

AK HEAVY ENGINEERING

MACHINE CAPACITIES

PLANO MILLING and GANTRY MILLING								
Machine Maker	Control System	Max width between Col	Max Height Under Spindle	Travel Y Axis	Travel X Axis	Travel Z Axis Ram	Travel W Axis Bridge	Table Load
PLANO MILLING								
Waldrich	Siemens 840C	5,100	4,500	6,000	13,200	1,000	3,850	300 Tonne
Waldrich	Semens System 8	3,500	2,750	4,200	8,700	1,000	.	160 Tonne
Siegen	Siemens 850	2,500	1,600	3,755	7,500	1,000	N/A	75 Tonne
Gantry Mill								
Asquith	Siemens 850	4,850	2,250	4,000	14,000	1,250	N/A	150 Tonne

RAM BORERS								
Machine Maker	Control System	Table Size(mm)	Ram Z Spindle W	Vertical Y Axis	Horizontal X Axis	Table Travel	B Axis Rotary Table	Table Load
Asquith	D.R.O.	Workplate	1960/1520	5,050	14,000	N/A		Infinite
Asquith	Hiedenhien N.C.	Workplate	1000/1500	4,000	12,000	N/A		Infinite
Asquith	Hiedenhien N.C/	Workplate	1000/1500	5,410	13,000	N/A		Infinite
Asquith	D.R.O.	Workplate	1067/760	5,000	12,570	N/A		Infinite
Asquith	D.R.O.	Workplate	762	2,348	4,570			infinite
Scharmann	R&D MDI	3500 x 4000	1300/1300	4,500	6,000	2,500	360 deg.	100 Tonne

HORIZONTAL BORERS								
Machine Maker	Control System	Table Size (mm)	Ram/ Spindle Travel (mm)	Vertical Y Axis	Horizontal X Axis	Table Travel	B Axis Rotary Table	Table Load
Scharmann	R&D MDI	2500 x 3000	600/700	2,500	5,000	3,900	360 deg	40 Tonne
Pama	ECS CNC	2500 x 3000	700/800	2,400	7,000	1,500	360 deg	30 Tonne
Scharmann	Manual	1000 x 1400	600	1,600	1,600	1,000	360 deg	6 Tonne
Scharmann	Hiedenhien	1200 x 1600	800	1,600	2,000	1,150	360 deg	6.9 Tonne
Elgamill	Hiedenhien	2000 x 8000	1,050	2,000	6,200	N/A	N/A	30 Tonne
Small Millers								
Leadwell M/C	Fanuc OMF	1700 x 970	600	760	1,320			
K&T Miller		2032 x 381	Table 406	406	630			

VERTICAL BORERS								
Machine Maker	Control System	Table dia.(mm)	Max Swing Workpiece	Ram Stroke	Max. Height under Tool			Table load
Berthiez	Read out	3,000	5,500	2,000	3,000			60 Tonne
Schiess/Defries	Siemens 840C	5,500	8,100	1,500	2,540		C.Axis	100 Tonne
Skoda	D.R.O.	4,750	5,360	1,400	3,060			45 Tonne
W/Bennett	Read Out	1,219	1,372	965	1,000			6 Tonne
Schiess	Hiedenhien	1,800	2,000	940	2,400			5 Tonne
BTH	Manual	7,620	12,954	1,830	3,900			200 Tonne

TURNING								
Machine Maker	Control System	Chuck Size(mm)	Maximum over Saddle(mm)	Maximum Over Bed	Max Length Between Centres			Max Loads Supp
Wohlenberg	R&D MDI	2,000	1,780	2,060	13,000			63 Tonne
Wohlenberg	Siemens 850	1,200	1,080	1,420	10,000	C Axis		18 Tonne
VDF V2000B	D.R.O.	2,000	1,800	2,060	14,000			50 Tonne
Heidenreich	Read Outs	500	276	540	1,500			0.5 Tonne
Binns & Berry	Fanuc		850	1,000	4,000			0.5 Tonne
D.S.G.		406	229	432	2,032			
D.S.G.		406	2,298	432	1,016			
MHP	Fanuc	200	200	400	825			80KG

Drilling								
Machine Maker	Control System	Table Size(mm)	Spindle Travel	Vertical Travel	Radial Swing(mm)			Max Table Load
Horizontal								
Kitchen & Wade	N/A	2120 x 3500	760	1,070				
Radial Drilling								
Archdale	N/A	1200 x 1000	500	2,000	1,200			N/A
Asquith	3020	N/A	2,286	457				

Slotting								
Machine Maker	Control system	Table size(mm)	Max Height	Stroke(mm)				Max Table Load
Ravensburg	Manual	1400 x 900	800	1,200				4

Gear Cutting & Grinding								
Machine Maker	Max.Pitch	Max.dia.	Max.Face Width	Max.Weight	Table Bore dia.		Max. Through Table	
Gear Hobbing								
Liebherr	40 MOD	3,200	1,500	30 tonnes	600		1,500	
Liebherr NC	40 MOD	3,000	1,400	30 tonnes	600		2,000	
	Max. Pitch	Max.dia.	Max.Face Width	Standard Helix Angles				
Gear Planing								
Sykes Internal 5E	12 MOD(2 CDP)12 MOD(2CDP)	1,588	450 double helical 250 straight spur235 @ 825 max.length	30°CDP 30°28', 7/8 MOD34°17', 10/12MOD				

Gear Grinding								
Machine Maker	Min/Max Pitch	Max.dia.	Max.Face	Max.Weight	Min/Max teeth		Min/Max Angle	Max.Helix Angle.
MAAG 460S	Mar-80	4,750 (508 min)	1100 Spur. 1000 11°SH	50 Tonnes (inc. fixt s)	20/780		15°/28°	30°