

BRAKE SYSTEM

BERINGER®

AN ADVANCED TECHNOLOGY BRAKE SYSTEM

CATALOGUE 2007

Indice A du 25/04/07

www.beringer.fr

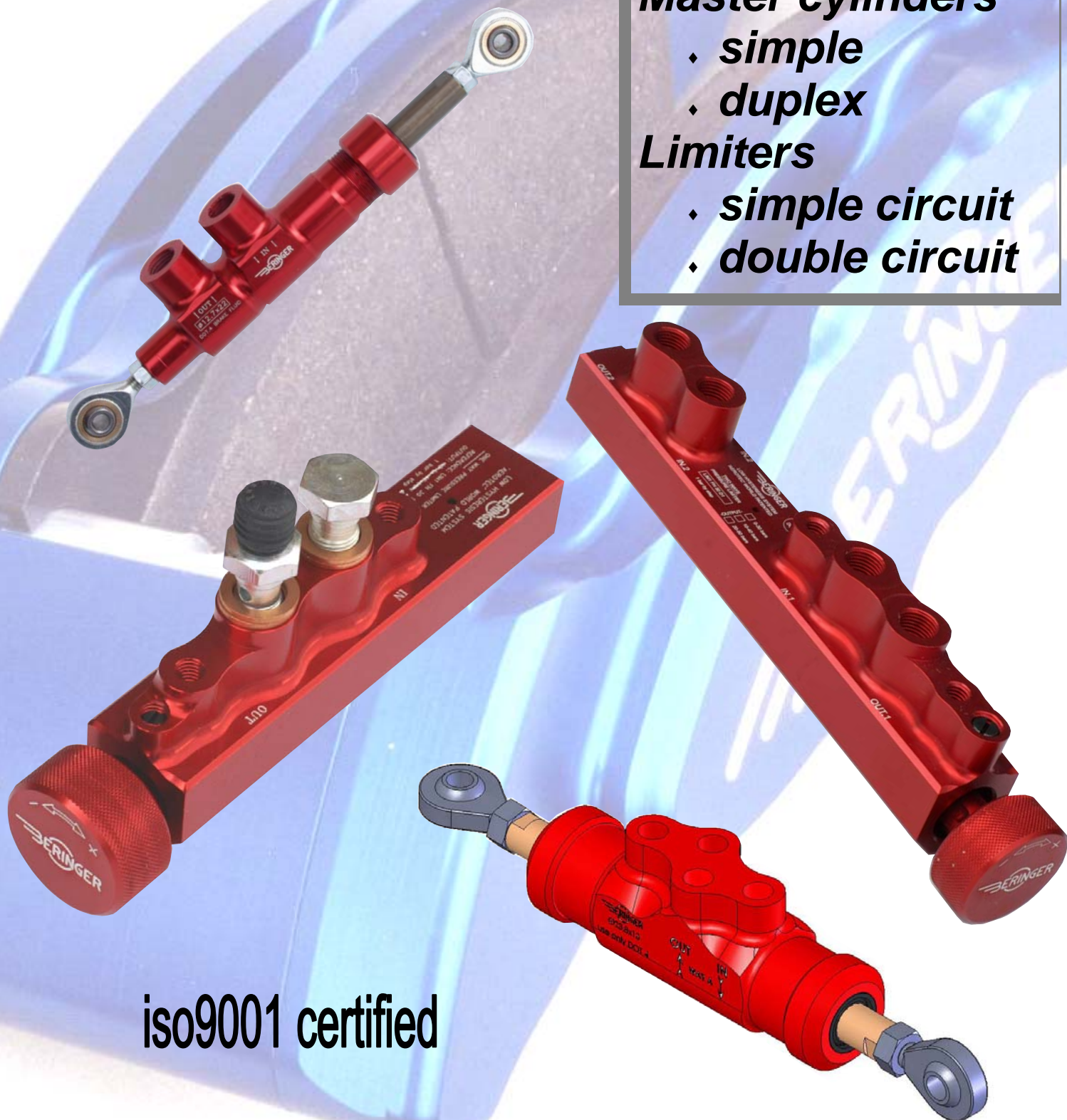
BRAKING SYSTEMS for CARS

Master cylinders

- *simple*
- *duplex*

Limiters

- *simple circuit*
- *double circuit*



iso9001 certified

Braking master cylinders

Simple master cylinders

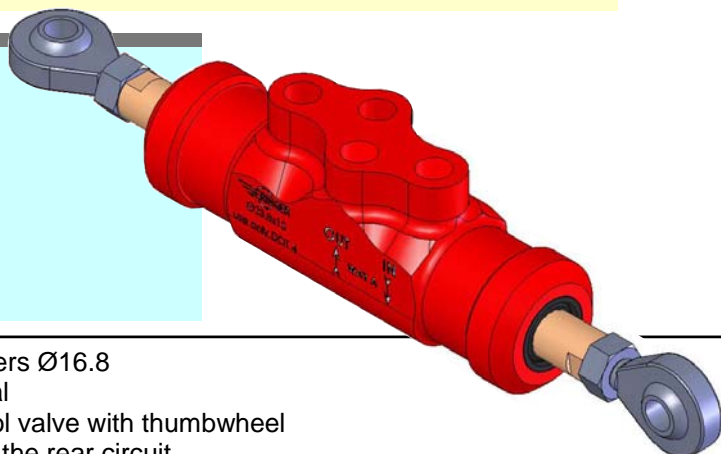
Thanks to a long experience in braking systems for motorbikes, BERINGER® has developed a range of braking master cylinders machined from billet aluminium on CNC and fully anodized (protection against corrosion).

These very light master cylinders (from 73 g) offer an exceptional feeling to the pedal. The two rod ends allow a very simple mounting and ensure an effort on the piston always perfectly in the axle of the cylinder.



Master cylinder DUPLEX: Replaces the rudder pedals

- diameter of the piston circuit A and B: Ø23.8
- total stroke per circuit: 14mm
- effective stroke per circuit: 13mm
- effective volume per circuit: 5780mm³

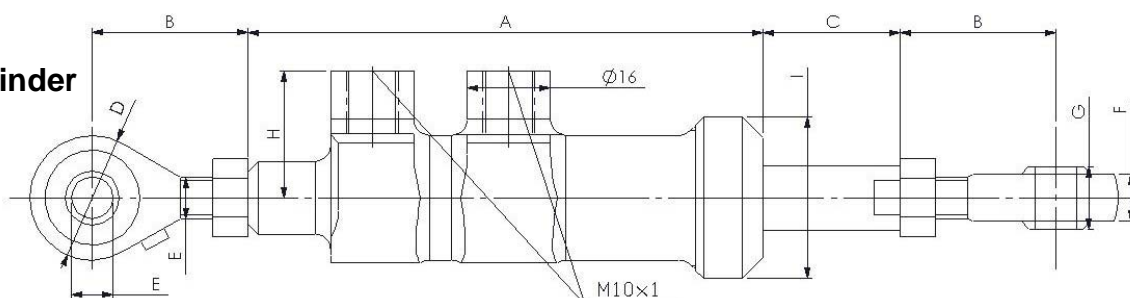


The master cylinder DUPLEX replaces : - 2 master cylinders Ø16.8
- the double pedal
- the brake control valve with thumbwheel

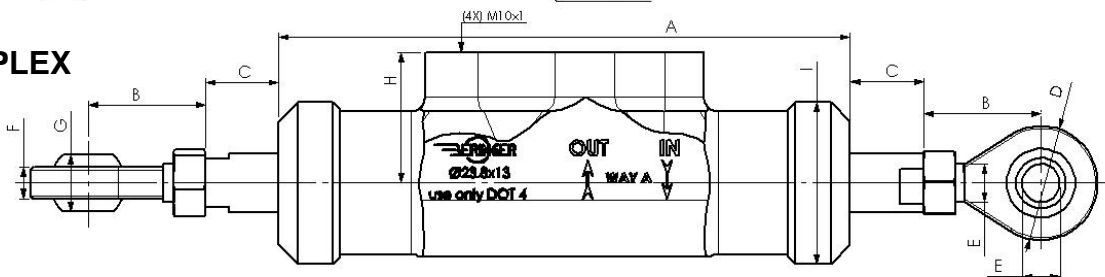
The distribution can be made with a brake control valve on the rear circuit.

Reliable and simple system: does not need maintenance, offers a constant working, easy to install on the frame, economical: you keep the original pedals.

Simple master cylinder



Master cylinder DUPLEX



Part n° remark	MC12,7 Hand brake	MC14,5	MC17,5	MC20,6	MC23,8	MC23,8-23,8 Equivalent to two Ø16,8 master cylinders in parallel mounted
Ø piston	12,7	14,5	17,5	20,6	23,8	23,8 x 2
A	95	100	100	100	100	138
B	19-28	23-31	23-31	23-31	23-31	23-31
C	2,5 - 23,5	3,5-26,5	3,5-26,5	3,5-26,5	3,5-26,5	1,5-15,5
stroke	21	23	23	23	23	14
D	20	24	24	24	24	24
E	Ø6 / M6	Ø8 / M8	Ø8 / M8	Ø8 / M8	Ø8 / M8	Ø8 / M8
F	6,7	9	9	9	9	9
G	9	12	12	12	12	12
H	22,0	22,9	24,4	25,9	27,5	27,5
I	22	31	31	31	34	34
Retail prices	280 €	280 €	280 €	280 €	280 €	527 €

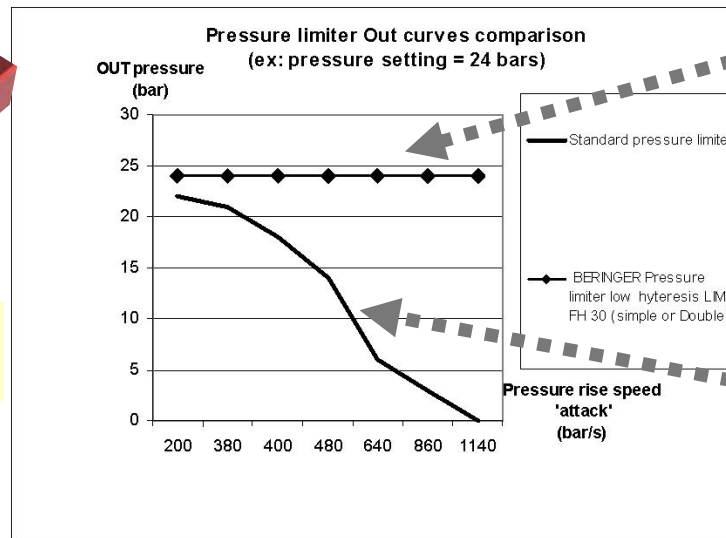
Braking Limiters / Regulators / Control valves

Very fast AEROTEC® brake control valves: keep the operating pressure within ± 0.5 bars till pressure rise times up to 1000bars/s

BERINGER® offers a range of braking control valves machined on CNC from billet aluminium and fully anodized (protection against corrosion).

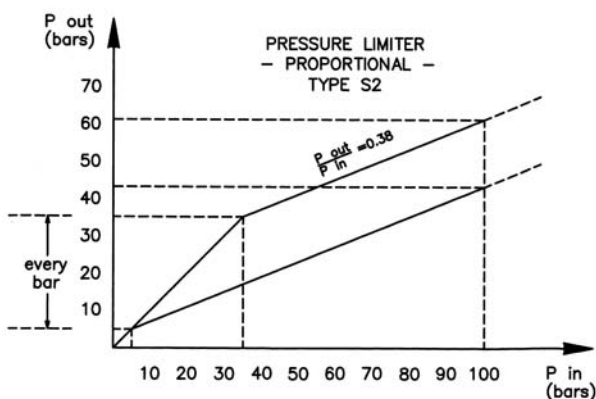


**Control valve
simple circuit**



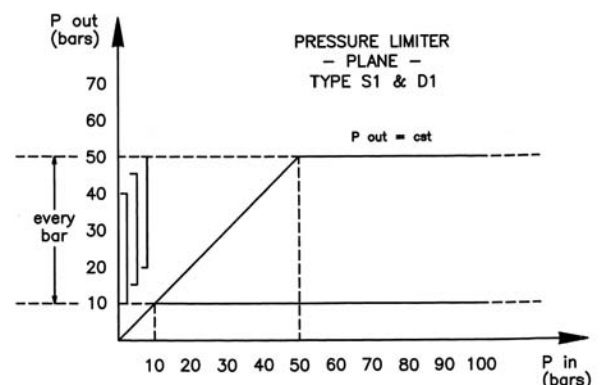
BERINGER AEROTEC® CONTROL VALVE (maintain the operating pressure with great accuracy)

Normal control valve: the operating pressure varies following the pressure rise: it is necessary to adjust very often the control valve.

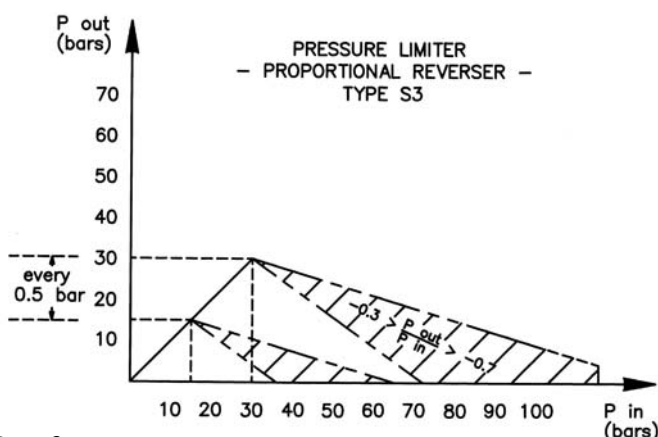


← **simple circuit, proportional curve** : recommended for the cars with little weight transfer on the front (center of gravity low and centered) like the single seaters.

- **simple circuit, plane curve** →
- **double circuit, plane curve:** for cars with center of gravity in average position like rallye cars



← **simple circuit, proportional reverser curve:** for cars with the engine in the front, or with high center of gravity with an important weight transfer on the front (until to unload the rear wheels) as tourism cars, off road cars and quads.

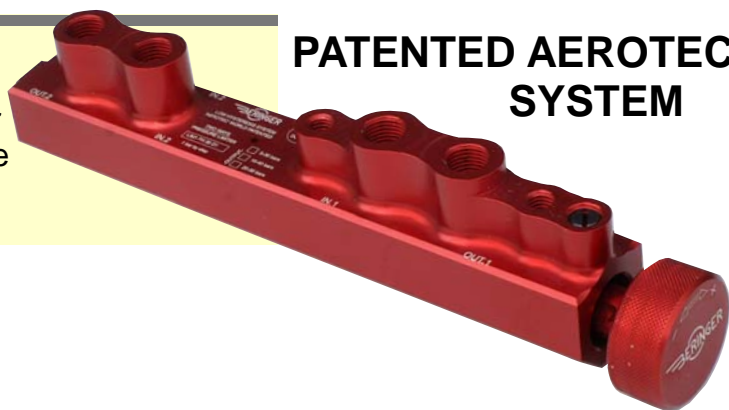


Braking Limiters / Regulators / Control valves

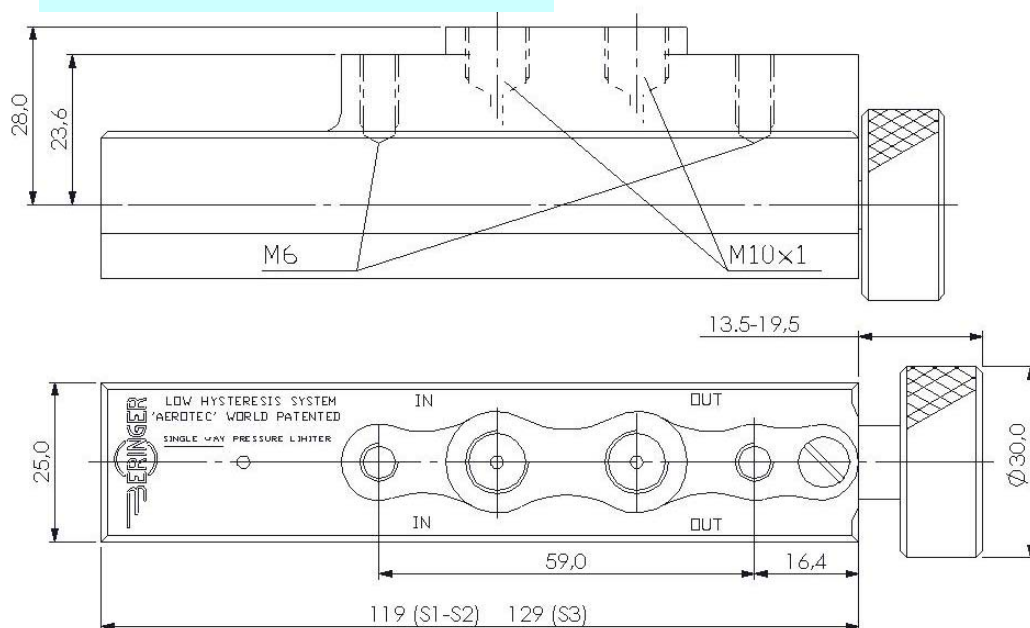
Double braking control valve

The control valve double circuit is made for the X braking systems (N group). It ensures the same cut-out pressure on each rear wheel.

**PATENTED AEROTEC®
SYSTEM**

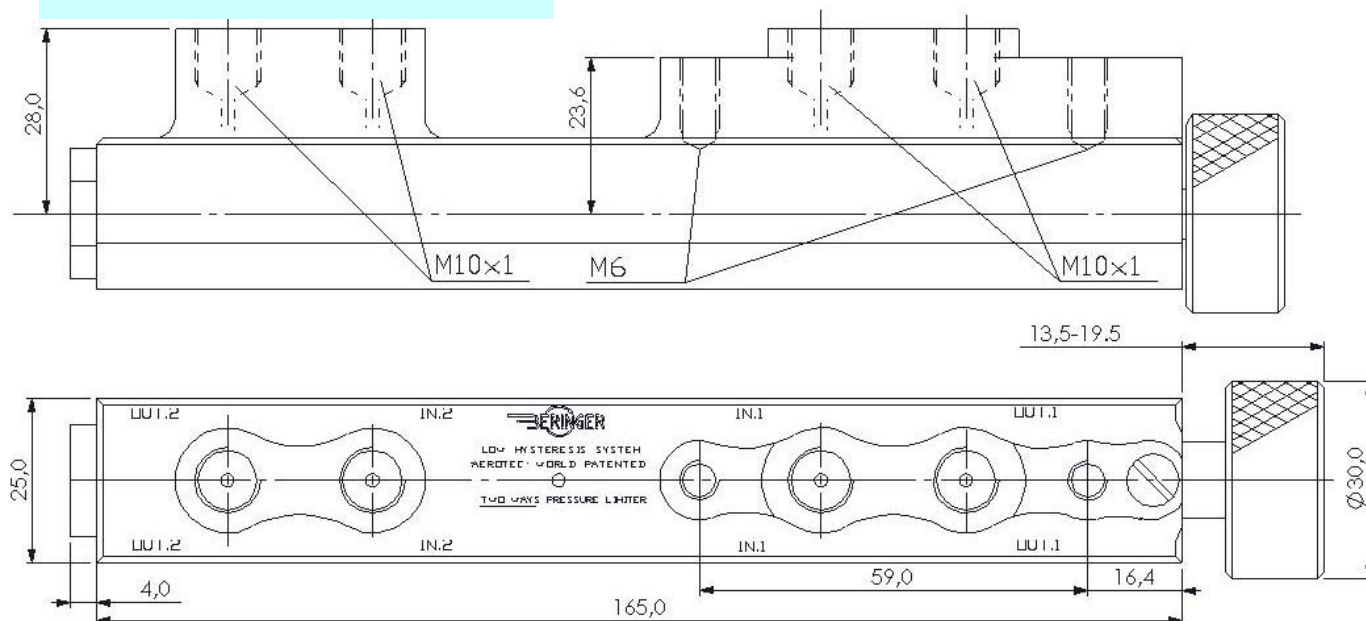


Control valve simple circuit



**AEROTEC®
PATENTS**

Control valve double circuit



Part n°	LIM1 S1	LIM1 S2	LIM1 S3	LIM1 D1
description	Simple circuit plane curve	Simple circuit proportional curve	Simple circuit proportional reverser curve	Double circuit plane curve
Retail price	220 €	250 €	250€	330 €

BERINGER® COMPANY

BERINGER® company has been manufacturing brakes for racing for more than 15 years, with an unequalled spirit of quality and performance.

A decisive technological advance

Very quickly BERINGER® braking parts have been appreciated by top racing teams for their exceptional performance and reliability. This enabled BERINGER® to enter and stay in the Endurance World Championships, supplying a lot of teams in 12 years and winning the 2000 and 2003 World Champion title with the Phase One Team, and the 2002 title with ZONGSHEN team. This was made possible because of a staff of impassionate Engineers who were able to study and develop new products specific to each use. These patented innovations have allowed BERINGER brakes to take a decisive technological advance.

The **4 disc AEROTEC®** used in Superbike races is a good example, as well as the AEROTEC® master cylinders mounted on bearings which give the riders an exceptional feeling, or the famous AERONAL discs that became Supersport World Champion in 2000 with Team Alpha Technik.

Worldwide Supermoto top riders choose BERINGER® brakes

Supermoto top riders around the World use BERINGER® Supermoto kits that help them win their national championships. In 2005, BERINGER® brakes were French, Spanish, Australian, Italian, British, Canadian Champion and runner-up in the US AMA and Canadian Championships.

BERINGER® and R&D

Another facet of BERINGER® is that of **Engineering** braking system for any kind of vehicle: from mountain bikes to light planes but also cars, scooters or ATVs.

BERINGER® company has always invested a lot in innovations: more than 10% of its profits are dedicated each year to the R&D department which has yielded more than **10 Worldwide patents**.

BREVETS
AEROTEC®

BERINGER® and QUALITY

BERINGER® combines performance and **quality** and always keeps the brakes users absolute in mind, and has thereby obtained several quality label certifications: **ISO 9001, UTAC, TÜV.**

BERINGER makes no difference between the parts for street riders and race pilots.

BERINGER braking systems are studied to stand up to the stress of competition.

All Beringer users therefore enjoy our constant technological advance.

De ce fait vous bénéficiez des avancées technologiques constamment appliquées aux produits que vous achetez.

ISO 9001
certified



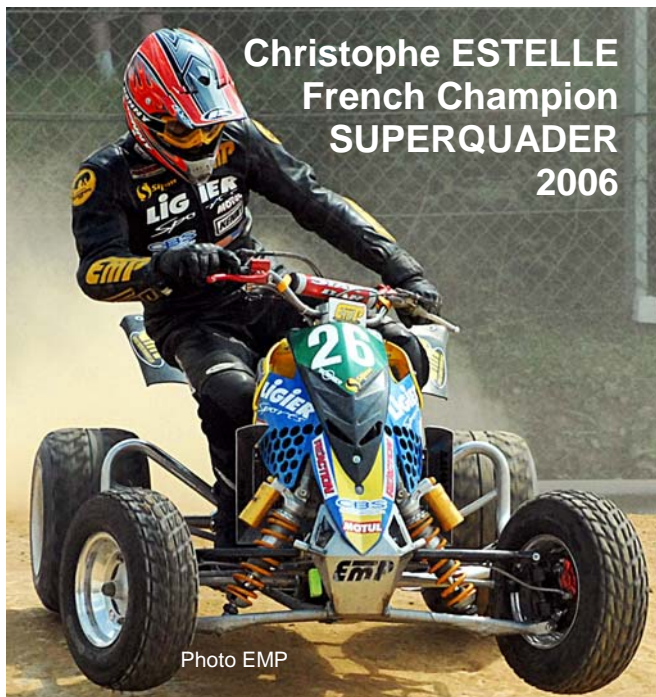
**2005 Supertourism
French Champion**

**Eric DEBARD
406 SOLUTION F**

An advanced technology: the COMPETITION



TEAM BOLLIGER



Christophe ESTELLE
French Champion
SUPERQUADER
2006

Photo EMP



Pawel SOBCZYK
2006 Superquader
European Cham-
pion

**Endurance: BERINGER® is 2000
2002 2003 World Champion
In 2006 4 out of the 6 first riders chose
BERINGER® BRAKES**



TEAM PHASE ONE



Adrien CHAREYRE
2006 SUPERMOTARD
French Champion



Thomas VERSCHEURE
2006 Supermotard minime 85cc
French Champion