

All World Machinery examined total energy savings for a prominent Japanese plastics manufacturer for the automotive industry to show the impact of cost reduction in terms of less power consumption, by using Daikin Hybrid Hydraulic Systems.

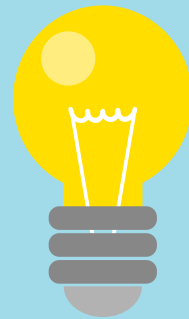
Three hydraulic units were selected and a comparison of the energy consumption was carried out in which a voltage analysis was carried out for 5 minutes to see the consumption of each hydraulic unit and it was observed that the unit SUT00S8018-30-A has a consumption lower than the conventional units. Daikin's original high-efficiency IPM motors and hydraulic technology enables an unparalleled energy-saving effect and advanced functions.



DAIKIN ENERGY SAVINGS IN NUMBERS



Operation hours: 24 hrs. 5 days/wk
Rate based on a yearly average of =
1.6150 MXN kW/h*
*Data provided by customer



15.229053 kW/h
Power consumption after swap

Total power consumption of all hydraulic pumps
before swap: 39.145423 kW/h

Total power for 24h: (24) (39.145423) = 939.490152 kW

Total power consumption of all hydraulic pumps if
changed to super unit: **15.229053 kW/h**

Total power for 24h: = (24) (15.229053) = **365.497272 kW/h**



Cost of running hydraulic pumps before swap:
 $939.490152 \times 1.6150 \times 240 = \$ 364,080.00$

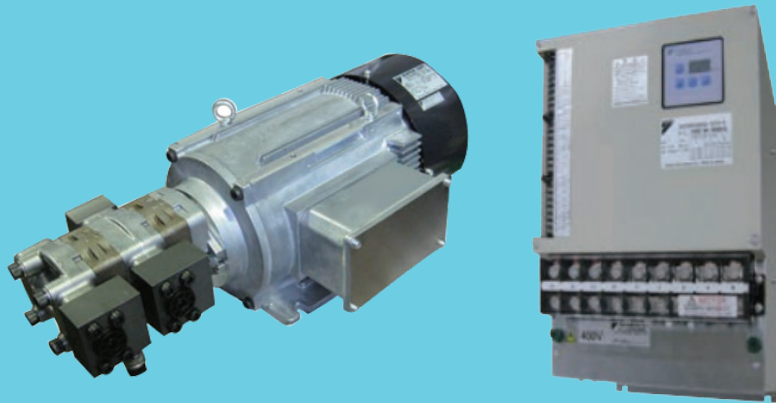
Cost of running hydraulic pumps after swap:
 $365.497272 \times 1.6150 \times 240 = \$ 141,664.80$

Power Savings
\$222,250.00
MXN per year



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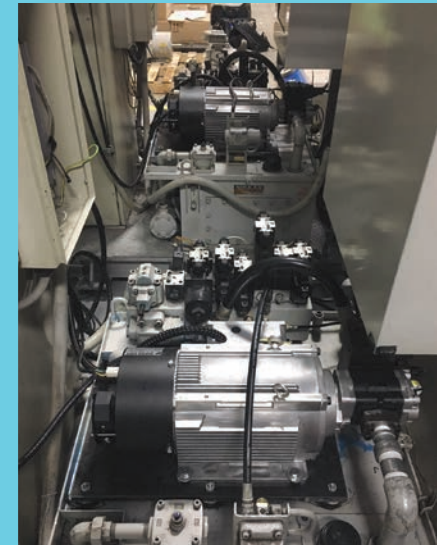
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**DAIKIN HYBRID HYDRAULIC
SUT00S8018-30-A**

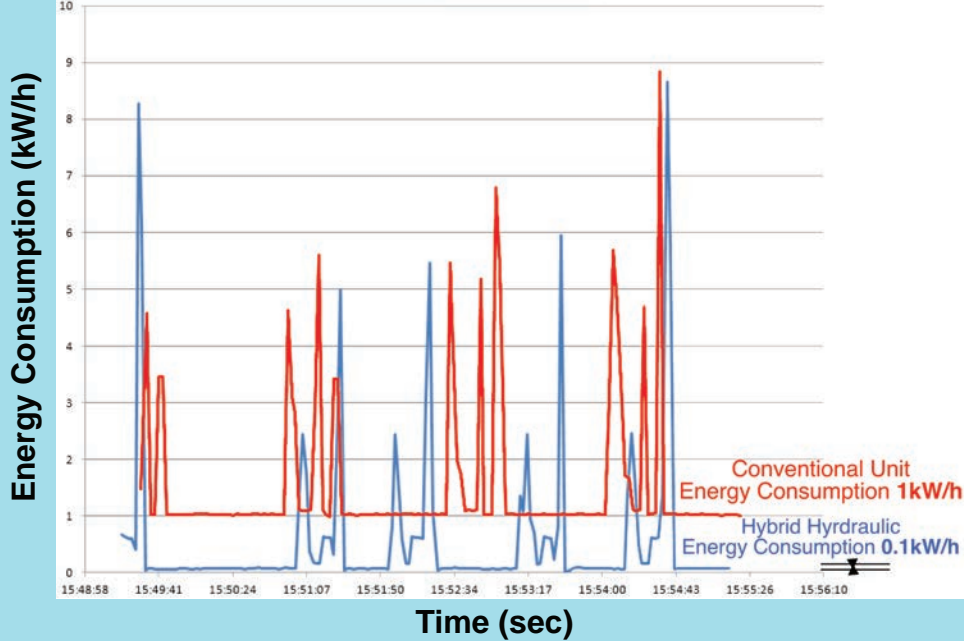


**PREVIOUS
MANUFACTURER UNIT**

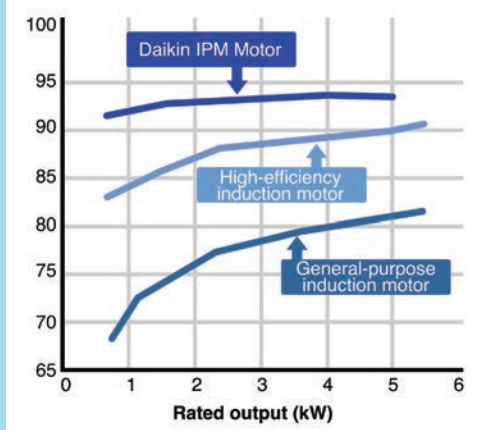


**DAIKIN
ENERGY EFFICIENT UNIT**

DAIKIN HYBRID HYDRAULIC SUT00S801-30-A

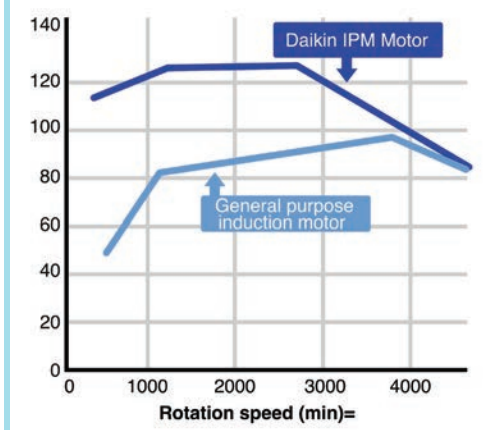


Comparison of motor efficiency



Daikin IPM motors have even greater efficiency than general purpose induction motors and high-efficiency induction motors.

Large torque at low speed



Daikin IPM motors are capable of outputting a large torque in low-speed ranges, eliminating the problems with insufficient torque in low-speed ranges often observed with general purpose inverters.