



HIGHFIELD

Gears and Machining Ltd

CAPACITY FOR CUTTING WORMS AND GRINDING WORMS:

DIAMETERS FROM 1" – 10"

PITCH'S FROM 0.100" – 2.750"

NUMBER OF THREADS 1 – 14

CAPACITY FOR O/D GRINDING:

DIAMETERS FROM 1/2" – 11"

LENGTHS FROM 2" – 60"

CAPACITY FOR BORE GRINDING:

BORES FROM 1.1/2" – 8"

FACE WIDTH 1" – 5"

CAPACITY FOR WORMWHEELS:

CENTRES FROM 2" – 28"

FLY RADIUS 1/2" – 4.1/2"

DIAMETERS FROM 2" – 50"

PITCHS FROM 0.100" – 2.750"

CAPACITY FOR CUTTING HELICAL AND SPUR GEARS:

DIAMETERS FROM 2" – 90"

FACE WIDTH (SPUR) ½" – 18"

FACE WIDTH (HELICAL) ½" - 8"

PITCHES FROM 24 DP – 1 DP

CAPACITY FOR GEAR GRINDING HELICAL AND SPUR GEARS:

MAX O/D 60"

MAX FACEWIDTH 12.5"

CAPACITY FOR CUTTING HELICAL AND SPUR GEARS:

DIAMETERS FROM 2" – 90"

FACE WIDTH (SPUR) ½" – 18"

FACE WIDTH (HELICAL) ½" - 8"

PITCHES FROM 24 DP – 1 DP

CAPACITY FOR GEAR GRINDING HELICAL AND SPUR GEARS:

MAX O/D 60"

MAX FACEWIDTH 12.5"

SPLINE SHAFTS AND BEVEL GEARS:

INTERNAL GEARS AND SPLINES 1000MM DIA (40")

BEVEL GEARS 950MM DIA X 12 MOD (24" X 3DP)

SPIRAL AND HYPOID BEVEL GEARS 900MM DIA X 17 MOD (36" X 1.5DP)

CNC MACHINES CAPACITY LIST

**MCM PROGRESS 1 TWIN PALLET HORIZONTAL MACHINING CENTER
HEIDENHAIN TNC430 CONTROL**

TWIN PALLETS 700 DIA
X AXIS 1700MM
Y AXIS 800MM
Z AXIS 700MM
TABLE LOAD 10 TONNES
PALLET ROTATION LOAD 1.5 TONNES
PALLET POSITIONING ONLY EVERY 1 DEG
BORING DIAMETER FROM 6MM TO 400MM

**SCHARMANN TWIN PALLET HORIZONTAL MACHINING CENTER
HEIDENHAIN TNC 530 CONTROL**

TWIN PALLETS 800MM X 650MM
X AXIS 1230MM
Y AXIS 1000MM
Z AXIS 830MM
TABLE LOAD 2 TONNES
PALLET ROTATION LOAD 1.5 TONNES
PALLET ROTATION MILL OR POSITIONING INFINITE VARIABLE
BORING DIAMETERS FROM 6MM TO 400MM

**CINCINNATI SABRE 150 VERTICAL MACHINING CENTER HEIDENHAIN
TNC 426 CONTROL**

TABLE SIZE 1630MM X 750MM
X AXIS 1500MM
Y AXIS 760MM
Z AXIS 820MM
TABLE LOAD 1.5 TONNES
BORING DIAMETER FROM 6MM TO 400MM

**MAZAK INTEGRIX 50 CONTROL TURNING CENTER WITH LIVE
TOOLING**

HYDRAULIC CHUCK MAX 700MM
BETWEEN CENTERS 1000MM
60 STATION TOOL CHANGER 30 TURNING/30 MILLING
MAX LOAD 0.5 TONNES

X Y Z PROTURN SLX555 – 1.75M PROTOTRAK SLX CONTROL

SWING OVER BED 560mm
SPINDLE BORE 104mm
DISTANCE BETWEEN CENTRES 1750mm
MAX 1800 RPM

X Y Z PROTURN SLX425 – 2M PROTOTRAK SLX CONTROL

3 & 4 JAW CHUCK MANUAL
BETWEEN CENTERS 2000MM
MAX DIAMETER 480MM
MAX LOAD 0.5 TONNES

MANUAL LATHE'S

TURN UP TO 4 METERS LONG
TURN UP TO 1200MM DIAMETER

WEBSTER BENNETT

48" TABLE DIAMETER
59" MAX SWING
ELEVATING RAIL TO 40" IN HEIGHT
MAX LOAD 5 TONNES

SURFACE GRINDER

JONES AND SHIPMAN 1400

HONING MACHINE

MAXIMUM LENGTH 3 METERS
MAXIMUM DIAMETER 200MM

RADIAL ARM DRILL

MAXIMUM 1.5 METERS LONG
MAXIMUM 1.5 METERS HIGH

PRESS

UP TO 300 TONNES
5 METERS LONG

WELDING

MIG WELDING FACILITIES

MANUAL MILLING

XYZ SLV NEWALL DIGITAL READOUT
BRIDGEPORT HEIDENHAIN DIGITAL READOUT

CUTTER/GRINDERS

GEAR CUTTERS
MILLING CUTTERS
TURNING TOOLS
DRILLING