

Simplified Product Names

To make it easier to identify our products we have simplified our product range names.

Below you can see the new machine names and a list of the different names it has been called since its invention.

New Names	DISAMATIC D1	DISAMATIC D3-A	DISAMATIC D3-B
Old Names	2110 Mk4	DISA 231-A	DISA 231-B
	2110 Mk3	DISA 230-A	DISA 131-B
	2110 Mk2	DISA 131-A	DISA 130-B
	2110 Mk1	DISA 130-A	DISA 230-B
	2011	2013 Mk5-A	2013 Mk5-B
		2013 Mk4-A	2013 Mk4-B
		2013 Mk3	
		2013 Mk2	
	2013 Mk1		

	DISAMATIC D3-X	DISAMATIC D5-B	DISAMATIC D5-C	DISAMATIC D5-Z
Old Names	DISA 231-X	DISAMATIC 2130-B	DISA 240-C	DISAMATIC 2120-C
	DISA 230-X	DISAMATIC 2120-B		DISAMATIC 2130-C
	2013 Mk5-X	DISAMATIC 2032		DISA 250-C
		DISA 240-B		2070 MK2-S

	DISA 270-A	DISA 270-B	MATCH 20/24
Old Names	2070 Mk2-A	2070 Mk2-B	MATCH 130
	2070 Mk1-A	2070 Mk1-B	

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General Specifications Metric

DISA Vertical
DISA Matchplate
DISA Flasklines
DISA Sand Mixers
DISA Cooling Drums

DISA Industries A/S

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DISA
A Norican Technology

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DISAMATIC C₃

Type:		A	B	X
Mould dimensions:				
Height	mm	480	535	535
Width	mm	600	650	750
Thickness	mm	120 - 340	120 - 340	120-395
Mismatch:	mm	0.25	0.25	0.25
DISAMATIC C₃-250:				
Uncored	mould/hr*	250	250	250
Cored	mould/hr*	220	220	220
Cooling time max	min*	90	90	91
Sand consumption max	tonnes/hr**	43	52	61
Power consumption	kW	67	67	77
Connected load	kVA	84	84	96
Compressed air consumption	Nm ³ /min	5.7	5.7	5.7
DISAMATIC C₃-350:				
Uncored	mould/hr*	350	350	350
Cored	mould/hr*	300	300	300
Cooling time max	min*	62	62	62
Sand consumption max	tonnes/hr**	51	62	83
Power consumption	kW	67	67	77
Connected load	kVA	84	84	96
Compressed air consumption	Nm ³ /min	8	8	8
Conveyor length max:	m	66	66	66.5
Cooling water (DMS)#:	litres/min	23	23	23
Pressure:				
Squeeze pressure	kp/cm ²	1 - 12	1 - 12	1 - 12
Shot pressure	bar	0 - 4	0 - 4	0 - 4
Compressed air pressure min.:	bar	5,5	5,5	5,5
Hydraulic fluid (DMS):	liters	900	900	900
Machine dimensions (DMM):				
Height	mm	3800	3800	4000
Width	mm	2500	2500	2600
Length	mm	6350	6350	6500
Height without CSE	mm	3800	3800	4000
Width without CSE	mm	1600	1600	1700
Length without CSE	mm	6350	6350	6500
Net weight:	tonnes	18	18	20

At 15 °C inlet temp.

DISAMATIC D₁

Type:		A
Mould dimensions:		
Height	mm	400
Width	mm	500
Thickness	mm	100-315
Mismatch:	mm	0.2
DISAMATIC D₁-205:		
Uncored	mould/hr*	205
Cored	mould/hr*	185
Cooling time max	min*	86
Sand consumption max	tonnes/hr**	18
Power consumption	kW	67
Connected load	kVA	84
Compressed air consumption	Nm ³ /min	3.2
DISAMATIC D₁-315:		
Uncored	mould/hr*	315
Cored	mould/hr*	285
Cooling time max	min*	47
Sand consumption max	tonnes/hr**	28
Power consumption	kW	67
Connected load	kVA	84
Compressed air consumption	Nm ³ /min	4.3
Conveyor length max:	m	50
Cooling water (DMS)#:	litres/min	15
Pressure:		
Squeeze pressure	kp/cm ²	1.5 - 12.5
Shot pressure	bar	0 - 5.5
Compressed air pressure min.:	bar	5,5
Hydraulic fluid (DMM):	litres	550
Machine dimensions (DMM):		
Height	mm	2880
Width	mm	1700
Length	mm	4140
Net weight:	tonnes	5.6

* At 200 mm mould thickness / ** At max mould thickness / # At 15 °C inlet temp.

DISAMATIC D3

Type:		A	B	C	X	Z
Mould dimensions:						
Height	mm	480	535	550	535	570
Width	mm	600	650	675	750	750
Thickness "rear sand slot"	mm	150-395	150-395	150-405	150-395	150-405
Thickness "Front sand slot"	mm	120-395	120-395	120-405	120-395	120-405
Mismatch:	mm	0,1	0,1	0,1	0,1	0,1
DISAMATIC D3-365:						
Uncored	mould/hour*	365	365	365	365	365
Cored	mould/hour*	333	333	333	333	333
Cooling time max	min*	77	77	77	77	77
Sand consumption max	tonnes/h**	62	75	82	89	95
Power consumption	kW	55	55	55	55	55
Connected load	kVA	69	69	69	69	69
Compressed air consumption	Nm ³ /min	7	7	7	7	7
DISAMATIC D3-425:						
Uncored	mould/hour*	425	425	425	425	425
Cored	mould/hour*	380	380	380	380	380
Cooling time max	min*	66	66	66	66	66
Sand consumption max	tonnes/h**	73	88	96	104	110
Power consumption	kW	55	55	55	55	55
Connected load	kVA	69	69	69	69	69
Compressed air consumption	Nm ³ /min	8	8	8	8	8
DISAMATIC D3-555:						
Uncored	mould/hour*	555	555	555	555	555
Cored	mould/hour*	485	485	485	465	465
Cooling time max	min*	49	49	49	49	49
Sand consumption max	tonnes/h**	95	114	125	135	144
Power consumption	kW	60	60	60	60	60
Connected load	kVA	75	75	75	75	75
Compressed air consumption	Nm ³ /min	11	11	11	11	11
Conveyor length max:	m	86,5	86,5	86,5	86,5	86,5
Cooling water (DMS)#:	litres/min	37	37	37	37	37
Pressure:						
Squeeze pressure	kp/cm ²	1,5-16	1,5-16	1,5-16	1,5-15	1,5-15
Shot pressure	bar	0-4	0-4	0-4	0-4	0-4
Compressed air pressure min.:	bar	5,5	5,5	5,5	5,5	5,5
Hydraulic fluid (DMM):	litres	575	575	575	575	575
Machine dimensions (DMM):						
Height	mm	3650	3650	3650	3650	3650
Width	mm	1465	1465	1465	1540	1540
Length	mm	7010	7010	7010	7010	7010
Net weight:	tonnes	21	21	21	21	21

* At 200 mm mould thickness / ** At max mould thickness / # At 15 °C inlet temp.

DISAMATIC D5

Type:		B	C	Z
Mould dimensions:				
Height	mm	600	600	650
Width	mm	775	850	850
Thickness	mm	150-500	150-500	150-500
Mismatch:	mm	0.15	0.15	0.15
DISAMATIC D5-355:				
Uncored	mould/hr*	355	355	355
Cored (manual)	mould/hr*	330	330	330
Cooling time max	min*	92	92	92
Sand consumption max	tonnes/hr**	103	113	122
Power consumption	kW	119.9	119.9	119.9
Connected load	kVA	149.9	149.9	149.9
Compressed air consumption	Nm ³ /min	16	16	16
DISAMATIC D5-415:				
Uncored	mould/hr*	415	415	415
Cored	mould/hr*	385	385	385
Cooling time max	min*	78	78	78
Sand consumption max	tonnes/hr**	113	124	135
Power consumption	kW	119.9	119.9	119.9
Connected load	kVA	149.9	149.9	149.9
Compressed air consumption	Nm ³ /min	18.5	18.5	18.5
DISAMATIC D5-450:				
Uncored	mould/hr*	450	450	450
Cored	mould/hr*	415	415	415
Cooling time max	min*	71	71	71
Sand consumption max	tonnes/hr**	126	138	149
Power consumption	kW	119.9	119.9	119.9
Connected load	kVA	149.9	149.9	149.9
Compressed air consumption	Nm ³ /min	20	20	20
Conveyor length max:	m	100	100	100
Cooling water (DMS)#:	litres/min	37	37	37
Pressure:				
Squeeze pressure	kp/cm ²	1,5-16	1,5-16	1,5-16
Shot pressure	bar	0-4	0-4	0-4
Compressed air pressure min.:	bar	5,5	5,5	5,5
Hydraulic fluid (DMM):	litres	1100	1100	1100
Machine Dimensions (DMM):				
Height	mm	3.875	3.875	3.875
Width	mm	1.920	1.920	1.920
Length	mm	8.150	8.150	8.150
Net Weight:	tonnes	30	30	30

* At 200 mm mould thickness / ** At max mould thickness / # At 15 °C inlet temp.

DISA 270

Type:		A	B	C
Mould dimensions:				
Height	mm	700	800	800
Width	mm	950	950	1000
Thickness	mm	200-650	200-650	200-650
Mismatch:	mm	0.2	0.2	0.2
DISA 270-280:				
Uncored	mould/hr*	280	280	280
Cored	mould/hr*	250	250	250
Cooling time max	min*	144	144	144
Sand consumption max	tonnes/hr**	117	133	140
Power consumption	kW	110	110	110
Connected load	kVA	138	138	138
Compressed air consumption	Nm ³ /min	23	25	26
DISA 270-400:				
Uncored	mould/hr*	400	390	390
Cored	mould/hr*	375	365	365
Cooling time max	min*	97	100	100
Sand consumption max	tonnes/hr**	190	211	222
Power consumption	kW	110	110	110
Connected load	kVA	138	138	138
Compressed air consumption	Nm ³ /min	23	25	26
Conveyor length max:	m	120	120	120
Cooling water consumption (DMS)#:	litres/min	37	37	37
Pressure:				
Squeeze pressure	kp/cm ²	1.5 - 16	1.5 - 16	1.5 - 16
Shot pressure	bar	0 - 5	0 - 5	0 - 5
Compressed air pressure min.:	bar	5,5	5,5	5,5
Hydraulic fluid (DMM):	litres	850	850	850
Machine dimensions (DMM):				
Height	mm	4265	4400	4400
Width	mm	1860	1860	2010
Length	mm	9800	9800	9800
Net weight:	tonnes	40	41	45

* At 200 mm mould thickness / ** At max mould thickness / # At 15 °C inlet temp.

DISA 280

Type:		B	C
Mould dimensions:			
Height	mm	850	1050
Width	mm	1200	1200
Thickness	mm	250-675	250-675
Mismatch:	mm	0.4	0.4
DISA 280-210:			
Uncored	mould/hr*	210	210
Cored	mould/hr*	195	195
Cooling time max	min*	160	160
Sand consumption max	tonnes/hr**	157	194
Power consumption	kW	125	125
Connected load	kVA	156	156
Compressed air consumption	Nm ³ /min	49.5	51.9
DISA 280-300:			
Uncored	mould/hr*	300	300
Cored	mould/hr*	280	280
Cooling time max	min*	107	107
Sand consumption max	tonnes/hr**	253	313
Power consumption	kW	125	125
Connected load	kVA	156	156
Compressed air consumption	Nm ³ /min	49.5	51.9
Conveyor length max:	m	120	120
Cooling water consumption (DMS)#:	litres/min	56	56
Pressure:			
Squeeze pressure	kp/cm ²	1.5 - 14.3	1.5 - 14.3
Shot pressure	bar	0 - 5	0-5
Compressed air requirements:			
Air pressure min	bar	5.5	5.5
Hydraulic fluid (DMM):	litres	1100	1100
Machine dimensions (DMM):			
Height	mm	4650	5160
Width	mm	2110	2110
Length	mm	9800	9800
Net weight:	tonnes	52	53

* At 250 mm mould thickness / ** At max mould thickness / # At 15 °C inlet temp.

DISA FLEX

Type:		FLEX 70HS	FLEX 80	FLEX 90
Mould dimensions:				
Height	mm	200/250/300/ 325/350*	200/250/300/ 325/350	250/300/350/ 400/450*
Width	mm	700	800	1000
Length	mm	800/900/1000	900/1000/1100	1000/1200/1300
Mismatch, max	mm	0.25	0.25	0.25
Machine capacity:				
Uncored	mould/hr**	120	110	100
Sand consumption max	tonnes/hr**	71	77	106
Average power consumption (approx)	kW	87	97	90
Connected load	kVA	109	121	113
Compressed air consumption	Nm ³ /min	12	11	17
Cooling water (DMM):				
at 15 °C inlet temp. and 4 bar pressure	litres/min	35	35	40
Pressure:				
Squeeze pressure	bar	1.5-10	1.5-10	1.5-10
Shot pressure	bar	0-5	0-5	0-5
Compressed air requirements:				
Air pressure min	bar	5	5	5
Hydraulic fluid (DMM):				
	litres	1000	1000	1000
Machine dimensions (DMM):				
Height (upto batch hopper)	mm**	4700	4500	5500
Width	mm**	3000	3200	4000
Length	mm**	4300	4300	5500
Net weight:				
	tonnes**	25	25	35

* Max height available for 800x700 mm, 1000x1000 mm and 1200x1000 mm / ** At 800x700x300 mm, 1000x800x250 mm and 1000x1000x300 mm. Speed, sand consumption and weight varies with flask size.

DISA MATCH

Type:		14/19	16/20	20/24
Mould dimensions:				
Length	mm	483	508	610
Width	mm	356	406	508
Height, min-max of drag	mm	150-200	150-200	150-200
Height, min-max of cope	mm	150-200	150-200	150-200
Mismatch, max:	mm	0.2	0.2	0.2
DISAMATCH 150				
Uncored	moulds/hr*	180	180	180
Automatically cored	moulds/hr*	145	145	145
Sand consumption max	tonnes/hr**	18	22	33
Average power consumption	kW	30	30	30
Connected load	kVA	67	67	67
Compressed air consumption	Nm ³ /min	6	6	6
DISAMATCH 210				
Uncored	moulds/hr*	210	210	210
Automatically cored	moulds/hr*	160	160	160
Sand consumption max	tonnes/hr**	12	26	39
Average power consumption	kW	30	30	30
Connected load	kVA	38	38	38
Compressed air consumption	Nm ³ /min	7	7	7
Cooling water consumption (DMM)#:	litres/min.	17	17	17
Pressure:				
Squeeze pressure	bar	3 - 10	3 - 10	3 - 10
Shot pressure	bar	0 - 4.5	0 - 4.5	0 - 4.5
Compressed air requirements:				
Air pressure min	bar	5.5	5.5	5.5
Hydraulic fluid:				
	litres	370	370	370
Machine dimensions***:				
Length, DMM	mm	3965	3965	3965
Length, DMM + CSE	mm	4400	4400	4400
Width	mm	1850	1850	1850
Height, top of sand inlet	mm	3910	3910	3910
Height, top of machine frame	mm	2455	2455	2455
Height, mould bottom push out	mm	560	560	560
Net weight:				
	tonnes	10.5	10.5	10.5

* At 200 mm mould thickness / ** At max mould thickness / *** Please refer to DSQ and machine layout for drawings / # At 15 °C inlet temp.

DISA MATCH

Type:		24/28
Mould dimensions:		
Lenght	mm	711
Width	mm	610
Height, min-max of drag	mm	180-255
Height, min-max of cope	mm	180-255
Mismatch, max:	mm	0.2
DISAMATCH 120:		
Uncored	mould/hour*	120
Automatically cored	mould/hour*	100
Sand consumption max.	tonnes/h**	40
Average power consumption	kW	50
Connected load	kVA	63
Compressed air consumption	Nm ³ /min	8
DISAMATCH 150:		
Uncored	mould/hour*	150
Automatically cored	mould/hour*	100
Sand consumption max.	tonnes/h**	50
Average power consumption	kW	50
Connected load	kVA	63
Compressed air consumption	Nm ³ /min	10
Cooling water consumption (DMM):	litres/min	10
Pressure:		
Squeeze pressure	bar	3 - 10
Shot pressure	bar	0 - 4.5
Compressed air requirements:		
Air pressure min	bar	5.5
Hydraulic fluid:	litres	650
Machine dimensions:		
Length, DMM	mm	4610
Length, DMM + CSE	mm	5609
Width	mm	2180
Height, top of sand inlet	mm	4283
Height, top of machine frame	mm	2650
Height, mould bottom push out	mm	655
Net weight:	tonnes	15.5

* At 250 mm mould thickness / ** At max mould thickness / *** Please refer to DSQ and machine layout for drawings / # At 15 C inlet temp.
 # A speed up kit is available for MATCH 24/28 to enable the machine to run up to 150 uncored moulds per hour

DISA MATCH

Type:		28/32	32/32
Mould dimensions:			
Lenght	mm	813	813
Width	mm	711	813
Height, min-max of drag	mm	225-300	225-300
Height, min-max of cope	mm	225-350	225-350
Mismatch, max:	mm	0.25	0.25
DISAMATCH 100			
Uncored	mould/hour*	100	100
Automatically cored	mould/hour*	75	75
Sand consumption max.	tonnes/h**	56	64
Average power consumption	kW	60	60
Connected load	kVA	75	75
Compressed air consumption	Nm ³ /min	10	10
Cooling water consumption (DMM)#:	litres/min	13	13
Pressure:			
Squeeze pressure	bar	1.2 - 10	1.2 - 10
Shot pressure	bar	0 - 5	0 - 5
Compressed air requirements:			
Air pressure min	bar	5.5	5.5
Hydraulic fluid:	litres	400	400
Machine dimensions:			
Length, DMM	mm	5565	5565
Length, DMM + CSE	mm	6500	6500
Width	mm	2410	2410
Height, top of sand inlet	mm	4732	4781
Height, top of machine frame	mm	3060	3060
Height, mould bottom push out	mm	596	596
Net weight:	tonnes	25	25

* At 250 mm mould thickness / ** At max mould thickness / *** Please refer to DSQ and machine layout for drawings / # At 15 C inlet temp.

DISA TM Mixers

TM Mixer		TM-160	TM-190		TM-240		TM-285	
Type:		45	55	75	90	110	160	200
Mixer capacity:								
At 100/120 sec. cyclus								
excl. SMC/incl. SMC	tonnes/hr	18/15	25/21	36/30	50/42	66/55	90/75	115/96
Nominal batch capacity	kg	500	700	1000	1400	1850	2500	3200
Average power consumption:								
Agitator	kW	45	55	75	90	110	160	200
Turbine	kW	1 x 22.5	1 x 30	1 x 37	1 x 45	2 x 45	2 x 45	2 x 55
Process water requirements:								
Water pressure min	bar	3.5	3.5	3.5	3.5	3.5	3.5	3.5
Water consumption:	litres/min	4	5	8	11	14	20	25
Compressed air requirements:								
Air pressure min	bar	6	6	6	6	6	6	6
Air consumption	Nm ³ /min	0.2	0.3	0.3	0.4	0.4	0.5	0.5
Mixer dimensions:								
Mixer height without hopper	mm	1990	2080	2080	2405	2405	2480	2480
Sand weigh hopper height	mm	1400	1750	1750	1600	1900	1950	2250
Mixer diameter	mm	1650	1950	1950	2460	2460	2900	2900
Net weight:	tonnes	4	7	7	13	13	17	17

DISA SAM Mixers

SAM Mixer		SAM-3	SAM-6	SAM-10		SAM-16		
Type:		40	70	85	100	120	160	180S
Mixer capacity:								
Mixing throughput max								
excl. SMC/incl. SMC	tonnes/hr	36/30	63/53	77/64	90/75	108/90	144/120	180/150
Nominal batch capacity	kg	1000	1750	2125	2500	3000	4000	5000
Average power consumption:								
Turbine	kW	55	110	110	132	160	200	250
Gear bridge	kW	30	55	75	75	90	132	200
Process water requirements:								
Water pressure min	bar	3.5	3.5	3.5	3.5	3.5	3.5	3.5
Water consumption	litres/min	8	14	17	20	23	31	39
Cooling water requirements:								
Water pressure min	bar	0	0	0	0	0	0.5	0.5
At 20 C inlet temp.	litres/min	0	0	0	0	0	8	8
Compressed air requirements:								
Air pressure min	bar	6	6	6	6	6	6	6
Air consumption	Nm ³ /min	0.2	0.3	0.3	0.4	0.4	0.5	0.5
Mixer dimensions:								
Mixer height without hopper	mm	1650	1850	2225	2225	2225	2580	2580
Sand weigh hopper height	mm	1900	2125	2320	2320	2320	2515	2620
Mixer length incl. discharge door	mm	2300	2850	3400	3400	3400	3850	3850
Mixer diameter	mm	1600	2000	2400	2400	2400	2700	2700
Net weight:	tonnes	7	11	16	16	16	23	24

DISAMIX

Type:		S75	S100	S125
Mixer capacity:				
Mixer throughput max incl. SMC	tonnes/hr	75	100	125
Nominal batch capacity	kg	2500	3000	3750
Average power consumption:				
Stirring unit	kW	132	160	200
Turbine drives	kW	2 x 45	2 x 55	2 x 75
Process water requirements:				
Water pressure min	bar	2	2	2
Water consumption	litres/min	16	22	25
Compressed air requirements:				
Air pressure min	bar	5.5	5.5	5.5
Air consumption	Nm ³ /min	0.4	0.4	0.4
Mixer dimensions:				
Mixer height without hopper	mm	2970	2970	3117
Sand weigh hopper height	mm	2265	2265	2512
Mixer diameter	mm	2900	2900	2900
Net weight:	tonnes	16	17	20

DISACOOOL

Type:		2400	2700	2900	3200	3400	3600	3800	4300
Sand/metal capacity max	tonnes/hr	25	35	50	60	90	110	140	200
Rated speed	rpm	3.8	3.3	3.0	2.7	2.5	2.3	2.5	2.2
Drive system: Friction Rollers		X	X	X	X	X	X		
Drive system: Girth Ring Drive								X	X
Average power consumption:									
Installed power	kW	22	30	44	60	88	120	160	250
Process water requirements:									
Water pressure min	bar	2	2	2	2	2	2	2	2
Water consumption:	litres/min	28	40	56	68	100	120	160	225
Compressed air requirements:									
Air pressure min	bar	6	6	6	6	6	6	6	6
Air consumption	Nm ³ /min	0.1	0.1	0.1	0.1	0.1	0.1	0.5	0.5
Mixer dimensions:									
Diameter	mm	2400	2700	2900	3200	3400	3600	3800	4300
Length	mm	9400	10460	12500	12500	15250	16150	19180	22400
Distance centreline-floor	mm	1660	2029	2280	2425	2560	2638	3120	3375
Net weight:	tonnes	11	20	26	26	40	45	58	70