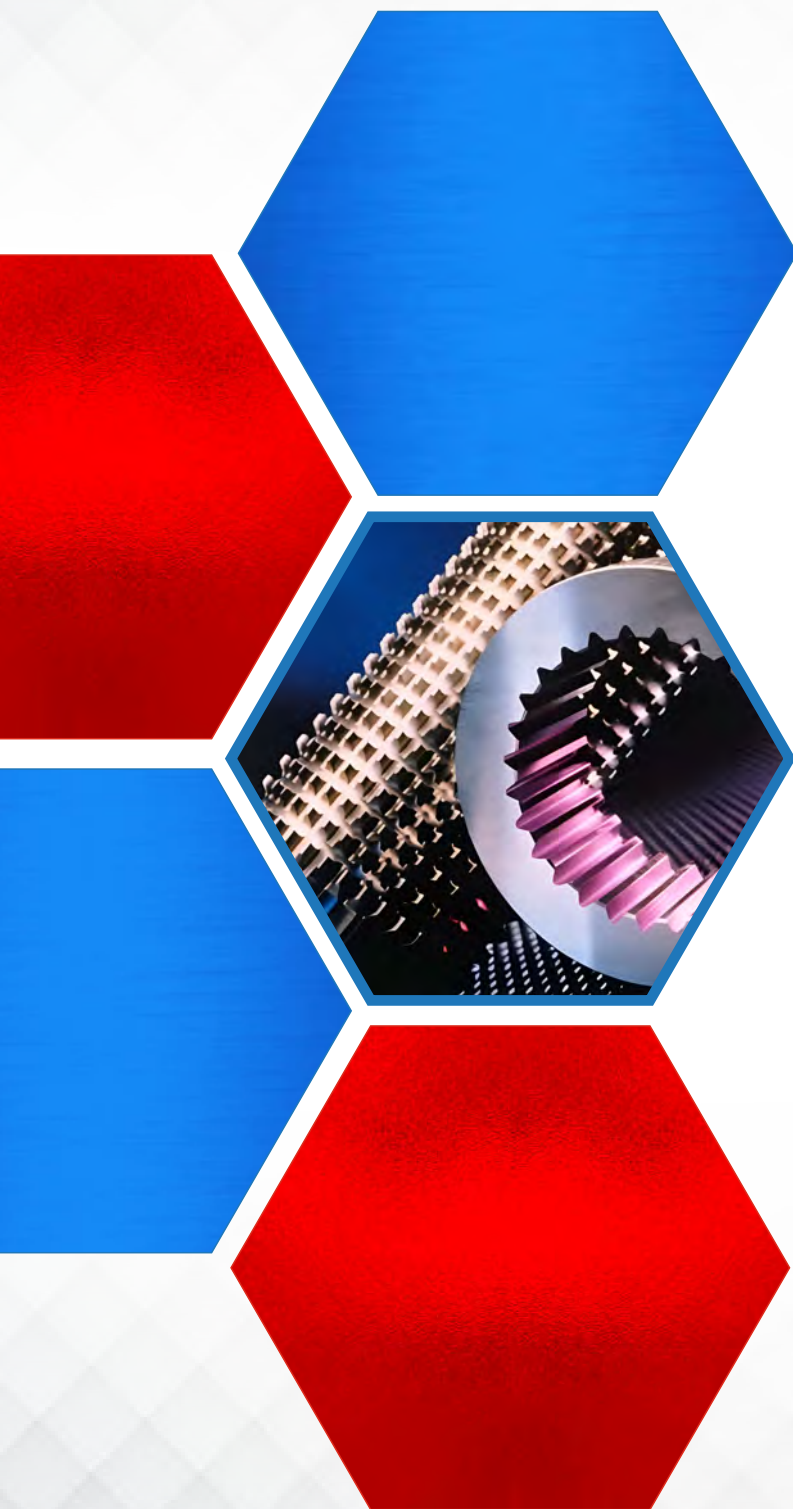


POWER / BROACH TM



BROACHING MACHINES

RÄUMMASCHINEN

BROCCIATRICI

MACHINES À BROCHER

Broaching

Means **POWERBROACH**

POWER BROACH



PRODUCT OF
TOOL ROOM ENGINEERS LLP

TM

About Us

Power Broach is a Brand Product of M/s Tool Room Engineers LLP who are leaders in the Manufacturing of Broaching machines and Fixturing solutions.

Power Broach offers Broaching Machines and Customized Broaching solutions to its valued customers with complete Broaching and Fixturing and Inspection Solutions to almost any kind of component having metal cutting operations. Power broach is committed to continuous quality improvement in all our products. Reliability, maintainability and durability is foremost in our thoughts during design and manufacture of broaching machines. Our broaching machine lineup is constantly being upgraded to improve machine performance.

At Power Broach, we are committed to design and manufacture machines that are made in India as well as Make in India. Our Company is backed by a Passionate and Innovative Team of Skilled & Experienced professionals, having years of expertise in 3-D Designing & Manufacturing. Our Infrastructure comprises of Design Engineers, Latest CNC Machines, Production Engineers and Quality Assurance Team backed by years of experience. Our QC Team uses state of the Art to manufacture a High Performance and Rigid machine every time which is best in terms of Quality and Price. Apart from that, we have a dedicated After Sales Support Team which provides complete After Sales Support to our esteemed customers, including training, Preventive maintenance and any other technical issue. Our Service team is always ready to resolve customer needs.



SCAN ME

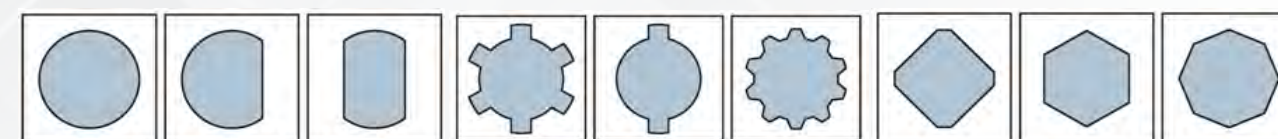


[1]

POWER BROACH

About Broaching

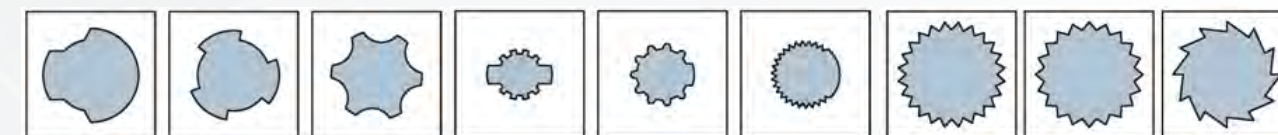
Various Internal profiles can be made through broaching operation. Below mentioned are some examples to show the capability of broaching process. Broaching is a low cost and high volume production process. For each type of profile a special broach tool is made as per the manufacturing drawing. Broach tools are usually made from different grades of HSS (High Speed Steel) and some times they are made from carbide material. Broaching operation can be done practically on all types of materials such as steels, stainless steels, cast iron, aluminium, bronze, nylon and various other materials.



Round Broaching

Spline Broaching

Polygonal Broaching



Special Broaching

Special Broaching

Serration Broaching



[2]

Mission | Vision | Values



Mission | Help Customers Succeed

In machine tools, users do not come to buy equipment but to solve problems they encounter.

Power Broach is not only a manufacturer of broaching machines but also a consultant who accompanies customers to ask questions and solve problems. Our success comes from helping our customers succeed.

Vision | Be the Global leader in Broaching Solution

- Accompany customers to solve their problem
- Refine technology and services
- Solve more complex problems
- Continuously improve technology and services to world-class standards
- Help customers world wide to solve their broaching problems
- Become the global leader in broaching



Values | Integrity, Embracing Change, Lifelong Learning, and Mutual Benefit

Integrity

Integrity is about consistency in commitment and action, in front of and behind people, and in the past and present

Embracing Change

Change brings many problems and represents more needs and opportunities to help customers succeed.

Lifelong Learning

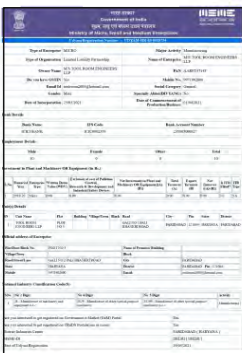
Knowledge expires at the time we learn. Keep learning with a growth mindset help us face change and challenges.

Mutual Benefit

Build positive feedback loops among customers, employees, suppliers, the environment, and society.

CERTIFICATIONS

TOOL ROOM ENGINEERS LLP is an ISO 9001:2015 certified company with annual audits and training. Other certificates such as MSME Registration for the company, CE certification, and the patents for the products, are renewed up to date.



HISTORY

2003

Established in 2003, by our director Mr. S.K Bhalla Company's initial product range included precision receiving gauges and fixtures.



2005

Company started making hydraulic fixtures for VMC & HMC Machines.

2008

Company started making Special purpose machines for OEM customers with advanced automation solutions.

2010

Company developed first horizontal broaching machine for in house facility.



2012

Company developed first vertical broaching machine for in house trials and production. Company got SSI Certification

2015

Power Broach got ISO 9001:2015 certification & MSME approval.

2018

Company developed surface broaching machine for in house facility.

2019

Company sold and installed more than 100 machines pan india for various OEM, Tier-1 & Tier-2 customers.



2021

Company reconstituted to TOOL ROOM ENGINEERS LLP. In the same year company started making higher tonnage machines of capacity 50 tonnes & above.



2022

Company developed high precision broaching machine for Aeronautical Industry.

2025

Reached Sales No. of 400+ successful commissioned Machines

QUALITY MANAGEMENT

QUALITY ASSURANCE

Not only us but also suppliers and customers are involved in the quality system. It helps to do the right thing from the beginning and make sure we do it right in every process.

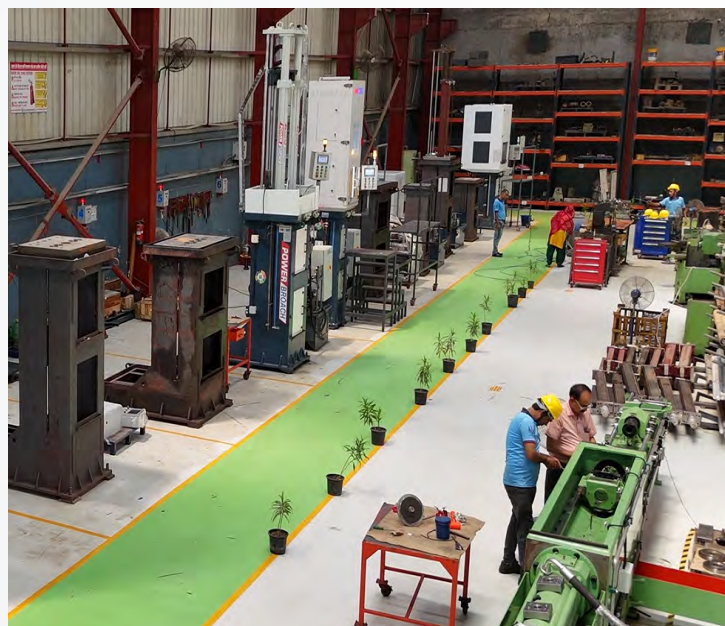
QUALITY CHECK

In manufacturing, there are inspections in the material, the process, and the product. The unqualified parts and the quality improvement of the suppliers are seriously controlled



"Trusted Service, Across Every Distance."

Complete online communication solutions. Most of the all pre-sale, in-sale, and after-sale services & Inspection can be done online, regardless of distance and time constraints.



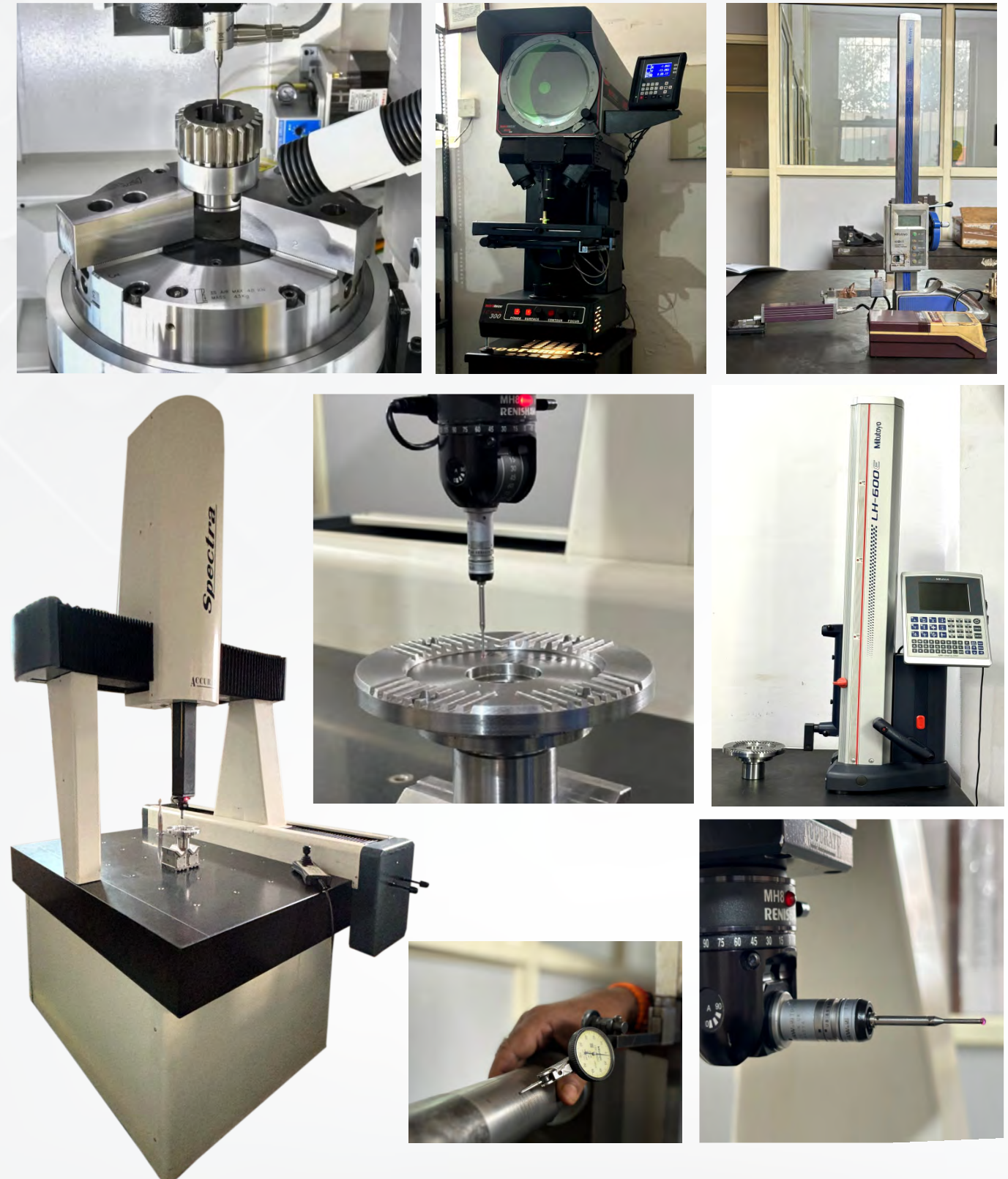
[5]



POWER BROACH

IN HOUSE INSPECTION FACILITIES

We have latest state of the art inspection equipments including Coordinate Measuring Machine, Mitutoyo Linear Height Gauge, Rockwell Hardness Tester, Profile Projector and several other instruments etc. We can provide full support for your product inspection requirements.



[6]

Page
11
Hydraulic Internal
Broaching Machine
VIKAS



Page
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Hydraulic Internal
Broaching Machine
VIKAS
WIDE BED



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Hydraulic Internal
Broaching Machine
ECO



Page
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Servo Hydraulic Internal
Broaching Machine
VB SH



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Notch Broaching Machine
VB SE ATOM



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Servo Electric Internal Pull
Down Broaching Machine
VB SE



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Servo Electric Internal Table-Up
Broaching Machine
VB TU-SE



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25
Servo Hydraulic & Electric Broaching
Machine for Aeronautical Parts
AERO SH SE



Page
27
Servo Hydraulic Surface
Broaching Machine
SB SH

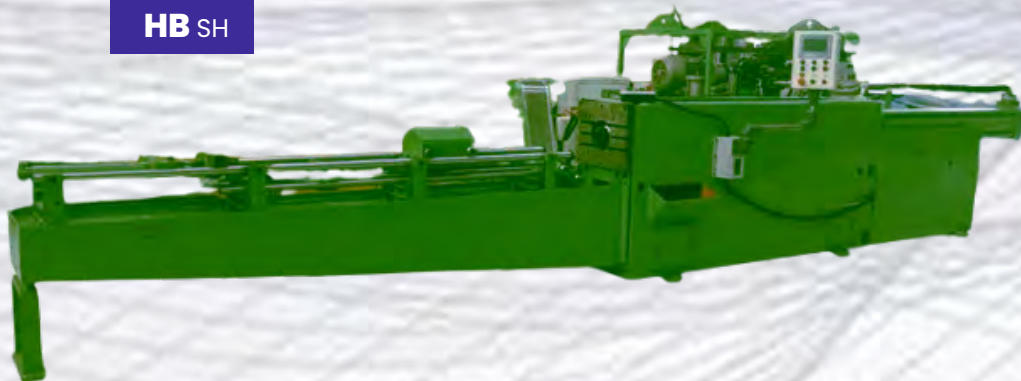


Page
28
Servo Electric Surface
Broaching Machine
SB SE



Broaching Means **POWERBROACH**

Page
30
Servo Hydraulic Horizontal
Broaching Machine
HB SH



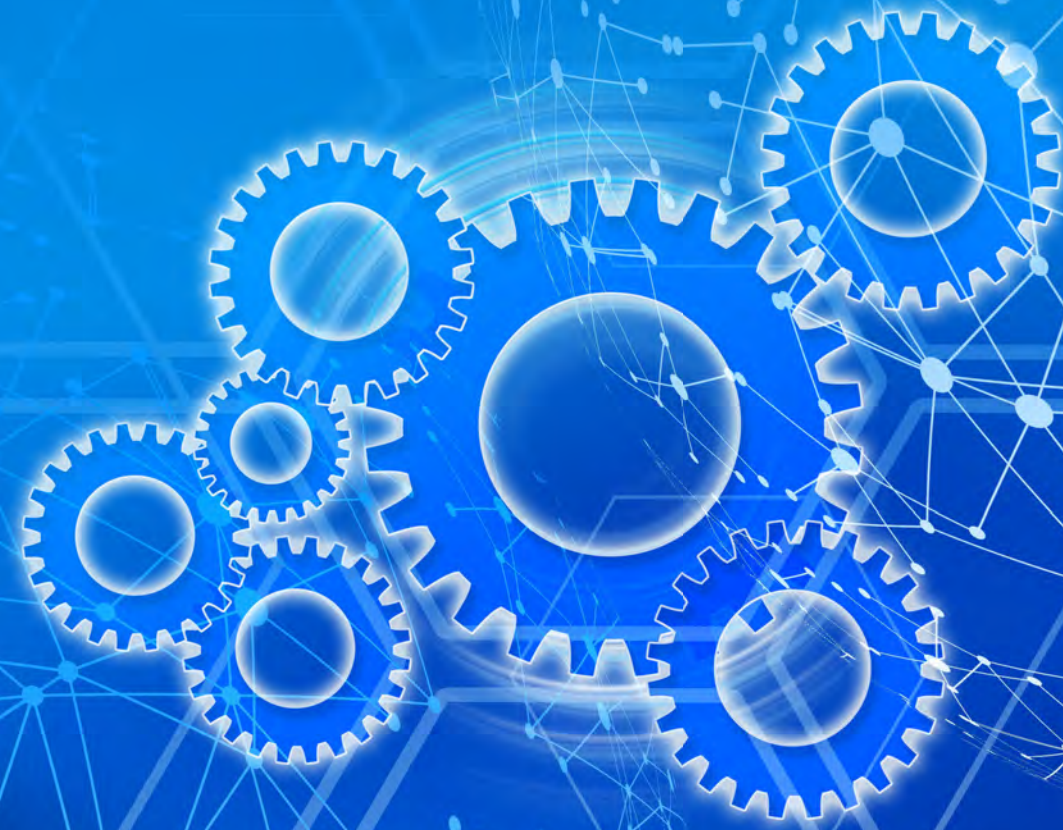
Hydraulic Broaching Machine Series

The classic choice for Broaching Mass Production

Power Broach has various hydraulic broaching solution, including VIKAS, ECO, VB, AERO, WIDE BED series for internal straight broaching, SB series for surface profile broaching. We Provide one-stop complete service including machines, broaches, fixtures and automation

One of The Few Gigantic Broaching Machine Makers in the World

Common hydraulic broaching machines range from 1 to 50 tones. when there is a requirement to go bigger, with a higher pulling force, the difficulty of design and manufacturing increases exponentially, Power Broach supplies up to 100-ton broaching machines, is the only maker in India, and is one of the few major manufacturers of gigantic broaching machines worldwide.



Vertical Broaching Machine Vikas Model

- Dual Push Start Button For Operator Safety
- Broach tool auto return
- Power failure recovery (Machine Start from same position where operation stopped)
- Hard fixture bed plate
- Lubrication pump timer based
- Part Counter display
- Proper control panel for easy operation
- Easy tool stroke adjustment
- Deep Chip carrier and easily removal
- Low power consumption
- Compact foot frame with high rigidity
- Two Puller hanger with machine
- Bed flush coolant (optional)
- Magnetic chip conveyor (optional)
- Hydraulic Oil Air Cooler (optional)
- Broach hanger (optional)
- Laser Safety curtains (optional)



Vikas +

[11]



Highlights

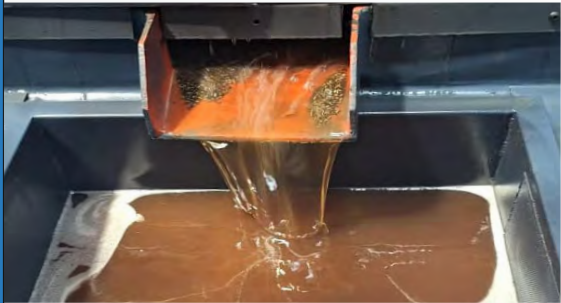
PRODUCT SPECIFICATIONS

Description	Capacity	VIKAS JUNIOR	VIKAS	VIKAS+	VIKAS++
Pulling Force	KN	30	40	50	50
Maximum Stroke/ Tool Length	mm	400 / 600	600 / 800	800 /1000	1000 / 1200
Cutting Speed	m/min	1-4	1-4	1-4	1-4
Return Speed	m/min	6	6	6	6
Bolster Hole Dia	mm	40	60	60	60
Main Motor	Hp	3	5	5	5
Coolant Motor	Lpm	40	40	40	40

Application

- ◆ Commonly used for keyway broaching
- ◆ Small internal diameter
- ◆ Light work
- ◆ Batch production
- ◆ Considering Light broach tools for operator comfort and safety

Media



[12]

VIKAS
WIDE BED

Broaching Force: 5 Ton
Broaching Stroke: 800 - 1200 mm



Vikas + (Wide Bed)



Vikas ++ (Wide Bed)

Wide Bed Broaching Machine Vikas Model

Highlights

- Wide Bed platform for Bigger Jobs
- Dual Push Start Button For Operator Safety
- Broach tool auto return
- Power failure recovery (Machine Start from same position where operation stopped)
- Hard fixture bed plate
- Lubrication pump timer based
- Part Counter display
- Proper control panel for easy operation
- Easily tool stroke adjustment
- Deep Chip carrier and easily removal
- Low power consumption
- Compact foot frame with high rigidity
- Two Puller hanger with machine
- Bed flash through coolant (optional)
- Magnetic chip conveyor (optional)
- Hydraulic Oil Air Cooler (optional)
- Broach holder (optional)
- Laser Safety curtains (optional)



[13]

POWER BROACH

PRODUCT SPECIFICATIONS

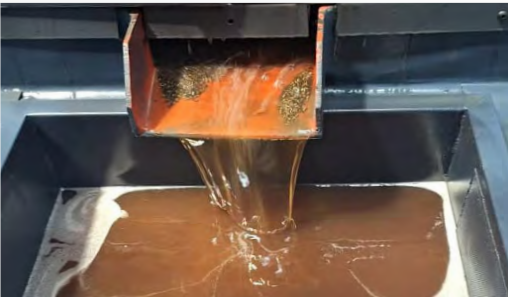
Description	Capacity	VIKAS+ (wide Bed)	VIKAS++ (wide Bed)
Pulling Force	KN	50	50
Maximum Stroke/Tool Length	mm	800/1000	1000/1200
Max. Part Diameter	mm	350	500
Cutting Speed	m/min	1 - 4	1 - 4
Return Speed	m/min	6	6
Bolster Hole Dia	mm	40	60
Main Motor	Hp	5	5
Coolant Motor	Lpm	40	40

Note: Machine for parts having diameter more than 500mm available on special order



SCAN ME

Media



[14]

ECO

Broaching Force: 6 - 20 Ton
Broaching Stroke: 800 - 2000 mm



Hydraulic Internal Broaching Machine

Highlights

- Automatic Broach Retriever cum Follower
- Dual Push Start Button For Operator Safety
- Power failure recovery (Machine Start from same position where operation stopped)
- Hard fixture bed plate
- Lubrication pump timer based
- Easy tool height adjustment
- Deep Chip carrier easily removal
- Low power consumption
- Compact foot frame with high rigidity
- Two Puller hanger with machine
- Bed flash through coolant (optional)
- Broach auto cleaner (optional)
- magnetic chip conveyor (optional)
- Hydraulic Oil Air Cooler (optional)
- Laser Safety curtains (optional)



[15]

POWER BROACH

PRODUCT SPECIFICATIONS

Description	Capacity	COMET	COMET +	STAR	STAR +	GALAXY	GALAXY +	GALAXY + +	NOVA	NOVA +
Pulling Force	KN	60	60	100	100	160	160	160	200	200
Maximum Stroke /	mm	800/1000	1000/1200	1200/1400	1400/1600	1300/1600	1400/1800	1600/2000	1400/1800	1600/2000
Cutting Speed	m/min	1-7	1-7	1-6	1-6	1-6	1-6	1-6	1-6	1-6
Return Speed	m/min	8	8	8	8	8	8	8	8	8
Bolster Hole Dia	mm	60	60	80	80	125	125	125	125	125
Main Motor	Hp	7.5	7.5	10	10	20	20	20	25	25
Coolant Motor	Lpm	40	40	63	63	100	100	100	160	160

- ❖ Bolster Diameter may change as per requirement
- ❖ Tool stroke/ Tool length may change as per requirement
- ❖ Wide Bed available as per requirement
- ❖ PRO : Means Same Model Machine With Full Canopy



2 - Station
(optional)



3 - Station
(optional)



VB-6T SH



VB-30T SH



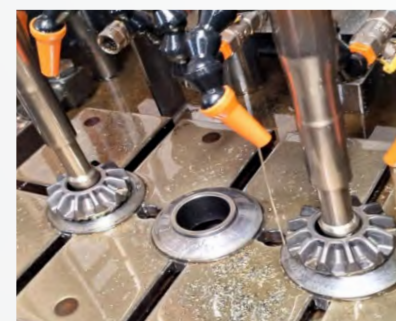
ECO COMET PRO

Media



These are economical design for general broaching application even through maintaining on accuracy parameter required for broaching application commonly used:-

- 1- Gear Industries
- 2- Automotive parts
- 3- Railways Parts
- 4- Tractors Part
- 5- Earth Moving Industries etc.



[16]

Servo Hydraulic & Electric Broaching Machine Series

Go Green with POWER BROACH

A Broaching machine with a Servo Operated System is more Precise and Environmentally friendly, with lower noise and energy consumption.
The Savings in energy consumption can be to 40%

POWER BROACH

Help customers succeed
Sustainable coexistence with the Earth

VB
SH
SE
TU-SE

SB
SH
SE

AERO
SH
SE

HB
SH

VB SH

Broaching Force: 6 - 50 Ton

Broaching Stroke: 800 - 2000 mm



VB-6T SH-Pro

VB-10T SH

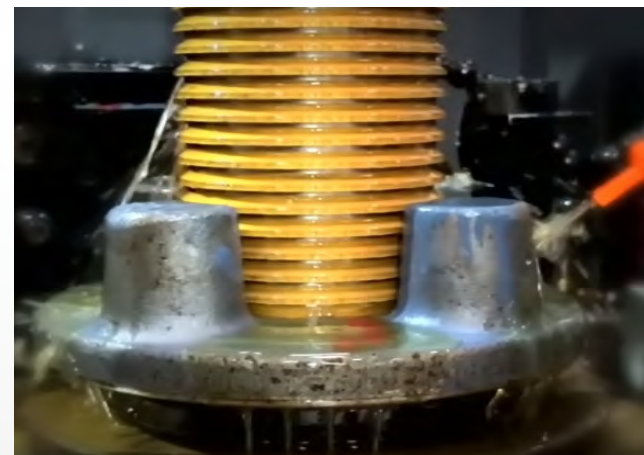
VB-50T SH

Servo Hydraulic Internal Broaching Machine

Highlights

- Touch Screen Human Machine Interface
- Automatic Broach Retriever cum Follower
- Tool Management Chart (48 memory)
- Tool Load Monitoring
- Intelligent Machine Software PB GEN-5.21 (PAGE NO. - 32)
- Programmable Coolant Function
- Dual Push Start Button For Operator Safety
- Power failure recovery (Machine Start from same Position where operation stopped)
- Hard fixture bed plate
- Lubrication pump timer based
- Easy tool height adjustment
- Deep Chip carrier easily removal
- Low power consumption
- Compact foot frame with high rigidity
- Two Puller hanger with machine
- Bed flush coolant (optional)
- Broach auto cleaner (optional)
- Magnetic chip conveyor (optional)
- Hydraulic Oil Air Cooler/ chiller (optional)
- Digital Height control (optional)
- Laser Safety Curtains (optional)

Servo Hydraulic Broaching machines apply the cutting-edge broaching technology for advances precision, longer tool life, and better power efficiency.



[19]

POWER BROACH

PRODUCT SPECIFICATIONS

Description	Capacity	VB-6T SH	VB-10T SH	VB-16T SH	VB-20T SH	VB-25T SH	VB-30T SH	VB-40T SH	VB-50T SH
Pulling Force	KN	60	100	160	200	250	300	400	500
Maximum Stroke/ Tool Length	mm	800/1000	1200/1400	1300/1600	1400/1800	1600/2000	1600/1800	1600/1800	1800/2000
Cutting Speed	m/min	1-7	1-6	1-6	1-6	1-5	1-5	1-5	1-5
Return Speed	m/min	8-12	8-10	8-10	8-10	7-9	7-9	6-8	6-8
Bolster Hole Dia	mm	60	80	125	125	150	200	200	250
Main Motor	Hp	10	15	20	25	30	40	50	60
Coolant Motor	Lpm	40	63	100	100	160	250	250	250

- ❖ Bolster Diameter may change as per requirement
- ❖ Tool stroke/ Tool length may change as per requirement
- ❖ Wide Bed available as per requirement
- ❖ PRO : Means Same Model Machine With Full Canopy

★ SH - SERVO HYDRAULIC



2 - Station
(optional)



3 - Station
(optional)



VB-6T SH



VB-6T SH
(WIDE BED)
Alloy Wheel



VB-20 SH



VB-30T SH

Media



[20]

ROBOTIC AUTOMATION

All the machines can be customised for robot interfacing for automatic loading & unloading of components.



ROBOTIC
AUTOMATION

VB SE ATOM

* SE:- Servo Electric

Broaching Force: 1 - 3 Ton
Broaching Stroke: 400 - 800 mm

Generally known as :

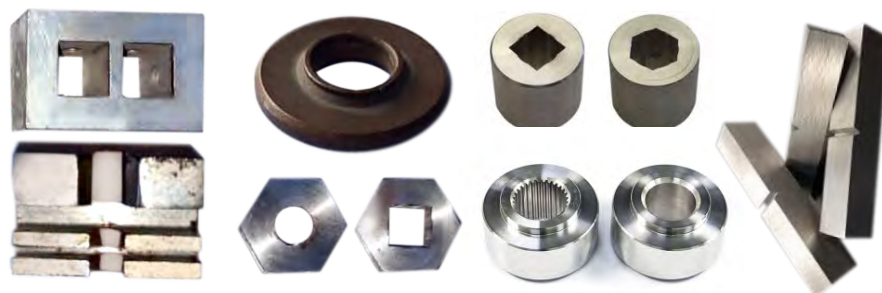
NOTCH BROACHING MACHINE

SERVO ELECTRIC - PULL DOWN

TECHNICAL SPECIFICATIONS

Model	VB 1T SE ATOM	VB 2T SE ATOM	VB 3T SE ATOM
Driving Mode	Servo Electric Motorized	Servo Electric Motorized	Servo Electric Motorized
Cutting Speed(m/min)	6~8	6~8	6~8
Return Speed(m/min)	8~10	8~10	8~10
Bolster Diameter (mm)	40 mm	50 mm	80 mm
Tool stroke (mm)	400 mm	600 mm	800 mm
Power	1.5 Kw	3 Kw	4 Kw

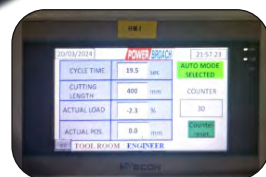
Two blade, U and V type, extra blade as spare parts are available



Servo Electrical Internal Broaching Machine

Machine Features

- Robust design, cuts the notches (V or U) very accurately
- Specially designed multi-toothed broach.
- Simple to use, accurate & reliable.
- No efforts, all by servo motorized operation, Just to press a Push button to start.
- Equipped with broach guard for safety.
- Easy removal & assembly of broach & Longer broach Life.
- Ball Screw for uniform cutting action.
- Hardend chrome rods with self lubricated GUN metal bushes for smooth motion.
- Digital HMI 4 inches for fine feed.
- Excellent broaching finish & Excellent Repeatability.
- Front door access for easy maintenance.
- Complete servo system for easy control & power saving mode.
- Power failure recovery (Machine Start from same position where operation stopped)



VB SE

* SE:- Servo Electric

Pulling Capacity : 50 - 250 KN
Broaching Stroke : 800 - 2000 MM

SERVO ELECTRIC INTERNAL PULL DOWN BROACHING MACHINE

Machine Features

- ✓ Servo Motor + Precision Screw Drive → Provides consistent low-vibration broaching, increasing tool life by up to 25%.
- ✓ Energy Efficient → Compared to traditional hydraulic machines, the electrical mechanical design saves up to 50% electricity.
- ✓ User-Friendly Software Screen Makes operation and diagnostics easy.
- ✓ Flexible Settings → Broaching speed and stroke can be adjusted via HMI.
- ✓ Vibration Reduction → Broach retriever holds the broach firmly, reducing vibration during broaching.
- ✓ Safety & Maintenance → CE-certified safety design with easy maintenance
- ✓ Intelligent Machine Software PB GEN-5.21



2 - Station
(optional)



3 - Station
(optional)

PRODUCT SPECIFICATIONS

TABLE-UP BROACHING MACHINE	Description	Units	VB-5T SE	VB-10T SE	VB-15T SE	VB-20T SE	VB-25T SE
	Pulling Force	KN	50	100	150	200	250
	Maximum Stroke	mm	1000	1400	1600	2000	2000
	Cutting Speed	m/min. 60 Hz	8	8	8	10	10
	Return Speed	m/min. 60 Hz	12	12	12	12	12
	Max. WorkPiece Outer Diameter	mm	150	220	250	250	300
	Main Motor	KW	5.5	11	15	22	30
	Coolant Pressure	LPM	63	100	160	160	250

❖ Main Motor Configuration can be single or twin as per Model

SERVO ELECTRIC INTERNAL TABLE-UP BROACHING MACHINE

Pulling Capacity : 50 - 250 KN
Broaching Stroke : 800 - 2000 MM



2 - Station
(optional)



3 - Station
(optional)

Machine Features

- ✓ Servo Motor + Precision Screw Drive → Provides consistent low-vibration broaching, increasing tool life by up to 25%.
- ✓ Energy Efficient → Compared to traditional hydraulic machines, the electrical mechanical design saves up to 50% electricity.
- ✓ User-Friendly Software Screen Makes operation and diagnostics easy.
- ✓ Flexible Settings → Broaching speed and stroke can be adjusted via HMI.
- ✓ Simple Installation → Low working height, no need for digging pits.
- ✓ Vibration Reduction → Broach retriever holds the broach firmly, reducing vibration during broaching.
- ✓ Safety & Maintenance → CE-certified safety design with easy maintenance
- ✓ Intelligent Machine Software
PB GEN-5.21

Media



[23]

PRODUCT SPECIFICATIONS

TABLE-UP BROACHING MACHINE	Description	Units	VB-5T ^{TU SE}	VB-10T ^{TU SE}	VB-15T ^{TU SE}	VB-20T ^{TU SE}	VB-25T ^{TU SE}
	Pulling Force	KN	50	100	150	200	250
	Maximum Stroke	mm	1000	1400	1600	2000	2000
	Cutting Speed	m/min. 60 Hz	8	8	8	10	10
	Return Speed	m/min. 60 Hz	12	12	12	12	12
	Max. WorkPiece Outer Diameter	mm	150	220	250	250	300
	Main Motor	KW	5.5	11	15	22	30
	Working Height (Approx.)	mm	900	1000	1000	1100	1150

- ❖ Main Motor Configuration can be single or twin as per Model
- ❖ Tool stroke/ Tool length may change as per requirement
- ❖ Wide Bed available as per requirement

Broach Pullers

Pullers are a critical component in broaching operations, ensuring smooth and precise movement of the broach through the workpiece. We manufacture and supply high-quality pullers designed specifically for Vertical and Horizontal Broaching Machines. Our Pullers are engineered for durability, accuracy, and easy interchangeability, helping you achieve consistent production results.

Available in various sizes and configurations, our broach pullers are suitable for a wide range of applications and materials. Whether you require standard pullers or customized solutions, we provide reliable products that minimize downtime and extend the life of your broaching tools.



Key Features:

- Manufactured as per DIN 1417 standards, with other international standards available on request
- Precision-machined for accurate alignment
- Heavy-duty construction for long service life
- Compatible with multiple machine models and brands
- Available in both standard and tailor-made designs
- Ensures secure holding and smooth operation of broaches
- Easy to replace and maintain, reducing machine downtime

[24]

AERO_{SH}
(SERVO-HYDRAULIC MODEL)

AERO_{SE}
(SERVO-ELECTRIC MODEL)

Broaching Force: 6 - 10 Ton
Broaching Stroke: 600 - 1200 mm

Creating
World Class
Broaching
Machines



From shop floor to sky – Powerbroach, with its new AERO Series machines now delivers super precision aviation parts for demanding applications .

High Precision Broaching Machine
Aero Series

Description	Capacity	AERO-6T	AERO-10T
Pulling Force	KN	60	100
Maximum Stroke/ Tool Length	mm	600/800	1000/1200
Cutting Speed	m/min	1-6	1-6
Return Speed	m/min	8-10	8-10
Broach Lifter Stroke	mm	200	400
Bolster Hole Dia	mm	60	80
Main Motor	Hp	10	15
Coolant Motor	Lpm	63	63

◆ Bolster Diameter may change as per requirement



Machine Features

- Touch Screen Human Machine Interface
- Automatic Broach Retriever cum Follower
- Hydraulic Oil Air Chiller (for Servo Hydraulic Models)
- Tool Management Chart (48 memory)
- Tool Load Monitoring
- Intelligent Machine Software **PB GEN-5.21 (PAGE NO. - 32)**
- Programmable Coolant Function
- Dual Push Start Button For Operator Safety
- Digital speed control and programable

SB SH

POWER BROACH
www.powerbroach.com

Broaching Force: 2 - 50 Ton

Broaching Stroke: 400 -1800 mm



Surface Broaching Machine

Highlights

- Broaching the external surface of work pieces
- Accurate positioning, high speed broaching, high accuracy
- Make complicated surface profile in one-pass
- Heavy duty design, build for last 25 years experience in fixture design
- Touch Screen Human Machine Interface
- Automatic Broach Retriever cum Follower
- Hydraulic Oil Air Cooler / Chiller
- Tool Management Chart (48 Memory)
- Tool Load Monitoring
- Intelligent Machine Software **PB GEN-5.21** (PAGE NO. - 32)
- Programmable Coolant Function
- Dual Push Start Button For Operator Safety
- Steepless broaching speed adjustment
- Automatic loading/ unloading devices are optional
- CE specification based on requirement
- Digital height control



Surface broaching is 2X to 10X faster than milling, grinding and any other machine

Contact us to put wings on your Productivity.

[27]

SB SE
* Servo Electric
Surface Broaching Machine

POWER BROACH
www.powerbroach.com

Pulling Capacity : 50 - 250 KN

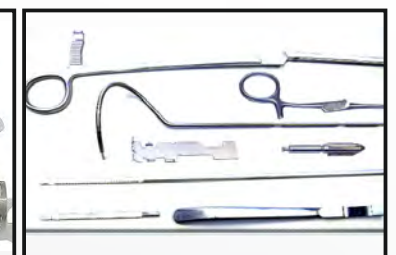
Broaching Stroke : 800 - 2000 MM



SERVO ELECTRIC SURFACE BROACHING MACHINE

Machine Features

- ✓ Servo Motor + Precision Screw Drive → Provides consistent low-vibration broaching, increasing tool life by up to 25%.
- ✓ Energy Efficient → Compared to traditional hydraulic machines, the electrical mechanical design saves up to 50% electricity.
- ✓ User-Friendly Software Screen Makes operation and diagnostics easy.
- ✓ Flexible Settings → Broaching speed and stroke can be adjusted via HMI.
- ✓ Simple Installation → Low working height, no need for digging pits.
- ✓ Vibration Reduction → Broach retriever holds the broach firmly, reducing vibration during broaching.
- ✓ Safety & Maintenance → CE-certified safety design with easy maintenance
- ✓ Intelligent Machine Software **PB GEN-5.21**



[28]

PRODUCT SPECIFICATIONS

Description	Capacity	SB-6T _{SH}	SB-10T _{SH}	SB-16T _{SH}	SB-20T _{SH}	SB-25T _{SH}
Pulling Force	KN	60	100	160	200	250
Maximum Stroke	mm	400	800	1200	1600	2000
Cutting Speed	m/min	1-7	1-7	1-6	1-6	1-5
Return Speed	m/min	6-8	6-8	6-8	6-8	6-8
Ram width	mm	150	250	350	380	430
Main Motor	Hp	10	15	20	25	30
Coolant Motor	Lpm	40	63	100	160	250

Note : Tool stroke/ Tool length may change as per requirement



SB-6T SH



SB-20T SH

PRODUCT SPECIFICATIONS

SURFACE BROACHING MACHINE	Description	Units	SB-5T _{SE}	SB-10T _{SE}	SB-15T _{SE}	SB-20T _{SE}	SB-25T _{SE}
	Pulling Force	KN	50	100	150	200	250
	Maximum Stroke	mm	600	1000	1400/1600	1600/1800	1600/1800
	Cutting Speed	m/min. 60 Hz	8	8	8	10	10
	Return Speed	m/min. 60 Hz	12	12	12	12	12
	Ram width	mm	300	350	450	500	550
	Main Motor	KW	5.5	11	15	22	30
	Machine Height (Approx.)	mm	2000	2500	3600	4000	4500

Note : Above specifications are subject to change over time as PowerBroach continuously Updates the machine models.

HORIZONTAL BROACHING MACHINE



HIGHLIGHTS (HB SERIES)

- One (1) No. Digital Speed & Force Control
- One (1) No. 7" HMI Touch Screen Human Machine Interface
- Hydraulic System Gives Infinity Variable Cutting Speeds
- Dead Constant Draw Speeds Ensure Optimum Tool Life and Fine Surface Finish
- Automatic Broach Retriever cum Follower
- Dual Push Start Button For Operator Safety
- Power failure recovery (Machine Start from same position where operation stopped)
- Hard fixture bed plate
- Easy tool Length adjustment
- Lubrication pump timer based
- Deep Chip carrier easily removal
- Low power consumption
- Compact foot frame with high rigidity
- Two Puller hanger with machine
- Bed flash through coolant (optional)
- Magnetic chip conveyor (optional)
- Hydraulic Oil Air Cooler (optional)

PRODUCT SPECIFICATIONS

Discription	HB 5T	HB 16T
Tractive Force (Minimum) (kg)	5000	16000
Stroke (Minimum) (mm)	1320	1600
Cutting Speed (m/min) (Digital Variable)	1-10	1-6
Return Speed (Digital Variable)	6-10	4-8
Total Power	6.5	30
Work piece Dia with Coolant Guard (Maximum)	200	500
Work piece Height when using Broach Feeder (Maximum)	120	300
Broach Dia. With Std. Accessories: DIN 1417 (Maximum)	32	90
Clearance between Guide ways (Minimum)	150	250
Dia. Of Bore in Machine Bed (optional)	80/100	150/200
Dia. Of Bore in Broach Ram: (Minimum)	60	80
Hydraulic Oil Capacity(Minimum)	180	450
Coolant Oil Capacity	80	180
Broach Shank Dia. (Maximum)	25	50

Software PB Gen 5.21 Features

POWER BROACH PATENT SOFTWARE	OLD VERSION	VERSION 22-24	VERSION 25
Features	PB Gen-5	PB Gen-5.1	PB Gen-5.21
7 inch HMI	Y	Y	Y
48 Tool Memory	N	Y	Y
Digitally speed control	N	Y	Y
Programmable	N	Y	Y
Power Saving	N	Y	Y
History	Y	Y	Y
Tool management chart	Y	Y	Y
Component bore undersize notification	N	Y	Y
Crawling Speed Up	N	Y	Y
Crawling Speed Down	N	N	Y
Soft opening Puller jaws	N	Y	Y
Power failure Restart functoin	N	Y	Y
Robo interface ready	N	Y	Y
Live Load on Tool	N	Y	Y
Tool blunting Notification	N	Y	Y
Bed Flush Coolant Commandable	N	Y	Y
Auto cleaner Programmable	N	Y	Y
D.P.S. (Double Pass Safety)	N	N	Y
Coolant Flow Programmable	N	N	Y

Note: PB Gen-5.1 to PB Gen-5.21 version is upgradable for few features. Please contact your local Powerbroach company representative.

POWER BROACH MOMENTS





POWER / BROACH™

PRODUCT OF

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