

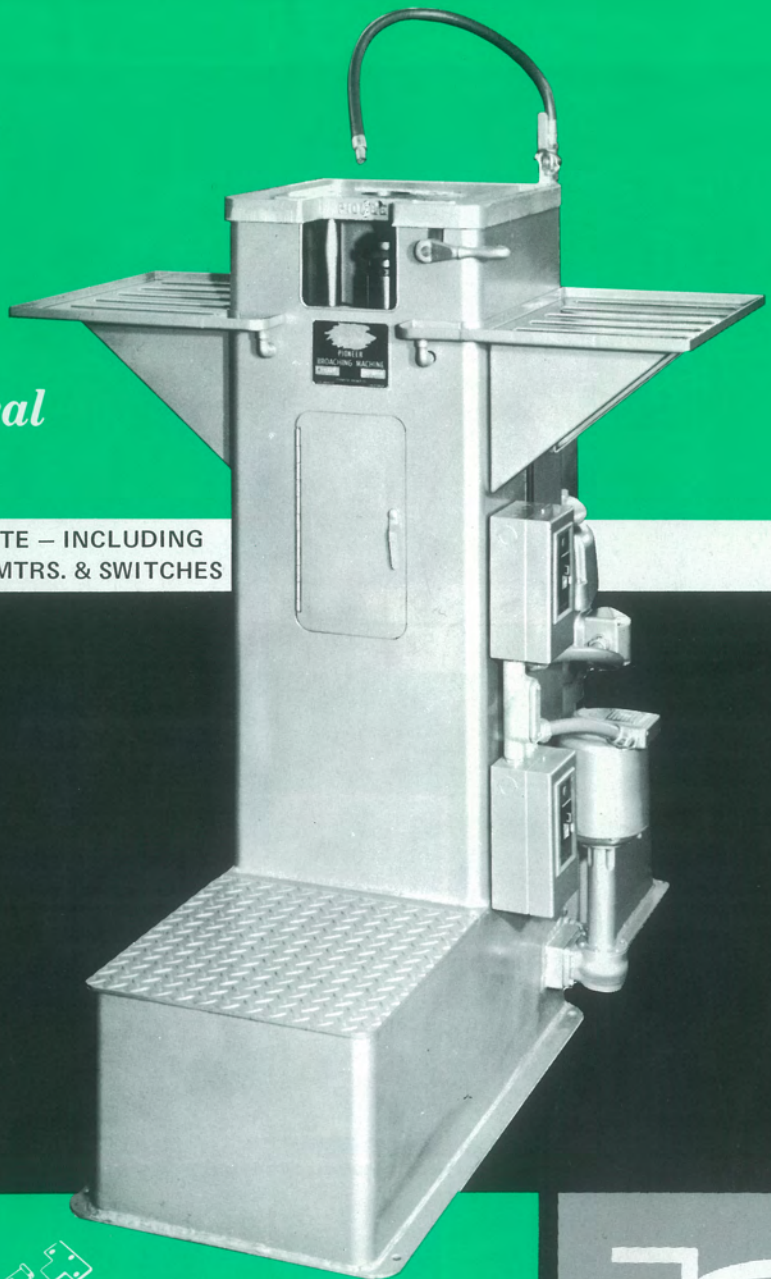
PIONEER

MODEL VT315

accurate

simple

economical



\$ COMPLETE — INCLUDING
F.O.B. L.A. PUMPS, MTRS. & SWITCHES



3 Ton
Pull

15" Stroke



(213) 728-1263 • FAX (213) 889-8488
(800) 621-1945 OUTSIDE CALIF.

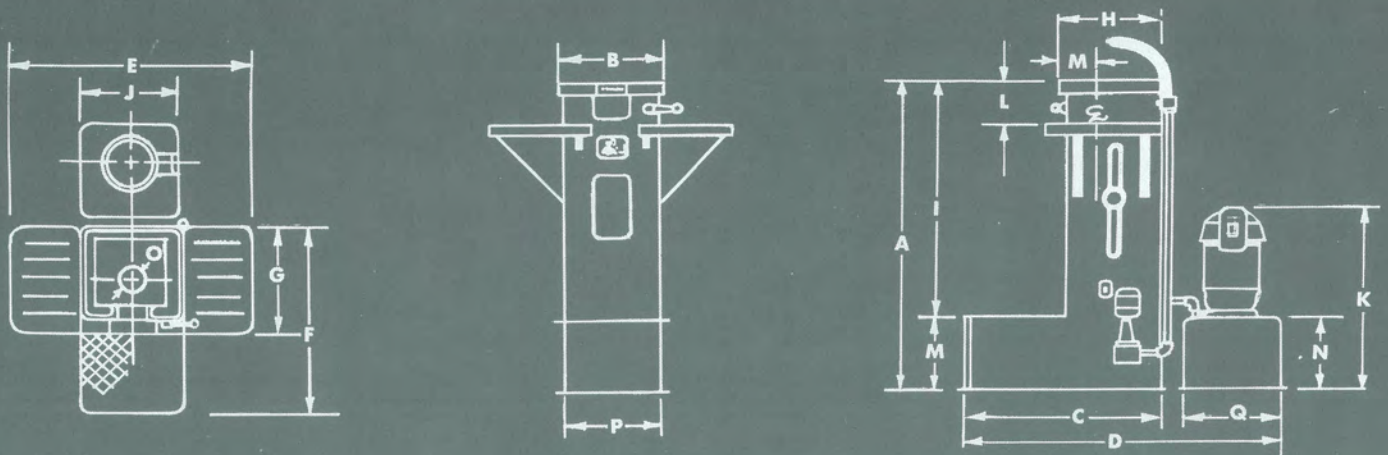
PIONEER MODEL VT315 SERIES BROACHING MACHINES . . .

are low in cost and feature simplicity of "set up" and operation. Capacity covers a multitude of internal and surface broaching operations. Work table is clear of any obstructions permitting unlimited range in size of work piece. Sturdy construction assures continual uninterrupted production performance. Pioneer also makes available immediate delivery on standard stock internal broaches and accessories.

The VT315 utilizes a piston type variable flow hydraulic pump and a 5 H.P. motor. This provides fully adjustable cutting speeds up to 35 feet per minute and return speed of 70 F.P.M.

Field tested for over 20 years, with hundreds of enthusiastic users, Pioneer Model VT315 is America's fastest selling Broaching Machine.

NOTE: A push button operated electro hydraulic version is available as special order.



GENERAL DIMENSIONS
VT315

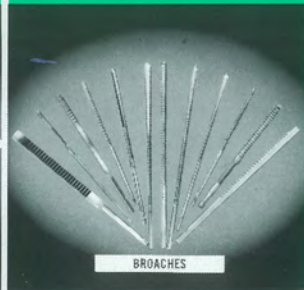
	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
VT315	53	16¼	33¼	52	42	32¾	19	16¼	40	16	30	6¾	13	16⅞	3	18¾	18

ACCESSORIES AVAILABLE AS EXTRAS

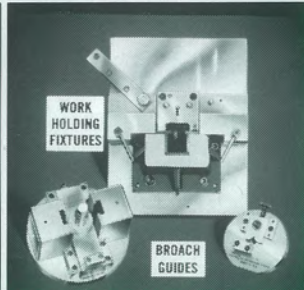
PULLERS



BROACHES



FACE PLATES
KEYWAY HORNS



WORK
HOLDING FIXTURES
BROACH GUIDES

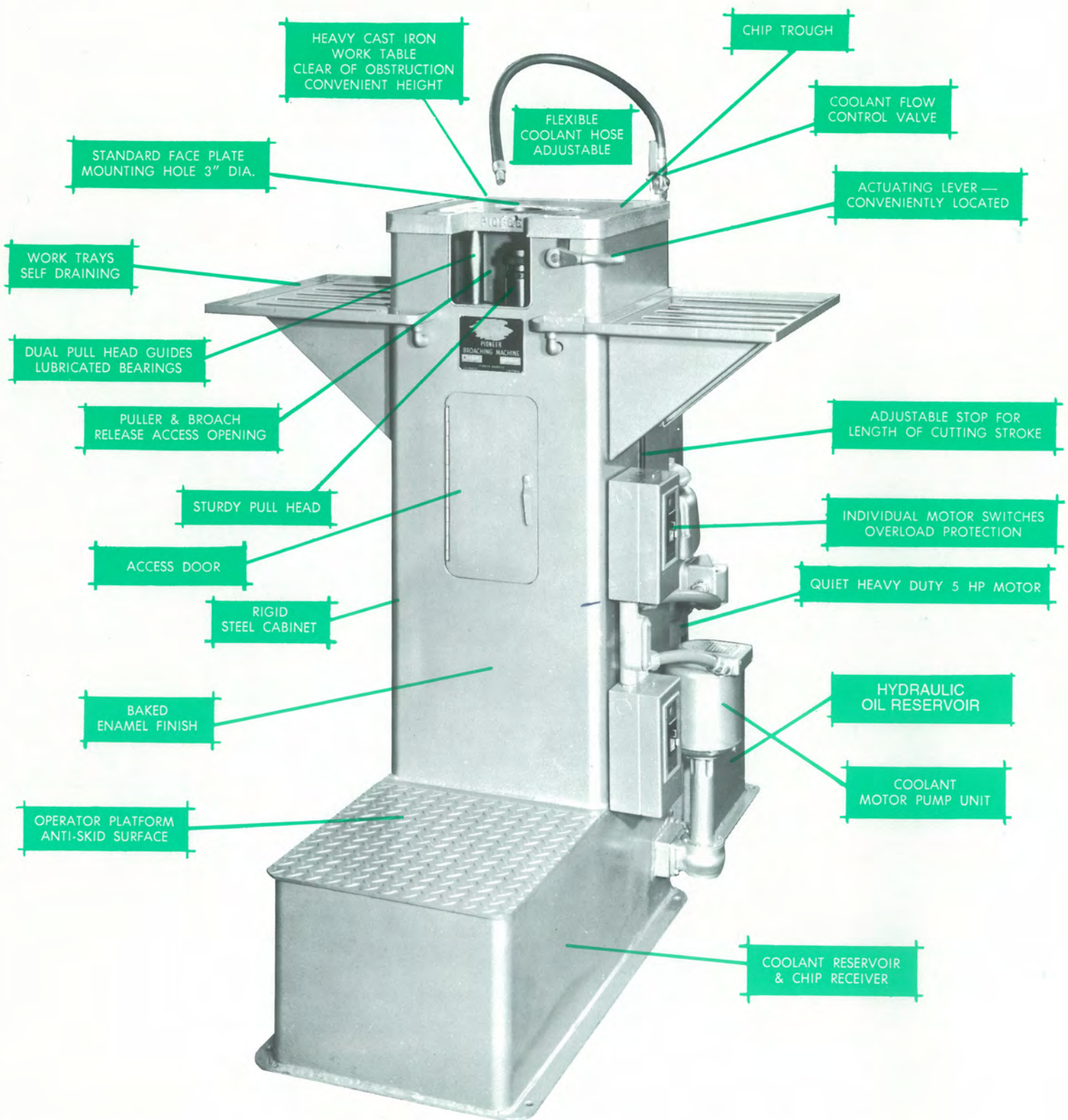
GENERAL SPECIFICATIONS

	VT315
CAPACITIES	
Normal Pull—Tons	3
Max. Stroke—Inches	15
SPEEDS	
Cutting F.P.M.	35
Return F.P.M.	70
MACHINE DATA	
Max. Work Dia.	Unlimited
Bore in Work Table	3"
Pull Head to Table Bottom	4½"
Threaded Receiver for Pullers	2" - 8P
HYDRAULIC EQUIP.	
Speed—R.P.M.	1800
Capacity—Oil	
Reservoir—Gals.	14
Cap.—Coolant	
Reservoir—Gals.	23
MOTORS	
Main Motor—H.P.	5
Main Motor—Speed R.P.M.	1800
Coolant Pump Motor—H.P.	1/10
Standard Voltages (3 Ph., 60 cycle)	220/440
SHIPPING DATA	
Net Weight—lbs.	800
Domestic Shipping Weight—lbs.	825
Export Shipping Weight—lbs.	900

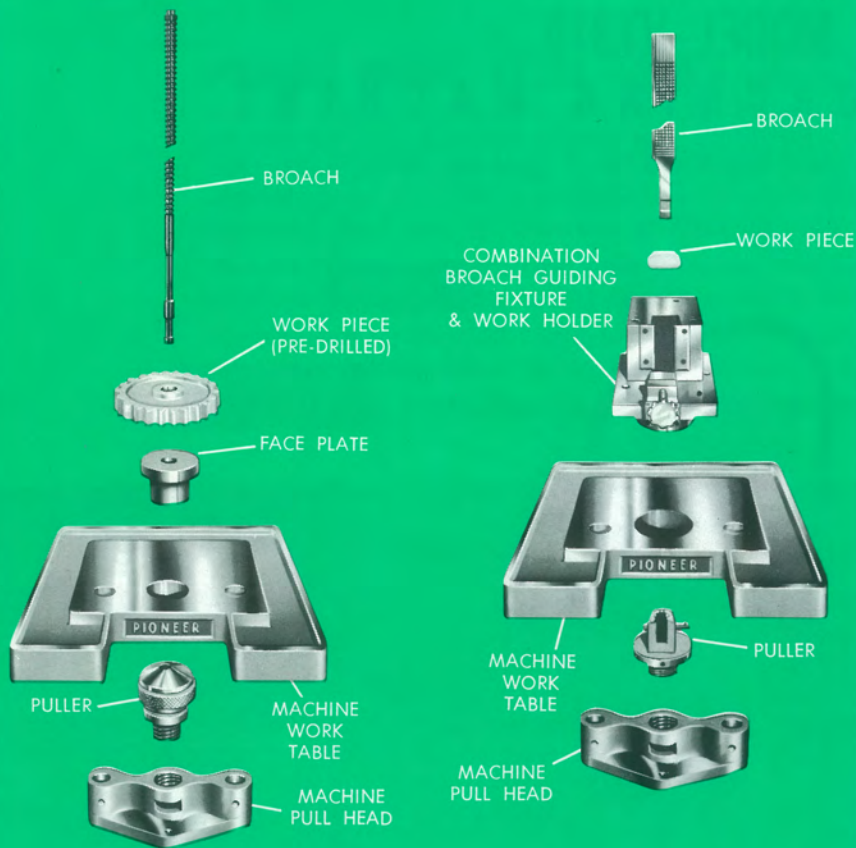
PIONEER MODEL VT315

VERTICAL BROACHING MACHINE

MOTORIZED • FULLY HYDRAULIC • PULL DOWN



PIONEER BROACH COMPANY
 6434 TELEGRAPH ROAD • LOS ANGELES, CALIFORNIA 90040
 (213) 728-1263 • FAX (213) 889-8488 • (800) 621-1945 OUTSIDE CALIF.



INTERNAL

SURFACE

NO DIALS TO TURN

IT'S AS EASY AS THIS:

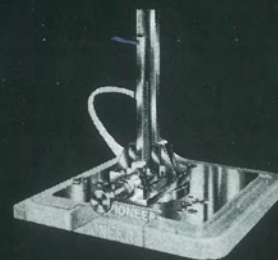
1. Mount FACE PLATE or FIXTURE in hole or on Surface of Work Table.
2. Insert correct PULLER in PULL HEAD.
3. Insert BROACH through FIXTURE, into PULLER. Align and fasten PULLER and FACE PLATE FIXTURE. Adjust machine for correct length of stroke.
4. INTERNAL BROACHING—
Remove BROACH. Place work on FACE PLATE. Insert BROACH through work and lock in PULLER.
SURFACE BROACHING—
Lock BROACH in PULLER. Insert work in FIXTURE.
5. Turn on COOLANT FLOW to lubricate BROACH TEETH.

MACHINE IS READY FOR OPERATION.

Broaching is one of the most efficient and economical methods of accurately machining metals to close tolerances. Many types of cuts and intricate holes can only be properly machined by broaching. Depth, form, and precision are inherent in the tools and operator responsibility is minimized.

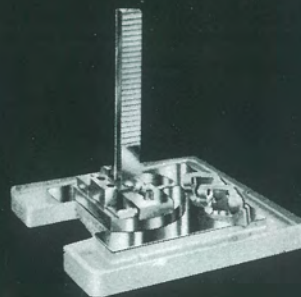
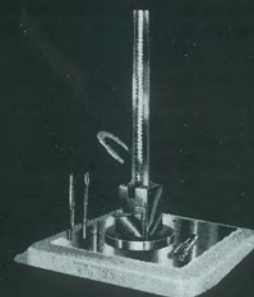
EXAMPLES OF BROACHING ON THE VT315

SURFACE BROACHING RADIUS AND NOTCHED FORM



INTERNAL PULL BROACHING ROUND HOLES TO ± .0001

KEYWAY BROACHING



INTERNAL BROACHING OF RECTANGULAR OPENING

Our complete and modern plant is fully equipped to assist you with any of your broaching requirements. For quotations and engineering data, send prints or specifications to Sales Mgr., Pioneer Broach Company, 6434 Telegraph Road, Los Angeles, California 90040.