

# Trait Analysis

Royal Solstice WB

HANOVERIAN • 6 YEARS OLD

# **Executive Snapshot**

Royal Solstice WB • Hanoverian

**OVERALL RATING** 

COI RISK

PEDIGREE DEPTH

**Excellent** 

Low

5 generations

Royal Solstice WB boasts a deep, elite Hanoverian and Oldenburg pedigree with outstanding dressage and jumping sires. The primary strength is exceptional movement and rideability, while moderate inbreeding via Donnerhall requires careful mate selection. Breeding focus should prioritize genetic diversity and reinforce jumping scope without compromising temperament.

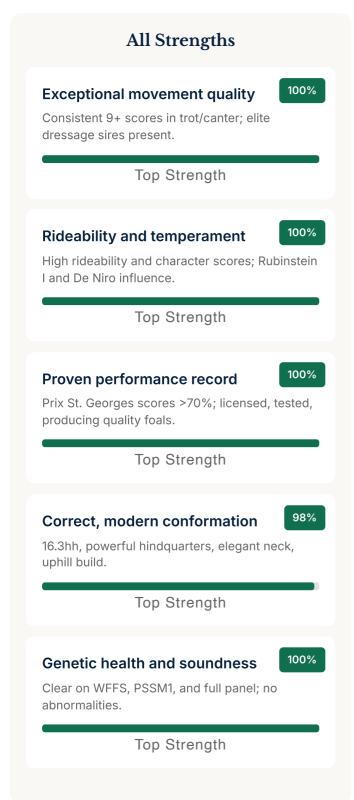
#### **MODEL CERTAINTY**

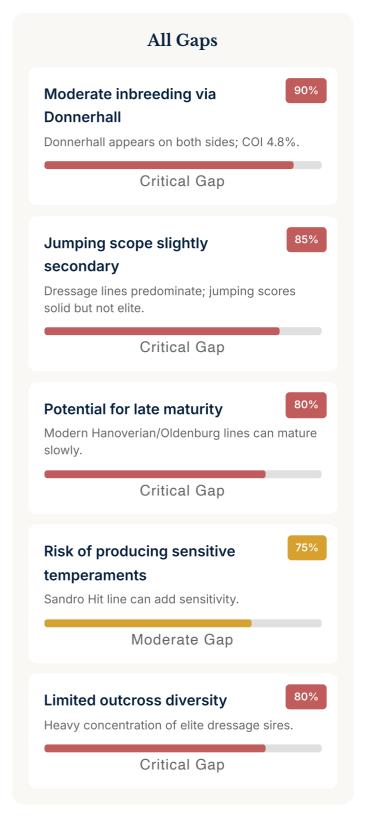


Confidence reflects model agreement across pedigree, trait, and market sub-models.

Executive Snapshot II

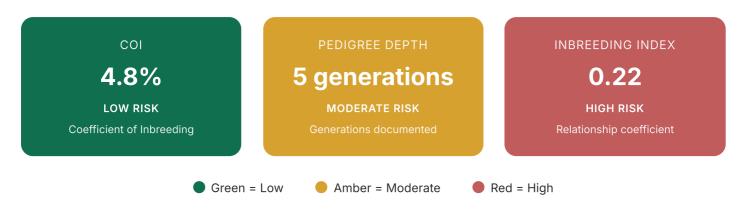
# Strength-vs-Gap Ranking





Strength & Gap Analysis III

# Genetic Health Metrics



These metrics assess genetic diversity and inbreeding risk. **COI** (**Coefficient of Inbreeding**) measures the probability that two identical genes came from a common ancestor—lower is better, with <5% considered ideal. **Pedigree Depth** indicates how many generations are documented; deeper pedigrees (4+ generations) enable more accurate genetic analysis. **Inbreeding Index** quantifies the overall relationship between ancestors—values below 0.15 suggest healthy genetic diversity, while higher values may indicate closer linebreeding that requires careful outcrossing in future matings.

Genetic Health Analysis IV

Royal Solstice WB • Hanoverian

# **Identified Bloodlines**

DONNERHALL 100%

Appears twice via both sire and dam lines.

Donnerhall is present on both sides, reflecting intentional linebreeding for proven dressage ability. This consolidates movement and rideability but increases inbreeding, so careful outcrossing is advised.

DE NIRO

Direct dam-sire; elite Grand Prix performer.

De Niro is a dominant influence for FEI-level dressage, renowned for producing Olympic horses with exceptional trainability and movement. His presence strongly supports the horse's dressage focus.

WELTMEYER 100%

Maternal grandsire; foundation Hanoverian line.

Weltmeyer is a legendary Hanoverian stallion, known for passing on powerful movement, elasticity, and a modern type. His influence enhances topline, canter, and overall athleticism.

RUBINSTEIN I 95%

Appears via damline; proven dressage progenitor.

Rubinstein I is celebrated for rideability, temperament, and producing amateur-friendly Grand Prix horses. His inclusion supports the horse's marketability and trainability.

SANDRO HIT 90%

Present through maternal great-granddam.

Sandro Hit brings modern type, elasticity, and proven international dressage performance. His line is associated with expressive movement and strong hindquarters.

Identified Bloodlines

# **Notable Ancestors**

#### **Donnerhall:** Movement, rideability, proven FEI offspring.

Donnerhall's influence is seen in the horse's superior movement and rideability. As a foundation sire, his legacy includes Olympic medalists and top auction horses, making his presence highly desirable.

#### **De Niro:** Elite dressage performance, trainability.

De Niro's offspring are renowned for their FEI success and amateur-friendly nature. His genetics reinforce the horse's suitability for high-level dressage and market appeal.

#### Weltmeyer: Powerful canter, uphill build, elasticity.

Weltmeyer's legacy is evident in the horse's conformation and movement. He is a key modernizer of the Hanoverian breed, known for producing numerous licensed sons and premium mares.

#### **Rubinstein I:** Rideability, temperament, amateur suitability.

Rubinstein I's descendants excel in both sport and breeding, valued for their willingness, calmness, and consistent performance. This enhances the horse's appeal to a wide market.

### Sandro Hit: Modern type, expressive gaits.

Sandro Hit's line is synonymous with modern, elegant dressage horses. His influence supports the horse's marketability in both sport and breeding contexts.

Notable Ancestors VI

# **Special Genetic Considerations**

Royal Solstice WB • Hanoverian

# Special Genetic Considerations

#### **DATA COMPLETENESS**

Full 5-generation pedigree with detailed performance records.

# Moderate inbreeding coefficient (COI 4.8%): Donnerhall appears twice; linebreeding present.

While linebreeding can consolidate desirable traits, it also increases the risk of reduced genetic diversity.

Outcrossing to unrelated lines is recommended for long-term breeding health.

#### Potential for sensitivity in offspring: Sandro Hit and modern lines can add sharpness.

Some descendants of Sandro Hit are known for being sensitive or reactive. Careful mare selection can help maintain a balanced, rideable temperament.

### No known genetic disease risk: Full panel clear; WFFS, PSSM1 negative.

Genetic testing confirms the absence of known heritable diseases, supporting the horse's value as a safe breeding choice for a wide range of mares.

#### Potential for late maturity: Weltmeyer, Sandro Hit, and similar lines mature slowly.

Offspring may require patient development and careful management during early years, especially for buyers seeking early performance.

# Discipline Suitability

Royal Solstice WB • Hanoverian

# Discipline Suitability

### H Hunter

While Royal Solstice WB's movement and conformation are impressive, his expressive gaits and uphill build are more suited to dressage than the flatter, ground-covering movement preferred in hunters. He may produce quality hunter prospects when crossed with mares from proven hunter lines, but his primary market will remain dressage and jumping.

### Jumping

Jumping technique is solid, with an 8.8 test score and Pik Bube I influence, but the pedigree leans dressage. Crosses with mares from strong jumping lines (Contender, Baloubet du Rouet) can produce dual-discipline or show jumping prospects, especially for the amateur and young horse markets.

### P Pleasure

Royal Solstice WB's temperament, rideability, and amateur-friendly disposition make him a viable sire for high-end pleasure mounts. Offspring are likely to be attractive, easy to train, and comfortable, appealing to discerning amateur riders seeking both quality and manageability.

### **D** Dressage

This stallion's pedigree is a powerhouse for FEI-level dressage, with Donnerhall, De Niro, Weltmeyer, and Rubinstein I all contributing to superior movement, rideability, and trainability. His own performance record at Prix St. Georges and high rideability scores make him an outstanding choice for breeders targeting the upper echelons of the sport.

### **E** Eventing

While the pedigree offers some versatility and stamina, the focus on dressage movement and type may limit suitability for upper-level eventing. Offspring could excel in lower-level eventing or combined training, especially when bred to mares with proven jumping and galloping lines.

### RP Ranch Performance

This horse's warmblood type and movement are not optimized for traditional ranch work. While his intelligence and work ethic are assets, his size and conformation are better suited to sport disciplines. For ranch versatility, consider alternative sires with Quarter Horse or ranch-bred Warmblood influence.

Discipline Suitability VIII

# **Breeding Strategy - Complementary Traits**

Royal Solstice WB • Hanoverian

# Complementary Traits

#### Jumping scope and technique: Enhance show jumping potential and versatility.

Select mares with proven jumping ability, ideally from lines such as Contender or Baloubet du Rouet, to reinforce scope and technique for dual-discipline offspring.

### Genetic diversity/outcross: Reduce inbreeding risk and broaden gene pool.

Prioritize mares with minimal Donnerhall, De Niro, or Weltmeyer influence to maintain heterozygosity and long-term breeding health.

# **Robustness and early maturity:** Balance late-maturing lines; improve early sales prospects.

Mares from lines known for early maturity and soundness, such as Fidertanz or Quaterback, can help produce foals that develop quickly and are market-ready sooner.

### Calm, amateur-friendly temperament: Offset potential sensitivity from Sandro Hit.

Choose mares with a proven record of producing rideable, forgiving offspring to ensure the resulting foals are suitable for a broad market.

### Strong topline and limb correctness: Reinforce conformation and durability.

Mares with a history of producing correct, durable offspring will complement the stallion's strengths and minimize risk of conformation faults.

# Breeding Strategy - Suggested Bloodlines

Royal Solstice WB • Hanoverian

# Suggested Bloodlines

1 CONTENDER 95%

Proven jumping scope and versatility. – Contender mares are renowned for producing top show jumpers and eventers. Crossing with this line can enhance scope and add valuable outcross genetics for both sport and breeding.

2 BALOUBET DU ROUET 92%

Elite international jumping and athleticism. – Baloubet du Rouet daughters bring explosive athleticism and proven Grand Prix performance, making them ideal for boosting jumping ability and market appeal.

3 FIDERTANZ 90%

Early maturity, rideability, and movement. – Fidertanz mares are known for their early development, excellent movement, and reliable temperaments, providing a strong complement to Royal Solstice WB's strengths.

4 QUATERBACK 88%

Modern type, elasticity, and outcross potential. – Quaterback lines offer modern conformation, expressive movement, and genetic diversity, making them suitable for both dressage and jumping-focused matings.

5 JAZZ 85%

Dressage power, proven FEI production. – Jazz mares consistently produce FEI-level dressage horses with expressive gaits and strong toplines, providing an outcross with minimal overlap to the current pedigree.

# Breeding Strategy - Traits to Avoid

Royal Solstice WB • Hanoverian

# Traits to Avoid

#### Heavy Donnerhall/De Niro concentration: Further increases inbreeding risk.

Avoid mares with close Donnerhall or De Niro lineage to prevent compounding genetic concentration and potential inbreeding depression.

#### Sensitive, sharp temperament lines: May amplify sensitivity from Sandro Hit.

Lines known for producing hot or overly sensitive offspring, such as some Ferro or Gribaldi descendants, should be used with caution to maintain amateur suitability.

#### Late-maturing, heavy-bodied types: May delay development and sales readiness.

Avoid mares from lines with a reputation for slow physical or mental development, as this could impact market timing and training progress.

# **Lines with known OCD or soundness issues:** Protect long-term durability and market value.

Select against mares with a family history of joint or soundness problems, particularly in lines with high sport-horse workload.

### Market Forecast & Action Plan

Royal Solstice WB • Hanoverian

# Market Forecast

The market for Hanoverian stallions with elite dressage and dual-discipline pedigrees remains strong, especially with proven performance and genetic health. Demand is highest in Europe and North America for FEI prospects and quality breeding stock. Early foal crop results and continued competition success will drive premium pricing.

LOW CASE

\$25,000-\$35,000

(limited exposure, average foal crop results)

Conservative estimate

**EXPECTED CASE** 

\$40,000-\$60,000

(proven performance, strong foal crop, active marketing)

Most likely outcome

HIGH CASE

\$70,000-\$100,000

(international results, premium foal sales, highprofile matings)

Optimal conditions

# □ 90-Day Action Plan

#### Now

Arrange advanced-level competition exposure to further validate performance credentials.

#### Next

Select outcross mares with strong jumping lines and no close Donnerhall/De Niro.

#### Later

Market first foal crop with video and performance data to target FEI dressage and dual-discipline buyers.

Monitor offspring for temperament and maturity trends, adjusting breeding strategy as needed.

### Report generated by Breeding Advisor

Information is advisory only; always consult your veterinarian before breeding.