



The front changer has been specifically designed for today's newest chains. It is extremely precise with a very low coefficient of friction. Built to withstand the rigors of professional racing it features an anodized aluminium body with Teflon treated, stainless steel, pivot pins. The cage is made of heat-treated, chromed, steel and is profiled to provide ultra fast shifts without having to trim it even when the chain is at extreme cross-over angles.

Besides the braze-on and clamp-on versions, there is also a front changer with an adjustable clamp for frames with tube diameters from 28 to 33 mm.



#### BRAKES

One of the many technically innovative components of the CROCE D'AUNE group are the brakes. They feature the "PENTA-DRIVE System", a new concept in braking developed by Campagnolo. With "PENTA-DRIVE System" the force applied to the brake levers is multiplied to provide greater stopping power at the rim's surface.

The "PENTA-DRIVE System" is made up of a double series of four stainless steel arms and a cable locking pivot. The arms are connected to five Teflon treated stainless steel pivots so that they form a pentagonal shape. When the brake cable is pulled, the cable locking pivot slides inside a guide built into the caliper body causing the interconnected arms to pivot at their joints and force the caliper arms, attached at two of these pivot points to move toward the rim.

The force being transferred to the two caliper arms is equally and automatically divided by the cable pivot guide. This insures that the brake will remain centered and that the same amount of force is applied by both brake pads, to the rim. The result is a smooth, powerful

braking action, progressively applied to the rim which eliminates slipping and lack of precision in stopping. Unequal application of force to both sides of the rim surface often occurs with traditional caliper brakes and no matter how slight or brief in duration can cause dangerous skidding at high downhill speeds. Campagnolo's "PENTA-DRIVE System" effectively eliminates this phenomena giving the rider complete confidence at any speed. Tremendous research and constant testing have gone into developing the compound for the CROCE D'AUNE brake pad. This compound has been developed to provide controlled deceleration



under any condition whether it be the cold, wet racing environment of Northern Europe or the dry sizzling heat of the California desert. The brake pad holders are uniquely designed so that they can be adjusted for correct toe-in and to compensate for any rim shape in order to provide 100% surface contact. The brake shoes themselves can be raised or lowered on the caliper arms as usual.

CROCE D'AUNE brake sets are equipped with our new exclusive brake levers featuring the patented "POWER GRADE System", complete with a push button type quick release mechanism for the fast and efficient opening of the brake caliper. The "POWER GRADE System" offers the possibility of micrometric adjustment between the force applied to the brake levers and the brake force response.

In addition, as optional, Record Compact brake levers are also available. The geometry of these levers has been designed for riders who want to reach the brake levers more easily. The Record Compact brake levers will mount 12 mm. closer to the handlebar than traditional levers.



#### CHAINWHEEL AND BOTTOM BRACKET

The CROCE D'AUNE crankset is the result of a design that combines the most sophisticated hot-forging techniques in the industry with computer designed pedal/chainwheel/bottom bracket coupling planes to produce one of the stiffest, most durable cranksets available.

The stem of the CROCE D'AUNE crank is connected to the center of the chainwheel and to two of the five arms that support the chainring. In line with the style launched by the Record crank, the CROCE D'AUNE design results in a single body with a curved surface.

The rigidity of this provides a steady working surface for the chainring so that it cannot be flexed, giving optimum transmission of energy to the chain. The bolt circle of the CROCE D'AUNE chainwheel is 135 mm. A complete series of chainrings are available in sizes of 39-47 teeth for the inner ring and 48-54 teeth for the outer ring. Crank lengths are supplied in 170, 172.5 and 175 mm sizes.

