

SmartDriveComau 700

	Units	SDC 700L	SDC 700XL	SDC 700S	SDC 700XS	SDC 700HT				
Axis Technology and Stroke										
Drive Technology	-	Linear Motor	Linear Motor	Ball Screw	Ball Screw	Ball Screw				
X Stroke	mm	700	1.000	700	1.000	700				
Y Stroke	mm	700	700	700	700	700				
Z Stroke	mm	800	1.000	800	1.000	800				
Dynamic Performance										
Rapid Traverse X/Y/Z axes	m/min	80/80/80*	80/80/60*	60/60/60*	60/60/50*	50/50/50				
Acceleration X/Y/Z axes	m/s ²	10/10/10*	10/10/8*	10/10/10*	10/10/8*	7/7/7*				
Comment		*lower values with A/B or A configuration								
Positioning accuracy - ISO 230-2	mm	0,01	0,01	0,01	0,01	0,01				
Repeatability - ISO 230-2	mm	0,005	0,005	0,005	0,005	0,005				
Axis Thrust										
X Axis	N	5.200	5.200	6.000	6.000	6.000				
Y Axis	N	3.300	3.300	4.000	4.000	6.000				
Z Axis	N	7.800	7.800	7.500	7.500	7.500				
Rotary Axis (B, A - Trunnion)										
B Axis speed	rpm	100	100	100	100	100				
B Axis acceleration	rd/s ²	30	30	30	30	30				
Angular positional accuracy	arc sec	4	4	4	4	4				
Angular positional repeatability	arc sec	2	2	2	2	2				
Volume of fixture (diam. x height)	mm	Ø 800 x h 900	Ø 1000 x h 900	Ø 800 x h 900	Ø 1000 x h 900	Ø 800 x h 900				
Other rotary axes configurations	-	A on B, A-Trunnion	A on B, A-Trunnion B on A-Trunnion	A on B, A-Trunnion	A on B, A-Trunnion B on A-Trunnion	A on B, A-Trunnion				
Pallet Changer	-	Yes, 2 pallets	Yes, 2 pallets	Yes, 2 pallets	Yes, 2 pallets	Yes, 2 pallets				
Spindle										
Tool Attachment		HSK63 HSK100	HSK63 HSK100	HSK63 HSK100	HSK63 HSK100	HSK100				
Power S1/S6 (40%)	kW	21/45 Opt. 31/45	40/60	21/45 Opt. 31/45	40/60	21/45 Opt. 31/45	40/60	21/45 Opt. 31/45	40/60	53/71 89 @ S6-10%
Torque S1/S6 (40%)	Nm	40/86 Opt. 60/86	119/179	40/86 Opt. 60/86	119/179	40/86 Opt. 60/86	119/179	40/86 Opt. 60/86	119/179	300/400 500 @ S6-10%
Speed	rpm	18.000 Opt. 15.000	10.000	18.000 Opt. 15.000	10.000	18.000 Opt. 15.000	10.000	18.000 Opt. 15.000	10.000	6.000
Coolant thru spindle max. pressure	bar	50	50	50	50	50	50	50	50	50
Tool Magazine										
Tool Attachment		HSK63 HSK100	HSK63 HSK100	HSK63 HSK100	HSK63 HSK100	HSK63 HSK100	HSK63 HSK100	HSK63 HSK100	HSK63 HSK100	HSK100
Maximum number of tools	-	50	40	50	40	50	40	50	40	40
Maximum tool diameter										
with occupied adjacent pockets	mm	95	95	95	95	95	95	95	95	95
with empty adjacent pockets	mm	160	160	160	160	160	160	160	160	160
Maximum tool length (HSK face to tip)	mm	300	300	300	300	300	300	300	300	300
Maximum tool weight	kg	6	8	6	8	6	8	6	8	8
Tool change time - VDI 2852	s	2,8	3,5	2,8	3,5	3,5	4,1	3,5	4,1	4,4
Option: Tool Rack										
Tool Attachment		HSK63 HSK100	HSK63 HSK100	HSK63 HSK100	HSK63 HSK100	HSK63 HSK100	HSK63 HSK100	HSK63 HSK100	HSK63 HSK100	HSK100
Maximum number of tools	-	4	3	4	3	4	3	4	3	-
Maximum tool diameter	mm	220	220	220	220	220	220	220	220	-
Maximum tool length (HSK face to tip)	mm	600	600	600	600	600	600	600	600	-
Maximum tool weight	kg	18	25	18	25	18	25	18	25	-

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