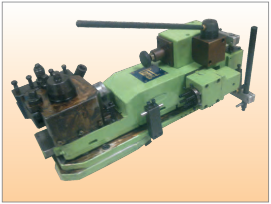
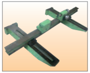
HYDRAULIC COPY TURNING ATTACHMENT FOR LATHE



GAMUT Hydraulic Copy turning Face copying & Copy boring. GAMUT LATHE TRACERS are made by Graded Casting and have been Robustly constructed to take maximum cut with hardened tool post and very sensitive and precise Copy-Valve to render trouble free longer service. GAMUT TRACER can be mounted at rear or front of a lathe machine and can be operated by semi-skilled personnel. Inspection time is drastically reduced and production is increased by many times within accuracy of ±0.025mm when use good machining condition.

Features

- Accurate, Precise and Robust Construction in Graded casting.
- In-built Lubrication System for Tracing Slide.
- 6-Station Auto-actuated Drum Turret for Multicut operation at extra Cost.
- Integrated Finish cut device from 0-1.5 mm. Tool get advance automatically in finish cut mode.
- Hardened Tool post with Quick Change Tool Holder. Finish cut control at extra cost.
- Master carrier for round master and Flat Template Holder (optional at extra cost) can be set easily having arrangement for longitudinal and axial movements.
- Forward and Retraction of slide and Finish cut Operation done by manually operated hydraulic valve with single handle
- Power pack having Dual Delivery pump, Oil level indicator, special isolator valve for pressure gauge and filters.
- Electric Remote control for operating Finish cut at extra cost.
- Electrical Remote control for forward and retraction of Copying slide at extra cost.



Rear Master Holder

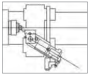
Power Pack

Hose Pipes

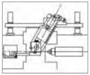
Compound Flat Template Holder

Job samples

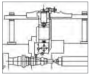
Wooden Job



Copy Facing



Copy Boring



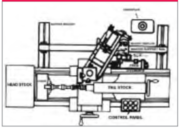
Copy Turning

Technical Specification

MODEL	5660	7090	7014	1014	1020
Stroke of Tracing Slide in mm	60	90	140	140	200
Minimum centre Height from top of cross slide in mm					
Tool inverted				135	135
Turning	85	95	95		
Boring	90	100	100		
Tool Upward				165	165
Turning	110	130	135		
Boring	110	125	125		
Max.Dia of Round master in mm	90	90	90	200	200
Max. length of rail in mm	1000	1000	1000	2000	2000
Hydraulic Working Pressure in Kg/CmÂ^2	18	18	18	14	14
Pump Output in LT / Min	7	7	7	14	14
Power Pack H.P.	1	1	1	1.5/2.0	1.5/2.0
Theoretical Thrust in Kg	190	300	300	470	470
Recommended tool shank in mm	20x20	25x25	25x25	32x32	32x32

HYDRAULIC AUTOMATIC COPY TURNING ATTACHMENT

Auto Progammed Cycle Tracer



Auto Programmed Cycle Tracer System includes Single Axis Tracer with Hydraulic control valves, Dual Delivery Power pack, Control Panel, Feed Cylinder to move lathe saddle longitudinally forward-Reversed and Limit switches.

System is suitably designed to get up to two-cut Automatic Cycle of Single Axis Tracer.

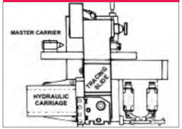
System is very much suitable where limited dependence on operator required. Operator is only required to load the job, press the start button and unload the job at the end of the cycle.

Technical Specification

MODEL	5660	7090	7014	1014	1020
Stroke of Tracing Slide in mm	60	90	140	140	200
Minimum centre Height from top of cross slide in mm					
Tool inverted				135	135
Turning	85	95	95		
Boring	90	100	100		
Tool Upward				165	165
Turning	110	130	135		
Boring	110	125	125		
Max.Dia of Round master in mm	90	90	90	200	200
Max. length of rail in mm	500	500	500	500	500
Hydraulic Working Pressure in Kg/CmÂ^2	18x18	18x18	18x18	14x18	14x18
Pump Output in LT / Min	9x7	9x7	9x7	14x9	14x9
Power Pack H.P.	1.5/2.0	1.5/2.0	1.5/2.0	2.0	2.0
Theoretical Thrust in Kg	190	300	300	470	470
Recommended tool shank in mm	20x20	25x25	25x25	32x32	32x32

SELF CONTAINED TRACING SYSTEM FOR LATHE

Self Contained Tracing System



Self contained Tracing System includes **GAMUT** Single Axis Tracer mounted on independent longitudinal hydraulic **feed slide** with 0 ~ 40mm/second speed variation control, Hydraulic direction control and Electric controls to achieve complete Automatic 2-cut one rough and one 0 ~ 1.5mm preset finish cut Auto cycle.

Operator is required to load the job, press the Auto start button and unload the job after completion of the cycle.

This system is very much useful where the lathe machine's bed is worn out and can't be use.

The system include Automatic Tracing slide, Hydraulic Longitudinal Feed slide, Round master holding device, Dual delivery Hydraulic power pack with control valves, Electric Control panel and Hose pipe set.

Technical Specification

MODEL	**5660**	**7090**
Stroke of Tracing Slide in mm	60	90
Stroke of Longitudinal Feed Slide is **200mm**		
Minimum centre Height from top of cross slide in mm	170	185
Max.Dia of Round master in mm	90	90
Max. length of rail in mm	500	500
Hydraulic Working Pressure in Kg/CmÂ²	18x18	18x18
Duel Delivery Pump Output in LT / Min	9x7	9x7
Power Pack H.P.	1.5/2.0	1.5/2.0
Theoretical Thrust in Kg	190	300
Recommended tool shank in mm	20x20	25x25

AUTOMATIC HYDRAULIC COPY LATHE

GAMUT Copy Lathe Machines are suitable for job where simultaneous Facing and OD Turning or OD Turning and ID Turning or Facing and ID Turning required excluding holding portion.

Mostly these machines are used on Tie Rod Housing, Gear Blanks, Sprockets, and Bearings etc. Machines are suitable for mass production of items economically. Machines are highly productive with ease in operation and maintenance.

Technical Specification

SINGLE AXIS COPYING LATHE		
MODEL	**GAMUT 1**	**GAMUT 2**
Max. Turning Diameter	200 mm	200 mm
Max. Turning Length	300/500 mm	300/500 mm
Admit Between Centres (max.)	500/700 mm	500/700 mm
SPINDLE		
Taper in Spindle	A2-4	A2-5
Spindle Bore	38 mm	50 mm
Spindle RPM	2000	2000
Spindle Motor	5 HP	7.5 HP
COPYING SLIDE		
Stroke	60/90 mm	90 mm
Tool Cross Section	25x25 mm	25x25 mm
Theoretical Thrust	190/300 kg	300 kg
TAIL STOCK		
Max. Travel of Quill	75 mm	75 mm
Taper in Quill Bore	MT3	MT4
HYDRAULICS		
Tank Capacity	90 Ltrs.	90 Ltrs.
Pump Capacity	20 lpm	20 lpm
Motor	2 HP	2 HP
APPROXIMATE DIMENSIONS		
Length	1350 mm	1600 mm
Width	1100 mm	1100 mm
Height	1500 mm	1500 mm

'Specifications Subject to alteration without notice.

HYDRAULIC VERTICAL BROACHING MACHINE

GAMUT Vertical Broaching Machines are **Pull Down** Type and **Hydraulically** operated. These machines are **precisely** made with hardened, ground and chrome plated **4 guide bar** with suitable linear guide bushes fitted on Broach puller holding **guide plate** which are bored on highly precise jig boring machine to maintained centerline with allied machine parts and suitably heat treated to give maximum accuracy continuously. These machines are robustly constructed to minimized vibration during Broaching operation.

Features :

# Built in Coolant Equipment.

# Built in Hydraulic Power pack

# Splash Guard

# Broach pullers to suit broach shank with guide plate.

# Broach holding guide plate move up and down on 4 Hardened and ground guide bar.

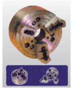
# Broach guide bush for tail end to suit broach shank in case of Broach Retriever System.

# Hydraulic broach Retriever System optional item at extra cost.

Technical Specification

MODEL	**GAMUT-VB1**	**GAMUT-VB2**	**GAMUT-VB3**	**GAMUT-VB4**
Stroke of Broaching in mm	750/1000/1200	750/1000/1200	750/1000/1200	1200
Pulling force in kg				
Broach Feeding speed	3500	6000	10000	15000
Meter/Minuit	0 ~ 5	0 ~ 5	0 ~ 3	0 ~ 3
Broach return speed Meter/Minuit	5	5	3	3
Max Bore on Top working table in mm	Ø90	Ø90	Ø110	Ø110
Working table in mm	400 x 600	500 x 700	650 x 750	750 X 850
Hydraulic Motor HP	5	7.5	12	15
Hydraulic Maximum Working Pressure in Kg/CmÂ²				
Hydraulic Tank Capacity Liter	100	100	100	100
Pump Output in LT / Min	23 Gear/ Variable	30Gear/ Variable	20-40 Variable	30-50 Variable
Coolant Motor H.P.	0.15/0.25	0.25/0.50	0.50	0.50
Coolant Tank Capacity	125	150	150	175
Approximate Weight in Kg	1250	1650	2300	3500

POWER OPERATED HOLLOW CENTER CHUCKS



GAMUT Power Operated Hollow Center Chucks precisely designed and they offer high accuracy gripping power. These Power Operated Hollow Cen Chucks are also known for their high operati efficiency. Our Power Operated Hollow Center Chu are of double wedge type. We can also provide Hol center, two jaws, four jaws as well as high RPM chu for NC and CNC m/c.

Features:

Power Chucks are of double wedge type

The chuck body is made from steel forging suitably heat treated

All bearing surfaces are suitably heat treated and precision ground

The base jaws are made from high grade alloy steel, properly case harde and grounded on all bearing surfaces and deep guided in chuck body

The base jaw serrations are ground finished

The wedge is double hook type to provide ample bearing area and is m form high grade case hardening alloy steel

The wedge is suitably hardened and grounded on all sliding surfaces.

Technical Specification

Dia	**Ø 165 mm**	**Ø 200 mm**	**Ø 250 mm**	**Ø 315 mm**
Ø A	165	200	250	315
B	82	96	96	96
C	5	6	6	6
Ø D	35	48	65	82
Ø E	140	170	220	300
PCD F	104	133.40	171.30	235
Wedge Strok G	15	21	21	21
Bore H	90	110	132	150
I	20	20	26	32
J	27	28	28	28
K	6 x M10	3 x M12	3 x M16	3 x M20
L	M 42 x 1.50	M55 x 2	M72 x 2	M92 x 2
Jaw Stroke M	4	6	6	6
a	35	40	50	50
b	12	17	21	21
c	19	19	22	25
d	M10	M12	M16	M16
Serration	1/16" x 90 dgree	1/16" x 90 dgree	1/16" x 90 dgree	1/16" x 90 dg
RPM	5000	5000	4000	3500
Weight	14 Kg	16 Kg	26 Kg	38 Kg

Note : All Dimension In mm

POWER OPERATED CLOSED CENTER CHUCK

GAMUT Power Operated Closed Center Chucks are designed with perfection to offer high accuracy and gripping power. Our Power Operated Closed Center Chucks are highly reliable in use with high operational safety. Power Operated Closed Center Chucks are fabricated using double wedge hook type mechanism and are made from steel forging, suitably heat treated. We make available Power Operated Closed Center Chucks in different customized sizes. These Power Operated Closed Center Chucks are the perfect option for chucker applications. We can also provide close center, two jaws, four jaws as well as high RPM chucks for NC and CNC m/c.

Features:

- All bearing surfaces are suitably heat treated and precision ground
- The base jaws are made from high grade alloy steel, properly case hardened and grounded on all bearing surfaces and deep guided in chuck body
- The base jaw serrations are 1/16" x 90° as standard, but can be provided as per customer's requirement
- The base jaw serrations are ground finished
- The wedge is double wedge hook type to provide ample bearing area and is made from high grade case hardening alloy steel. The wedge is suitably hardened and ground on all sliding surfaces

Technical Specification

Dia	Ø 165 mm	Ø 200 mm	Ø 250 mm	Ø 315 mm
Ø A	165	200	250	315
B	75	87	96	98
C	5	6	6	6
Ø D	15	15	24	24
Ø E	150	185	235	300
PCD F	125	160	200	250
Wedge Strok G	42.5-25	50-30	53-30	56-30
Bore H	40	45	55	55
I	M10	M12	M14	M16
J	25	30	35	40
K	38	57	79	105
L	3xM10	3xM12	3xM16	3xM16
Jaw Stroke M	M16	M20	M20	M24
a	38	38	50	55
b	12	14	17	21
c	74-70	97-91	121-115	154-148
d	4mm	6mm	6mm	6mm
Serration	1/16" x 90 dgree	1/16" x 90 dgree	1/16" x 90 dgree	1/16" x 90 dgree
RPM	3600	3150	2500	2100
Weight	14 Kg	18 Kg	34 Kg	38 Kg

Note : All Dimension In mm

HYDRAULIC ROTARY CYLINDER

Hydraulic Rotary Cylinders are suitable for operating Hydraulic Chuck or Collets. This cylinder is mounted on the back side of Lathe spindle and it operates the chuck or collets through a draw bar attached with piston rod of cylinder. A non-contacting type rotary joint is provided with cylinder which is free from maintenance. This joint gives certain amount of oil-leakage for which one outlet is provided. Cylinder is mounted in horizontal position.

Technical Specification

Model No.	9012	9025	12012	12025	15025	20025
A	124					
B PCD	100	100	115	115	140	170
C H6	80	80	80	80	100	100
D	90	90	120	120	150	200
E	M20	M20	M20	M20	M24	M24
F	35	35	35	35	35	35
G	30	30	30	30	30	30
H	M12	M12	M12	M12	M16	M16
I No. of Holes	4	4	4	4	4	6
J Stroke	12	25	12	25	25	25
K	86	99	86	99	99	99
L Max	78	78	78	78	78	78
L Min	66	63	66	63	63	63
M	18	18	18	18	18	18
N	6	6	6	6	6	6
Wt.in Kg. (appx.)	8	8.5	10	11	14	17
Max.RPM speed	4000	4000	4000	4000	2500	2500
Draw bar in Kgs. at 20 Kg/cm2	1100	1100	2000	2000	3300	6000

HYDRAULIC DRILLING MACHINES

Features

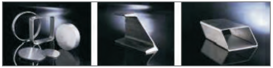
1. Accurate and compact designed.
2. High productive
3. User friendly
4. Reduce man power.

SPECIFICATION			
Drilling Capacity	:	ø10mm	ø20mm
Spindle Taper	:	MT2	MT3
Spindle Travel	:	125mm.	125mm
Spindle RPM	:	900-3600	900-320
No. Of Speed	:	4	4
Spindle Speed	:	Variable	Variable
Column Diameter	:	90mm	120mm
Base Area	:	320 X 400	320 X 400
Distance from Spindle to Base	:	600mm	600mm
Spindle Motor	:	1HP	2HP
Hydraulic Motor	:	2HP	2HP
Size	:	1100 X 750 X 2000	

SEMI AUTOMATIC CIRCULAR SAWING MACHINE

Machine Features :

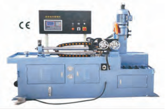
1. Burr free & less dust
   Self-Centering vise with two sides clamping to solidly hold the work piece and ensure a smooth and burr free cutting surface. Low operation noise and low pollution working environment.
2. Fast ,Precision & clean
   Compared to band sawing , circular sawing is much more economical , faster in cutting , more precise and cleaner finish.
3. Mitre Cutting
   The saw head can be swiveled either direction at various degrees for mitre cutting , providing exellent precision in angle accuracy
4. Cooling system
   Equipped with electrical cooling pump and alarge coolant tank to ensure exellent working temperature on the saw blade and the work piece, as well as a smooth cutting surface and longer blade life.
5. Length Stopper
   Standard with adjustable length gauge and stopper.
   Manual feeding, Automatic clamping and cutting



Technical Specification

MODEL	MC-350MC		MC-315B		MC-275B		MC-315B	
Sawing Scale	90° (mm)	45°(mm)	90° (mm)	45°(mm)	90° (mm)	45°(mm)	90° (mm)	45°(mm)
	160X100	120X100	160X100	120X100	60X60	45X45	90X90	80X80
	ø125	ø100	ø150	ø125	ø90	ø60	ø100	ø80
	ø90	ø75	ø100	ø70	ø35	ø25	ø55	ø45
	60X60	55X55	80X80	75X75	38X38	25X25	50X50	40X40
Weight	450kg		450kg		250kg		300kg	
Saw Blade Size	ø350		ø400		ø250/275		ø250/300/315	
Delivery date	8 week		8 week		8 week		8 week	
Payment term	50% adv and 50% against P/I		50% adv and 50% against P/I		50% adv and 50% against P/I		50% adv and 50% against P/I	
Warranty	one year		one year		one year		one year	
Manual feeding, Automatic Pneumatic clamping and cutting.			Manual feeding, Automatic Pneumatic clamping and cutting.		Manual feeding, Automatic Pneumatic clamping and cutting.		Manual feeding, Automatic Pneumatic clamping and cutting.	

AUTOMATIC CIRCULAR SAWING MACHINE



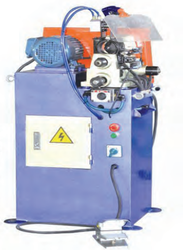
Features:

- Vertical slideway for adavnce and retreat blade up and down. Cutting feed is steady and cutting tools are of long use life. High precision of saw cutting
- European design, many groups of tooth gearing suit to heavy duty cutting, the accuracy is steady.
- Elaborate design to material feed system.
- Elaborate design of material feed floating system so as not to damage the surface of work piece and with high precision of material feed.
- Special main clamp design, the strength is solid.
- Use PLC controller, no connected point, no fault and easy for maintenance
- Cooling liquid automatic circulation to secure the smoothness of cutting surface of work piece.
- Centralized control button. Easy and simple operation.
- Equipped with electric saw cutting number setting and total number.
- Automatic stop when without material.
- Saw pieces are centralized for disposal to make convenient and clean.

Technical Specification

MODEL	MC-275SL	MC-315SL	MC-350SL	MC-400SL
○	ø80	ø110	ø125	ø150
□	60X60	90X90	110X110	125X125
▭	80X60	90X80	120X90	160X80
●	ø38	ø55	ø75	ø100
■	38	50X50	65X65	80X80
Weight	1100Kgs	1300Kgs	1400Kgs	1500Kgs
Saw Blade Size	ø250-300mm	ø250-350mm	ø250-370mm	ø250-400mm
Feeding length	750mm x many times			
Oil pump System	2.2KW, 4 pole motor, double-ply pump operating presure 25-35kg/cm^2			
Cooling System	0.09kw motor, automatic cooling circulation			
Delivery date	8 week			
Payment term	50% adv and 50% against P/I			
Warranty	one year			
▣	Using special designed clamping mould, according to diameter of pipe to cut 2-9 pieces/time Special mould, no-standred configuration should make ro order			

TUBE AND BAR END FINISHING MACHINE



Features:

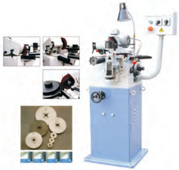
- Gripper die and blade surface are designed elaborately to make sure that the processed object and centre line of blade surface maintain still. It can equably finish the process of tube end and outer angle, inner angle at one time.
- It can make use of the variety of strap wheel to transform several rotating speed and guarantee the longest use life of blade according to different metal blade.
- Two phase of blade advance speed can save the work hours and is easy to adjust slowness of speed to reach perfect process.

Technical Specification

MODEL	EF-PV/52	EF-AC/80
Main motor power	0.75kw	2.2kw
Main shaft speed	According to different material to choose rotating speed by changing leather belt	
Processing diameter	9-52(mm)	30-82(mm)
Processing external angle	9-25(mm)	20-50(mm)
Compressed air	6-8Kgs/cm2	6-8Kgs/cm2
	60ml/min	120ml/min
Standard attachment	1. Mainframe, 2. One tongs, 3. one standard tool bit, 4. One group blade	
Special attachment	1. diffrent size tongs, 2. special tool apron and blade, 3. specia	

Note : EF-PV/52 need special small tool bit and blade when process pipe with diameter 9mm-18mm

HSS SAW BLADE SHARPENING MACHINE



Features:

- This machine is easy to operate, the cutting angle, tooth shape and tooth depth on the saw is easy to adjust, with a high precision, sharp and durable.
- Quick adjustments can be made according to the various thicknesses of the coping saw bits.
- The head section can be adjusted or swinged upward or forward willingly, coping and beveling can be made without exchanging the abrasive disk

Technical Specification

MODEL	SG-450
Max Diameter of blade	ø50-ø450
Max distance of the tooth	Max 25
Depth of the tooth	Max 8
Degree	-5°-30°
Feeding speed	45-180 tooth/min
Max thickness of saw blade	Max 8
Diameter of the grinding wheel	ø75 - ø150
Speed of the grinding wheel	4200RPM (60HZ)
Driving motor	1/2HP
Grinding motor	3/4HP
Net weight	130kgs
Packing size (LxWxH)	800mm x 800mm x 1410mm

GAMUT MACHINE TOOLS
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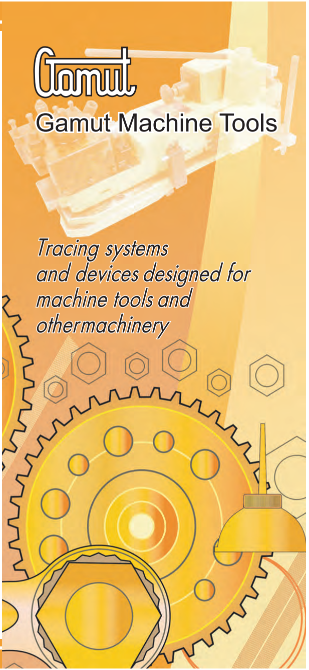

Gamut

Gamut Machine Tools

Tracing systems and devices designed for machine tools and othermachinery