



KIKUSUI AQUARIUS G-J -MF

NOW AVAILABLE ALSO IN DUST TIGHT VERSION AND WITH SPECIAL TURRET WITH DIE PLATE , 60 STN, PUNCHES KU 12 AND OUTPUT OVER 400.000 TAB/H

KIKUSUI AQUARIUS G-J is a high-speed single-sided rotary tableting machine. It has **10 tons pre compression** & **10 ton main compression rollers**.



Fully open access to press tableting compartment ,for total vision and inspection. (turret removal in less than 20 min)

15 "OIT is mounted to the machine with a swing arm



KU 12 punches , 60 stn , with die plate ,for large production, over 400.000 tab/h with small tablets , diam. up to 11 mm

[Legendary Quality and Reliability since 1910](#)



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Special Aquarius G/J press in Dust tight version , with higher level of control of powder dispersion in production room and HEPA filter at air inlet



AQUARIUS G-J provides fast turret exchangeability as standard.



Very rigid and stout structure due to big and heavy side shoulder ,back and top side frame ,giving to G/J a very stable and rigid structure.This allows very consistent tablets weight and hardness ,very important also for blistering and coating efficiency

Large gear box ,allows machine running at high speed with low vibration (reduced parts wearing),low noise and avoiding machine heating up, very important point with temperature sensitive product



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Dust seal retainers enable simply and removable installation of the dust seal



Production capacity per punches
(43,200 - 259,200/**324.000** tablets/hour) (B, 36 st dies or **45 with die plate**)
(54,000 - 324,000 tablets/hour) (BB st. with standard dies
(36,000 - 180,000/**216.000** tablets/hour) (D, 30 st. dies or **36 st. D with die plate**)
(**70,000- 430.000** tablets/hour) (KU 12 with die plate only)



Closed ,0 clearance rotary feeder ,to keep very stable tablet's weight consistency, limit powder dispersion in the press powder area due to centrifugal force , keep machine clean , avoiding risk or tablets contamination and black spot,increasing press results in term of production yield

Availability of additional recirculation feeder for powder very abrasive or very sensitive to temperature where it is preferred to recirculate powder on die table , with clearance between feeder plate and turret die table to minimize wearing of bottom side stripes, minimize heating up and manipulation of granules

Punch tightness control at upper & lower track



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Punch protection by fast mechanical overload release

Automatic Pressure Control Device, working on control of main compression force and with feed back of autoregulation of powder filling station , to controls and stabilize tablet weight.

Tablet's rejection system is driven by air, with fast action valve, which ensures single tablet rejection at high rotation speed

Tablet tester , with possible second feed back control.
It can measure tablet weight, thickness and hardness of sample tablets

PAS (PLC based data Acquisition System) is an application to acquire and save on electronic support all the measured data with Automatic Pressure control device, TT (Tablet Tester) and PLC on all of Kikusui presses. **Full compliance with Data Integrity requirements .**

PAS includes all of the functions to be in compliance with 21 CFR Part 11. PAS have ability for acquiring and saving data on the production, and have ability for saving all records of production , data , audit trail , alarms .

All software developed by Kikusui , on a PLC based hardware , no any black area , fully under supplier and customer control. Easy software validation .

PFC (special powder filling rotary valve for press hopper, used for difficult flowing products, to keep constant powder volume/ level over and to the feeder, to optimize constant tablet's weight accuracy) and minimize segregation of blend during powder flow.



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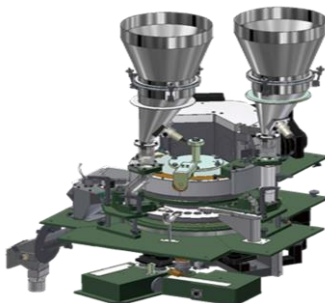
OPC server for press connection to customer plant supervisory system

Special lubrication system for effervescent tablets and for sticky formulations (by oil spraying or by magnesio stearate powder spraying system)

Special kit to convert press for Bi-layer tablets

Bi -layer Kit (30 st D /36 stns B / 45 stns BB) for converting AQUARIUS G-J(M) to bi -layer tablets manufacturing, application.(PAS software mandatory). Turret speed : 10-40 rpm

Tab. /hr.: 45 BB : 27.000-108.000 ; 36 B :21.600- 86.400 ; 30 D : 18.000- 72.000





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Special kit to convert Aquarius G/J press for Dry coated tablets (DC module)

DC module (30 stn D, 36 stns B or 45 stn BB) for converting AQUARIUS G-J(M) to dry coated tablets , or tablet in tablet manufacturing

turret speed : 10- 40 rpm

Tab. /hr.: 45 BB : 27.000-108.000 ; 36 B :21.600- 86.400 ; 30 D : 18.000- 72.000



Advantage	Benefit	Demonstration/Reason
Extremely easy to clean	<ul style="list-style-type: none"> - GMP compliance - Shorter changeover - Total open view and inspection ability during operation 	<p>Once the turret is removed, you are left with the completely open space easily accessible.</p> <p>The top of the machine is only mounted over 3 pillars leaving a corner free of obstacles for additional ease of access and easy turret removal by side.</p> <p>The dust seals are mounted on removable plates rather than directly on the turret.</p>
Practically no vibration	<ul style="list-style-type: none"> - Longer life span for the machines cam guides and rollers and tools - No weight variation - 	<p>The footprint of the machine is relatively small (1mt x 1mt), making machine very compact ,leaving no chance for the resonance that leads to vibration and head flection, avoiding vibration and hardness / thickness variation</p>
No heating	<ul style="list-style-type: none"> - No sticking 	<p>Kikusui prefers to keep the geared motor, and instead of using gear box from the market they manufactured their own gear which is more robust and durable given the fact that it is oversized and completely bathed in oil (practically maintenance free).</p>



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<p>Very high yield</p>	<ul style="list-style-type: none"> - More productivity - More yield - Better machine cleaning 	<p>zero clearance feeder, is possible almost to contact to the turret ,as turret is Tungsten Carbide plated. Recirculation feeder also available for difficult formulation manufacturing .</p>
<p>True single rejection at low and high speeds</p>	<ul style="list-style-type: none"> - No quality risks - Less waste - take samples from a single identified punch 	<p>Use of the fastest PLC available on the market. All control system based on PLC / data logic program ,fully available at Kikusui , no any windows based computerized program , no any blind or inaccessible box unit is part of our software system.</p>
<p>Hybrid technology</p>	<ul style="list-style-type: none"> - Complete flexibility in production 	<p>Interchangeable turret which can be removed from the press in less than 15 min . Availability of BL and DC module kit</p>
<p>Solutions for special problems</p>	<ul style="list-style-type: none"> - Problem free production 	<p>The Magnesium Stearate spraying unit we use to counter sticking effects can dose a controlled amount to be sprayed lowering the risk of having hardness and/or dissolution problems usually associated to the extra amounts of Magnesium Stearate. Cooling system for turret .</p>
<p>Simple automatic operation</p>	<ul style="list-style-type: none"> - Auto diagnostic system for trouble free operation 	<p>Control and monitoring of several alarm or incorrect machine operation with alarm visualization and solution instruction. Very Low maintenance time required</p>

Additional presses by Kikusui company

AQUARIUS G/K – DOUBLE SIDED PRESS – HIGH PRODUCTION RATE CAPACITY , WITH REMOVABLE TURRET





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AQUARIUS C-H AND VELA C FOR R&D , SPECIALLY DESIGNED FOR TABLETTING HIGH POTENCY FORMULATION , OEB4 - OEB 5 , UNDER ISOLATION TECHNOLOGY



And much more equipment , available for Pharma , Nutraceutical and industrial application.



NEWG 3 Layer



Crux R&D



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VALIDATION AND SERVICES

**Design , Installation and Operational Qualification protocol
Installation and Operational Qualification charge, training and
start up service**

**After sales service and support by 3 different locations (Japan /
US / Italy)**

**Service and spare parts available from japan (Kikusui
headquarter) , Italy (manufacturing plant with full staff) , US**



**100 year of history in tablet press manufacturing , (since 1910)
Japanese quality concept and Japanese - European
manufacturing standard - great quality and competitive price
level.**

**Kikusui , not a supplier but your partner for all of your tableting
needs .**



KIKUSUI SEISAKUSHO LTD.



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