

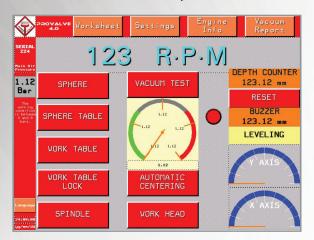
4.0

## Valve Seat and Guide Machine



# PROVALVE

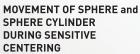
12 inches H.M.I. (Color Touch Operator Panel)

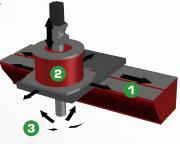


- 2 HANDLE WITH MICROSWITCH
  - Handle with microswitch is on the work-head for horizantal movement of the work-head
- 3 MOVEMENTS of FRICTION FREE AIR CUSHIONS

### HORIZANTAL MOVEMENT OF WORK-HEAD

1) Longitudinal horizantal movement of work-head by friction free air cushion 1000 mm





- 2) Front back right left as radius movement of sphere cylinder by friction free air cushion 15 mm.
- 3) Spindle inclination in all directions by spherical bearing by friction free air cushion 7 degree

## 4 VERTICAL COLUMN BODY & PROTECTION CLOTH BELLOWS



- The vertical column body made of monoblock cast-iron
- There are protection cloth bellows on the vertical column slides to the right and to the left for protect from dust.
- 5 LED LIGHTING
  - LED lighting for an increased light ratio and a better energy saving.
- 6 CUTTING INSERT SHARPENER
  - Diamond wheel cutting bit sharpener for fast easy sharpening of single angle and three angle tool bits mounted on machine.

#### **SPINDLE**

- a) Spindle rotation by A.C Servo motor with constant torque coupled planetary helical gear reducer.
- b) Infinitely variable speed from 0 to 600 r.p.m
- c) It is long life and maintenance free.
- d) The spindle motor provides constant a torque at variable speeds when machining valve seats
- e) Spindle cover with diameter 80 mm. hardened and plated hard chrome
- f) The cone standard of spindle ISO 30.
- g) Spindle movement up-down 250 mm
- h) Spindle stroke steering wheel for rapid and fine feed mechanism

#### **8** TOOLING STORAGE CABINET



- a) Three drawers and a top tray allows convenient storage of a wide selection of tooling
- **b)** The mounted arm of tooling storage cabinet swivels 130 degrees.

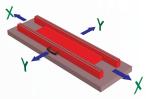
DIMENSIONS of TOOLING STROGE CABINET L350x D280 x H310 mm.

9 SINGLE AXIS ROLL-OVER FIXTURE



 Cylinder head clamping system that combined a side clamps for cylinder head, used for different angles with a universal mechanical fixture and rotatable adjustable 360° also for simple and combined angles.

#### **10** WORK – TABLE



X: 200 mm. Y: 220 mm.

- a) The work-table is made of rigid cast-iron.
- b) The work-table move free all directions on the table bed rigid platform by friction free air cushion.
- c) Locking of work-table is done by providing aconstant vacuum pressure through 2 th vacuum pump motor.
- 11 MAIN BASE
  - The main base body made of monoblock cast-iron
- 12 VACUUM TESTING
  - a) Vacuum test is done by providing a constant vacuum pressure through 1 th vacuum pump motor.
  - b) The machine contains vacuum pipe, vacuum filter and pads with foam

SIZE OF VACUUM PADS (8) Ø40 mm / Ø50 mm / Ø60 mm / Ø75 mm 50x65 mm / 50x80 mm / 60x90 mm / 60x150 mm

## Valve Seat and Guide Machine

TECHNICIAL SPECIFICATIONS	4.0
-Machining capacity of valve seat (minmax.)	Ø18 – Ø120 mm
-Longitudinal travel of the Work-Table	200 mm
-Transverse travel of the Work-Table	220 mm
-Longitudinal travel of the Work-Head	1000 mm
-Machining longitudinal total capacity of valve seat	1250 mm
-Spindle stroke	250 mm
-Spindle cover diameter	80 mm
-Spindle inclination (in all directions)	7°
-Sphere cylinder movement (radius)	15 mm
-Spindle speed	0 to 600 r.p.m
-Spindle motor - AC Servo motor with Servo driver	0.75 Kw
-Spindle nominal torque (Constant torque in all speeds)	17.5 Nm
-Carbide tip sharpener motor	0.25 kW
-1 th Vacuum pump motor for vacuum testing	0.12 kW
-2 th Vacuum pump motor for locking of work-table	0.25 kW
-Maximum cylinder head length (with single roll-over fixture)	1000 mm
-Maximum cylinder head width (with single roll-over fixture)	450 mm
-Maximum cylinder head height (with single roll-over fixture)	220 mm
-Maximum cylinder head length (on the parallel blocks)	Unlimited
-Maximum cylinder head width (on the parallel blocks)	500 mm
-Maximum cylinder head height	475 mm
-Vertical column – spindle axis between distance	315 mm
-Electrical requirements	2 kVA / 3 Ph-400 VAC-50/60 Hz
-Air requirements (Pressure & Usage)	7 Bar-400 l/min
-Machine dimensions (wide x deep x high)	2000 mm x 1050 mm x 2225 mm
-Machine weight	1700 Kg
-Control panel	12 " H.M.I. – Touch color screen operator panel with ETHERNET

#### **BASIC EQUIPMENTS**

- -SINGLE AXIS ROLL OVER FIXTURE (1 set)
- -CARBIDE BIT SHARPENER with DIAMOND
- -VACUUM TESTING PUMP
- -PADS WITH FOAM FOR VACUUM TESTER (8)
- -TOOL SETTING DEVICE
- -BUBBLE LEVEL FOR PILOT DIA SHANK
- -TORX T9 SCREW DRIVER
- -ALLEN KEY T 2.5 mm.
- -RATCHET SOCKET WRENCH 19 mm.
- -PROTECTED GLASSES
  - Dimensions, weights and construction are not binding and may be modified.



#### **OPTIONS EQUIPMENTS & ACCESSORIES**

- -PARALLEL BLOCKS (h:140 mm L:340 mm.) (1 set)
- -PARALLEL BLOCKS (h:110 mm L:340 mm.) (1 set)
- -PARALLEL BLOCKS (h:90 mm L:340 mm.) (1 set)
- -UNIVERSAL QUICK CLAMPING (1 set)
- -ANGULAR PARALLEL BLOCKS for IVECO CURSORS
- -TOOLING STORAGE CABINET with DRAWERS (on the machine)
- -MICROMETER FOR COUNTERBORING TIPS
- -PROTECTION CLOTH BELLOWS of VERTICAL COLUMN SLIDE
- -HANDLE WITH MICROSWITCH AND LED MOVIE OF WORK-HEAD

#### **OPTIONS FEATURES**

- -4.0 INDUSTRY APPLICATION
- -PRE-CENTERING SYSTEM
- -USB & ETHERNET PORTS
- -MINI PRINTER
- -TILT SENSOR / X -Y AXES (on the spindle)



#### **User Friendly and High Efficiency Machines**

İvedik Organize Sanayi Bölgesi 1548. Sk. No: 21-23 06378 Yenimahalle / ANKARA – TURKEY Tel: +90 312 395 39 65 / +90 312 395 39 66

Mobil: +90 507 923 89 03 Fax: +90 312 395 41 69 **DEALER**