

KALYANI ENGITECHTM

Manufacture of
Sheet Metal Forming
MACHINE

KNX

Cross Shaft Precision
Press (Dry Clutch)



KALYANI ENGITECHTM

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ABOUT US

Kalyani Engitech Is A Leading Brand Of Medium And Large Presses With Global Presence And It Established In 2017 And Set Up Its Own Manufacturing Unit At Rajkot Shapar-gidc Machinery Hub In India..

Our Main Customers Are Spread Across Various Industries, Including Automotive, Aerospace, Medical Equipment, Agriculture Machinery, Home Appliances, Consumer Electronics, And Building Materials And Hardware Manufacturing. With Cutting-edge Innovation And Advanced Technical Know-how, Kalyani Engitech Creates Compelling Niche Value For All Its Customers. A Complete Sales, Service And Distribution Network Allows

Kalyani Engitech To Provide A Comprehensive Range Of Products And Immediate Technical Support To Its Customers Around The World. Application Solutions, Automated Peripheral Integration Solutions, And Smart Stamping Management Systems" Are The Three Main Pillars Of Kalyani Engitech's Development Strategy. In Addition To Actively Marketing Its Class-leading In Presses With Multiple Advantages Such As High Precision, High Performance, Environmental Sustainability And Energy Efficiency,

Kalyani Engitech Has Developed Solutions Such As Intelligent Stamping Production Lines And The Seamless Integration Of Automated Peripheral Systems. At The Same Time, Kalyani Engitech Is Embracing The Challenges Brought Forth By The Advent Of Industry 4.0 In The Manufacturing Industry. Through Independent R&d And Industry-academia Collaborative Partnerships,

Kalyani Engitech Offers Customers Compelling Solutions Under The Internet Of Things Framework, Whether It Is Mechanical Stamping Or Other Pressing Processes. Based On Customers' Production Conditions And The Characteristics Of Respective Stamping Requirements, Machine And Production Status Are Actively Tracked To Ensure Products Meet All Customer Needs In Smart Stamping Solutions By Kalyani Engitech Technical Support.

OUR VISION

"Enriching Life Through Innovation And Technology"
To Ensure Total Success Of Our Customers And Help Them Achieve Exponential Growth By Providing Innovative Solutions.

Kalyani Engitech Has Developed Solutions Such As Intelligent Stamping Production Lines And The Seamless Integration Of Automated Peripheral Systems. At The Same Time, Kalyani Engitech Is Embracing The Challenges Brought Forth By The Advent Of Industry 4.0 In The Manufacturing Industry. Through Independent R&d And Industry-academia Collaborative Partnerships,

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CORE VALUES

INTEGRITY

We Do Right Things

ACCOUNTABILITY

We Take Responsibility For Our Commitment

TEAM WORK

Work To Gather

SERVICE

We Give Our Best

INNOVATION

We Anticipate Change And Create Solution

01

PRODUCT

FEATURES

- High Torque, Low Noise Dry Clutch And Brake.
- Rigid Frame With Less Deflection.
- High Accuracy Transmission Gears And High Rigidity Crank Ensure Press Long Life And Accuracy.
- Forced Lubrication System With Default Monitor Ensures The Operation Reliability.
- User Friendly Design And All Function Electric Control System Provide High Automation Compatibility.



KNX

Cross Shaft Precision Press (Dry Clutch)

02

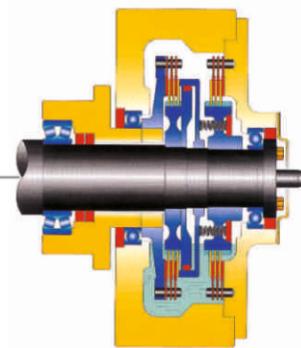
High Quality Crank Shaft

The Strong Crank Shaft With Outstanding Rigidity Ensures That Accuracy Can Be Maintained Under Qualified Standard And Extends The Life Of Tooling.



High Precision Transmission Gear

The Highly Accurately Machined Gear System Provides Smooth And Silent Operation.



High Torque Dry Clutch and Brake

- ◆ Multi-plate, Low Inertial Design For Quick Response Operation.
- ◆ High Intermittent Allowance For Robot Automatic Operation.
- ◆ No Pollution And Low Noise Correspond The Future Environmental Requirement.



Auto Lubrication System

The Auto Lubrication System With Default Monitor Ensures High Reliable Operation.



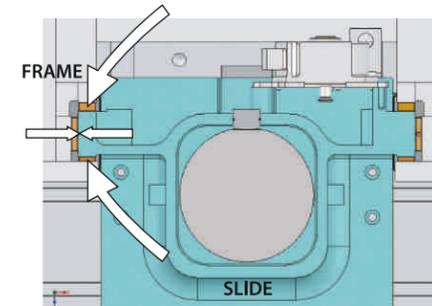
HMI Interface

User-friendly Design For Simple And Easy Operation.



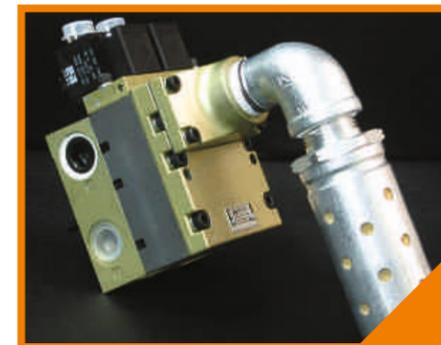
Quick Die Change Device (Option)

The Die Lifter, Die Clamp And Auxiliary Rails Allow To Carry Out Die Changing Easily In A Short Time.



Long 6-Side Gibs

Durable Alloy Bronze Lining Fixed Directly On The Frame Without The Defect Of Loosing Adjusting Bolts. Durable Lining Can Also Maintain High Accuracy And Extend The Life Of Tooling.

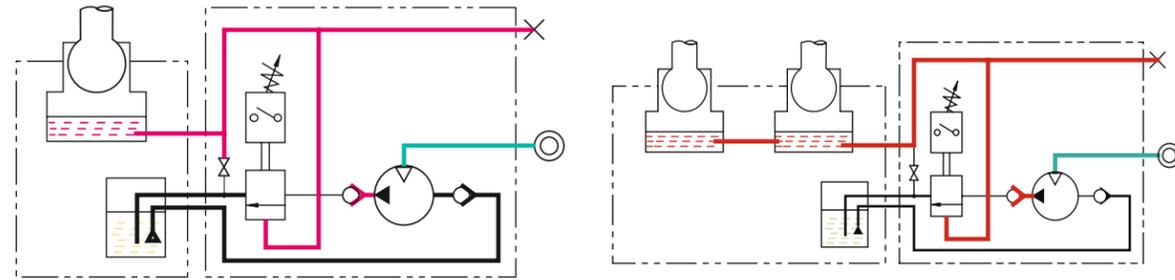


Dual Safety Valve

The Interlock Mechanism On The Dual Valve Keeps The Clutch And Brake From Mis-actuation When Valve Is Default.

Hydraulic Overload Protection

The Hydraulic Overload Protection Is Installed To Prevent The Overloading From Exceeding The Rating Capacity Tonnage And Protect Press And Tooling From Damage.the Simple Resetting Process Makes The Restart Operation Easily.



Hydraulic Overload PROTECTION



(**KNX-25~45 only)

Simple, Reliable Manual Slide Adjuster With 0.1mm Increment Indicator.

Motorized Slide ADJUSTING DEVICE



(**KNX-25~45 not applicable)

With Push Buttons.it Provides Stable Positioning Accuracy And Quick Adjustment. The Motorized Slide Adjusting Device Is Adopted With A Thin Brake Motor And Operated

Digital Die Height INDICATOR



(**KNX-25~45 not applicable)

Motorized Slide Adjusting Device Fitted With 0.1mm Increment Digital Die Height Indicator.

PRODUCT

Standard Attachments

- ◆ Combination of Pneumatic Clutch and Break
- ◆ PLC Control With HMI & Programming System
- ◆ Rotary Cam Limit Switch
- ◆ Dual Solenoid Valve
- ◆ Electrical Control Panel
- ◆ Hydraulic Overload Safety System
- ◆ Auto Greases Lubrication System
- ◆ Manual Slide Adjustment (From 25Ton – 45Ton)
- ◆ Motorized Slide Adj. (From 63ton and Above)
- ◆ Knock Out System
- ◆ Die Height Indicator
- ◆ Counter Balancer of Slide
- ◆ Miss Feed Sockets
- ◆ Air Outlets
- ◆ Photo Electric Safety Guard
- ◆ Anti-Vibration Mount Pad
- ◆ Die Area Light
- ◆ Anti – repeat Safety Device

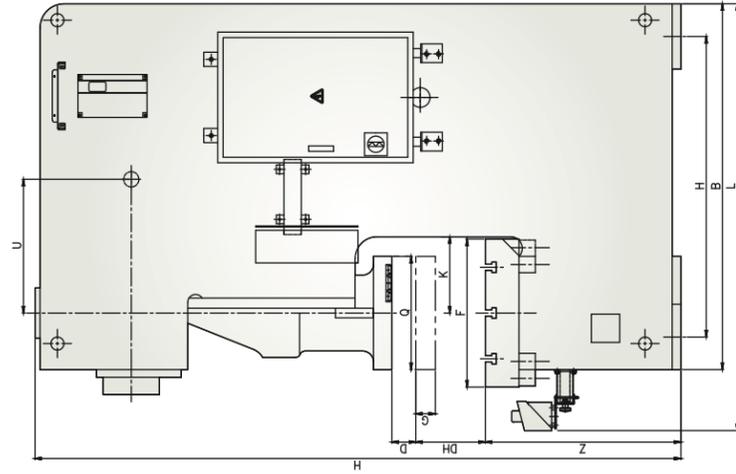
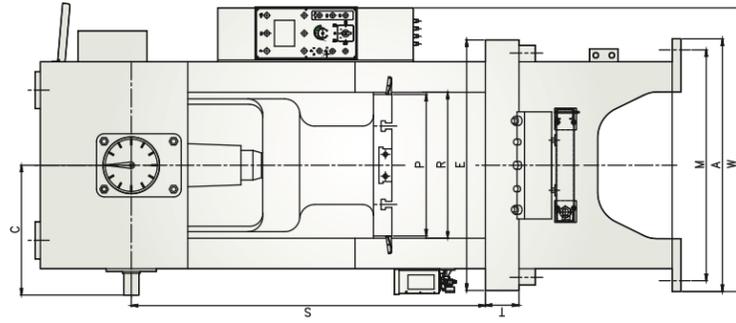
Optional Attachments

- ◆ Variable Stroke
- ◆ Pneumatic Die Cushion
- ◆ Programmable Cam Controller
- ◆ Quick Die Change System

PRESS TECHNICAL SPECIFICATION

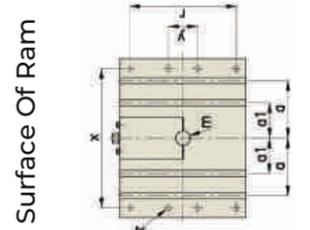
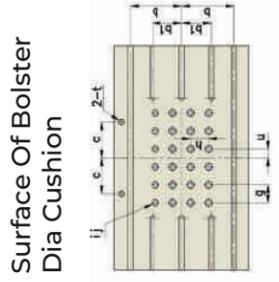
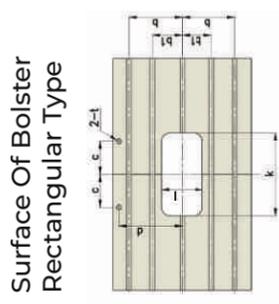
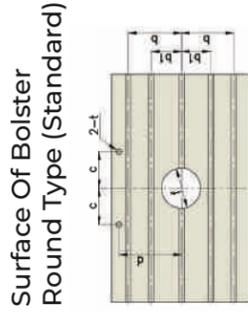
KALYANI ENGITTECH	KNX-25		KNX-35		KNX - 45		KNX - 63		KNX-80		KNX-110		KNX-160		KNX-200		KNX-250		
	NG	SG																	
TECHNICAL DETAILS & CAPACITY																			
FIX STROKE Length	40	80	40	40	50	110	50	110	50	150	60	160	70	200	80	220	90	250	
STROKE ADJUSTMENT	08-40	08-80	08-40	08-88	08-50	08-88	08-50	08-80	08-50	8-100	08-60	8-125	08-70	8-160	-	-	-	20-160	
STROKE PER MINUTE (FIXED)	150	90	150	80	140	70	130	60	100	60	100	80	80	40	65	35	55	30	
STROKE PER MINUTE (VARIABLE)	100-200	60-90	100-200	60-90	100-180	50-80	100-160	40-70	60-130	40-70	60-120	35-60	50-100	30-50	40-80	25-45	30-70	25-40	
RATING POINT	1	3.2	1.2	3.2	1.5	3.2	1.5	2.3	2.3	4	3	4.5	3	5	3.5	6	4	6	
DIE HEIGHT	230	250	250	270	270	300	300	330	330	360	360	450	450	450	450	450	450	450	
SLIDE ADJUSTMENT	50	50	50	60	60	70	70	80	80	90	90	110	110	120	120	120	120	120	
SLIDE AREA (F x B)	330 X 250	380 X 300	380 X 300	430 X 350	430 X 350	500 X 400	500 X 400	560 X 460	560 X 460	650 X 520									
TOOL BORE	40	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	
BOLSTER AREA	700 X 320	780 X 400	780 X 400	840 X 440	840 X 440	900 X 520	900 X 520	1050 X 600	1050 X 600	1150 X 680									
BOLSTER THICKNESS	80	85	85	110	110	120	120	140	140	140	140	140	140	140	140	140	140	140	
FLOOR TO BOLSTER	800	800	800	800	800	860	860	900	900	900	900	900	900	900	900	900	900	900	
CLEAR DIST. BOLSTER TO RAM	430	490	490	495	495	580	580	620	620	670	670	670	670	670	670	670	670	670	
MOTOR FIXED (H.P / RPM)	3X4	3X4	3X4	5 X 4	5 X 4	7.5 X 4	7.5 X 4	10 X 4	10 X 4	10 X 4	10 X 4	10 X 4	10 X 4	10 X 4	10 X 4	10 X 4	10 X 4	10 X 4	
MOTOR VARIABLE (H.P / RPM)	5X4	5X4	5X4	7.5 X 4	7.5 X 4	10 X 4	10 X 4	15 X 4											
SLIDE ADJ. MOTOR	NA	NA	NA	NA	NA	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	
SIZE WL-H	1060 X 1325 X 2120	1230 X 1520 X 2225	1230 X 1520 X 2225	1260 X 1590 X 2265	1260 X 1590 X 2265	1430 X 1775 X 2680	1430 X 1775 X 2680	1430 X 1775 X 2765	1430 X 1775 X 2765	1560 X 1980 X 3015									

Machine Dimension



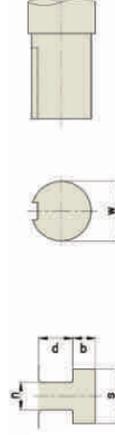
Dimension Of Bolster Plate & Ram

(the cushion holes of 25, 35, 45, 60, 200, are center located on bolster)



Size Of T-Slot

Power Take-Off Shaft (Option)



NG:UN-GEARED,
HG:HIGHSPEED
SG:STANDERDGEARED

Die Cushion Technical Details (Optional)

Machines Tonnage	20 Ton	35 Ton	45 Ton	63 Ton	80 Ton	110 Ton	160 Ton	200 Ton	250 Ton
Capacity (Ton)	3.5 Ton	3.5 Ton	3.5 Ton	6 Ton	6 Ton	8 Ton	10 Ton	14 Ton	14 Ton
Stroke Length (MM)	50 MM	50 MM	50 MM	70 MM	70 MM	90 MM	100 MM	110 MM	120 MM
Pad Area (MM)	285 X 210	300 X 210	300 X 210	380 X 260	410 X 260	480 X 300	540 X 340	540 X 340	740 X 540