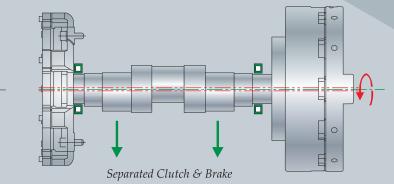
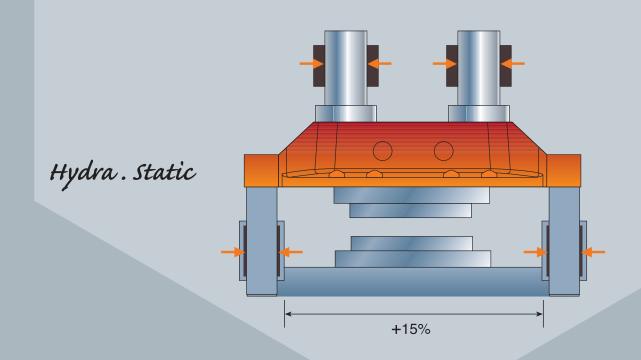


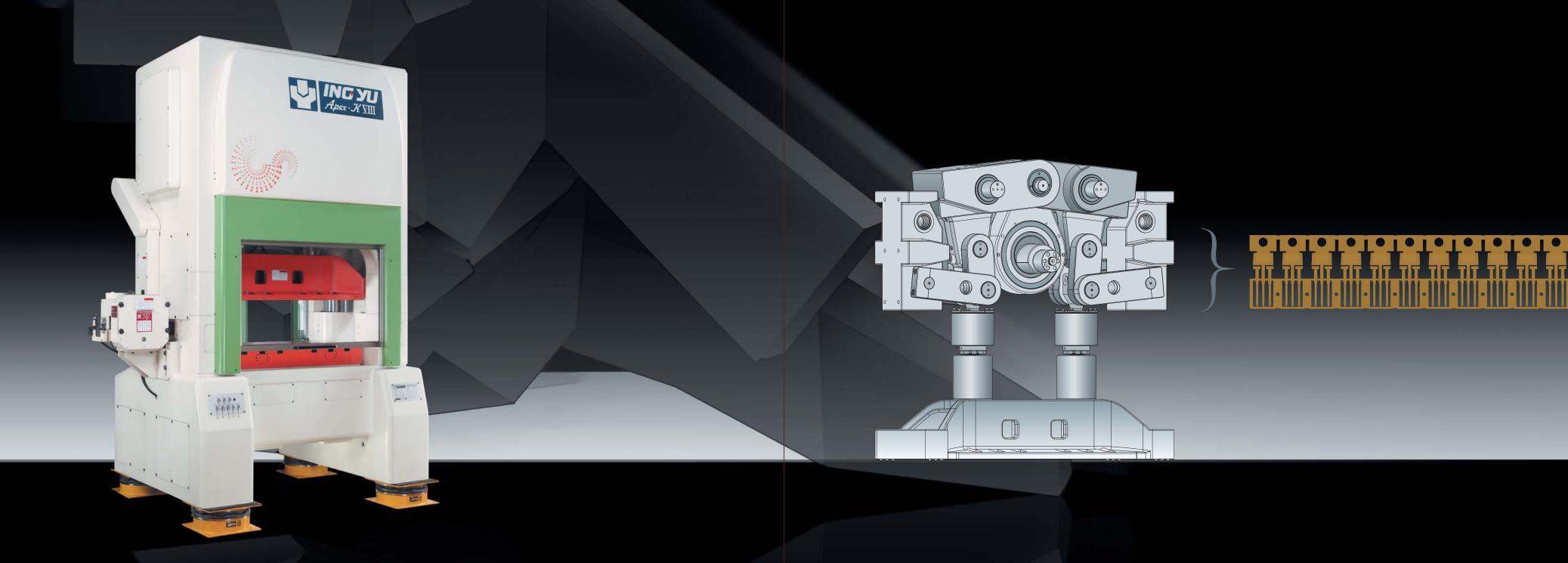
Normal Clutch

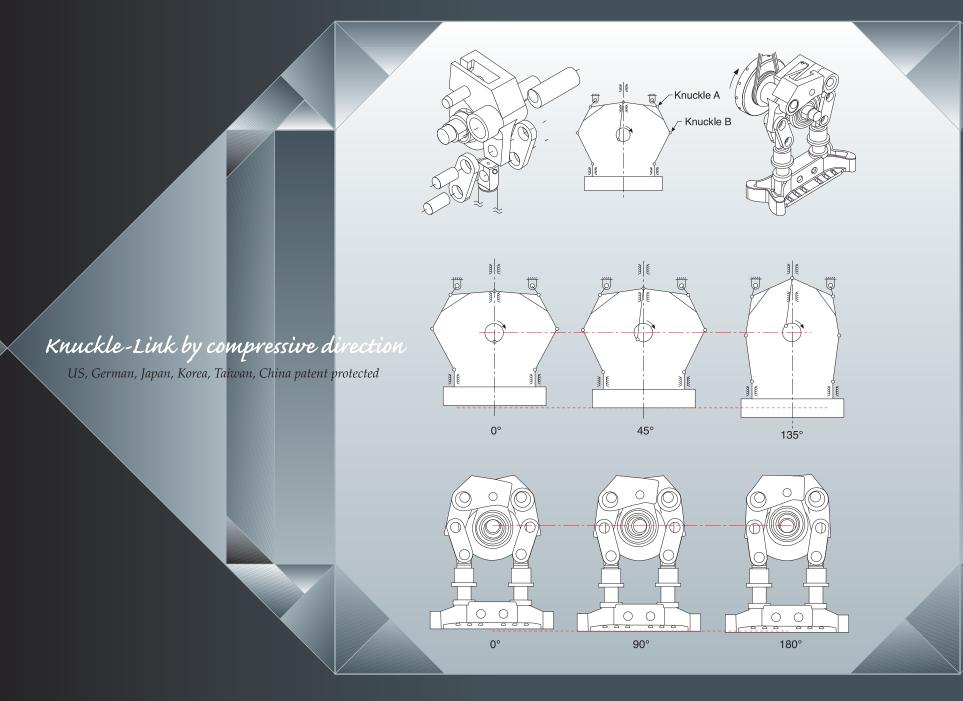


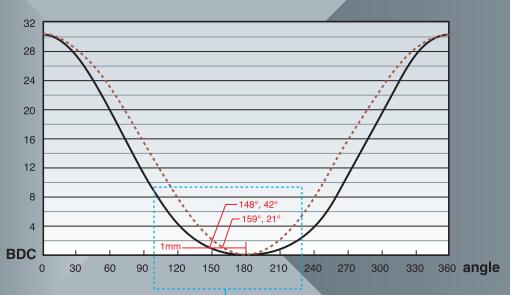










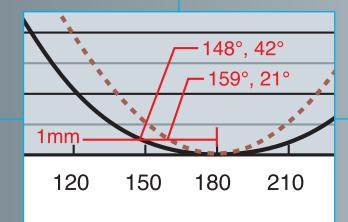


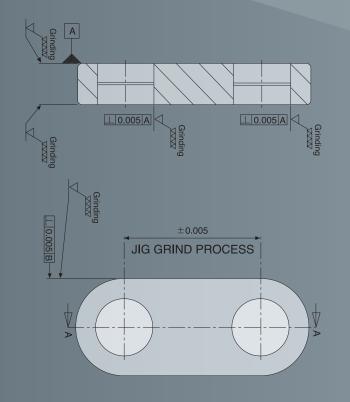
Knuckle vs Crank slide movement

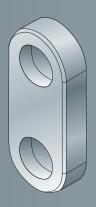
Eccentric load's deformation is 1/3 of crank type.

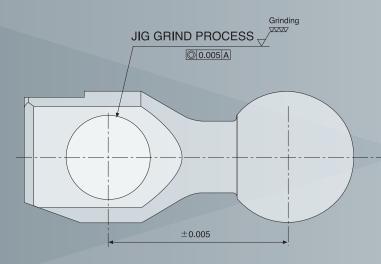
Total clearance is under 50% of JIS special grade.

Above 1mm to BDC period is double of crank type.

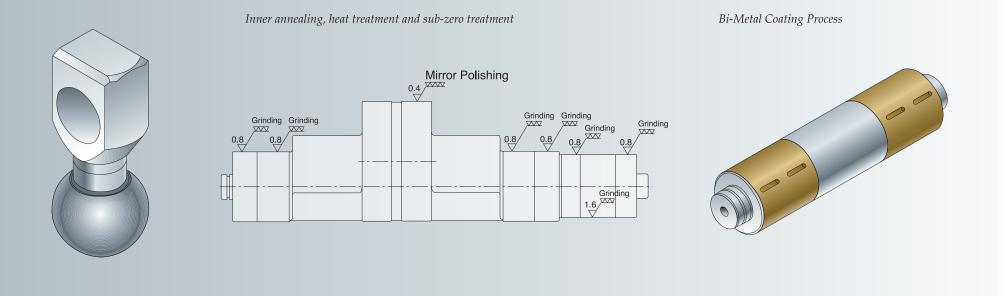


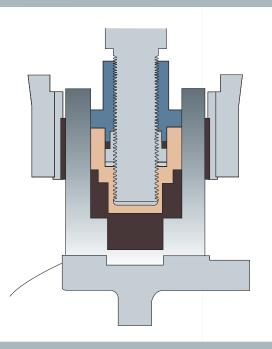






Synchronization and Multi-clearance





Slide Quick Lift (optional)

The height of slide quick lift is 50 mm at Apex-crank and 70 mm at Apex-knuckle. It helps users to solve the problem occurred on tooling easily, including material sticking, tool jamming, scrap, and punch changing.

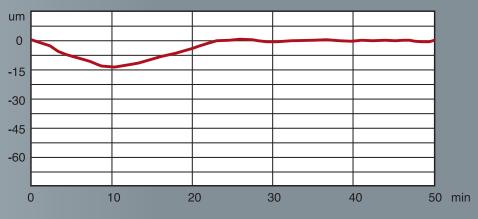
After trouble shooting, the slide returns to its original height quickly and B.D.C. is kept still without re-adjust checking and saving much time.

Moreover, users could select a shorter stroke without any inconvenience caused by tool operation and inspection. The shorter stroke can improve verticality of reciprocation, prolong tool life and increase productivity.

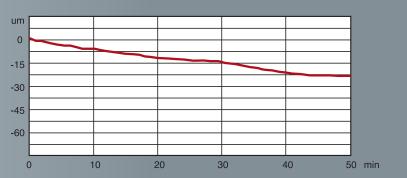


Thermo-static inverter cooling

Warm up the press by thermo-static system around 1 hour before running the production. At the first 3 hours of running, the oil temp. deviation is only 4° C, then keep still at $\pm 0.5^{\circ}$ C.



B.D.C at start running period with thermo-static system



B.D.C at start running period with normal cooling



Basic PLC control:

Colorful HMI screen is applied to display press situation friendly by colors, schematic and letters.

100 sets of tooling memory including die-height, running speed, pitch, detector setting and etc, it can auto-adjust device's position and parameter command to save much time and eliminate manual mis-adjustments while mounting tools and modify settings.

Temp, air/oil pressure, running current, tooling running hours are displayed without searching relative gauges.

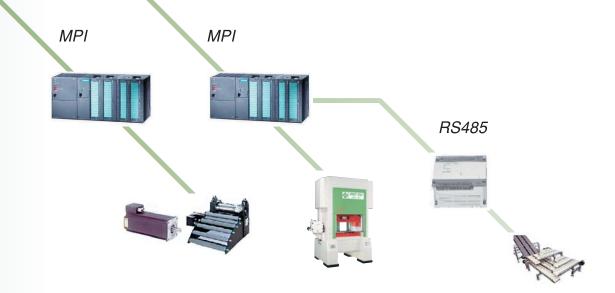
All situations, operations and messages are recorded to shorten trouble shooting time by tracing past history.



Automation application with multiple equipments:

Users could operate and command at centralized workstation to multiple equipments of whole production line, including servo drive, detect device, transfer-robot and etc.

Of course, the situation of remote equipments is transferring back and showing at workstation. The system memory could open a shared area for remote equipments' parameters and settings.

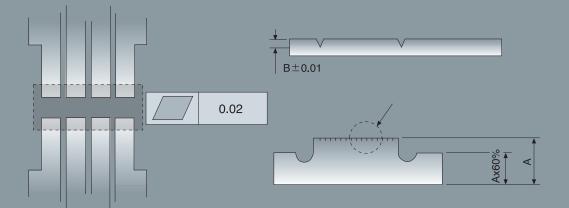


Job dispatch application by Ethernet:

System could transfer the production information to PC at manager office. The information is compatible with ERP system to reduce manual input job.

The tooling running information helps tooling manage dept. for remote-monitoring. The equipments* running and error information helps maintenace dept. planning periodical maintain schedule and trouble shooting.

Of course, ERP system could dispatch the job order and showing at workstation, tooling dept. could transfer new tooling setting, maintenace dept. could remote-tuning the equipments' parameter.



Precise stamping application:

Ultra high speed stamping above 1,000spm

Precise flatness control

Forging thickness control

High BDC reciprocation

Micro stamping

Standard Accessories

Slide adjust motor(0.01 m

Front & rear safety guar

Joint for air gun x

Mis-feed circuit x

Material-end circuit

Batch/Cam circuit x

Inverter moto

Centralized workstation system

Anti-vibration air type cushion (Apex 30-60

Anti-vibration spring type cushion (Apex-Knuckle

Die Arm (Apex60 abo

Die Lifter (Apex-Knuckl

Optional Accessories

ide guick lift

Gripper Feed

Gear Change Roll Fee

Straightener + S-Loop (Lamination

Dual Head Coiler (Lamination









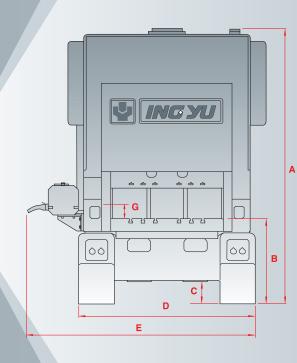
ING YU
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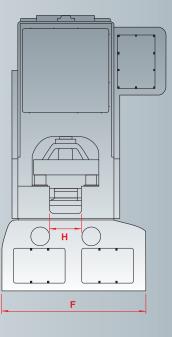
High Speed Feeder	Gripper type	Gear change type								
Туре	FGP-806	FDG-12	FDG-30	FDG-40						
Max width (mm)	80	120	300	400						
Max thickness (mm)	2.0	2.3	2.3	2.3						
Max pitch (mm)	0-60	4-120 12-360	4-120 12-360	4-120 12-360						
Max speed (m/min)	40	60	60	60						

Dual Head Uncoiler				Straightener with S Loop								
Туре	DCT-12	DCT-30	DCT-40	Туре	FRS-12	FRS-30	FRS-40					
Max outside dia (mm)	800	1200	1200	Max width (mm)	120	300	400					
Valid inside dia (mm)	450-520	450-520	450-520	Valid thickness (mm)	0.3-1.0	0.4-1.2	0.4-1.2					
Max load per head (kg)	800	1000	1500	Max speed (m/min)	60	60	90					
Hydraulic expand	yes	yes	yes	Drive motor (hp)	2	3	5					

Machine Specification														
TYPE			Αp	ex-3	0		Aps	ex-42	5		Apex-60			
Capacity	tons	30					15		60					
Slide stroke	mm	10	20	30	40	10	20	30	40	20	30	40	50	
Press speed	spm	200 I 1400	200 I 1200	200 I 1000	200 I 800	200 I 1300	200 I 1100	200 I 900	200 I 700	200 	200 I 800	200 I 600	200 	
Shutheight	mm	255	250	245	240	285	280	275	270	325	320	315	310	
Area of bolster	mm		600	<450			800	<550		1000x650				
Bolster thickness	mm	100					12	20		140				
Area of slide	mm	600x340					800	< 400		1000x450				
Shutheight adjustment	mm	40					5	0		50				
Main motor hp		15					1	5		20				
Dimension of Pre	ss													
Height of Press (A)	mm		22	70			25	10			28	10		
Height for Operation (B)	mm	800					8	50		950				
Height for Scrap out (C)	mm	330			310				290					
Width of Press (D)	mm	11		150		1350			1650					
Depth of Press (F)	mm		1100				12	00		1400				
Height of feed line(G)	mm		100±20		115±20			135±20						
Width of Upright opening(H)	mm	220				26	60		300					
Net Weight	tons	5					8	3		12				

We reserve the right to modify all data contained in this catalogue without notice.(Please contact with us for detail specification & dimension of the press.)





Machine Specification														
TYPE		Apex-K VIII					Apex-XXII				Apex-XXVI			
Capacity	tons	80				125				160				
Slide stroke	mm	20	30	40	50	20	30	40	50	20	30	40	50	
Press speed	spm	200 	200 I 600	200 I 500	200 I 500	200 I 700	200 I 600	200 I 500	200 I 500	200 I 600	200 I 500	200 I 400	200 I 400	
Shutheight	mm	365	360	355	350	385	380	375	370	385	380	375	370	
Area of bolster	mm		1200x750			1400x850				1700x850				
Bolster thickness	mm		14	40		160				160				
Area of slide	mm 120		1200	200x500		1400x640			1700x640					
Shutheight adjustment	mm	ım 50		50				50						
Main motor hp			3	0		30				40				
Dimension of Pre	ss													
Height of Press (A)	mm		36	00		3800				4300				
Height for Operation (B)	B) mm 1		10	1010			1060				1080			
Height for Scrap out (C) mm		300			280				130					
Width of Press (D) mm		1930			2200				2600					
Depth of Press (F)	Depth of Press (F) mm		1600			1800				2000				
Height of feed line(G)	mm	mm 155±20			165±20		165±20							
Width of Upright opening(H)	Width of Upright opening(H) mm		350			400				450				
Net Weight t		18				25				32				

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