



ACC 105 DX

Machine Construction

Hydraulic Crossfeed

- Cast iron construction for optimum stiffness and precision.
- Robust double V crossfeed slideways.
- Precision ball screw.
- Crossfeed handwheel travel, 5 mm per revolution and 0.02 mm per division.
- Continuous or stepped crossfeed.
- Mechanical crossfeed lock.
- Non contact switches for table reversal.

Machine Table

- Hydraulically driven table movement.
- Minimal overhang with all models.
- Double V slideways.
- T-Slot for fixing work holding equipment.
- Non contact switches for table reversal.

Wheelhead

- The wheel spindle is built into a cartridge assembly with pre-loaded precision angular contact bearings.
- Wheel spindle with direct drive via elastic coupling between motor and shaft.
- The wheelhead is adjusted within the column with 3 adjustable wedges to withstand the highest forces.
- Automatic lubrication for all slideways.

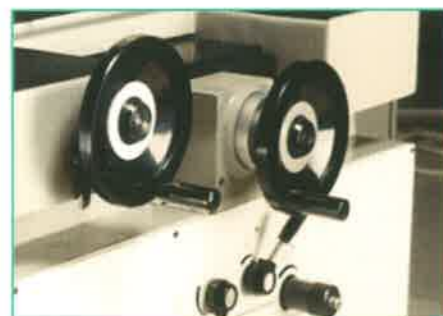
Hydraulic Controls

- All hydraulic control adjustments are set from the front of the machine.

Table Speed

- Stepplessly variable up to 25m/min.

Description		Unit	52DX	63DX	64DX	65DX	84DX	105DX	
Table	Machine Table (Length x Width)	mm	650x230	750x340	650x400	650x500	850x400	1050x500	
	Max. Distance New Wheel to Table	50/60Hz, 205mm Wheel	mm	47.5 ~ 397.5	-	-	-	-	
		50Hz, 355mm Wheel	mm	-	22.5 ~ 322.5	22.5 ~ 322.5	22.5 ~ 522.5	22.5 ~ 522.5	22.5 ~ 522.5
		60Hz, 305mm Wheel	mm	-	22.5 ~ 347.5	47.5 ~ 347.5	47.5 ~ 547.5	47.5 ~ 547.5	47.5 ~ 547.5
Standard Magnetic Chuck Size (LxWxH)	mm	500x200x80	600x300x80	600x400x80	600x500x110	800x400x105	100x500x110		
Table Load Capacity (incl. Chuck)	kg	200	420	420	700	700	700		
T-Slots (Width x No)	mm	17x1	17x3						
Length Feed	Max. Travel	mm	750	850	750	750	950	1150	
	Hydraulic Table Speed	m/min	0.3 ~ 25	0.3 ~ 25	0.3 ~ 25	0.3 ~ 25	3 ~ 25	3 ~ 25	
	Table Feed per Handwheel Turn	mm	47						
Cross Feed	Max. Travel	mm	230	340	440	540	440	540	
	Hand Movement	per Handwheel Turn	5.0						
		per Handwheel Division	0.02						
	Automatic Movement	Intermittend Feed	mm	0.5 ~ 12	0.5 ~ 20	0.5 ~ 20	0.5 ~ 20	0.5 ~ 20	0.5 ~ 2
Continuous Feed		m/min	0.1 ~ 1.0	0.1 ~ 1.0	0.1 ~ 1.0	0.1 ~ 1.0	0.2 ~ 1.0	0.2 ~ 1.0	
Down Feed	Automatic Downfeed	mm	0.0001 ~ 0.03 <15 Steps>						
	Hand Movement	0,1x/1x/10x per Handwheel Division	0.0001 / 0.001 / 0.01						
		per Handwheel Turn	0.01 / 0.1 / 1.0						
	Sparkouts	No.	0 ~ 5						
Rapid Positioning	mm/min	400							
Grinding Wheel	Diameter (50/60Hz) x W x Bore	mm	ø205x19xø50.8	ø355 / 305x38xø127					
	Wheel Speed (50/60Hz)	R.P.M.	3000	1500	1500 / 1800				
Motors	Wheel Spindle	kW/P	1.5 / 2	3.7 / 4					
	Hydraulic Pump	kW/P	0.75/4	3.7	1.5 / 4	2.2 / 4			
	Downfeed	kW	0.4 (AC Servomotor)						
Power	Power Requirement	kVA	4.5	7.5	8.0				
Dimensions	Length x Width x Height	mm	2405x1593x1765	3350x2160x2280	2737x2203x1808	2725x2450x2026	3310x2211x2080	4530x2546x2012	
Weight	Net Weight	kg	1800	2500	3000	3200	3700	4800	



Hand scraped slideways



Okamoto control panel

Control Panel

Function

- Cycle start and stop set with switches and push buttons.

Feed Rates

- 2 separate downfeed rates: coarse feed between 0 and 30 µm, fine feed between 0 and 10 µm selectable.

Feed Change

- Independently adjustable change points between coarse and fine downfeed (between 0 and 30 µm).

Sparkout at Zero

- Adjustable between 0 and 5 reciprocations at zero.

Rapid Movement of the Wheelhead

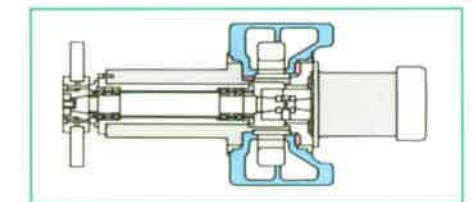
- The rapid feed upwards and downwards can be set on the panel.

Manual Movement of the Wheelhead

- Via an electronic handwheel with 3 increments – 0,0001 · 0,001 · 0,01 mm.

Automatic Downfeed as Follows:

- Coarse Feed
- Feed Change
- Fine Feed
- Sparkout at Zero
- Cycle Stop



Detail: Wheel Spindle Head in Column looking down

Optional Equipment

- Digital Display for Crossfeed
- Micro Crossfeed Knob
- Coolant System
- Wheelflange
- Wheel Head Mounted Straight Line Dresser
- LoVo Work Light