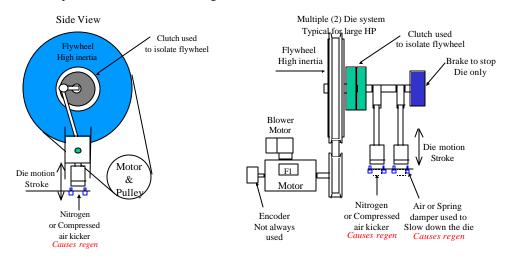


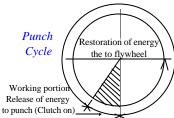
A **Punch Press** is a machine used to supply power to a die that is used to blank, form, emboss, coin, shape metal or even non-metallic material. Finished product examples for automobiles are: fenders, valve lifters, gas tanks, air cleaner covers, etc. Some of these products require a multi-step punch process.

The **Die** is a component of the press that is connected to a crankshaft, which transmits energy from the flywheel to the material that is being modified. The die is the tool that forms, cuts, draws, and pierces the metal that is being modified.



The **Flywheel**, a rotating high inertia body, is used on a press to store energy that is being provided by a drive/motor. The flywheel is used to prevent excessive or sudden changes in speed during the transfer of energy in the punch cycle which is 20 degree.

The motor restores the released punch energy to the flywheel during the non-working portion (340-degree) of the press cycle. Regeneration is possible during this cycle if flywheel is unbalanced.



Torque Capacity is the ability to take the energy of the flywheel and transmit it through the gears, clutch, crankshaft, and die. The ratings are typically in tons.

(800) 504-5982



Punch Press Application Data / Specification

Customer Data

Company Name	☐ End user ☐ Distributor ☐ OEM				
Contact Name #1	Contact Name #1 e-mail				
Contact Name #2	Contact Name #2 e-mail				
Address State	City Zip				
Phone	Fax				
Machine Data	,				
Type of Press (i.e. Stamping, Punching, Coining-m	ninting)				
Design speed (SPM ¹) E	xisting required Max speed (SPM¹)lew required speed. (SPM¹) Min*				
New required speed. (SPM¹) Max* N	lew required speed. (SPM¹) Min*				
Number of dies or ☐ NA D	outy cycle				
Ambient Temperature in control room °F Environment**	- or C				
* Note: It should notbe any more than 3:1 from Ma	ax (Strokes/Minute) /Min(Strokes/Minute)				
**Note: If oily, corrosive, high temperature etc					
Existing Drive Data					
Manufacturer	Model #				
Horse Power					
Existing Voltage 230VAC 460VAC	☐ 575VAC ☐ Other				
Existing Drive system AC drive DC drive	e □ Eddy Current				
☐ Mechanical Varispede	☐ NEMA D AC Motor				
☐ Other					
Existing Motor Data					
Existing motor Manufacturer	Model #				
New motor required ☐ Yes ☐ No					
Existing motor full load ratingsAmps,	Volts,RPM (1150, 1750 etc.)				
Conduit Box location, if motor is to be replaced \Box	F1 ☐ F2 ☐ F3 or ☐ Not Applicable				
Existing Blower Motor Phase	Voltage Amps or ☐ Not Applicable				
Existing Encoder	AC Analog DC				
Strokes per Minute					
(800) 504-5982	BIS8121				



Ex isting Encoder Manufacturer ³							
Resolution Existing (PPR) OR	Volts/RPM					
Encoder Pickup	ptical	Magnetic p	ckup				
Load drive pulley	Pitch Diamete	F1 Pulley D	istance		Diameter F 3 r drive pulley		
Motor belting data	l						
The V-belt system proceeds bending moment and the of the motor shaft can be	ne bearing lif	e of the m	otor shaft	. The bear			
Pulley Distance (F1) Pitch Diameter of load pu							
Drive Enclosure in Existing Drive Enclosure			IEMA 12	□ Other			
New Enclosure Spec		_					
Enclosure options	☐ Duplex or	utlet 🗌 L	ights				
Existing Power Dis			oltogo	۸۵	Sacandani valtara	A C	
☐ Isolation Transformer					Secondary voltage		
☐ Line Reactors Impede					Reactor Impedance		
☐ Dynamic Braking Resi Dynamic Resistor Pow				%	Resistance	Ohms	
³ Encoders are not typically		1.037 1	- i' r		1		

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⁴ The existing power distribution is required if Yaskawa is providing a complete drive system



Drive Communication Requirements	
☐ Modbus Plus ☐ Modbus ☐ Device Net ☐ Profibus ☐ Arcnet LAN ☐ Other	
Drive Input Requirements	
☐ Start ☐ Stop ☐ Forward ☐ Reverse ☐ Run ☐ Jog ☐ Preset Speed 1 ☐ Preset Speed 2 ☐ Preset Speed 3 ☐ Other	
Drive Output Requirements	
 □ Drive alarm fault □ Drive severe fault □ Run □ Zero speed □ At speed □ Encoder feedback pass through (PGX card) □ Other 	
Comment [mkm1]: May need Analog output to replace the individ	110
Analog Input Analog Input	uai
□ speed reference □ 0-10VDC □ 4-20ma □ Other	
Analog Output	
☐ Drive Speed (SPM) ☐ Bus Voltage ☐ Other	
Special Types of Control	
☐ Drive system start ☐ Drive system stop ☐ Regenerative to fast stop - full current limit or ramped ☐ DC Bus Over Voltage Suppression (Used to prevent overvoltage tripping from an unbalanced load)	
☐ In Window, or OK to feed product. ☐ Counter for # of parts produced ☐ Other	