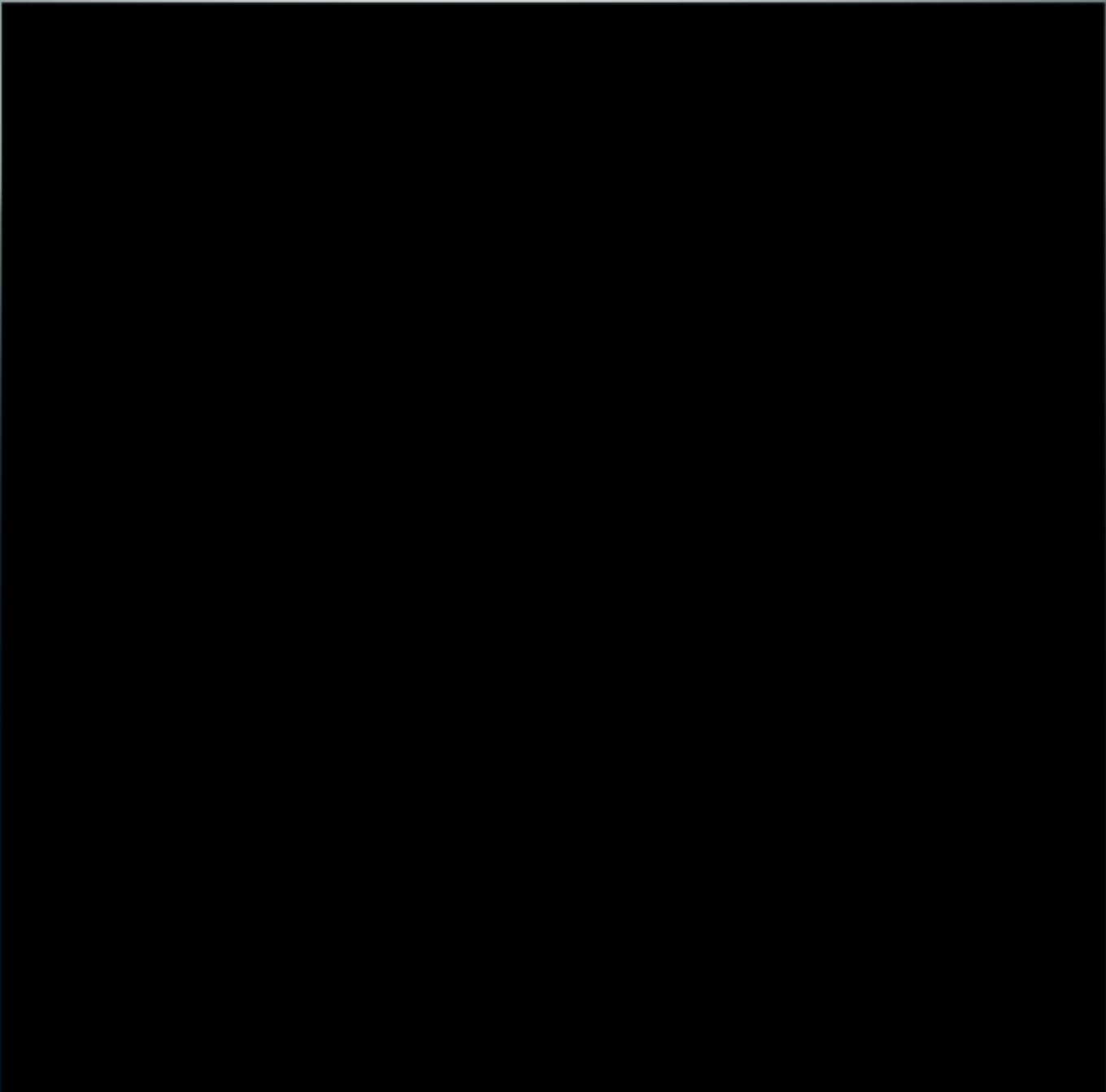
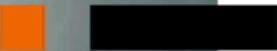


KUKA



KUKA





12

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KR QUANTEC 27 300
2500 3900

KR QUANTEC

KR QUANTEC



QR



	KR QUANTEC pro	KR 90 R2700 pro	KR 120 R2500 pro	
	KR QUANTEC extra	KR 90 R3100 extra	KR 120 R2900 extra	KR 150 R2700 extra
	KR QUANTEC prime	KR 150 R3100 prime	KR 180 R2900 prime	KR 210 R2700 prime
	KR QUANTEC ultra	KR 210 R3100 ultra	KR 240 R2900 ultra	KR 270 R2700 ultra
		KR C4		KR 300 R2500 ultra
		smartPAD		





1



2

1 KR QUANTEC



3

2
1
3

KR QUANTEC

KR QUANTEC

KR QUANTEC

KR QUANTEC

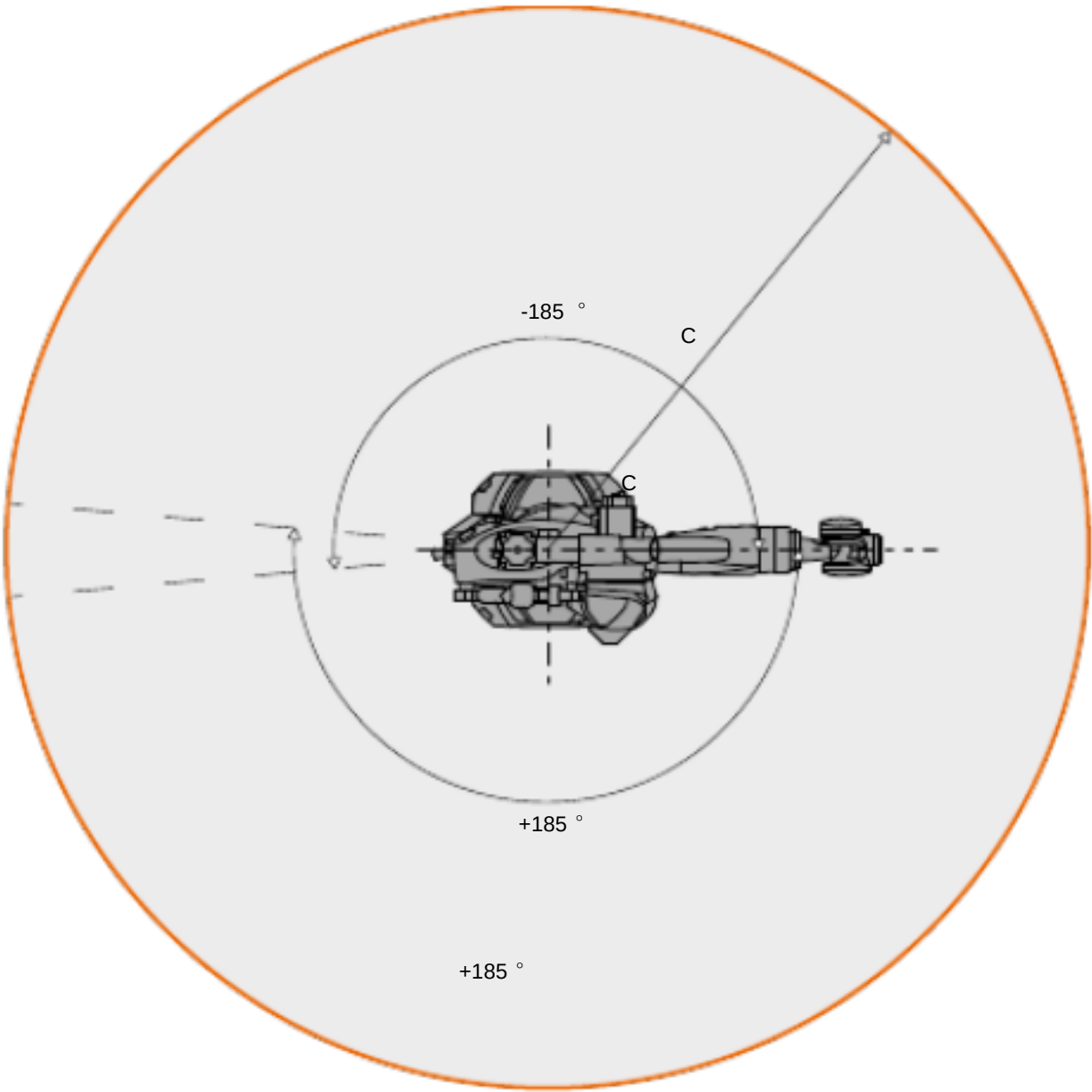
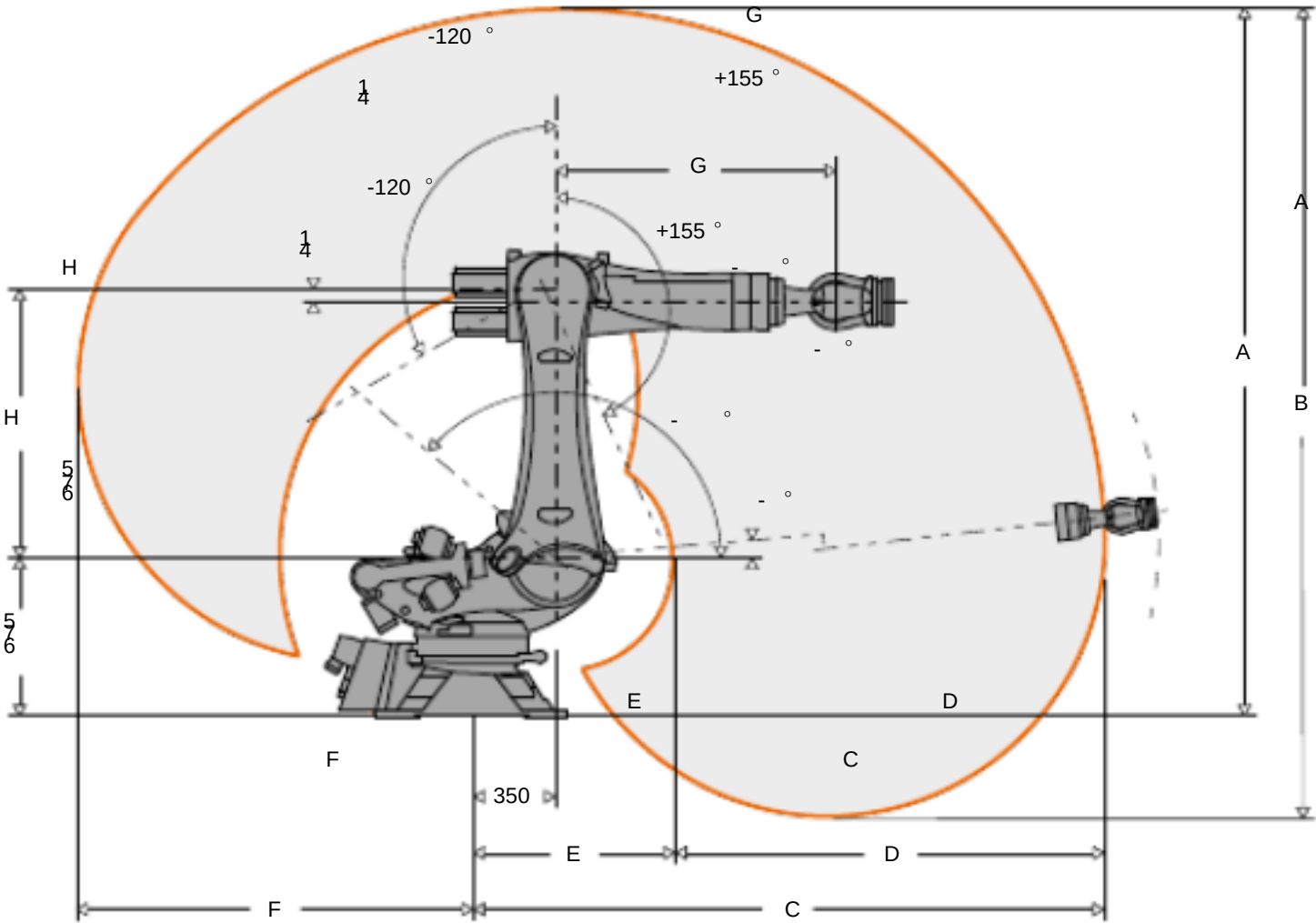
20000

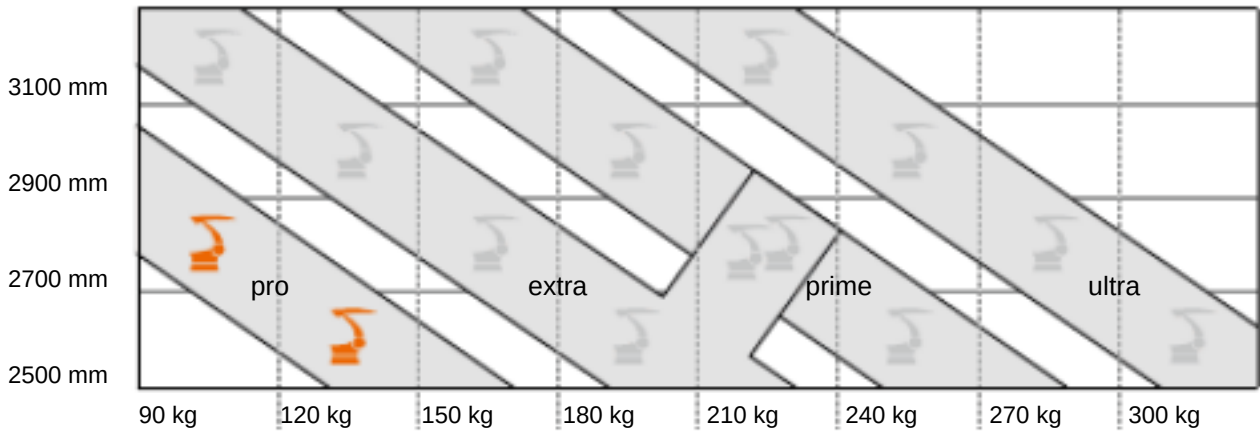
KR QUANTEC

pro

¹⁾	A	B	C	D	E	F	G	H	
KR 120 R2500 pro	2826 mm	3051 mm	2496 mm	1699 mm	797 mm	1532 mm	1000 mm	1150 mm	55 m ³
KR 90 R2700 pro	3026 mm	3451 mm	2696 mm	1874 mm	822 mm	1732 mm	1200 mm	1150 mm	55 m ³

675







KR 120 R2500 pro			KR 90 R2700 pro				
3/	2/	1	2496 mm	2696 mm			
			120 kg	90 kg			
			50 kg/ - / -	50 kg/ - / -			
			170 kg	140 kg			
			±0.06 mm	±0.06 mm			
			6	6			
			-	-			
			830 mm x 830 mm	830 mm x 830 mm			
			1049 kg	1058 kg			
/			120 kg	90 kg			
1 (A1)	+/-185 °	136 ° /s	136 ° /s				
2 (A2)	-5 ° /-140 °	130 ° /s	130 ° /s				
3 (A3)	+155 ° /-120 °	120 ° /s	120 ° /s				
4 (A4)	+/-350 °	292 ° /s	292 ° /s				
5 (A5)	+/-125 °	258 ° /s	258 ° /s				
6 (A6)	+/-350 °	284 ° /s	284 ° /s				

+10 ° C +55 ° C



KR C4

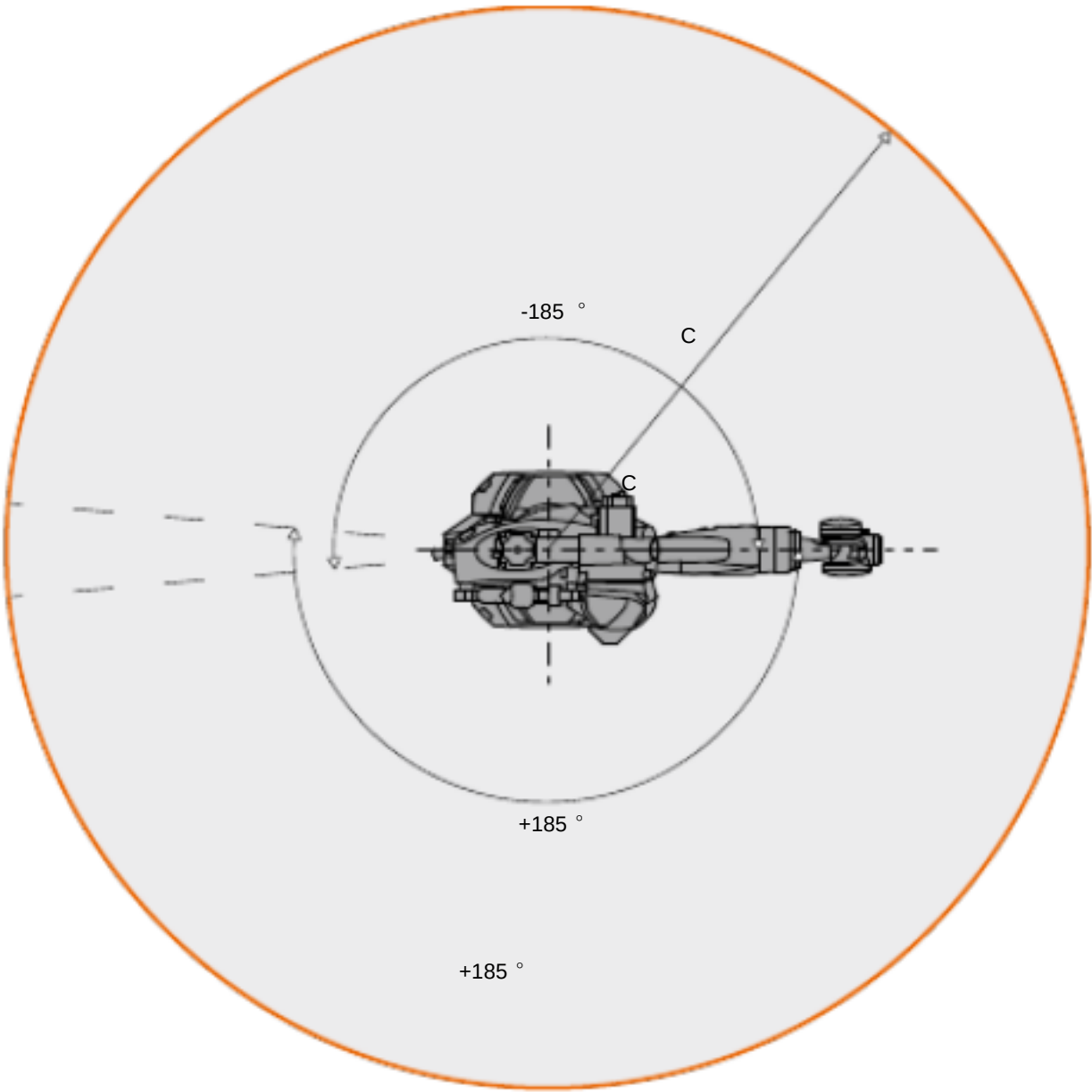
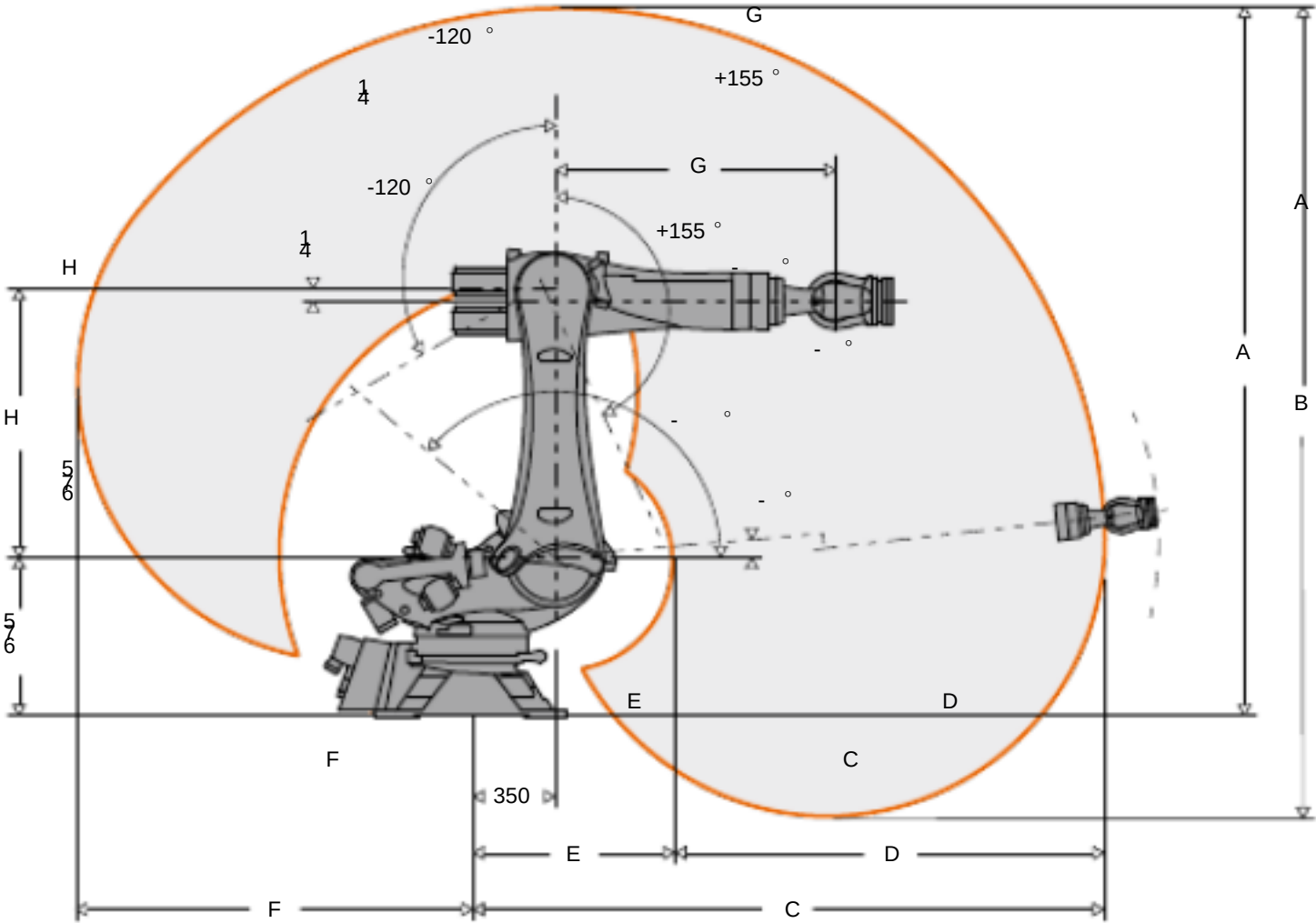


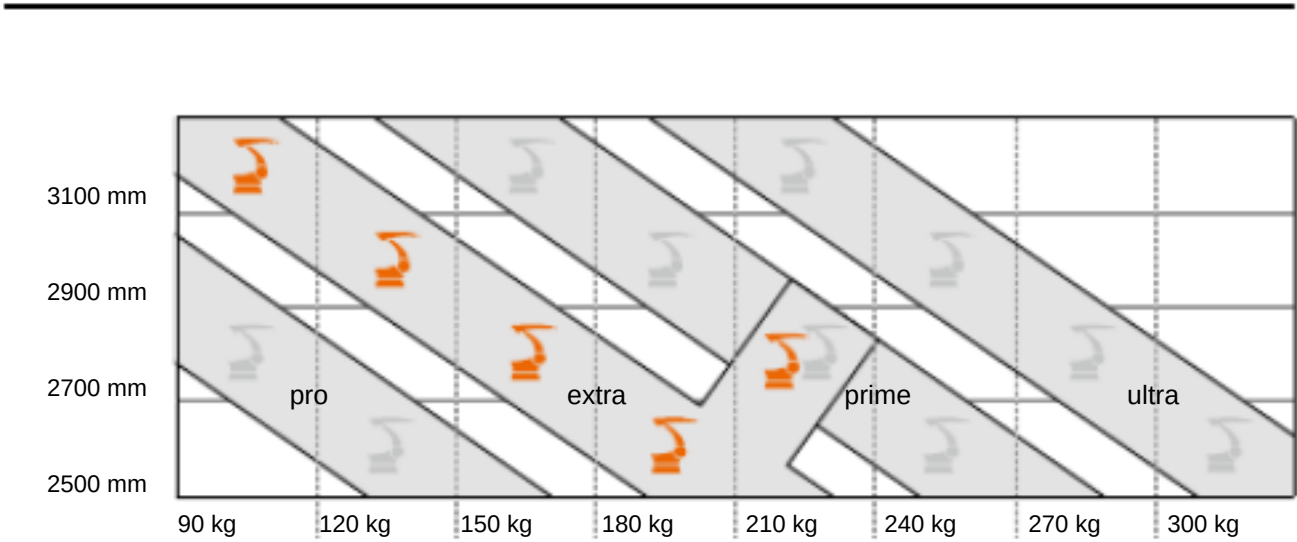
smartPAD

tra

1)	A	B	C	D	E	F	G	H
KR 210 R2700 extra	— 3026 mm	— 3451 mm	— 2696 mm	— 1874 mm	— 822 mm	— 1732 mm	— 1200 mm	— 1150 mm
KR 180 R2500 extra	— 2826 mm	— 3051 mm	— 2496 mm	— 1699 mm	— 797 mm	— 1532 mm	— 1000 mm	— 1150 mm
KR 150 R2700 extra	— 3026 mm	— 3451 mm	— 2696 mm	— 1874 mm	— 822 mm	— 1732 mm	— 1200 mm	— 1150 mm
KR 120 R2900 extra	— 3226 mm	— 3634 mm	— 2896 mm	— 2016 mm	— 880 mm	— 1885 mm	— 1200 mm	— 1350 mm
KR 90 R3100 extra	— 3426 mm	— 4034 mm	— 3095 mm	— 2187 mm	— 908 mm	— 2085 mm	— 1400 mm	— 1350 mm

675





			KR 210 R2700 extra		KR 180 R2500 extra		KR 150 R2700 extra		KR 120 R2900 extra		KR 90 R3100 extra	
			2696 mm		2496 mm		2696 mm		2896 mm		3095 mm	
			210 kg		180 kg		150 kg		120 kg		90 kg	
3/	2/	1	50 kg/ - / -		50 kg/ - / -		50 kg/ - / -		50 kg/ - / -		50 kg/ - / -	
			260 kg		230 kg		200 kg		170 kg		140 kg	
			± 0.06 mm		± 0.06 mm		± 0.06 mm		± 0.06 mm		± 0.06 mm	
			6		6		6		6		6	
			830 mm x 830 mm		830 mm x 830 mm		830 mm x 830 mm		830 mm x 830 mm		830 mm x 830 mm	
			1068 kg		1059 kg		1068 kg		1084 kg		1092 kg	
			210 kg		180 kg		150 kg		120 kg		90 kg	
1 (A1)	+/-185 °		123 ° /s		123 ° /s		123 ° /s		123 ° /s		123 ° /s	
2 (A2)	-5 ° /-140 °		115 ° /s		115 ° /s		115 ° /s		115 ° /s		115 ° /s	
3 (A3)	+155 ° /-120 °		112 ° /s		120 ° /s		120 ° /s		120 ° /s		120 ° /s	
4 (A4)	+/-350 °		179 ° /s		179 ° /s		179 ° /s		292 ° /s		292 ° /s	
5 (A5)	+/-125 °		172 ° /s		172 ° /s		172 ° /s		258 ° /s		258 ° /s	
6 (A6)	+/-350 °		219 ° /s		219 ° /s		219 ° /s		284 ° /s		284 ° /s	

+10 ° C +55 ° C

IP 65
IP 65
IP 65



KR C4

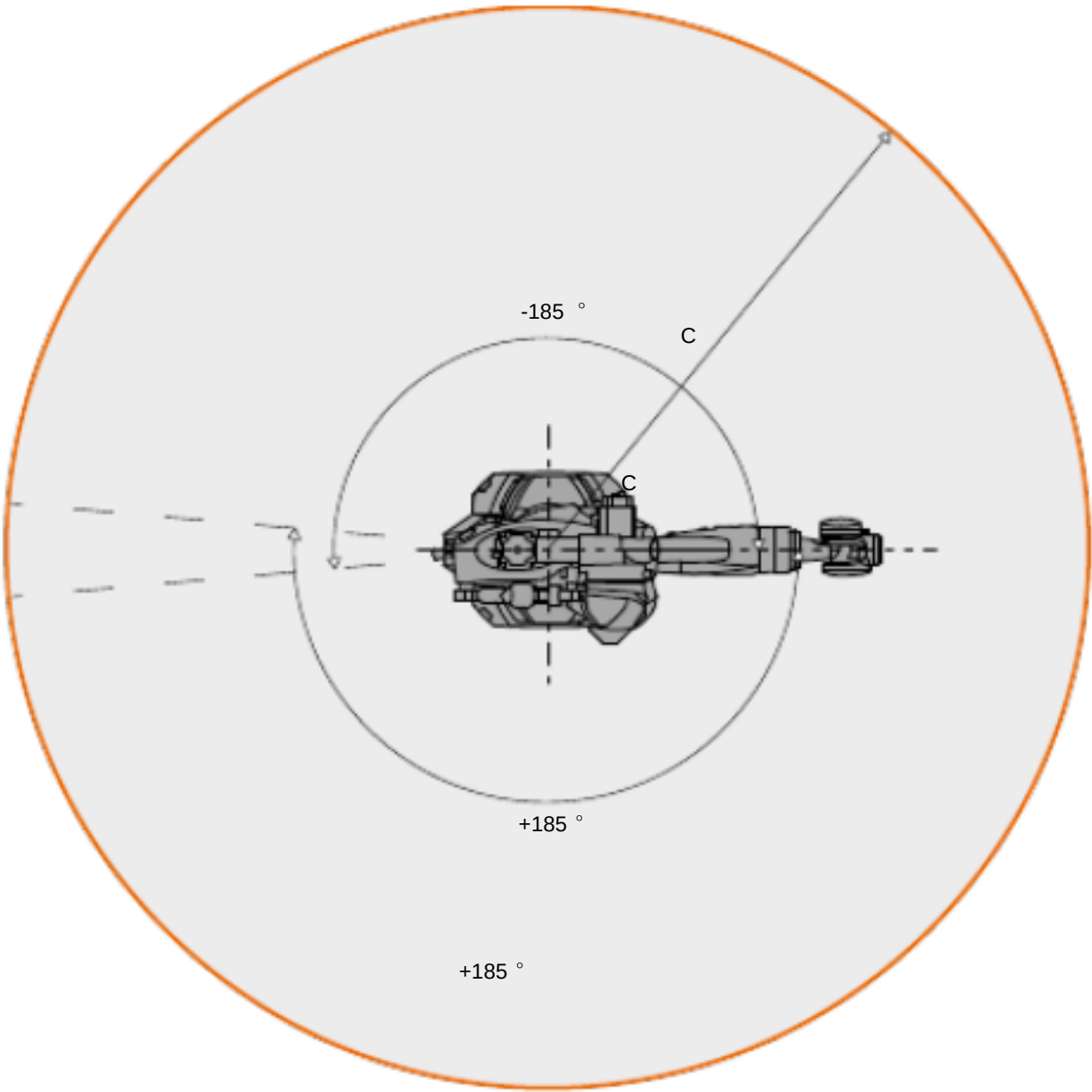
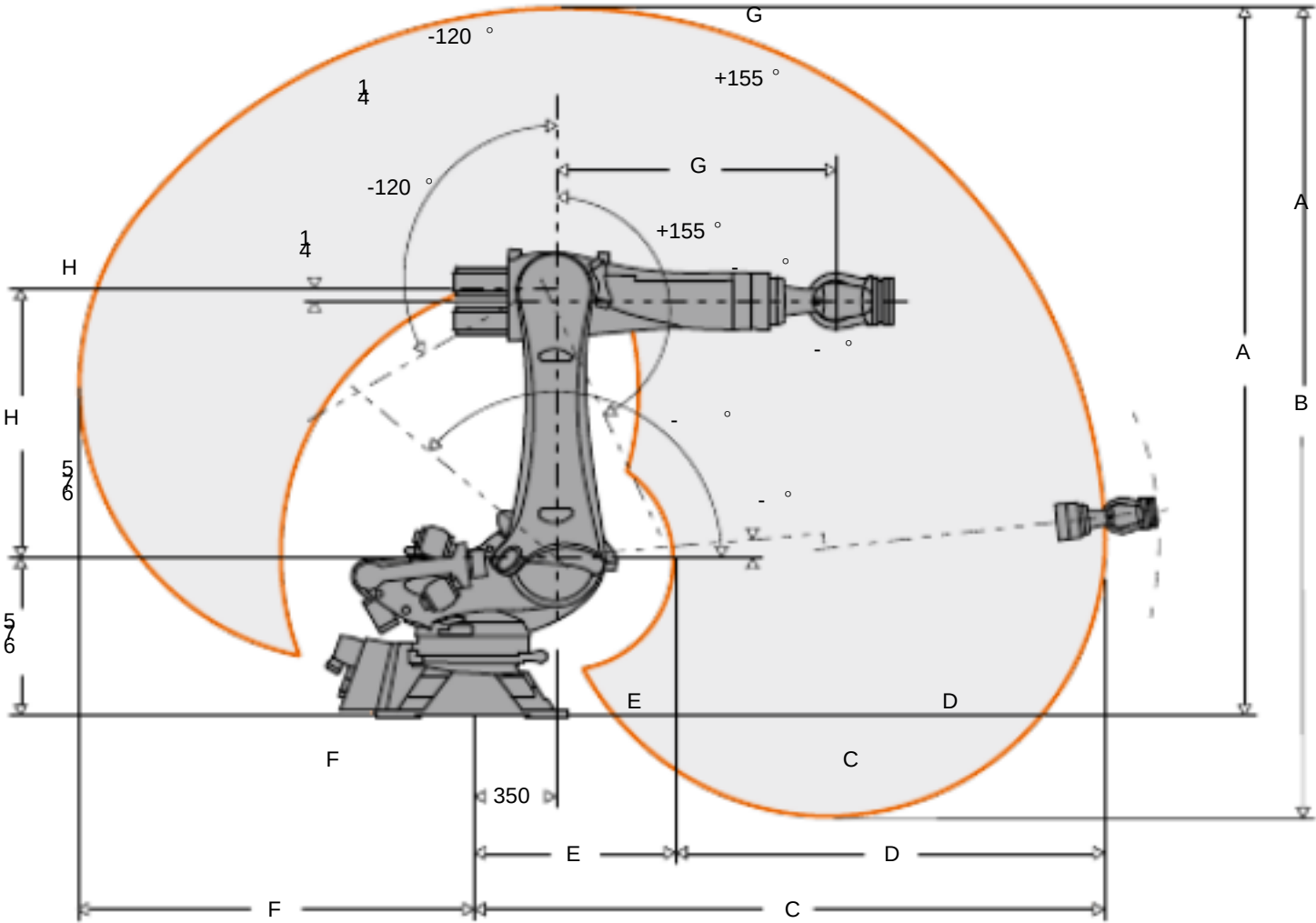


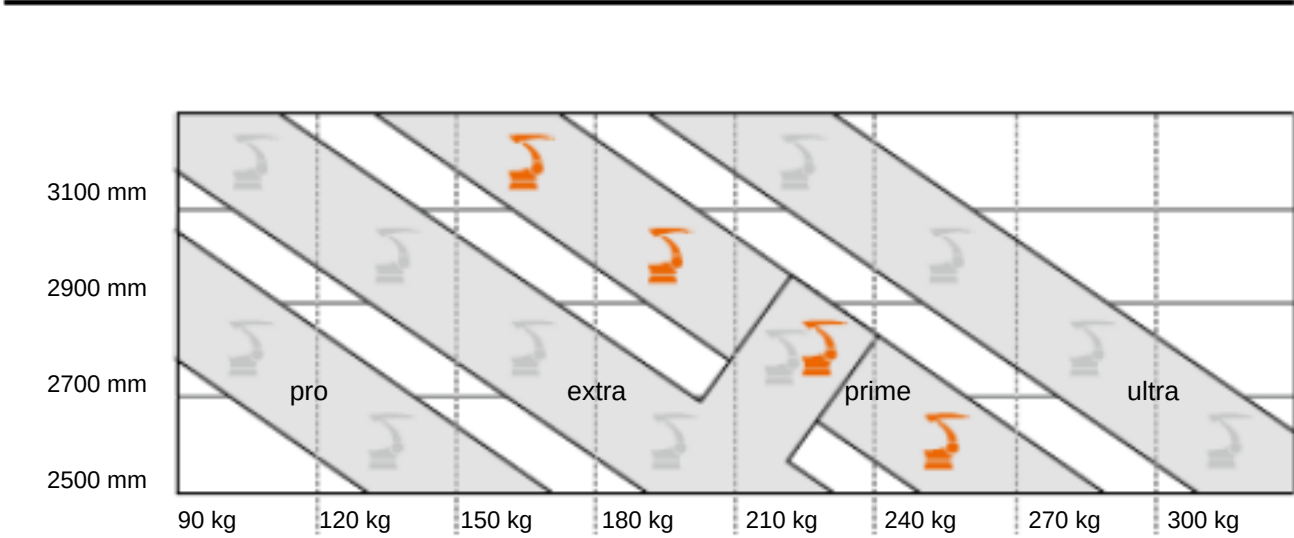
smartPAD

me

¹⁾	A	B	C	D	E	F	G	H	
KR 240 R2500 prime	— 2826 mm	— 3051 mm	— 2496 mm	— 1699 mm	— 797 mm	— 1532 mm	— 1000 mm	— 1150 mm	— 41 m ³
KR 240 R2700 prime	— 3026 mm	— 3451 mm	— 2696 mm	— 1874 mm	— 822 mm	— 1732 mm	— 1200 mm	— 1150 mm	— 55 m ³
KR 210 R2700 prime	— 3026 mm	— 3451 mm	— 2696 mm	— 1874 mm	— 822 mm	— 1732 mm	— 1200 mm	— 1150 mm	— 55 m ³
KR 180 R2900 prime	— 3226 mm	— 3634 mm	— 2896 mm	— 2016 mm	— 880 mm	— 1885 mm	— 1200 mm	— 1350 mm	— 66 m ³
KR 150 R3100 prime	— 3426 mm	— 4034 mm	— 3095 mm	— 2187 mm	— 908 mm	— 2085 mm	— 1400 mm	— 1350 mm	— 84 m ³

675





			KR 240 R2500 prime		KR 240 R2700 prime		KR 210 R2700 prime		KR 180 R2900 prime		KR 150 R3100 prime			
			2496 mm		2696 mm		2696 mm		2896 mm		3095 mm			
3/	2/	1	240 kg		240 kg		210 kg		180 kg		150 kg			
			50 kg/ - / -		50 kg/ - / -		50 kg/ - / -		50 kg/ - / -		50 kg/ - / -			
			290 kg		290 kg		260 kg		230 kg		200 kg			
± 0.06 mm			± 0.06 mm		± 0.06 mm		± 0.06 mm		± 0.06 mm					
6			6		6		6		6					
830 mm x 830 mm			830 mm x 830 mm		830 mm x 830 mm		830 mm x 830 mm		830 mm x 830 mm					
1102 kg			1111 kg		1111 kg		1106 kg		1114 kg					
/														
240 kg			240 kg		210 kg		180 kg		150 kg					
1 (A1)			+/-185 °		105 ° /s		105 ° /s		105 ° /s		105 ° /s			
2 (A2)			-5 ° /-140 °		107 ° /s		107 ° /s		107 ° /s		107 ° /s			
3 (A3)			+155 ° /-120 °		114 ° /s		114 ° /s		114 ° /s		114 ° /s			
4 (A4)			+/-350 °		136 ° /s		179 ° /s		179 ° /s		179 ° /s			
5 (A5)			+125 ° /-122.5 °		129 ° /s		129 ° /s		172 ° /s		172 ° /s			
6 (A6)			+/-350 °		206 ° /s		219 ° /s		219 ° /s		219 ° /s			

+10 ° C +55 ° C

IP 65

IP 65

IP 67

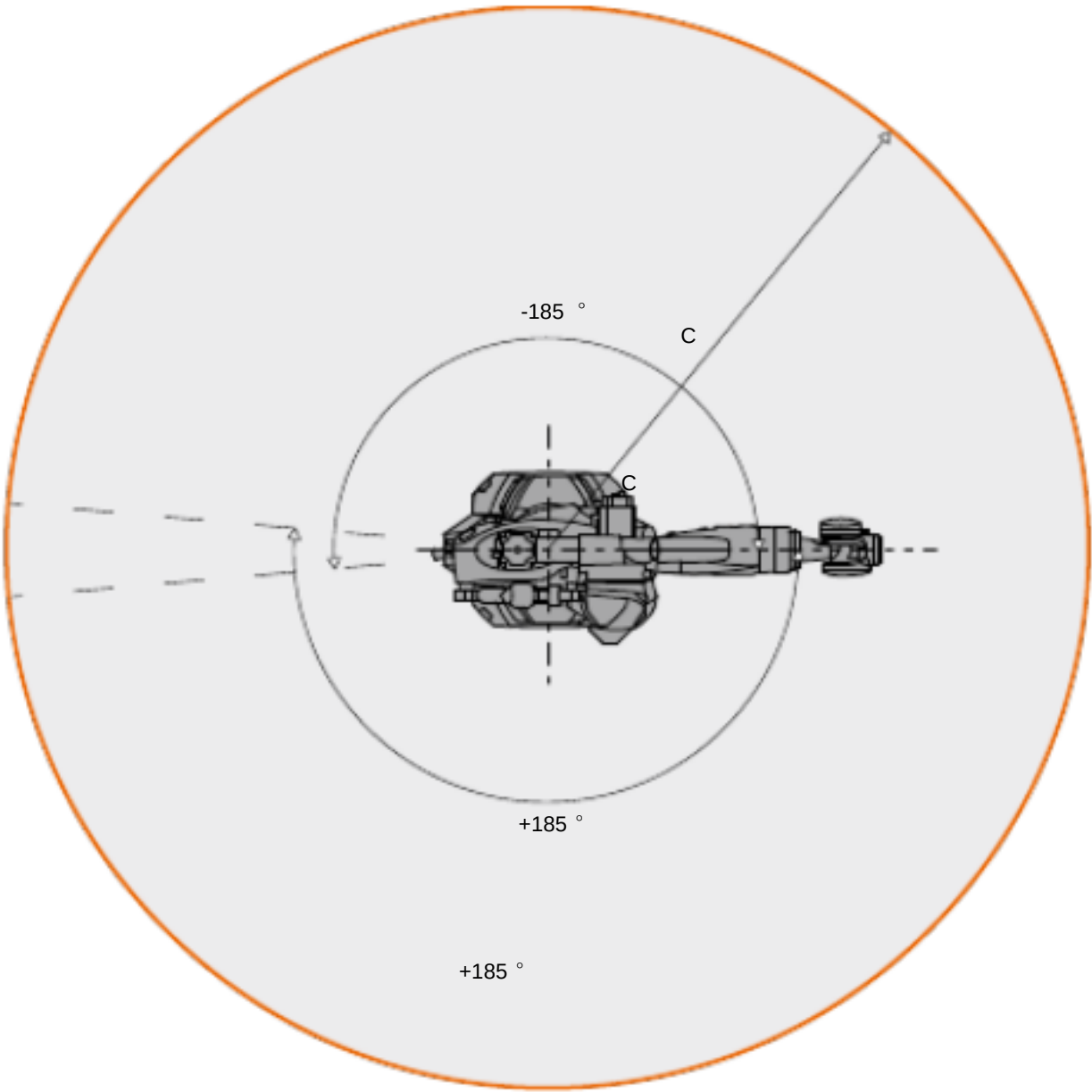
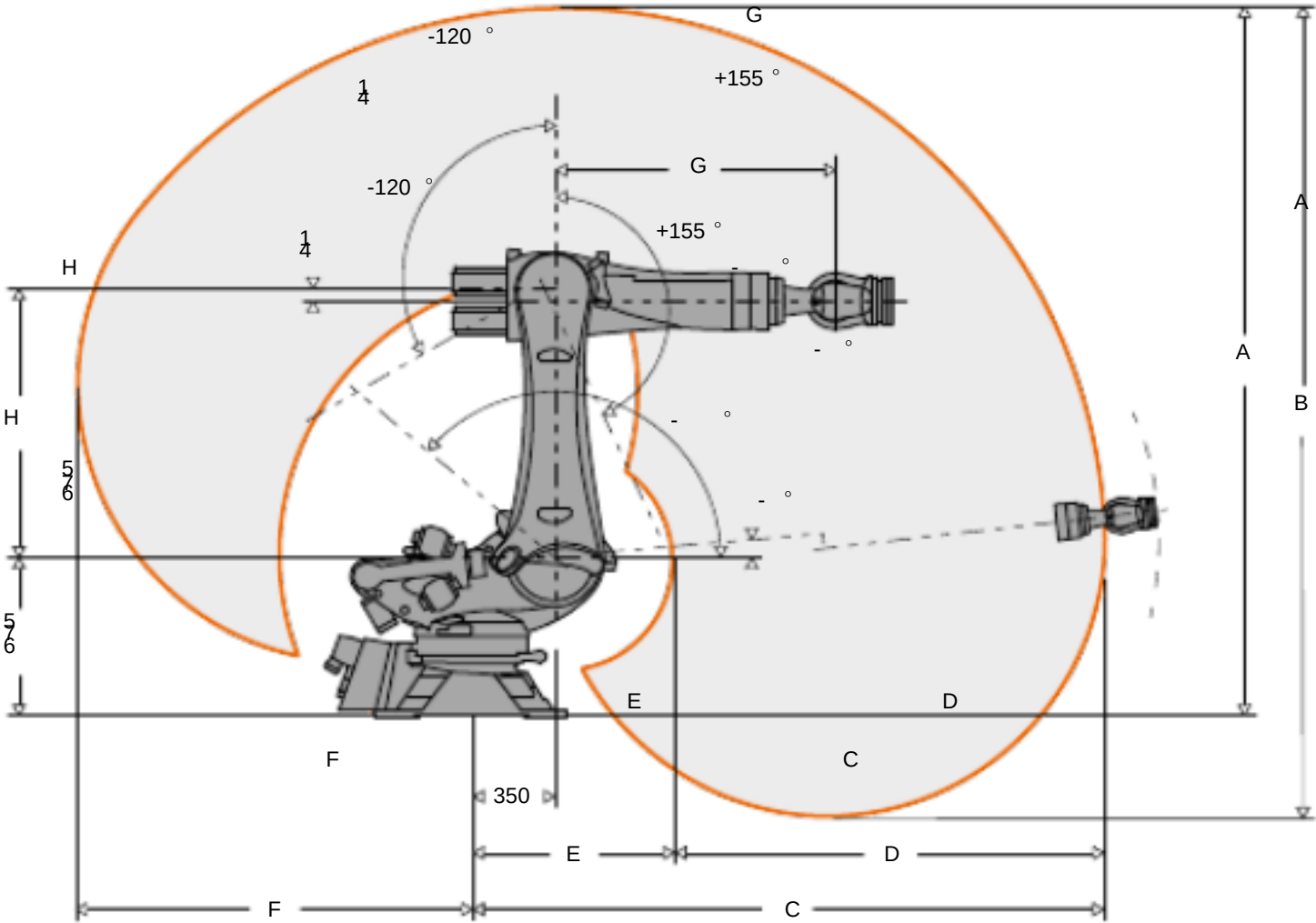
KR C4

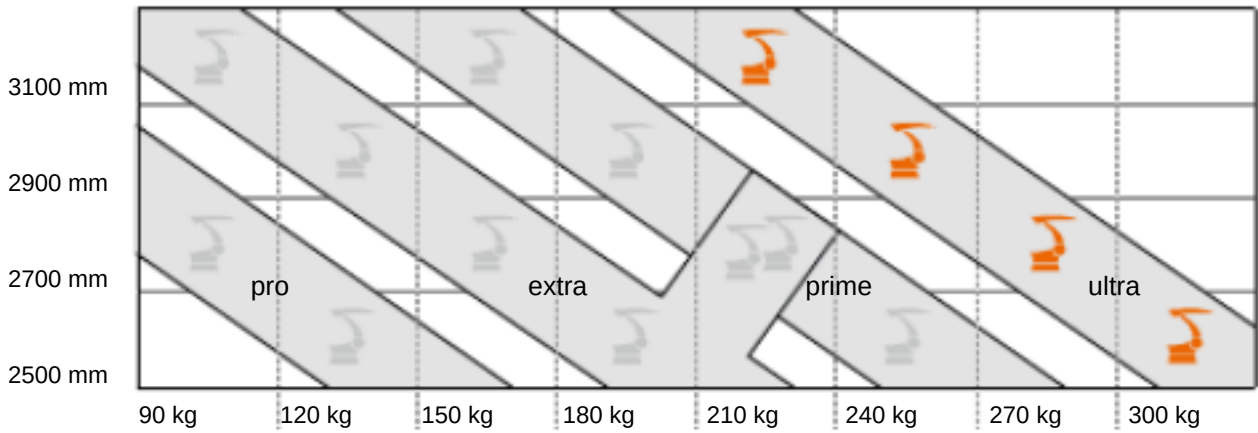
smartPAD

tra

¹⁾	A	B	C	D	E	F	G	H	
KR 300 R2500 ultra	— 2826 mm	— 3051 mm	— 2496 mm	— 1699 mm	— 797 mm	— 1532 mm	— 1000 mm	— 1150 mm	— 41 m ³
KR 270 R2700 ultra	— 3026 mm	— 3451 mm	— 2696 mm	— 1874 mm	— 822 mm	— 1732 mm	— 1200 mm	— 1150 mm	— 55 m ³
KR 240 R2900 ultra	— 3226 mm	— 3634 mm	— 2896 mm	— 2016 mm	— 880 mm	— 1885 mm	— 1200 mm	— 1350 mm	— 66 m ³
KR 210 R3100 ultra	— 3426 mm	— 4034 mm	— 3095 mm	— 2187 mm	— 908 mm	— 2085 mm	— 1400 mm	— 1350 mm	— 84 m ³

675





			KR 300 R2500 ultra	KR 270 R2700 ultra	KR 240 R2900 ultra	KR 210 R3100 ultra
			2496 mm	2696 mm	2896 mm	3095 mm
			300 kg	270 kg	240 kg	210 kg
3/	2/	1	50 kg/ – / –	50 kg/ – / –	50 kg/ – / –	50 kg/ – / –
			350 kg	320 kg	290 kg	260 kg
			± 0.06 mm	± 0.06 mm	± 0.06 mm	± 0.06 mm
			6	6	6	6
			830 mm x 830 mm	830 mm x 830 mm	830 mm x 830 mm	830 mm x 830 mm
			1120 kg	1129 kg	1145 kg	1154 kg
			/			
			300 kg	270 kg	240 kg	210 kg
1 (A1)		+/-185 °	105 ° /s	105 ° /s	105 ° /s	105 ° /s
2 (A2)		-5 ° /-140 °	101 ° /s	101 ° /s	101 ° /s	101 ° /s
3 (A3)		+155 ° /-120 °	107 ° /s	107 ° /s	107 ° /s	107 ° /s
4 (A4)		+/-350 °	122 ° /s	122 ° /s	136 ° /s	136 ° /s
5 (A5)		+125 ° /-122.5 °	113 ° /s	113 ° /s	129 ° /s	129 ° /s
6 (A6)		+/-350 °	175 ° /s	175 ° /s	206 ° /s	206 ° /s

+10 ° C +55 ° C

IP 65
IP 65
IP 67



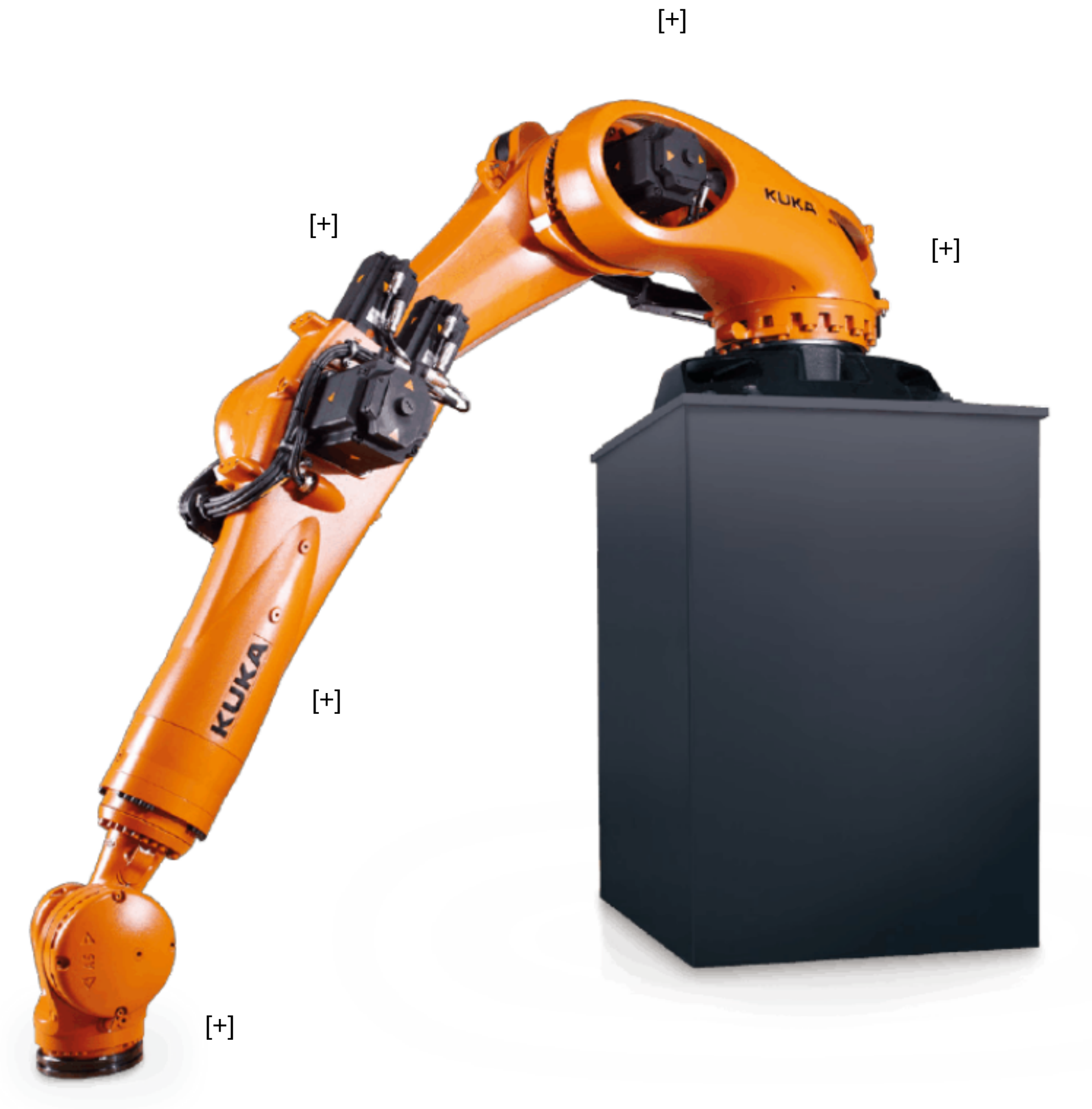
KR C4



smartPAD



	_____	KR QUANTEC prime KKR 90 R3700 prime K	KR 120 R3500 prime K	KR 150 R3300 prime K	_____
	_____	KR QUANTEC prime KKR 180 R3100 prime K	KR 210 R2900 prime K		_____
	_____	KR QUANTEC ultra KKR 120 R3900 ultra K	KR 150 R3700 ultra K	KR 180 R3500 ultra K	_____
	_____	KR QUANTEC ultra KKR 210 R3300 ultra K	KR240 R3100 ultra K	KR270 R2900 ultra K	_____
	_____	KR C4			_____
	_____	smartPAD			_____





1



2

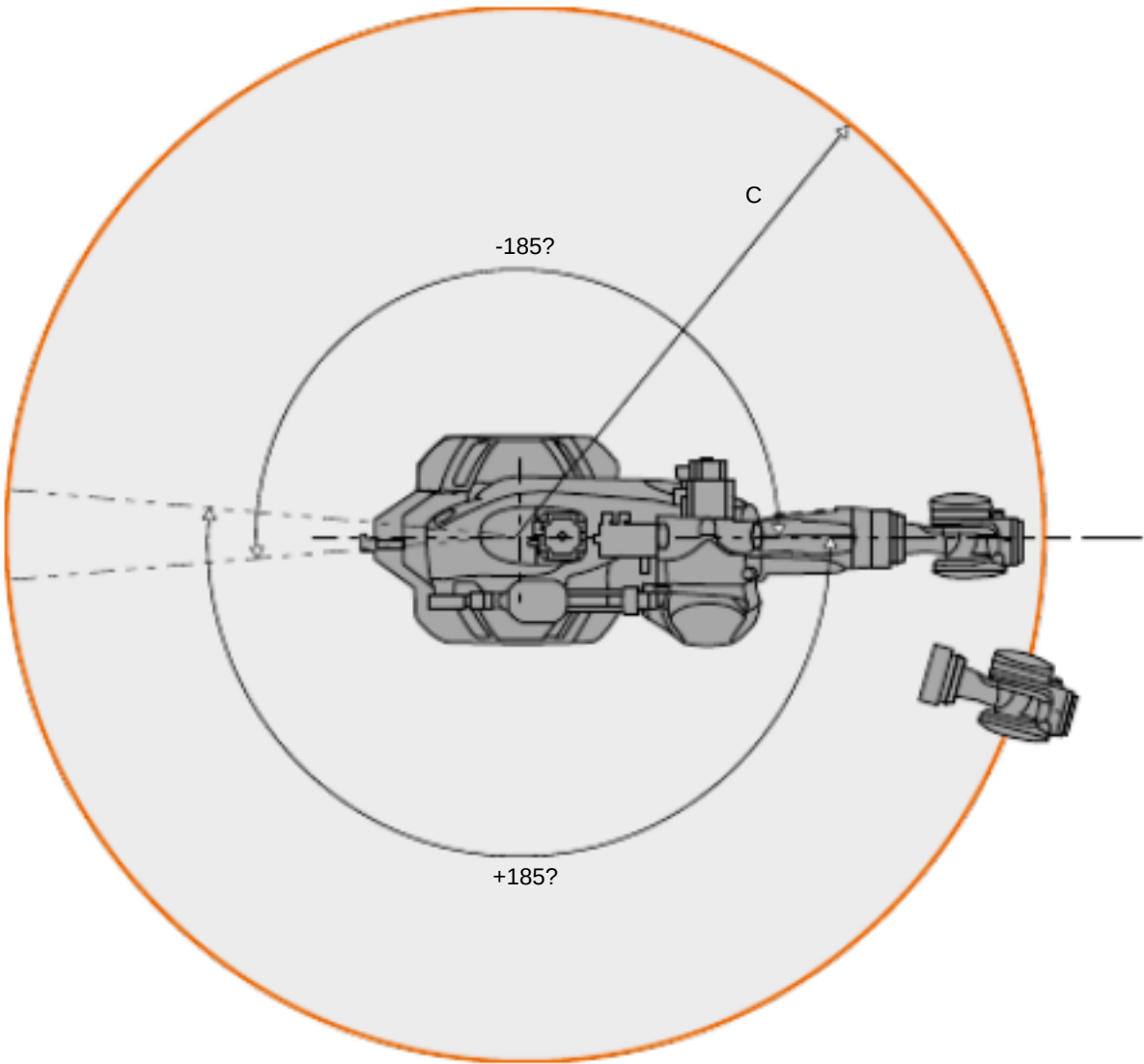
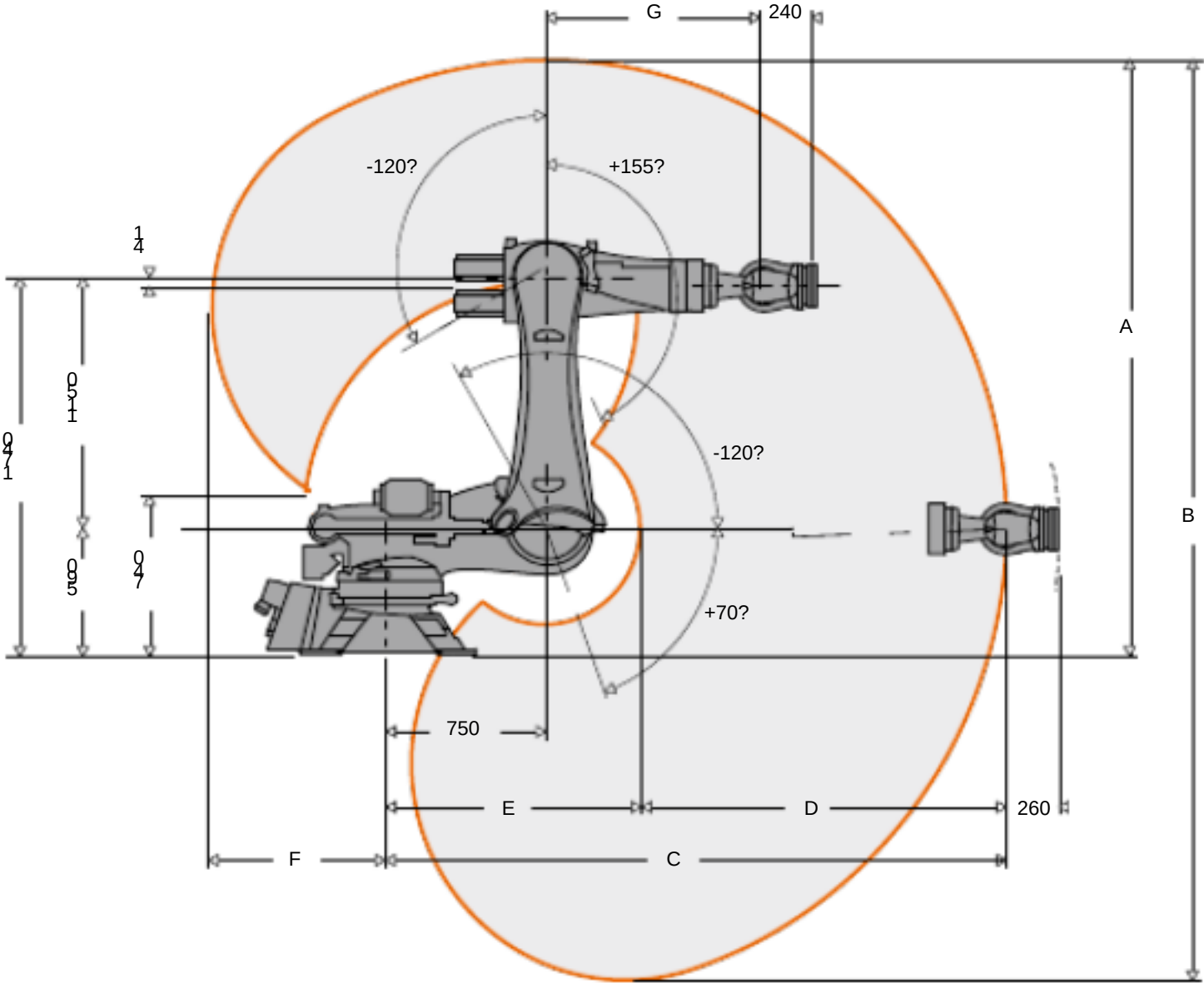
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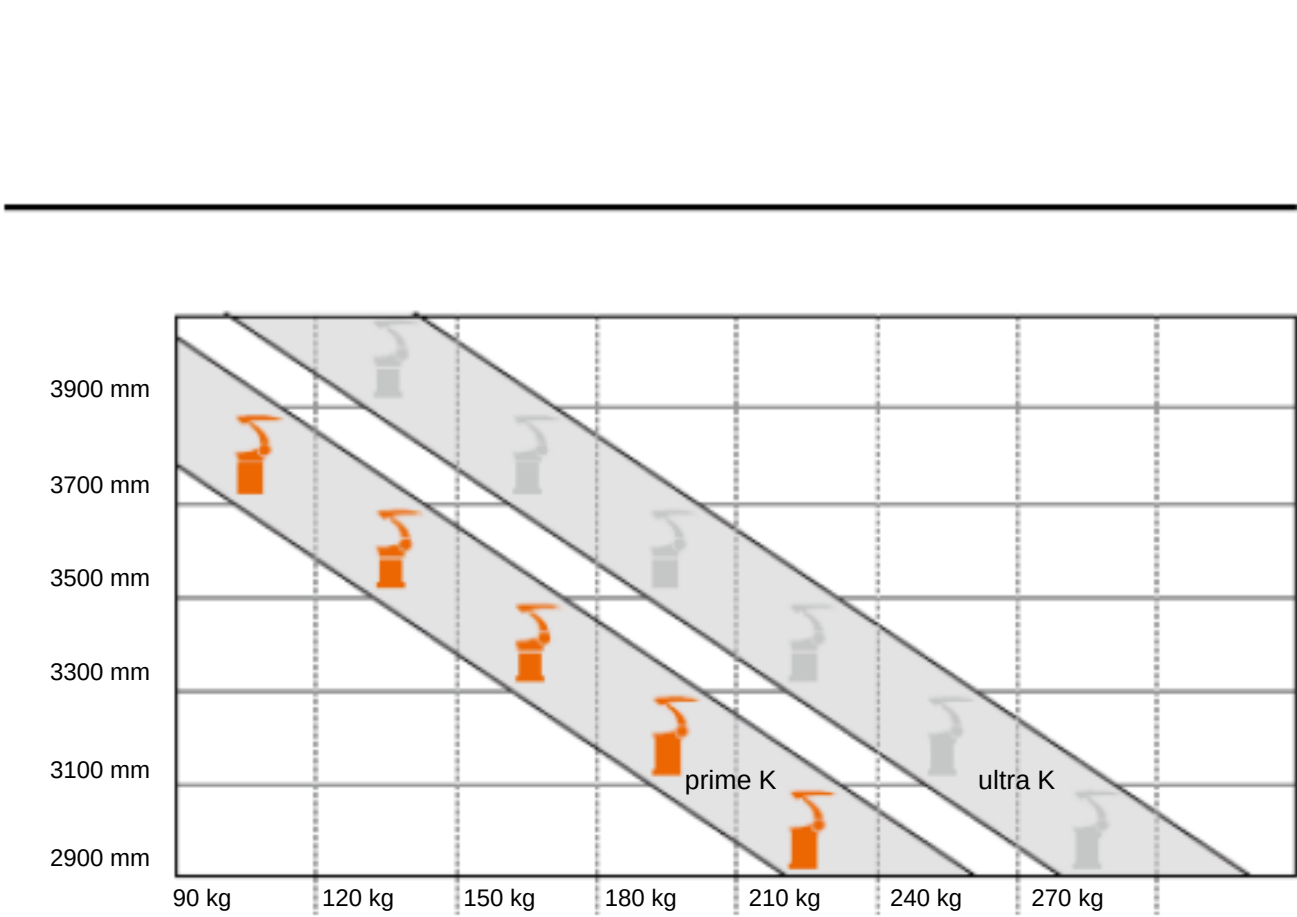
2
QUANTEC

KR

prime K

¹⁾	A	B	C	D	E	F	G	H	
KR 210 R2900 prime K	— 2741 mm	— 4232 mm	— 2901 mm	— 1704 mm	— 1197 mm	— 826 mm	— 1000 mm	— 1150 mm	— 77.90 m ³
KR 180 R3100 prime K	— 2941 mm	— 4632 mm	— 3101 mm	— 1879 mm	— 1222 mm	— 1027 mm	— 1200 mm	— 1150 mm	— 97.80 m ³
KR 150 R3300 prime K	— 3141 mm	— 5020 mm	— 3301 mm	— 2021 mm	— 1280 mm	— 1126 mm	— 1200 mm	— 1350 mm	— 120.62 m ³
KR 120 R3500 prime K	— 3341 mm	— 5420 mm	— 3501 mm	— 2193 mm	— 1308 mm	— 1326 mm	— 1400 mm	— 1350 mm	— 146.73 m ³
KR 90 R3700 prime K	— 3541 mm	— 5820 mm	— 3701 mm	— 2301 mm	— 1400 mm	— 1526 mm	— 1600 mm	— 1350 mm	— 175.26 m ³





KR 210 R2900 prime K

KR 180 R3100 prime K

KR 150 R3300 prime K

KR 120 R3500 prime K

KR 90 R3700 prime K

			2901 mm	3101 mm	3301 mm	3501 mm	3701 mm		
			210 kg	180 kg	150 kg	120 kg	90 kg		
3/	2/	1	50 kg/ - / -	50 kg/ - / -	50 kg/ - / -	50 kg/ - / -	50 kg/ - / -		
			260 kg	230 kg	200 kg	170 kg	140 kg		
			± 0.06 mm	± 0.06 mm	± 0.06 mm	± 0.06 mm	± 0.06 mm		
			6	6	6	6	6		
			830 mm x 830 mm	830 mm x 830 mm	830 mm x 830 mm	830 mm x 830 mm	830 mm x 830 mm		
			1180 kg	1168 kg	1184 kg	1192 kg	1204 kg		
			210 kg	180 kg	150 kg	120 kg	90 kg		
1 (A1)	+/-185 °		105 ° /s	105 ° /s	105 ° /s	105 ° /s	105 ° /s		
2 (A2)	+70 ° /-120 °		107 ° /s	107 ° /s	107 ° /s	107 ° /s	107 ° /s		
3 (A3)	+155 ° /-120 °		114 ° /s	114 ° /s	114 ° /s	114 ° /s	114 ° /s		
4 (A4)	+/-350 °		136 ° /s	179 ° /s	179 ° /s	292 ° /s	292 ° /s		
5 (A5)	+125 ° /-122.5 °		129 ° /s	172 ° /s	172 ° /s	258 ° /s	258 ° /s		
6 (A6)	+/-350 °		206 ° /s	219 ° /s	219 ° /s	284 ° /s	284 ° /s		

+10 ° C +55 ° C

IP 65

IP 65

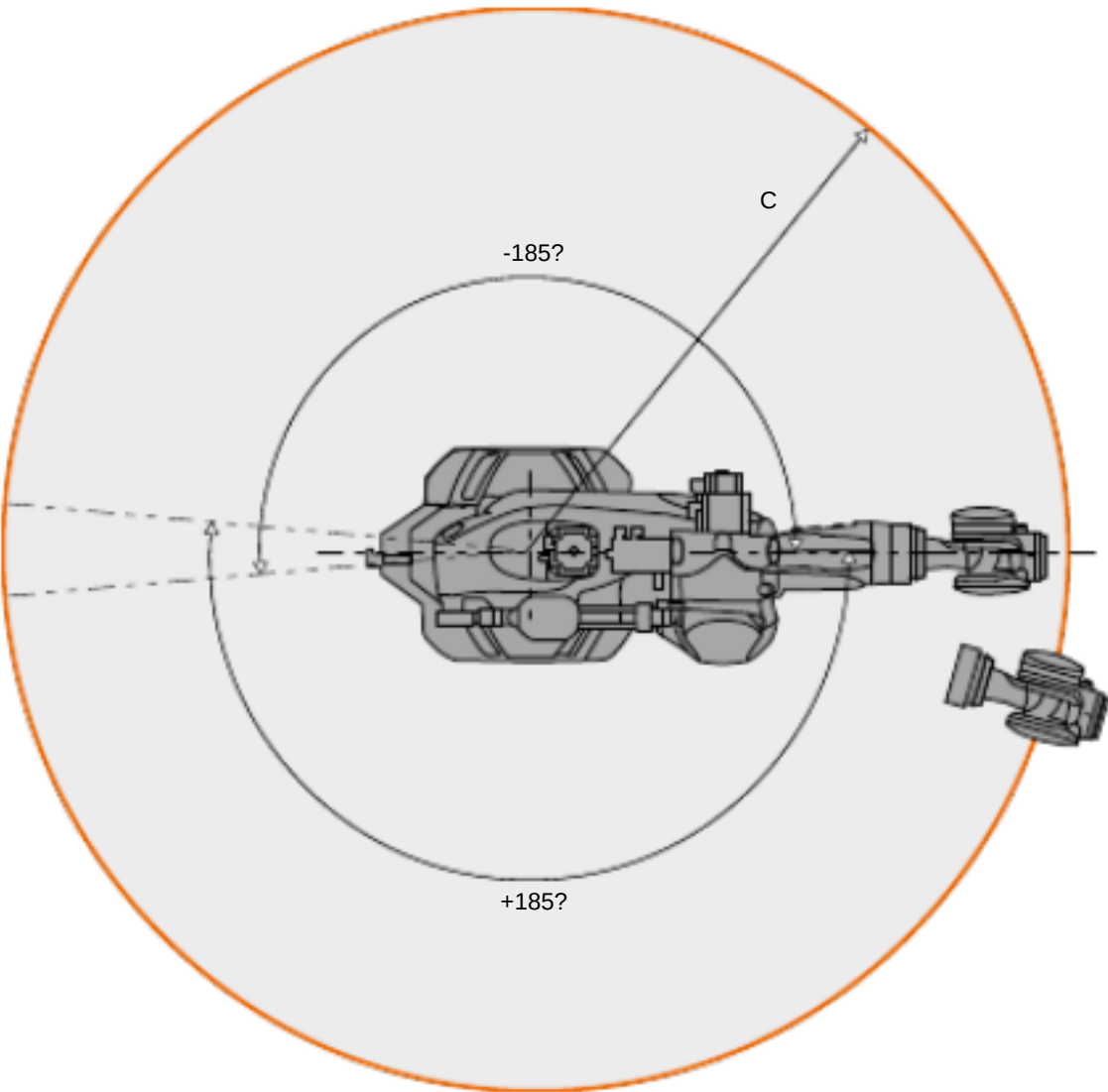
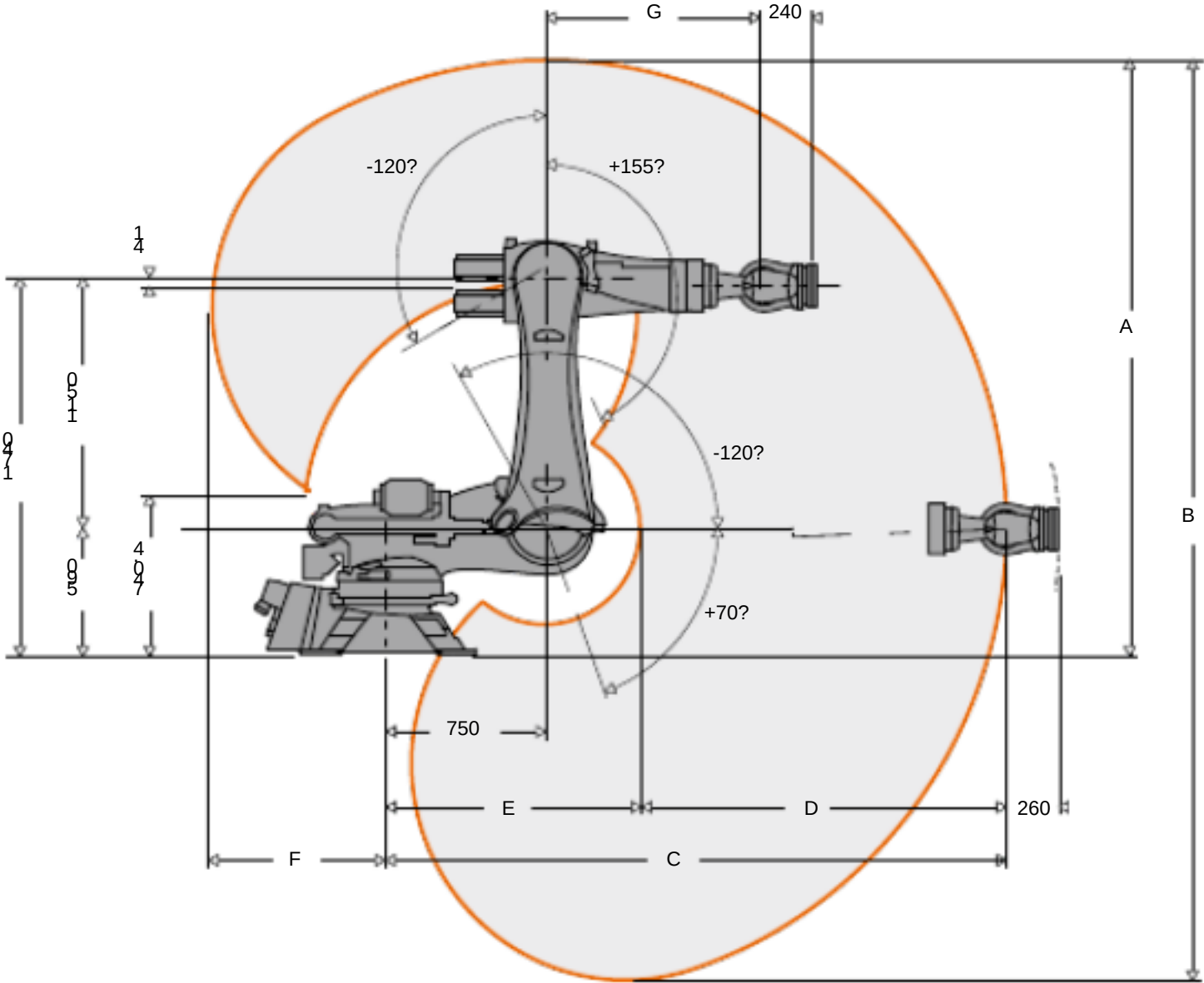
KR C4

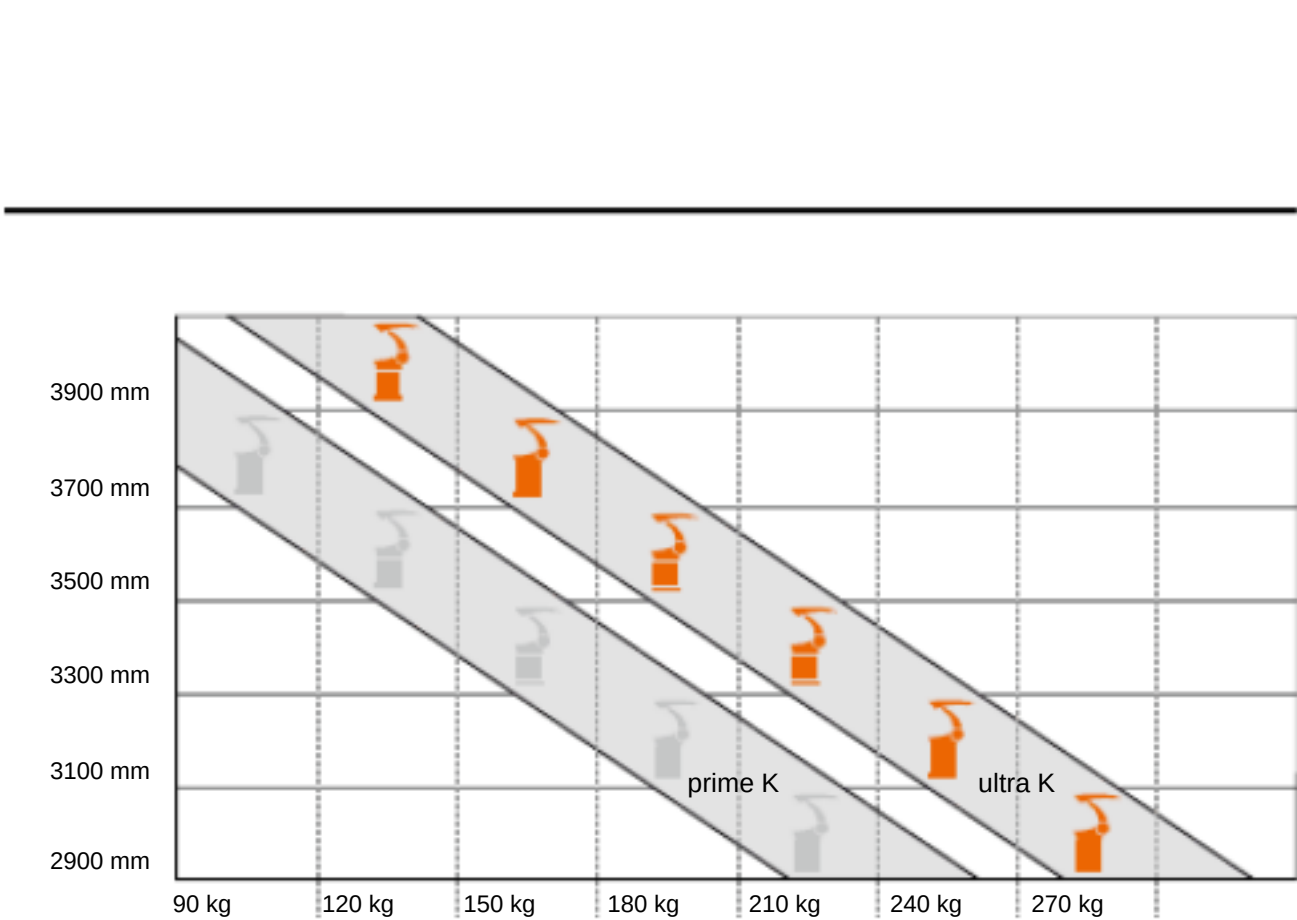
smartPAD

Ultra K

1)

	A	B	C	D	E	F	G	H	
KR 270 R2900 ultra K	2741 mm	4232 mm	2901 mm	1704 mm	1197 mm	826 mm	1000 mm	1150 mm	77.90 m ³
KR 240 R3100 ultra K	2941 mm	4632 mm	3101 mm	1879 mm	1222 mm	1026 mm	1200 mm	1150 mm	97.80 m ³
KR 210 R3300 ultra K	3141 mm	5020 mm	3301 mm	2021 mm	1280 mm	1126 mm	1200 mm	1350 mm	120.62 m ³
KR 180 R3500 ultra K	3341 mm	5420 mm	3501 mm	2192 mm	1380 mm	1326 mm	1400 mm	1350 mm	146.73 m ³
KR 150 R3700 ultra K	3541 mm	5820 mm	3701 mm	2301 mm	1400 mm	1526 mm	1600 mm	1350 mm	175.26 m ³
KR 120 R3900 ultra K	3740 mm	6220 mm	3901 mm	2368 mm	1533 mm	1725 mm	1800 mm	1350 mm	206.72 m ³





	KR 270 R2900 ultra K	KR 240 R3100 ultra K	KR 210 R3300 ultra K	KR 180 R3500 ultra K	KR 150 R3700 ultra K	KR 120 R3900 ultra K
--	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------

		2901 mm	3301 mm	3301 mm	3501 mm	3701 mm	3901 mm	
		270 kg	240 kg	210 kg	180 kg	150 kg	120 kg	
3/	2/ 1	50 kg/ - / -	50 kg/ - / -	50 kg/ - / -	50 kg/ - / -	50 kg/ - / -	50 kg/ - / -	
		320 kg	290 kg	260 kg	230 kg	200 kg	170 kg	
		± 0.06 mm	± 0.06 mm	± 0.06 mm	± 0.06 mm	± 0.06 mm	± 0.06 mm	
		6	6	6	6	6	6	
								
		830 mm x 830 mm	830 mm x 830 mm	830 mm x 830 mm	830 mm x 830 mm	830 mm x 830 mm	830 mm x 830 mm	
		1189 kg	1198 kg	1214 kg	1201 kg	1215 kg	1221 kg	
		/	270 kg	240 kg	210 kg	180 kg	150 kg	120 kg

1 (A1)	+/-185 °	105 ° /s	105 ° /s	105 ° /s	105 ° /s	105 ° /s	105 ° /s
2 (A2)	 +70 ° /-120 °	101 ° /s	101 ° /s	101 ° /s	101 ° /s	101 ° /s	101 ° /s
3 (A3)	 +155 ° /-120 °	107 ° /s	107 ° /s	107 ° /s	107 ° /s	107 ° /s	107 ° /s
4 (A4)	+/-350 °	122 ° /s	136 ° /s	136 ° /s	179 ° /s	179 ° /s	292 ° /s
5 (A5)	 +125 ° /-122.5 °	113 ° /s	129 ° /s	129 ° /s	172 ° /s	172 ° /s	258 ° /s
6 (A6)	+/-350 °	175 ° /s	206 ° /s	206 ° /s	219 ° /s	219 ° /s	284 ° /s

+10 ° C +55 ° C

IP 65
IP 65
IP 65 / IP 67



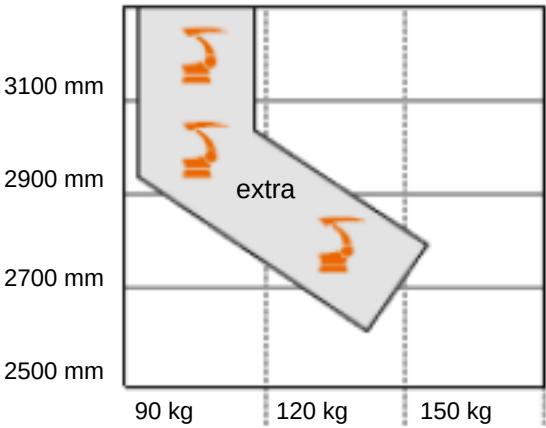


KR 90 R2900 extra HA, KR 90 R3100 extra HA
KR 120 R2700 extra HA
KR C4
smartPAD





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± 0.05

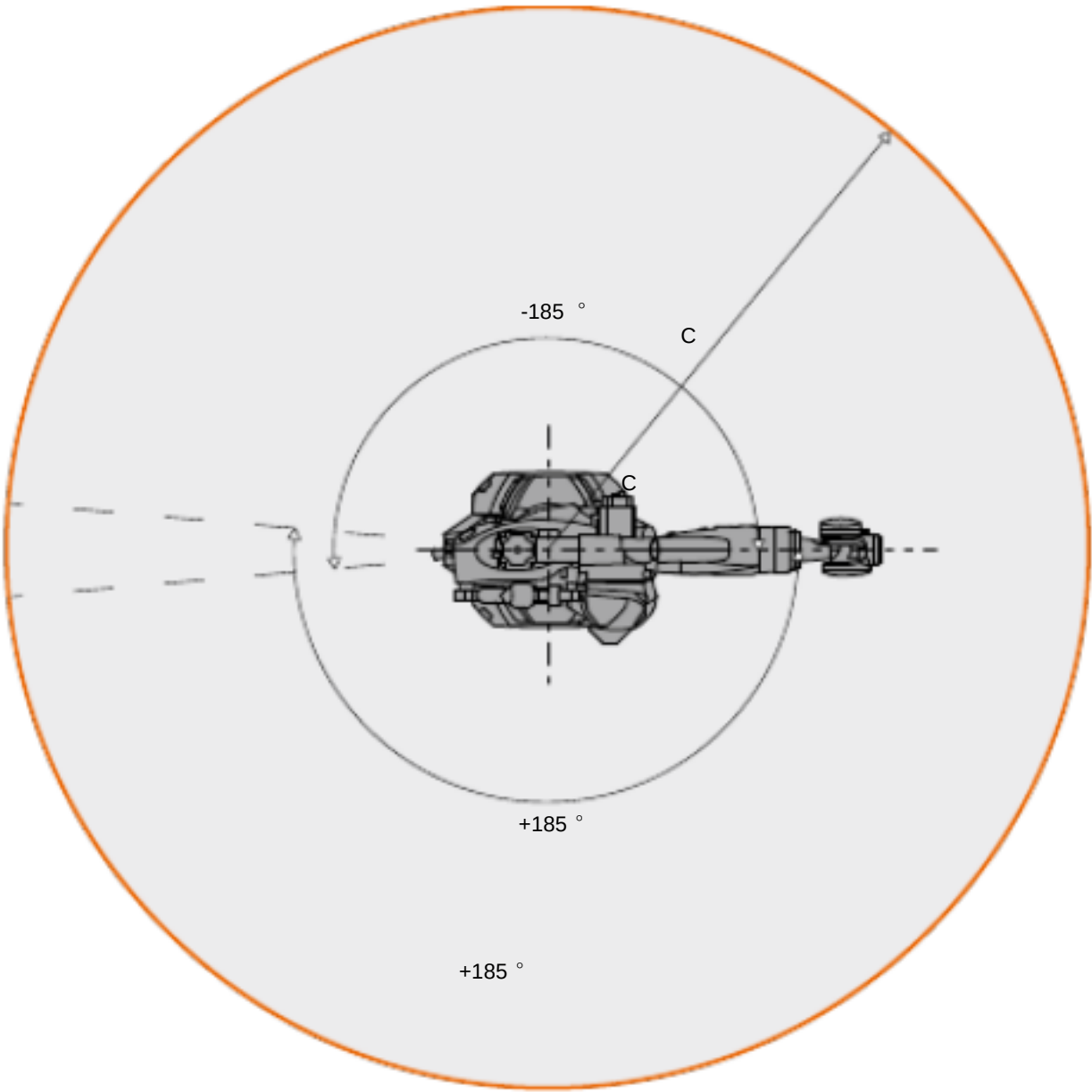
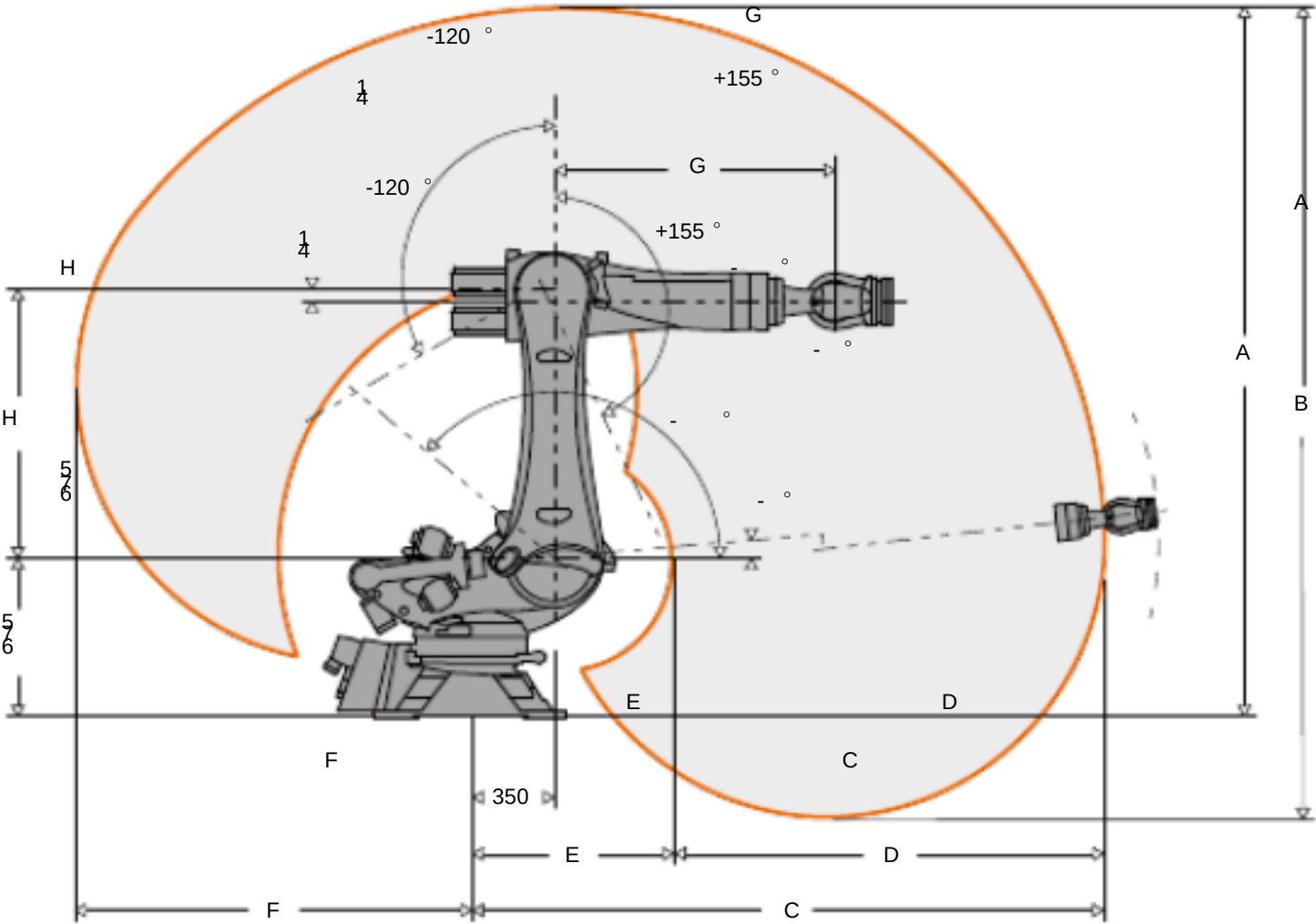
20000

. %

HA

¹⁾	A	B	C	D	E	F	G	H	
KR 120 R2700 extra HA	3026 mm	3451 mm	2696 mm	1874 mm	822 mm	1732 mm	1200 mm	1150 mm	55 m ³
KR 90 R2900 extra HA	3226 mm	3634 mm	2896 mm	2016 mm	880 mm	1885 mm	1200 mm	1350 mm	66 m ³
KR 90 R3100 extra HA	3426 mm	4034 mm	3095 mm	2187 mm	908 mm	2085 mm	1400 mm	1350 mm	84 m ³

675



(FEM)



		KR 120 R2700 extra HA		KR 90 R2900 extra HA		KR 90 R3100 extra HA	
		2696 mm		2896 mm		3095 mm	
		120 kg		90 kg		90 kg	
3/	2/ 1	50 kg/ – / –		50 kg/ – / –		50 kg/ – / –	
		170 kg		140 kg		140 kg	
		± 0.05 mm		± 0.05 mm		± 0.05 mm	
		6		6		6	
		830 mm x 830 mm		830 mm x 830 mm		830 mm x 830 mm	
		1104 kg		1121 kg		1129 kg	
		/ 300 kg		270 kg		240 kg	
1 (A1)		+/-185 °		105 ° /s		105 ° /s	
2 (A2)		-140 ° /-5 °		101 ° /s		101 ° /s	
3 (A3)		-120 ° /+155 °		107 ° /s		107 ° /s	
4 (A4)		+/-350 °		192 ° /s		192 ° /s	
5 (A5)		+/-125 °		258 ° /s		258 ° /s	
6 (A6)		+/-350 °		284 ° /s		284 ° /s	

+10 ° C +55 ° C

IP 65
IP 65



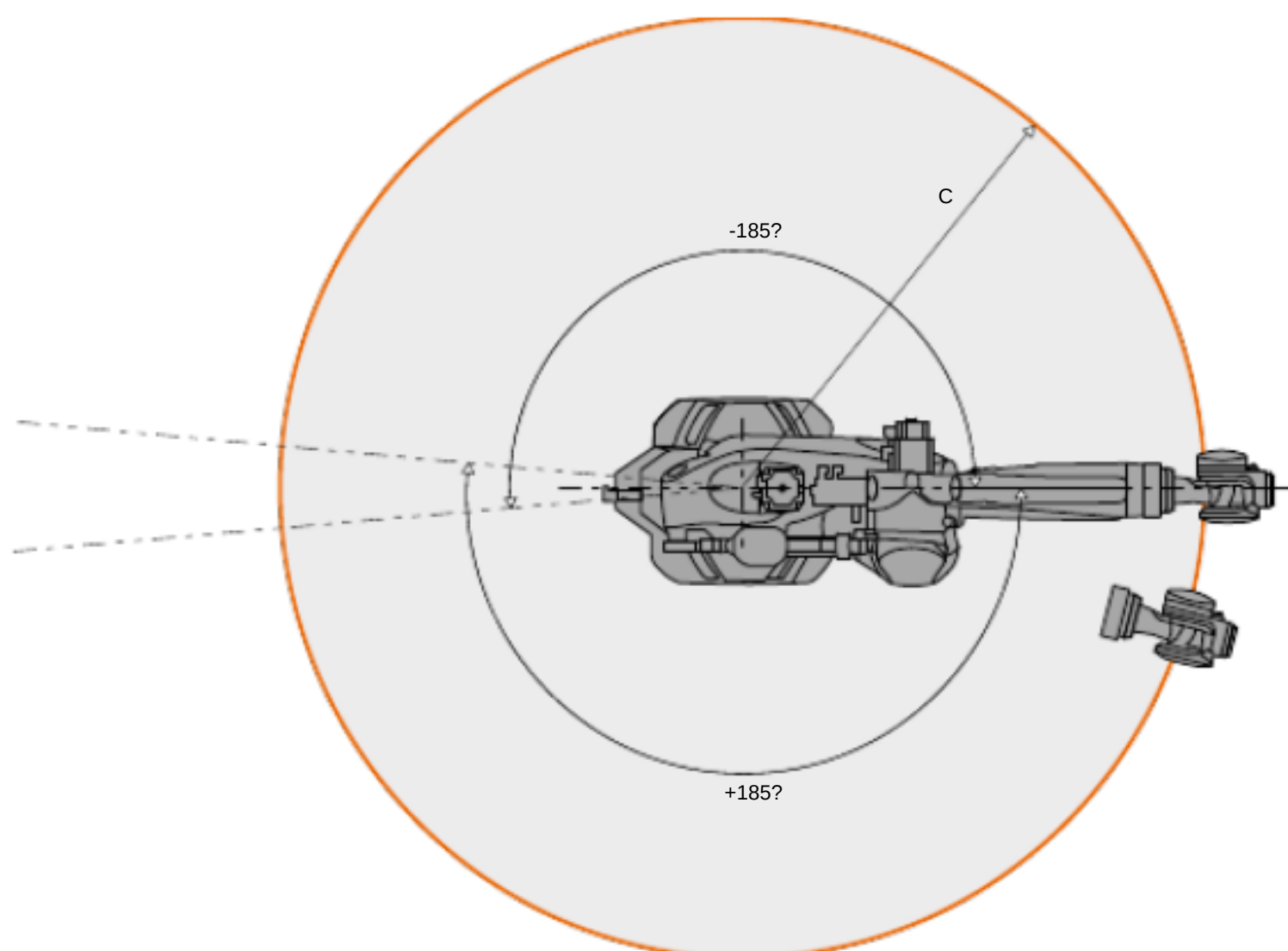
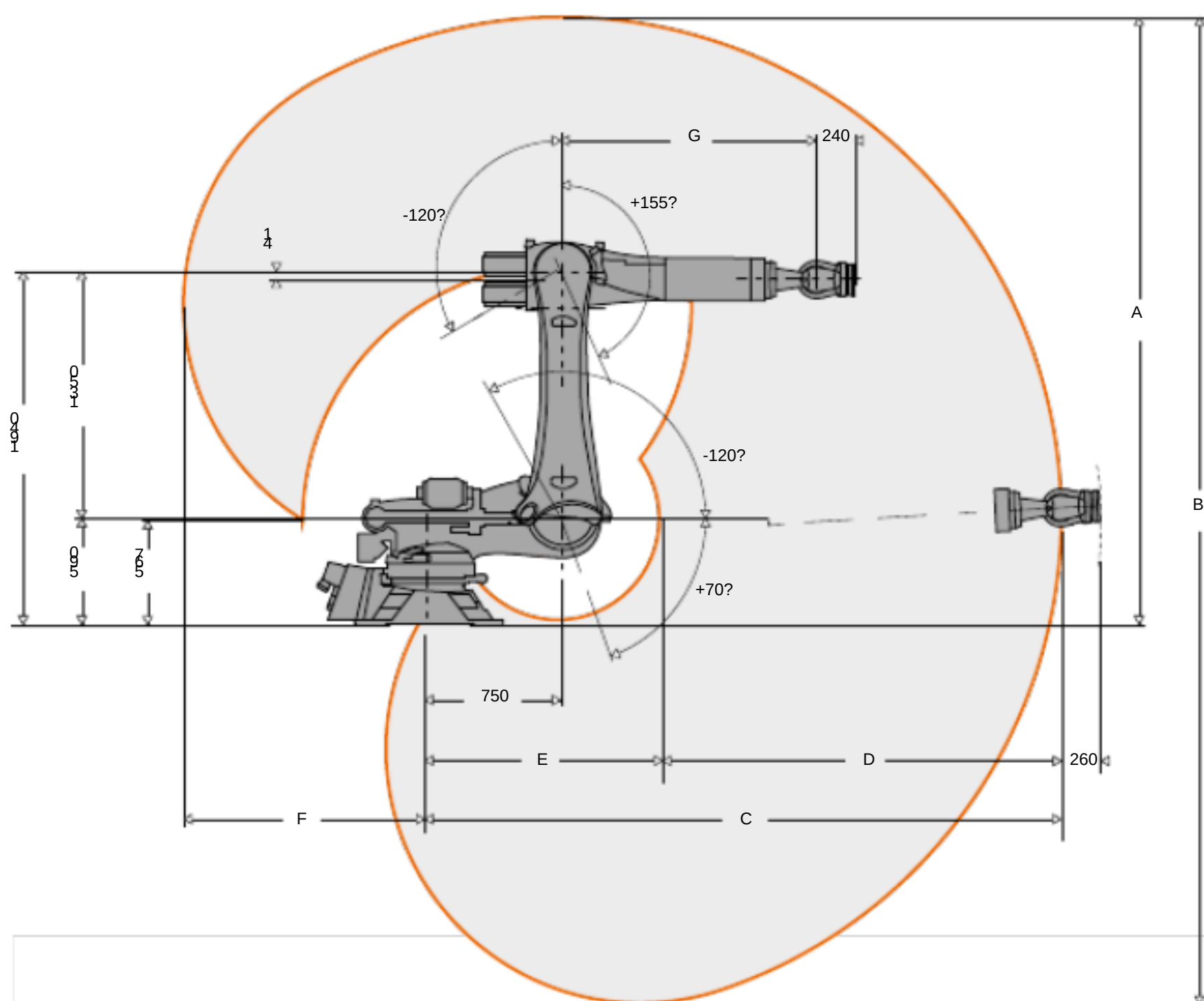
KR C4



smartPAD

ess

1)	A	B	C	D	E	F	G	H
KR 120 R3500 press —	3341 mm —	5420 mm —	3501 mm —	2192 mm —	1308 mm —	1326 mm —	1400 mm —	1350 mm — 146.73 m ³
KR 100 R3500 press —	3341 mm —	5420 mm —	3501 mm —	2192 mm —	1308 mm —	1326 mm —	1400mm —	1350 mm — 146.73 m ³



KR QUANTEC press

KR QUANTEC press

±0.06

KR QUANTEC press



KR 120 R3500 press

KR 100 R3500 press

3501 mm

3501 mm

120 kg

100 kg

3/

2/

1

50 kg/ - / -

50 kg/ - / -

170 kg

150 kg

±0.06 mm

±0.06 mm

6

6

-

-

830 mm x 830 mm

830 mm x 830 mm

1240 kg

1240 kg

/

120 kg

100 kg

1 (A1)

±185 °

136 ° /s

136 ° /s

2 (A2)

+70 ° /-120 °

137 ° /s

137 ° /s

3 (A3)

+155 ° /-120 °

114 ° /s

114 ° /s

4 (A4)

+/-350 °

136 ° /s

136 ° /s

5 (A5)

+/-122, 5 °

129 ° /s

129 ° /s

6 (A6)

+/-350 °

206 ° /s

206 ° /s

+10 ° C +55 ° C

IP 65

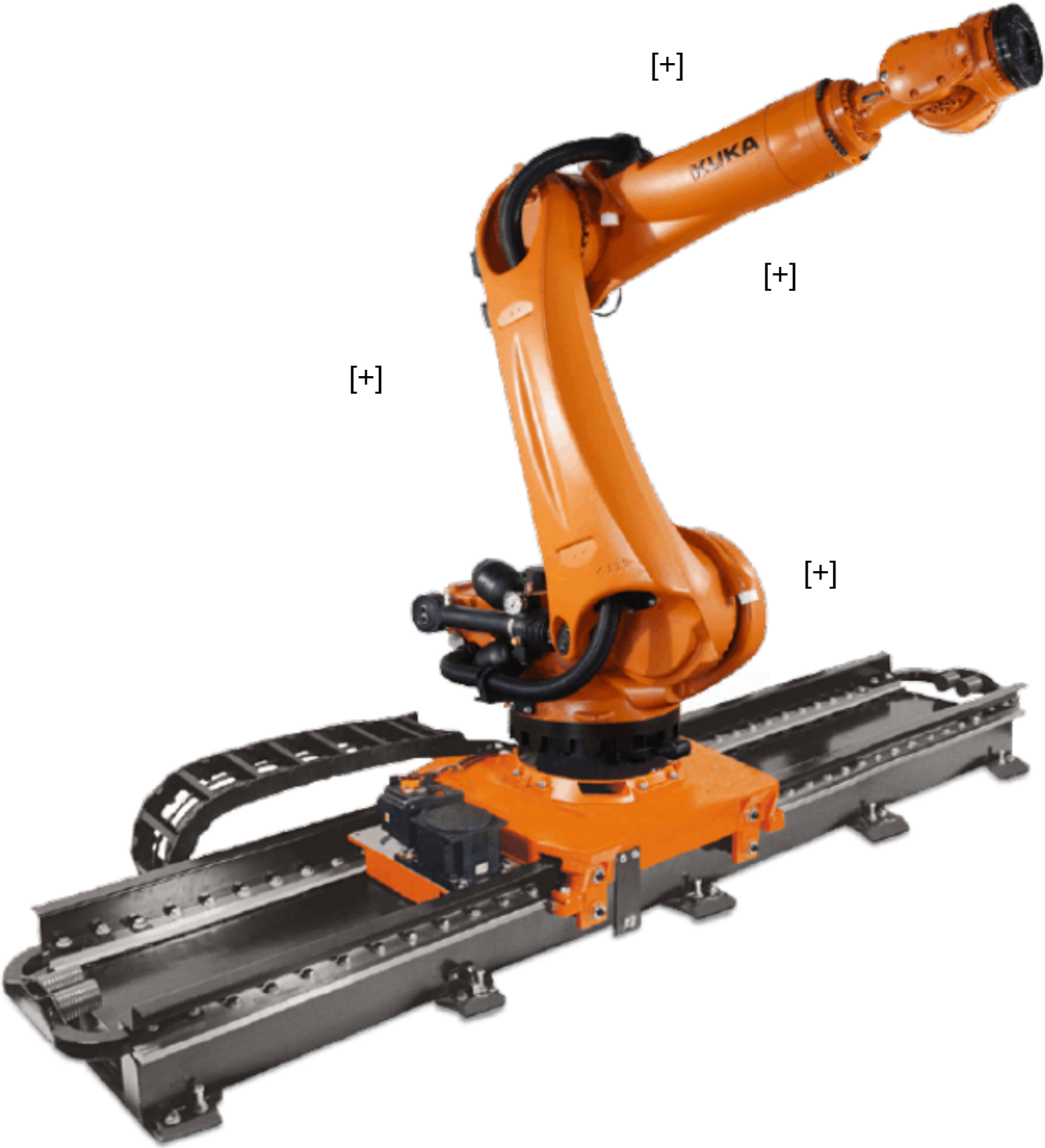
KR C4

smartPAD



KL 1500-3 KL 1500-3 S KL 1500-3 T

KR C4
smartPAD





	KL 1500-3 T	KL 1500-3 S	KL 1500-3
	4	4	4
	30000 mm	30000 mm	30000 mm
	1.89 m/s	2.35 m/s	1.45 m/s
	< ± 0.02 mm	< ± 0.02 mm	< ± 0.02 mm
	1	1	1
	440 kg	440 kg	440 kg
	3800 kg	3800 kg	2000 kg
	345 kg	345 kg	345 kg
	1000 mm	1000 mm	1000 mm
	500 mm	500 mm	500 mm

+10 ° C +55 ° C



KR C4



smartPAD



[+]



[+]



KR C4

KR C —

KR C4

KR C4

100 %

99.99%

[+]

[+]



smartPAD



smartPAD

LogicControl

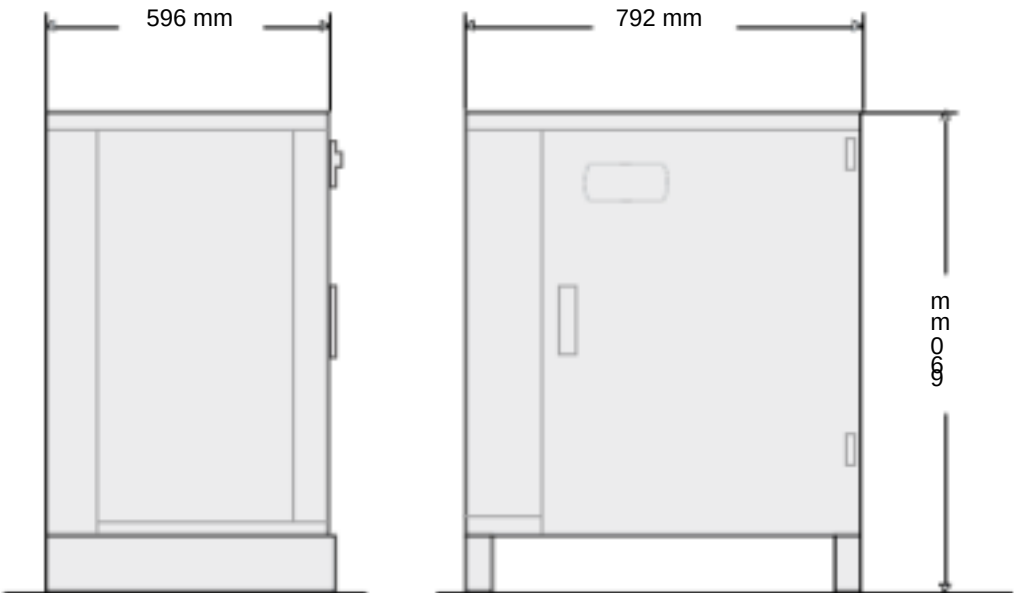




1

1

2 KR C4



2



KR C4

KR C4

— — KR C4

KR C4

KR C4

(G-Code) KRL KR C4
Siemens? PLC Rockwell?

_____ HDD SSD .
_____ USB
— (PROFINET) /IP PROFIBUS (DeviceNet) EtherCAT (InterBus)
_____ 8
_____ IP 54
x x _____ 596 mm x 792 mm x 960 mm
_____ 150 kg

_____ AC 3 x 400 - 480 V
_____ -10 +10 %
_____ 49 61 Hz
_____ 3 x 25 A 3 x 32 A .

_____ +5 ° C +45 ° C
_____ +55 ° C

± . EK I/O

95%



smartPAD –

smartPAD





2

1

2

6

1

					smartPAD
					smartPAD
					8.4"
					80 mm x 330 mm x 260 mm
					1100 g

KR C4

smartPAD

8.4"

1.1

HOTPLUG

USB

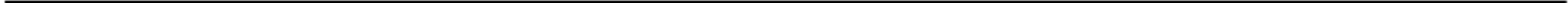
USB

smartPAD
KR C4

smartPAD



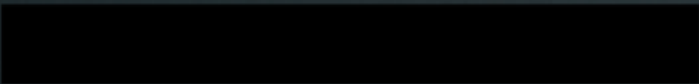
KR C4



KUKA.WorkVisual			
KUKA.Load			
KUKA.UserTech			
KUKA.ExpertTech	KRL		
KUKA.HMI Zenon		smartPAD	
KUKA.RemoteView			
KUKA.VirtualRemotePendant		smartPAD	
KUKA.RobotSensorInterface		KR C4	
KUKA.VisionTech	“ onBoard ”		
KUKA.ConveyorTech			
KUKA.ForceTorqueControl			
KUKA.SafeOperation			
KUKA.SafeRangeMonitoring			



KUKA.Sim



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