Pascal die casting machine system

C-plate mag clamp die clamping system pascal pump hydraulic control unit auto coupling system mag clamp for press machine quick die change system link clamp & swing clamp expansion clamp Pal-fix pallet clamp robot tool changer die handling system



www.pascaleng.co.jp





Max. clamping force : 55 kN



Max. clamping force : 117.6 kN (58.8 kNx2)

When the ejector plate draws back and ejector pin is fixed, a large load might cause damage to the die. However, the C-plate mag clamp can prevent the die from such damage by detaching from the plate if force exceeding clamp force is exerthed while the plate is drawing back.



Clamp ejector plate instantly with super strong permanent magnet.
 No electricity consumed during clamped condition. Clean & Ecology



Installation on 2250 tonf die-casting machine



Installation on 350 tonf die-casting machine





Assures high durability and reliability even under severe operating condition (Heat, vapor, splash of release agent, etc.).

- Perfect protection against dust or die release agents
- Best solution for heat and corrosion
- Clamp force 4, 6, 10, 16 tonf
 25 tonf type now developing



Pascal clamp model TYB



pascal pump

Compact, high performance air-driven hydraulic pump



High performance hydraulic control unit with digital pressure gauge.



auto coupling system







For automatic coupling. Connection and disconnection of plural piping and tube



mag clamp

For Die clamp of Trimming press







For Die-change of Trimming press





For Work-clamping on deburring process

air 1MPa



For Work-clamping on deburring process

air 1MPa

For deburring process, clamp at the bottom of workpiece



model CGS



The expansion S clamp holds firmly the clamping hole at the bottom of workpiece and clamps it firmly down to the seating surface by utilizing taper rod and tapered surface of gripper. Clamp force is transmitted directly to seating surface and holds workpiece in place firmly without any distortion or deflection, making high grade and stable machining possible.





Ideal for workpiece transfer, cleaning with robot







Cleaning machine



Positioning & clamping of workholding fixture for deburring

Reasonable price, High-accuracy, High-rigidity and Easy positioning



Highly rigid pallet clamp and repeated positioning accuracy of 3μ m with dual surface contact

Dual surface contact on tapered surface and seating surface ensures solid and stable clamping against loads from high rpm or heavy-duty cutting. Solution for high machining accuracy along with maximum productivity.



Implementation of Pal system makes it possible to perform setting of workpiece on fixtures of machine table accurately and significantly reduces setup time that was previously necessary for alignment.



Offline setup promoted

PASCAL auto tool changer enhances the multi-functions of robot, shortens the set-up time and supports the high-mix low-volume production.



Portable weight : 20, 40, 60, 100, 150, 200 kg



Rotation of dies and casting parts weighing 1 - 50 tons





Itami, Hyogo, Japan 664-8502 TEL.(072)777-3333 FAX.(072)777-3520

