

***In this month's Hydrafile:******National Product Manager - Power Transmission:***

Brent Cleland joins us with over 20 years experience in the mechanical power transmission industry...



Brent Cleland  
National Product Manager - Power Transmission

Hyspecs stocks a full line of Comer Industries PG and PGA planetary drives. Being a new and complimentary line for our hydraulic and electric motor products, Hyspecs has appointed a National Product Manager to provide you with the best service possible.

Brent will be based in our Christchurch office, travelling through to the North Island on a regular basis. Working primarily on the road, Brent will provide face to face consultation for your power transmission requirements. Along with Brent, Hyspecs has nine other on-road sales engineers capable of covering all New Zealand.

For more information on Hyspecs range of planetary drives and full power transmission solutions call Brent (029 200 4823) or email <mailto:brentc@hyspecs.co.nz>

For detailed Comer planetary drive specification information click the following link to take you to our website: <http://www.hyspecs.co.nz/Comer%20Drives.html>

***Technical Corner:***

Congratulations to the winners of last months prize giveaway...Alec and Boele. We had five prizes to give away but only two people got the correct answers...

The correct answers to last month questions were: 1. Accumulator 2. Piston or Vane 3. 126 cc/rev 4. Pilot Operated or Differential 5. Piston area and oil pressure

Some people argued that last months questions were a bit ambiguous and that is why we had more than one correct answer for some questions. This month we are going to make it a bit easier by having questions with one correct answer only. The first three people to email the correct answers will win a prize. The gift choices will be either a Hyspecs foldaway chair, BBQ Tongs or Binoculars.

To answer the following questions click the following link: <mailto:competition@hyspecs.co.nz>. Answer the questions and press send. Don't forget to include your contact details. Winners and answers will be announced in next months Hydrafile.

1. What is the theoretical power (kW) output of a 350cc/rev hydraulic motor spinning at 300 rpm at a hydraulic pressure of 210 bar?
2. How much power dissipated as heat (kW) would a relief valve be generating if it is relieving at 200 bar and a flow of 30 litres/minute?
3. If a winch drum is 1 metre in diameter and there is 100 metres of wire to winch in, how many turns of the drum is needed from empty to full? (neglect the change in drum diameter due to wire thickness)

4. How much torque does a hydraulic motor need to develop to hold/winch a 1 tonne mass on a 1 metre diameter drum? (assume gravity = 9.81)
5. What is the stroke-out time (fully closed to fully open) of a double acting cylinder with a bore/piston diameter of 50mm and stroke of 500mm with an oil flow rate of 10 litres/min?

For those finding the questions a bit on the tough side or would like to know more about hydraulics, Hyspecs Auckland and Christchurch will be holding a Stage One Hydraulic Seminar in November this year. If you are interested and would like more information on the seminar please email <mailto:seminar@hyspecs.co.nz>

### **Sponsored Motorcross Champion:**

#### **Sam Henderson kicks some butt...**

Hyspecs is proud to sponsor 14 year old Sam Henderson in his efforts to be the best ATV motor cross champion possible. Racing in the 12-16 year old division, Sam has been riding ATV's competitively for 3 years. His bike is a Yamaha Blaster with a Duncan Racing modified 200cc 2-stroke engine. Riding this weapon has seen Sam well on to his way to being the best already, with some of his efforts to date including:

- 1st at the Ashburton Wheels Week TT across
- 1st at the Canterbury ATV TT champs 12-16 yrs
- 2nd in the senior class at the Canterbury ATV TT Champs 0-225 2 stroke/ 300 4 stroke
- 1st at the Marlborough ATV motorcross champs
- 1st at the Canterbury ATV TT across champs



With the ATV Motorcross Nationals coming up on the 8-9th of October we reckon Sam is a sure bet for a win (no pressure Sam). Ultimately Sam wants to be competing in the USA and Hyspecs will do all it can to help him with sponsorship towards that goal.



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