



 **STARCO BELI
WHEEL RANGE**

STARCO, A MANUFACTURER

Group Vision

"To become the global market leader in special wheels"

Manufacturing and R&D is the foundation of growth in the market.

OUR MANUFACTURING PHILOSOPHY

Group Mission

"To create value and become the natural choice"

Focus on adding product and sales value for the customer to create market differentiation.



WASTE ELIMINATION THROUGH THE APPLICATION OF KEY LEAN PRINCIPLES



- ▶ Change over reduction
- ▶ Batch size reduction
- ▶ Single piece flow
- ▶ Pull production/ Kanban

PROCESS DESIGN



- ▶ Developed in-line with lean principles
- ▶ Minimise tooling investment
- ▶ Lower volume payback requirements

MINI BUSINESS UNITS & ALIGNED URGENCY

Every member of our organisation is part of an MBU that meets daily to discuss performance against aligned goals, ensuring continuing improvements in service levels and efficiencies.

MANAGE THE PERCENTAGES



RESULT

- ▶ Flexibility & Speed, Lead time reduction & on-time delivery
- ▶ Standard 4 week lead-time, 2 week lead-time on special request, no batch size too small
- ▶ Improved quality – internal and external
- ▶ Cash generation through stock reduction
- ▶ Reduced time to quote
- ▶ Reduced development times for New Product Introduction

RIM DIAMETER	RIM WIDTH	DISC TYPE. SQUARE/ PLUG	RIM THICKNESS MM	DISC THICKNESS MM
10	6.00	Square	3.00	6.00
10	8.50	Square	3.00	6.00
12	7.00	Square	3.00	6.00
12	8.50	Square	3.00	6.00
12	10.50	Square	3.00	6.00
14	5.00	Plug fit	4.50	8.00
14	5.50	Plug fit	4.50	8.00
15	8.50	Square	4.00	8.00
15	10.00	Square	4.00	8.00
15	13.00	Square	4.00	8.00
15.3	8.00	Square	4.00	8.00
15.3	9.00	Square	5.00	8.00
15.5	13.00	Square	5.00	8.00
16	11.00	Plug fit	4.00	8.00
17	13.00	Square	5.00	6.00
17	16.00	Square	5.00	10.00
18	11.00	Square	4.50	8.00
18	13.00	Square	4.50	8.00
20	11.00	Plug fit	5.00	10.00
20	13.00	Plug fit	5.00	10.00
22.5	11.75	Square	6.00	10.00
22.5	13.00	Square	6.00	12.00
22.5	16.00	Square	6.00	12.00
22.5	18.00	Square	6.00	12.00
22.5	20.00	Square	6.00	12.00
22.5	24.00	Square	6.00	12.00
26	20.00	Plug fit	6.00	12.00
26	25.00	Plug fit	6.00	12.00
26.5	20.00	Plug fit	7.00	12.00
26.5	24.00	Plug fit	7.00	12.00



IN NEED OF AN OTHER DIMENSION OR TYPE OF WHEEL?

The above range of wheels are just a few out of a wide range of Rims and Wheels available in STARCO.

All products are as standard E-coated and can be provided in standard RAL colors.

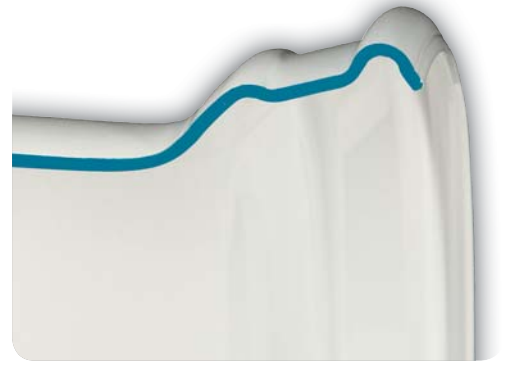
STARCO can produce custom wheel designs to meet any special requirements.

HORN

- ▶ Full metal thickness maintained - Increased strength
- ▶ Designed to ease the mounting of tyres

BEAD RETENTION HUMPS

- ▶ Keep the tyre safely seated - Improve stability - Less risk of damage caused by sudden deflation
- ▶ Ensure tight fitment - possibility to run at very low inflation pressure



THE WHEEL DISC

- ▶ Stud holes with pressed raised seats (conical or spherical) - No material removed - Increased strength in this vital contact area!
- ▶ Flexible production setup - Stud holes, bores, seating etc. can be produced to match customers requirements



VALVE PROTECTION

- ▶ VG2 Crescent - Standard Agriculture
- ▶ VG3 Square shaped - HD Agriculture / Standard Forestry
- ▶ VG7 Tubular with screw in cap - HD Forestry



PAINT SYSTEM



- ▶ Using the latest automotive nanotechnology pre-treatment
- ▶ Uniformed quality of surface preparation, providing excellent paint adhesion
- ▶ Good edge coverage with excellent corrosion protection
- ▶ High salt spray and humidity resistance

PRESS WHEEL PROGRAM

INTERNAL TRANSPORTATION

DIMENSION	THICKNESS MM
2.10x4	1.0
2.50x4	1.0
2.50x6	1.0
3.25x6	1.0
4.00Ax6	1.5
2.50x8	1.0

HUB CONFIGURATIONS

- ▶ Plain
- ▶ Plain - precision tube
- ▶ Nylonbush
- ▶ Bronze flange bush
- ▶ Rollerbearing
- ▶ Flange ballbearing
- ▶ Flange ballbearing - precision
- ▶ Ballbearing (nipped seating)
- ▶ Press-in key
- ▶ Std. keyway

HORTICULTURAL AND AGRICULTURAL

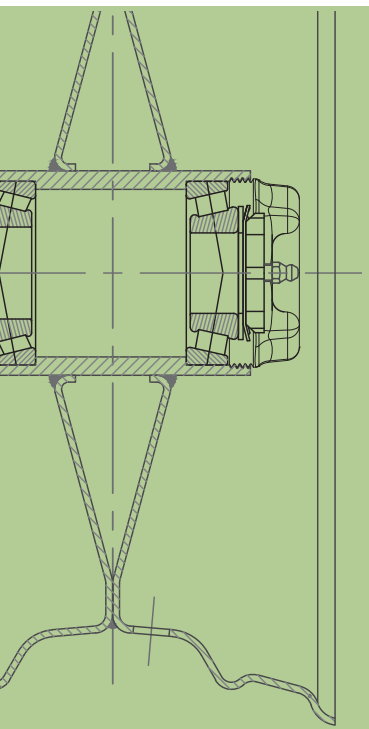
DIMENSION	THICKNESS MM
4.50Ax6	2.0
3.00DX8	2.5
3.50DX8	2.5
5.50Ax8	2.0
7.00Ax8	2.0
7.00Ax8	2.5
4.00Ex9	3.0
4.50Ex9	3.0

AGRICULTURAL

DIMENSION	THICKNESS MM
4.00lx12	3.0
7.00lx12	3.0
6.75lx14.5	3.0
2.50x8	1.0

HIGH SPEED

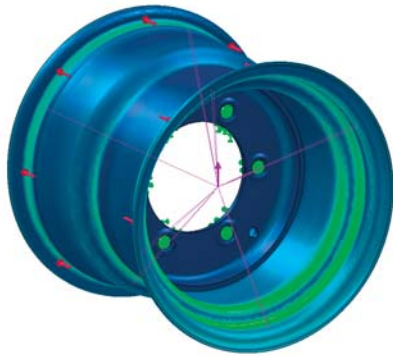
DIMENSION	THICKNESS MM
2.50AX8 HS	2.0
4.375Ax8	2.0
5.50xAx8	2.0
7.00Ax8	2.0
7.00Ax8	2.5
3.50BX10 HS	2.5



HUB CONFIGURATIONS

- ▶ Plain
- ▶ Plain - precision tube
- ▶ Nylonbush
- ▶ Bronze flange bush
- ▶ Rollerbearing
- ▶ Flange ballbearing
- ▶ Flange ballbearing - precision
- ▶ Ballbearing (nipped seating)
- ▶ Ballbearing - STD(6004 – 6205, with machined seating)
- ▶ Ballbearing - HD (6206 – 6007, with machined seating)
- ▶ Ballbearing - HDD (6207) (machined seating)
- ▶ Ballbearing - HDD (30307-30208) (machined seating)
- ▶ Press-in key
- ▶ Standard keyway
- ▶ Fitted with axle
- ▶ Greasenippel
- ▶ Screw in cap

- ▶ Tyre and wheel design capability ensuring a complete solution on any steel wheel configuration
- ▶ Finite Element Analysis & 3D Modelling
- ▶ Able to offer standard product range but also customized for specific requirements



- ▶ Test facility to validate and improve design
 - ▶ Corner fatigue test machine to validate wheels up to 50"
 - ▶ CFT - Cornering Fatigue Test machine
 - ▶ Leakage testing
 - ▶ Field testing with strategic partners
 - ▶ Links to independent laboratories to ensure expert knowledge and latest standards



Field test



CFT



For more information
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