



WORLD CHAMPIONSHIPS
LIBEREC & PYEONG CHANG 2009:

MOST SUCCESSFUL SKI BRAND

21x GOLD | 23x SILVER | 33x BRONZE

PETTER
NORTHUG (NOR)



WORLD CHAMPIONSHIPS
PYEONG CHANG (KOR) & LIBEREC (CZE) 2009

WCH REVIEW

MEDAL TRACKER NORDIC – LIBEREC (CZE)

▲ SKIS: 17 x Gold 14 x Silver 23 x Bronze

▲ BOOTS: 5 x Gold 4 x Silver 9 x Bronze

▲ POLES: 1 x Silver 1 x Bronze

▲ 52,9 % of all medals with skis were taken by Fischer athletes

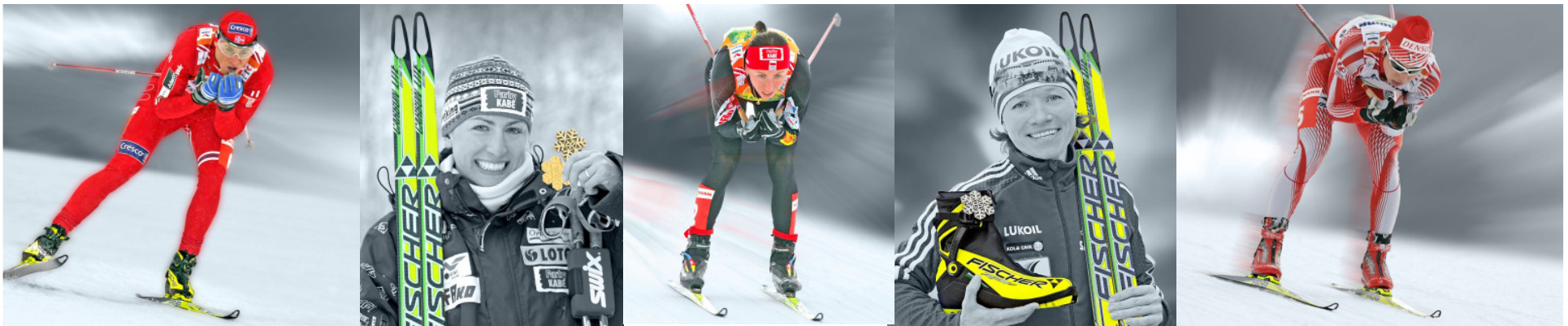
▲ 22 % of all medals with boots were taken by Fischer athletes



WCH REVIEW

MEDALS WITH FISCHER NORDIC HOLE SKI - NORDIC

- ▲ Gold Sprint - Ola Vigen Hattestad (NOR)
- ▲ Gold Pursuit - Justyna Kowalczyk (POL)
- ▲ Gold Team – Taihei Kato (JPN)
- ▲ Silver 50 km FT – Maxim Vylegzhanin (RUS)
- ▲ Silver 30 km FT – Evgenia Medvedeva (RUS)



WCH REVIEW

SUCCESS OF THE RCS CLASSIC ZERO

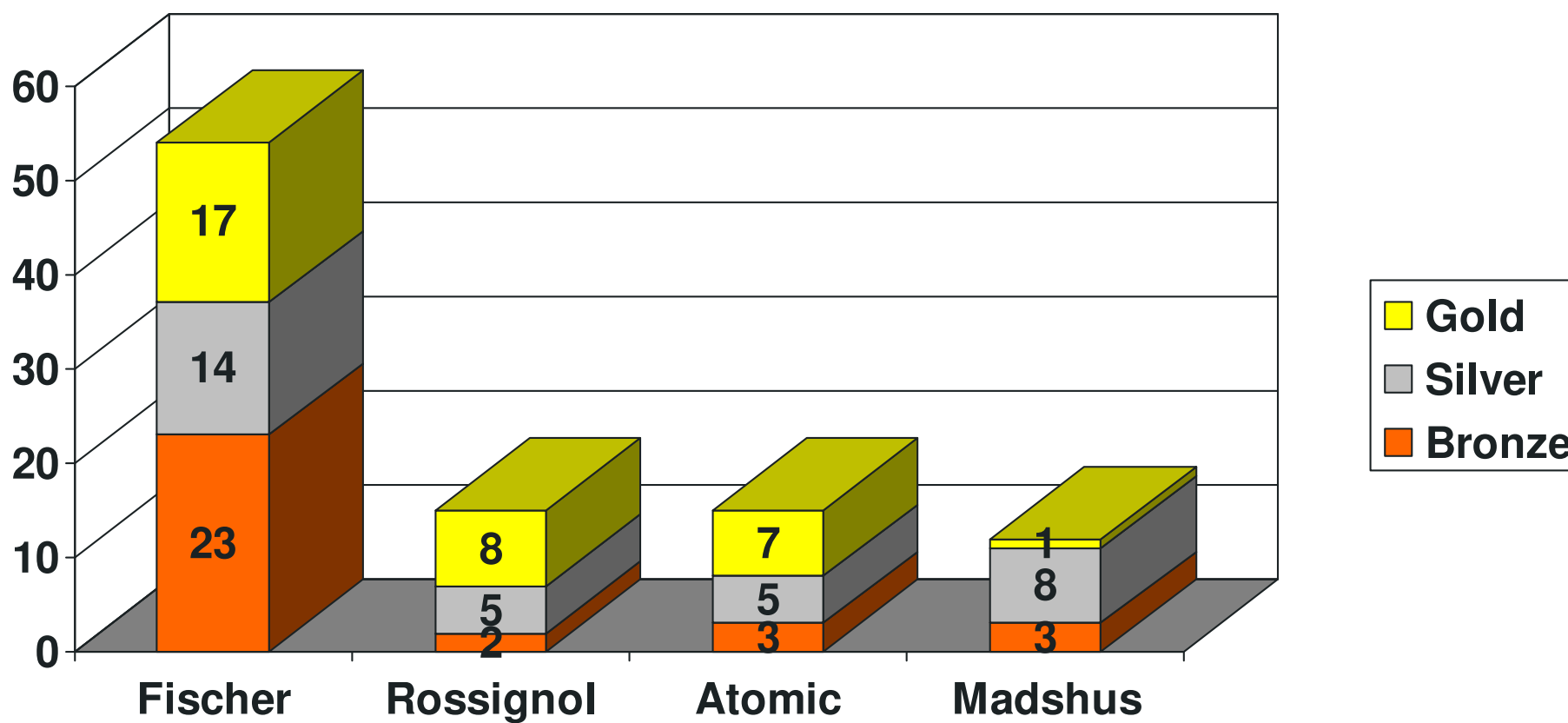
- Over 15 km in classical style the best six athletes succeeded with the **RCS Classic Zero**:

- 1. Andrus Veerpalu (EST)
- 2. Lukas Bauer (CZE)
- 3. Matti Heikkinen (FIN)
- 4. Kris Freeman (USA)
- 5. Jaak Mae (EST)
- 6. Dario Cologna (SUI)



WCH REVIEW

MEDAL TRACKER NORDIC REGARDING COMPANIES



WCH REVIEW

MEDAL TRACKER BIATHLON - PYEONG CHANG (KOR)

▲ SKIS: 4 x Gold 9 x Silver 10 x Bronze

▲ BOOTS: 4 x Gold 6 x Silver 6 x Bronze

▲ POLES: 1 x Bronze

▲ Premiere: First medal ever in the Fischer history on the complete package with Fischer skis, boots and poles thanks to Tora Berger (NOR, Bronze Individual).



WCH REVIEW

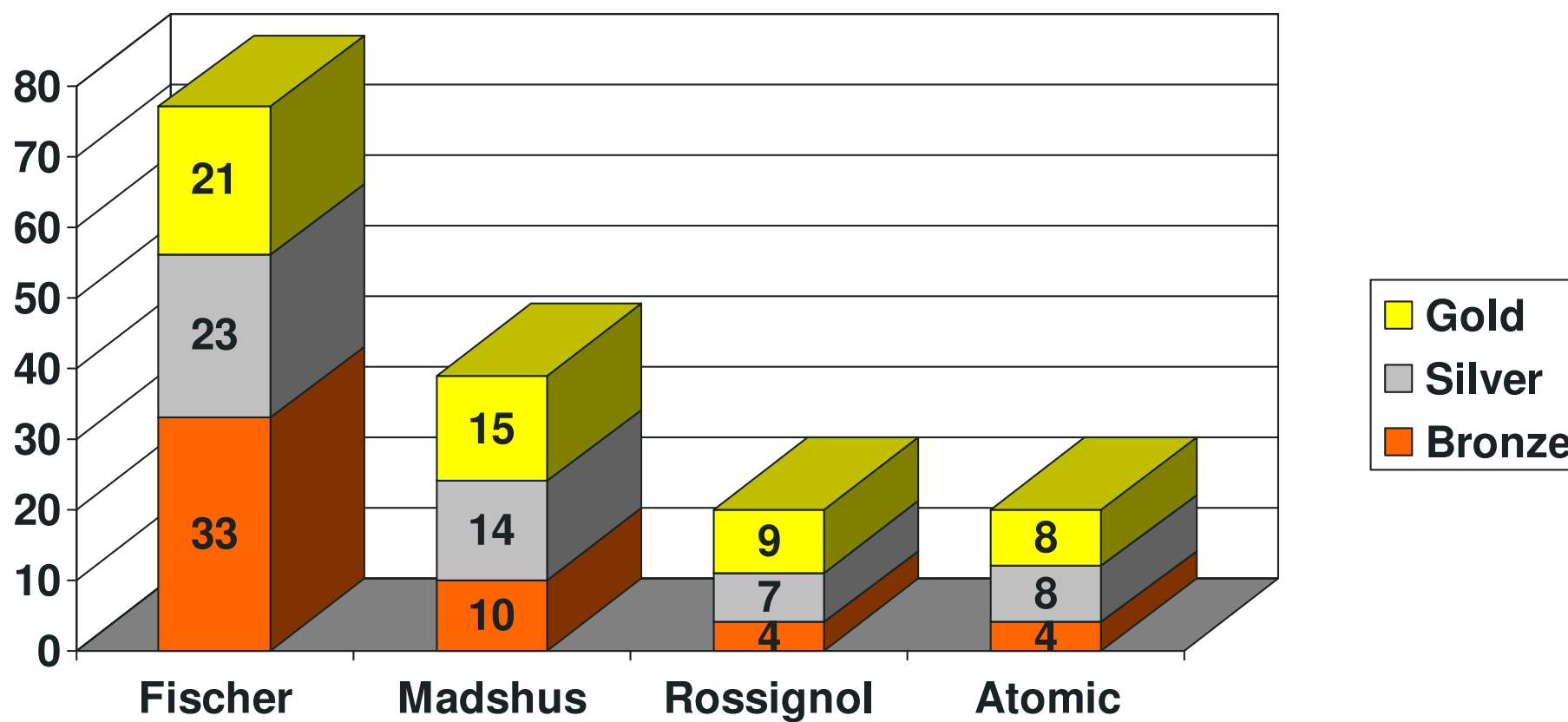
MEDALS WITH FISCHER NORDIC HOLE SKI - BIATHLON

- ▲ Gold Mixed Relay - Simon Fourcade (FRA)
- ▲ Gold Mass Start - Dominik Landertinger (AUT)
- ▲ Gold Pursuit - Helena Jonsson (SWE)
- ▲ Silver Relay - Dominik Landertinger (AUT)
- ▲ Bronze Mixed Relay - Arnd Peiffer (GER)



WCH REVIEW

MEDAL TRACKER NORDIC & BIATHLON REGARDING COMPANIES



WCH REVIEW

FACTS & FIGURES ABOUT NNN (NEW NORDIC NORM)

- ▲ 78,7 % of all WCH medal winners 2009 in the Cross Country, Nordic Combined and Biathlon disciplines succeeded with NNN.
- ▲ 82,9 % of the World Champions in Pyeong Chang (KOR) and Liberec (CZE) succeeded with NNN.
- ▲ Except one, all World Champions in Biathlon succeeded with NNN.





LIGHT WEIGHT IS A HOT TIP

NORDIC HOLE SKI 09I10

NORDIC HOLE SKI

LESS WEIGHT

- ⚠ The problem: every skating stride causes the tip of the ski to move in a motion that closely resembles a pendulum. A ski tip which is heavy will require more energy to return the ski to its initial starting position.



Strong pendulum motion

NORDIC HOLE SKI

LESS WEIGHT

- ▲ The solution: with its new hole ski construction, Fischer reduces the mass in the ski tip by 5 grams, using a special configuration of HM Carbon laminates.



Close-up of hole

NORDIC HOLE SKI

LESS WEIGHT

- ▲ The effect: less energy is required to return the ski to its initial starting position. This enables greater precision in skating strides and higher stride frequency.

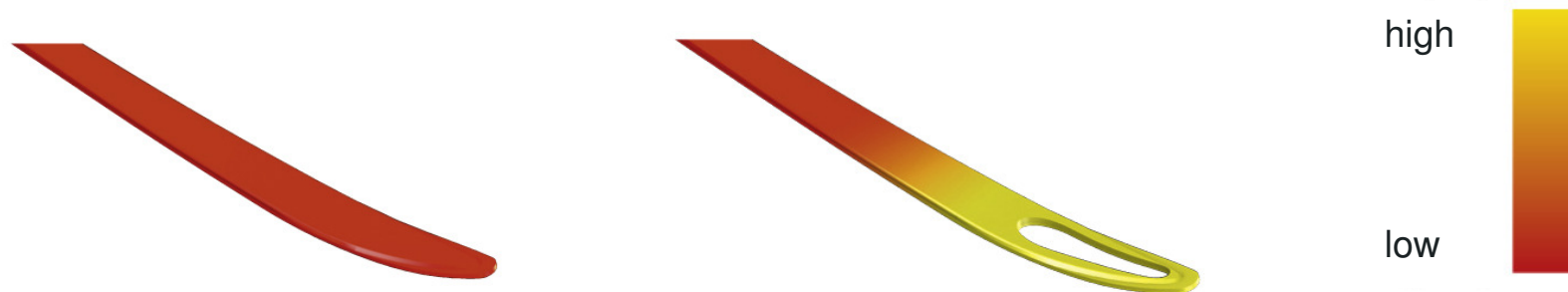


Minimised pendulum motion

NORDIC HOLE SKI

LOW ON WEIGHT – HIGH ON PRECISION

- ▲ Fischer uses the law of mass inertia in its hole ski technology. This law states that the further the weight is from the centre of rotation (the binding axis), the greater the effect it has on the mass inertia of the system. The hole ski construction reduces the mass in the ski tip, which reduces the swingweight of the ski in the skating stride, resulting in increased efficiency with each stride.



Maximum mass reduction

NORDIC HOLE SKI

OPTIMISED TRACKING

- Due to the pendulum motion, the tracking pattern is less constant. This means that the angle varies in size with every stride. The disadvantage: energy is lost by having to balance the pendulum motion.



Skating stride without
hole ski technology

NORDIC HOLE SKI

OPTIMISED TRACKING

- ⚙ The reduction of the pendulum motion ensures a smooth tracking pattern. This means that the angle of the two skating skis to each other is virtually exactly the same size in every stride. The advantage: optimum push in every stride



Skating stride with
hole ski technology

NORDIC HOLE SKI

CONVINCING ADVANTAGES

- ▲ Requires less effort
- ▲ Less energy loss
- ▲ Smoother flow
- ▲ More exact skate strides
- ▲ Higher stride frequency
- ▲ Faster speeds

