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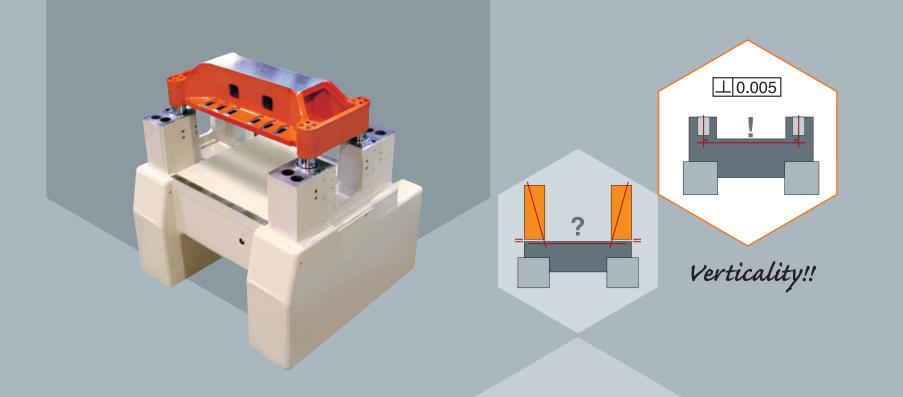
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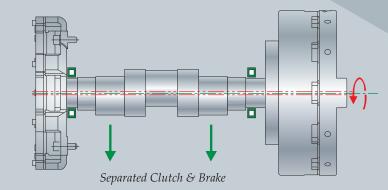
More than a Press producer, ING YU is devoted to creating the value for Customers.

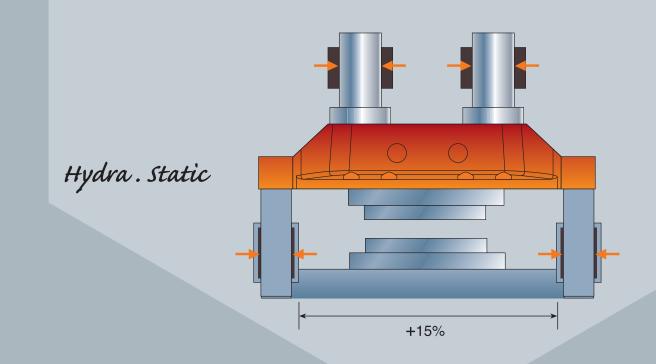


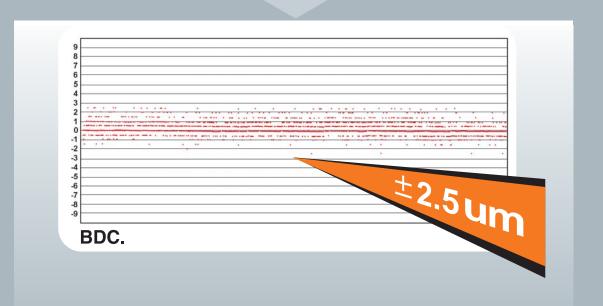


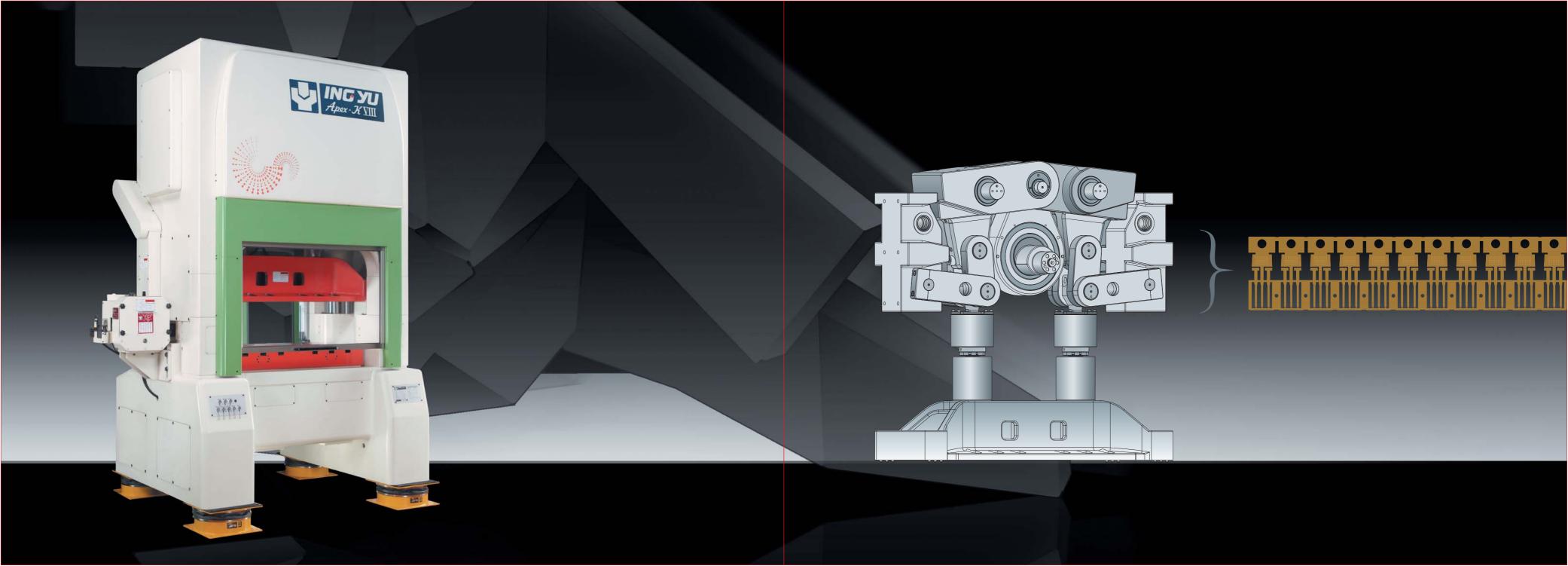


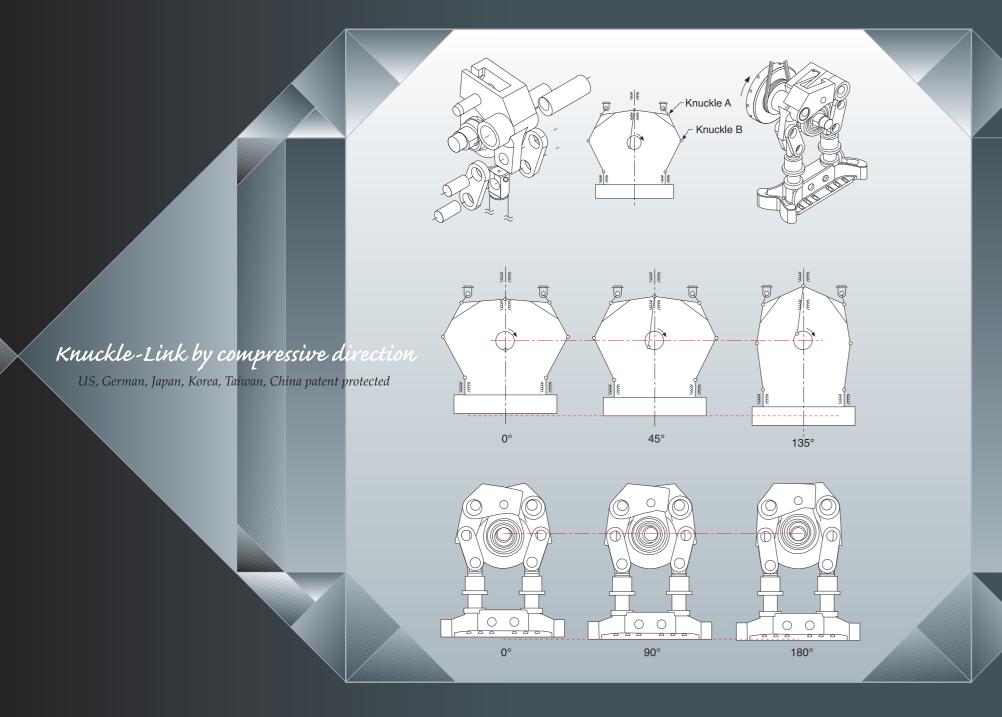


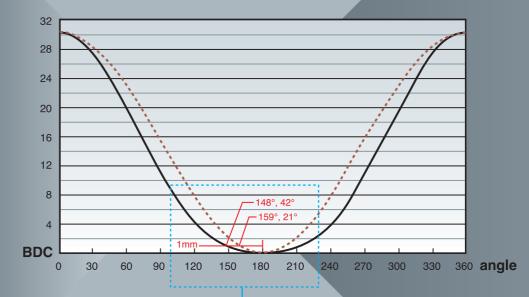










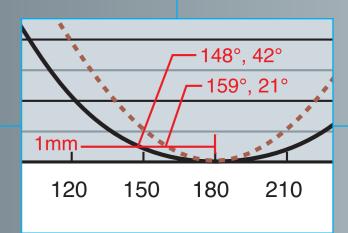


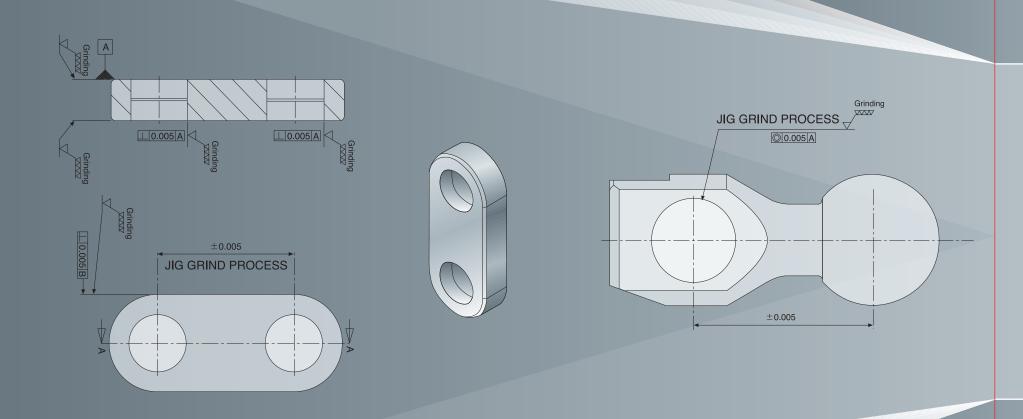
Knuckle vs Crank slide movement

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

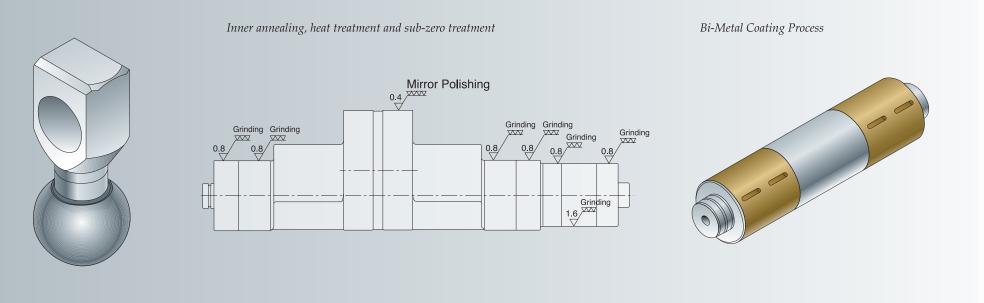
Total clearance is under 50% of JIS special grade.

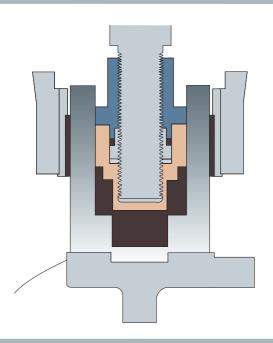
Above 1mm to BDC period is double of crank type.





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.

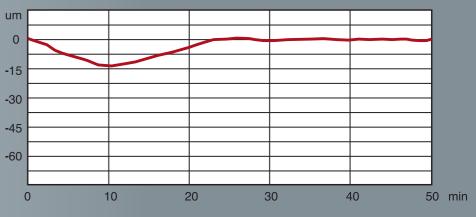
After trouble shooting, the slide returns to its original height quickly and B.D.C. is kept still without re-adjust checking and saving much time.

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.

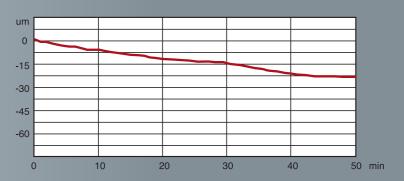


Thermo-static inverter cooling

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 $\pm 0.5^{\circ}\text{C}$.



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.

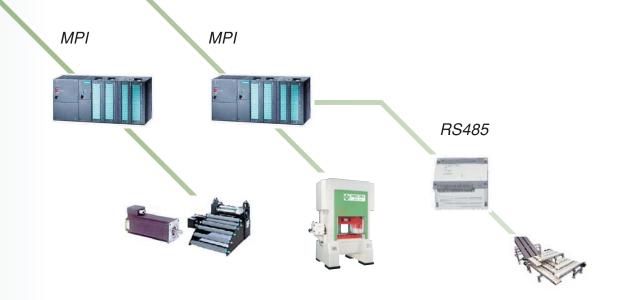
All situations, operations and messages are recorded to shorten trouble shooting time by tracing past history.



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.

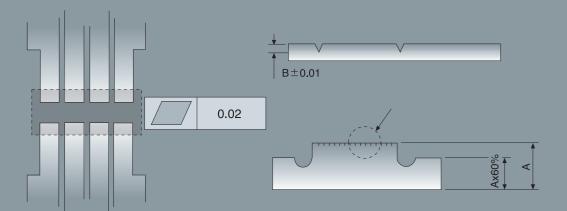


Job dispatch application by Ethernet:

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(0.01m)

Front & rear safety guar

Joint for air gun :

Mis-feed circuit x

Material-end circuit

Batch/Cam circuit x

Inverter moto

Centralized workstation system

Anti-vibration air type cyshion (Apex 30-60

Anti-vibration spring type cushion (Apex-Knuck

Die Arm (Apex60 abo

Die Lifter (Apex-Knuckl

Optional Accessories

ide quick lift

Gripper Feed

Gear Change Roll Fee

Straightener + S-Loop (Lamination

Dual Head Coiler (Lamination









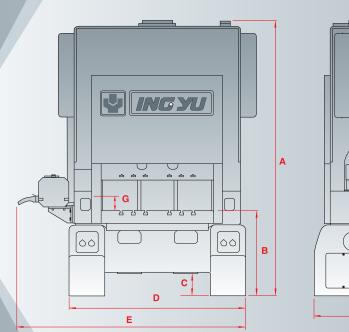
ING YU

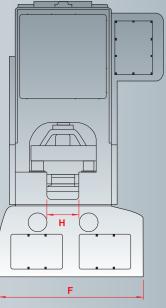
High Speed Feeder	Gripper type			Gear ch	nange type	е		
Туре	FGP-806	FDG-	12	FD0	G-30	FDG-40		
Max width (mm)	80	120		3	00	400		
Max thickness (mm)	2.0	2.3	3	2.3		2.	3	
Max pitch (mm)	0-60	4-120	12-360	4-120	12-360	4-120	12-360	
Max speed (m/min)	40	60		6	60	60		

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 Specifica	atior	1											
TYPE		Apex-30 IS 30 IN 10 20 30 40 IN 200 200 200 200 1000 800 IN 255 250 245 240 IN 600×450 IN 600×340 IN 40 IN 15 IN 2270 IN 800			Apo	ex-42	5	Apex-60					
Capacity	tons		30	0			4	15		60			
Slide stroke	mm	10	20	30	40	10	20	30	40	20	30	40	50
Press speed	spm	l i	l i	l i	l i	200 I 1300	200 I 1100	200 I 900	200 I 700	200 I 1000	200 I 800	200 I 600	200 I 500
Shutheight	mm	255	250	245	240	285	280	275	270	325	320	315	310
Area of bolster	mm 600x450			800	< 550		1000x650						
Bolster thickness	mm		100		120			140					
Area of slide	mm		600	< 340		800x400				1000x450			
Shutheight adjustment	mm	m 600x340 m 40			50			50					
Main motor			15				20						
Dimension of Pre	ss												
Height of Press (A)	mm		22	70			25	10		2810			
Height for Operation (B)	mm		80	00		850				950			
Height for Scrap out (C)	mm		33	30			3-	10		290			
Width of Press (D)	mm		11	50			13	50		1650			
Depth of Press (F)	mm		11	00			12	00		1400			
Height of feed line(G)	mm	100±20		115±20			135±20						
Width of Upright opening(H)	mm		22	20		260				300			
Net Weight	tons		Ę	5			8	3		12			

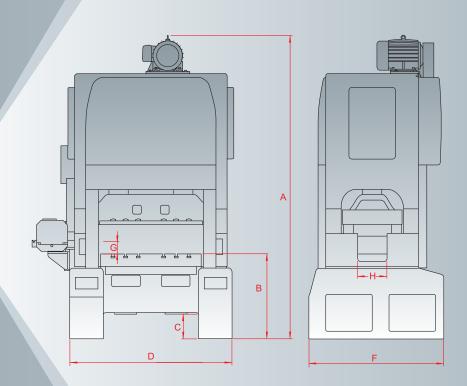
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Machine Specification													
TYPE		7	£pex	-X V	<i>III</i>	7	4 pex	- <i>KX</i>	\mathbb{Z}	Apex-XXVI			
Capacity	tons	80					12	.5		160			
Slide stroke	mm	20 30 40 50				20	30	40	50	20	30	40	50
Press speed	spm	200 I 700	200 I 600	200 I 500	200 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	1 1200x750					1400	x850)	1700x850			
Bolster thickness	mm	140					16	60		160			
Area of slide	mm	1200x500					1400	x640)	1700x640			
Shutheight adjustment	mm	50					5	0		50			
Main motor hp		30				30				40			
Dimension of Pre	ss												
Height of Press (A)	mm		36	00			38	00		4300			
Height for Operation (B)	mm	mm 1010		1060				1080					
Height for Scrap out (C)	mm	300			280				130				
Width of Press (D)	mm	1930			2200				2600				
Depth of Press (F)	mm	1600			1800			2000					
Height of feed line(G)	mm	155±20			165±20			165±20					
Width of Upright opening(H)	mm	350			400				450				
Net Weight	tons	ns 18		25				32					

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EMI shield

