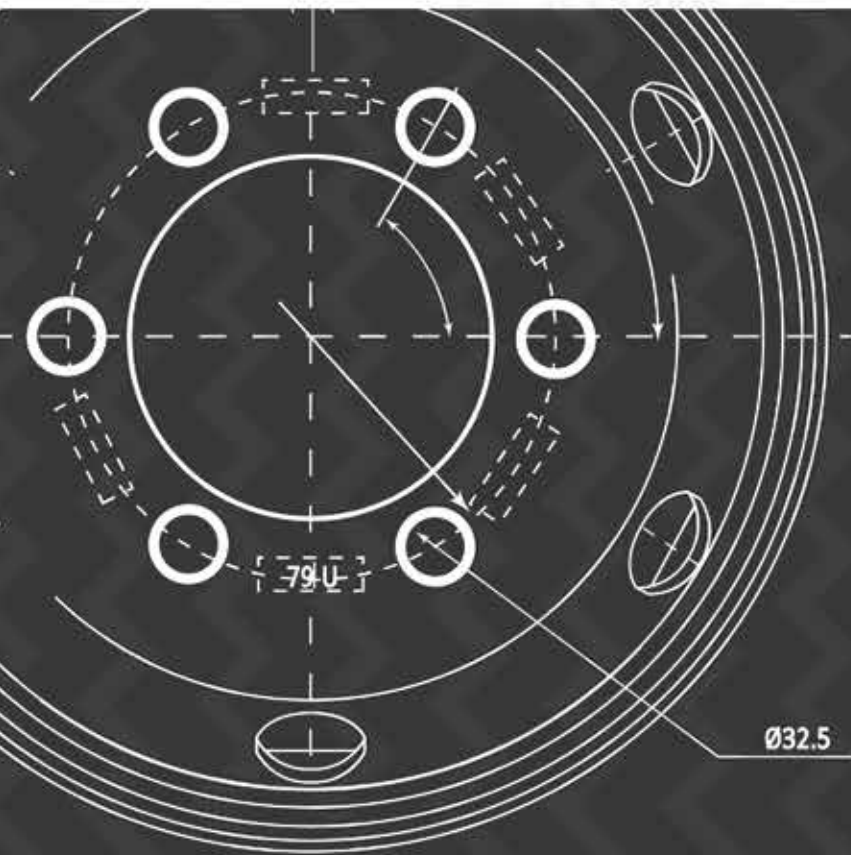


Wheels for commercial vehicles and machinery



- > **Disk wheels**
- > **Diskless wheels**



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THROUGH GENERATIONS

PROGRESS IS OUR TRADITION



PJSC «Chelyabinsk Forge-and-Press Plant» today — a modern production with a rich history!

Total area — **10 hectares**

Wheel production area — **40 000 sq.m**

Staff — **450 employees**



Being a part of large holding company **«HARTUNG» LLC** is an exclusive distributor of wheels by PJSC «Chelyabinsk Forget-and-Press Plant» under trademark HATUNG since 2006.

«HARTUNG»LLC provides fast guarantee assistance and customer service for HARTUNG wheels with developed partners network all over Russia.



Wheel production is certified according to **ISO 9001, IATF 16949 and ISO 14001**. Quality control at each production stage. Quick changeover techniques, Lean manufacturing and Kaizen principles implementation.

WHEEL PRODUCTION

QUALITY

FROM THE VERY BEGINNING

3

production lines for profiled wheels

4

wheel-stamping production lines

5

production lines for producing wheel rims from hot rolled profiles

4

production lines for wheels of different types

8

production lines for welding and assembly

2

coloring lines: electrodeposition, airless spraying and powder coating

Technical superiority of HARTUNG wheels

Special domestic production steel

Hi-quality constructional steel makes wheels durable in wide temperature range.

Wheel durability characteristics control

Strict control of main geometric parameters and successful tests of fatigue during bending with rotation and under dynamic loading.

Compliance with European standards

Wheels design is developed according to actual European standards so that HARTUNG wheels are at the same level as international market leaders.

Paintwork according to GOST standard

Hi-quality materials and modern industrial equipment provide wonderful paintwork and reliable anticorrosive protection



All wheels are marked according to requirements of ECU (Eurasian Customs Union) Technical Regulation: the trademark, production date (month, year), rim parameters, model number.

Wheel dimensions are specified in its symbol code:

- Symbol «x» between width and diameter shows which group the wheel belongs to:
 - «x» - non-disassemblable rim
 - «-» - disassemblable rim
- 9.0 - rim landing width in inches
- 22.0 - rim diameter in inches
- 10 - number of mounting holes
- 335 - bolt pattern/Pitch Circle Diameter in mm (PCD)
- d281 - diameter of central hole (centre bore) in mm
- ET 162 - offset in mm

9.0x22.5 10/335 d281 ET162

Wheels for commercial vehicles sample:



4.5Ex16

Disk wheels



HARTUNG 4.5Ex16
4/98 d60.5 ET21



HARTUNG 4.5Ex16
5/175 d135 ET-25

Size in type	4.5Ex16	4.5Ex16
Model	HARTUNG 4.5Ex16 4/98 d60.5 ET21	HARTUNG 4.5Ex16 5/175 d135 ET-25
Rim width, inches	4,5E	4,5E
Rim diameter, inches	16	16
Drawing number/code	4,5E-16.3101012 C5	36.3101010-A2 C5
Applicability	Tractors T-25, T-29, T-30, T-40M, reaper	Sowing complex Kuzbass Kemerovo
Recommended tyre	180-406(6,5-16); 170-406(6,0-16)	180-406(6,5-16); 170-406(6,0-16)
Category	Agricultural machinery	Agricultural machinery
Load, kgf	440	750
Rim offset (internal), mm	21	-25
Rim offset (external), mm	25	-21
Disk thickness, mm	4	4
Diameter of central hole, mm	60.5	135
Pitch Circle Diameter, mm	98	175
Diameter of mounting holes, mm	13.5	20
Number of mounting holes, pieces	4	5
Max weight of the wheel, kg	10.7	9,1
Amount in pallet, pieces	72	72
Centering type	By cone chamfers (BZ)	By cone chamfers (BZ)
Shape of mounting holes	Cone chamfer 60°	Cone chamfer 90°
Landing cone, degrees	—	—



6.0x17.5

Disk wheels



HARTUNG 6.0x17.5
10/225 d176 ET121.5



HARTUNG 6.0x17.5
5/208 d150 ET106



HARTUNG 6.0x17.5
6/205 d161 ET115



HARTUNG 6.0x17.5
6/222.25 d164 ET118

Size in type	6.0x17.5	6.0x17.5	6.0x17.5	6.0x17.5
Model	HARTUNG 6.0x17.5 10/225 d176 ET121.5	HARTUNG 6.0x17.5 5/208 d150 ET106	HARTUNG 6.0x17.5 6/205 d161 ET115	HARTUNG 6.0x17.5 6/222.25 d164 ET118
Rim width, inches	6,0	6,0	6,0	6,0
Rim diameter, inches	17,5	17,5	17,5	17,5
Drawing number/code	167.503.3101012-10 C5	167.503.3101012-50 C5	167.503.3101012-22 C5	167.503.3101012-01 C5
Applicability	TATA	Busses NAGAZ, Hyundai HD-65	TATA, Hyundai HD-78 (since 2016)	ISUZU, busses Bagdan, Hyundai HD-78 (since 2016), HINO 300
Recommended tyre	215/75R17,5; 205/75R17,5; 205/65R17,5; 8,0R17,5; 8,5R17,5; 9,0R17,5; 9,5R17,5, 225/75R75,5	215/75R17,5; 205/75R17,5; 205/65R17,5; 8,0R17,5	215/75R17,5; 205/75R17,5; 205/65R17,5; 8,0R17,5	215/75R17,5; 205/75R17,5; 205/65R17,5; 8,0R17,5
Category	LCV	LCV	LCV	LCV
Load, kgf	2725	1850	1850	1850
Rim offset (internal), mm	121,5	106	115	118
Rim offset (external), mm	133	115	123,5	127
Disk thickness, mm	11,5	9	8,5	8,5
Diameter of central hole (bore), mm	176	150	161	164
Pitch Circle Diameter, mm	225	208	205	222,25
Diameter of mounting holes, mm	26	32,5	21	32,5
Number of mounting holes, pieces	10	5	6	6
Max weight of the wheel, kg	22,5	22,5	23,4	19,6
Amount in pallet, pieces	24	24	24	24
Centering type	By central bore (MZ)	By spherical chamfers (BZ)	By central bore (MZ)	By spherical chamfers (BZ)
Shape of mounting holes	-	Spherical chamfer R22	-	Spherical chamfer R22
Landing cone, degrees	-	-	-	-

Disk wheels



HARTUNG 6.5x16
6/205 d161 ET123



HARTUNG 6.5x16
6/222.25 d164 ET123



HARTUNG 6.5x16
5/203.2 d146 ET115

Size in type	6.5x16	6.5x16	6.5x16
Model	HARTUNG 6.5x16 6/205 d161 ET123	HARTUNG 6.5x16 6/222.25 d164 ET123	HARTUNG 6.5x16 5/203.2 d146 ET115
Rim width, inches	6,5	6,5	6,5
Rim diameter, inches	16	16	16
Drawing number/code	5301.3101012-01 C5	167.5301.3101012-30 C5	167.5301.3101012-20 C5
Applicability	ZIL-5301 "Bychok", busses ZIL-325000	BAW Fenix 1065	BAW Fenix 1044
Recommended tyre	225/75R16C; 215/75R16C	225/75R16C; 215/75R16C	225/75R16C; 215/75R16C
Category	LCV	LCV	LCV
Load, kgf	1450	1500	1100
Rim offset (internal), mm	123	123	115
Rim offset (external), mm	131	132	124
Disk thickness, mm	8	9	9
Diameter of central hole (bore), mm	161	164	146
Pitch Circle Diameter, mm	205	222,25	203,2
Diameter of mounting holes, mm	21	32	29
Number of mounting holes, pieces	6	6	5
Max weight of the wheel, kg	21	17,5	18,3
Amount in pallet, pieces	42	42	42
Centering type	By central bore (MZ)	By central bore (MZ)	By spherical chamfers (BZ)
Shape of mounting holes	-	-	Spherical chamfer R22
Landing cone, degrees	-	-	-

6.75x17.5

Disk wheels



HARTUNG 6.75x17.5
10/225 d176 ET132.5



HARTUNG 6.75x17.5
6/205 d161 ET0



HARTUNG 6.75x17.5
6/205 d161 ET130



HARTUNG 6.75x17.5
8/275 d221 ET130

Size in type	6.75x17.5	6.75x17.5	6.75x17.5	6.75x17.5
Model	HARTUNG 6.75x17.5 10/225 d176 ET132.5	HARTUNG 6.75x17.5 6/205 d161 ET0	HARTUNG 6.75x17.5 6/205 d161 ET130	HARTUNG 6.75x17.5 8/275 d221 ET130
Rim width, inches	6,75	6,75	6,75	6,75
Rim diameter, inches	17,5	17,5	17,5	17,5
Drawing number/code	167.507.3101012-20 C6	167.505.3101012-50	506.3101012ПП	505.3101012 C6
Applicability	Heavy semi-trailers HARTUNG, Politrans, CHMZAP	Low-loader trailer and semi-trailers	Mercedes-814, 815, Foton-1093, 1095, PAZ-3237	MAZ-4370 Zubrenok, busses MAZ-106, 256, 437040, KAMAZ
Recommended tyre	215/75R17,5; 235/75R17,5; 205/75R17,5; 205/65R17,5	215/75R17,5; 235/75R17,5	215/75R17,5; 235/75R17,5	215/75R17,5; 235/75R17,5
Category	Trailers and Semi-Trailers	Trailers and Semi-Trailers	Trucks and Trailers	Busses
Load, kgf	2725	2000	2000	2000
Rim offset (internal), mm	132,5	0	130	130
Rim offset (external), mm	145	10	140	140
Disk thickness, mm	12,5	10	10	10
Diameter of central hole (bore), mm	176	161	161	221
Pitch Circle Diameter, mm	225	205	205	275
Diameter of mounting holes, mm	26	21	21	24
Number of mounting holes, pieces	10	6	6	8
Max weight of the wheel, kg	28	23,5	29,5	28
Amount in pallet, pieces	24	24	24	24
Centering type	By central bore (MZ)	By central bore (MZ)	By spherical chamfers (BZ)	By central bore (MZ)
Shape of mounting holes	-	-	Spherical chamfer R16	-
Landing cone, degrees	-	-	-	-

6.75x19.5

Disk wheels



**HARTUNG 6.75x19.5
6/222.25 d164 ET135**



**HARTUNG 6.75x19.5
8/275 d221 ET135**

Size in type	6.75x19.5	6.75x19.5
Model	HARTUNG 6.75x19.5 6/222.25 d164 ET135	HARTUNG 6.75x19.5 8/275 d221 ET135
Rim width, inches	6,75	6,75
Rim diameter, inches	19,5	19,5
Drawing number/code	167.510.3101012-21ПП	167.510.3101012-01ПП
Applicability	Busses PAZ	Busses PAZ, KAMAZ trucks-4308, MAN, Hyundai HD-120, Gazon NEXT
Recommended tyre	245/70R19,5; 265/70R19,5	245/70R19,5; 265/70R19,5
Category	Busses	Busses
Load, kgf	2500	2500
Rim offset (internal), mm	135	135
Rim offset (external), mm	145	144
Disk thickness, mm	10	9
Diameter of central hole (bore), mm	164	221
Pitch Circle Diameter, mm	222,25	275
Diameter of mounting holes, mm	24	24
Number of mounting holes, pieces	6	8
Max weight of the wheel, kg	31,5	30
Amount in pallet, pieces	24	24
Centering type	By central bore (MZ)	By central bore (MZ)
Shape of mounting holes	-	-
Landing cone, degrees	-	-

Disk wheels



HARTUNG 7.0-15
6/205 d161 ET123



HARTUNG 7.0-15
6/222.25 d163 ET-36



HARTUNG 7.0-15
6/222.25 d163 ET-36



HARTUNG 7.0-15
6/222.25 d163 ET68.5

Size in type	7.0-15	7.0-15	7.0-15	7.0-15
Model	HARTUNG 7.0-15 6/205 d161 ET123	HARTUNG 7.0-15 6/222.25 d163 ET-36	HARTUNG 7.0-15 6/222.25 d163 ET-36	HARTUNG 7.0-15 6/222.25 d163 ET68.5
Rim width, inches	7,0	7,0	7,0	7,0
Rim diameter, inches	15	15	15	15
Drawing number/code	167.15-7.0.3101012 C5	7.0-15.3101012-20	7.0-15.3101012	7.0-15.3101012-10 C5
Applicability	CHMAZAP semi-trailers	Forklifts	Semi-trailers	Forklifts
Recommended tyre	8,25-15	8,25R15	8,25-15; 9,0-15	8,25-15; 9,0-15
Category	Trailers and Semi-Trailers	Forklifts	Forklifts	Forklifts
Load, kgf	3000	2575	2575	2575
Rim offset (internal), mm	123	-36	-36	68,5
Rim offset (external), mm	134	-28	-28	76,5
Disk thickness, mm	11	8	8	8
Diameter of central hole (bore), mm	161	163	163	163
Pitch Circle Diameter, mm	205	222,25	222,25	222,25
Diameter of mounting holes, mm	21,5	32	32	32
Number of mounting holes, pieces	6	6	6	6
Max weight of the wheel, kg	28,4	26,5	26,5	26,5
Amount in pallet, pieces	36	36	36	36
Centering type	By central bore (MZ)	By spherical chamfers (BZ)	By spherical chamfers (BZ)	By spherical chamfers (BZ)
Shape of mounting holes	-	Spherical chamfer R22	Spherical chamfer R22	Spherical chamfer R22
Landing cone, degrees	-	-	-	-

Disk wheels



HARTUNG 7.0-15
6/222.25 d163 ET-7



HARTUNG 7.0-15
6/222.25 d163 ET-76.5



HARTUNG 7.0-15
8/232 d192 ET131



HARTUNG 7.0-15
8/250 d196 ET131

Size in type	7.0-15	7.0-15	7.0-15	7.0-15
Model	HARTUNG 7.0-15 6/222.25 d163 ET-7	HARTUNG 7.0-15 6/222.25 d163 ET-76.5	HARTUNG 7.0-15 8/232 d192 ET131	HARTUNG 7.0-15 8/250 d196 ET131
Rim width, inches	7,0	7,0	7,0	7,0
Rim diameter, inches	15	15	15	15
Drawing number/code	7.0-15.3101012-30	7.0-15.3101012-40	83881.3101012-20 C5	83881.3101012-10
Applicability	Forklifts	Forklift VP-05	Semi-trailers	CHMZAP semi-trailers 9900, Kanash
Recommended tyre	8,25-15; 9,0-15	8,25R15	8,25R15	8,25-15; 9,0-15
Category	Forklifts	Forklifts	Trailers and Semi-Trailers	Trailers and Semi-Trailers
Load, kgf	2575	2575	2380	2380
Rim offset (internal), mm	-7	-76,5	131	131
Rim offset (external), mm	1	-68,5	142	142
Disk thickness, mm	8	8	11	11
Diameter of central hole (bore), mm	163	163	192	196
Pitch Circle Diameter, mm	222,25	222,25	232	250
Diameter of mounting holes, mm	32	32	21	32
Number of mounting holes, pieces	6	6	8	8
Max weight of the wheel, kg	26,3	26,5	25,8	25,8
Amount in pallet, pieces	36	36	36	36
Centering type	By spherical chamfers (BZ)	By spherical chamfers (BZ)	By central bore (MZ)	By spherical chamfers (BZ)
Shape of mounting holes	Spherical chamfer R22	Spherical chamfer R22	-	Spherical chamfer R22
Landing cone, degrees	-	-	-	-

7.0-15 7.0-20

Disk wheels



HARTUNG 7.0-15
10/225 D176 ET131



HARTUNG 7.0-20
10/335 d281 ET143



HARTUNG 7.0-20
10/335 d281 ET151

Size in type	7.0-15	7.0-20	7.0-20
Model	HARTUNG 7.0-15 10/225 D176 ET131	HARTUNG 7.0-20 10/335 d281 ET143	HARTUNG 7.0-20 10/335 d281 ET151
Rim width, inches	7,0	7,0	7,0
Rim diameter, inches	15	20	20
Drawing number/code	83881.3101012-01	99858.3101012 C5	167.3499.3101012 C5
Applicability	CHMZAP semi-trailers	CHMZAP semi-trailers-99858, NEFAZ-9334, 8332, 8560, 96749, 8332, 9334-20	Forklifts, semi-trailers, KAMAZ-53205 (analogue Euro)
Recommended tyre	8,25R15; 9,0R15	9,0R20; 9,0-20; 260-508P; 280R508; 10,0R20; 280R508	9,0R20; 9,0-20; 260-508P; 280R508; 10,0R20; 280R508
Category	Trailers and Semi-Trailers	Trailers and Semi-Trailers	Forklifts
Load, kgf	3000	2500	2500
Rim offset (internal), mm	131	143	151
Rim offset (external), mm	142	155	162
Disk thickness, mm	11	12	11
Diameter of central hole (bore), mm	176	281	281
Pitch Circle Diameter, mm	225	335	335
Diameter of mounting holes, mm	26	26	26
Number of mounting holes, pieces	10	10	10
Max weight of the wheel, kg	29	40,9	38,5
Amount in pallet, pieces	36	24	28
Centering type	By central bore (MZ)	By central bore (MZ)	By central bore (MZ)
Shape of mounting holes	-	-	-
Landing cone, degrees	-	-	-

Disk wheels



HARTUNG 7.0-20
8/275 d214 ET144



HARTUNG 7.0-20
8/275 d221 ET144



HARTUNG 7.0-20
8/275 d221 ETO

Size in type	7.0-20	7.0-20	7.0-20
Model	HARTUNG 7.0-20 8/275 d214 ET144	HARTUNG 7.0-20 8/275 d221 ET144	HARTUNG 7.0-20 8/275 d221 ETO
Rim width, inches	7,0	7,0	7,0
Rim diameter, inches	20	20	20
Drawing number/code	7.0-20.3101012 A5 C5	3496.3101012 C5	167.350.3101012-30 C5
Applicability	ZIL-130/133GY KAZ-608	ZIL-4331, trailers	ZIL-433100, tractor trailers
Recommended tyre	9,0R20; 9,0-20; 260-508P; 280R508; 10,0R20; 280R508	9,0R20; 9,0-20; 260-508P; 280R508; 10,0R20; 280R508	10,0R20
Category	Trucks and Trailers	Trucks and Trailers	Trucks and Trailers
Load, kgf	2030	2250	2500
Rim offset (internal), mm	144	144	0
Rim offset (external), mm	155	155	11
Disk thickness, mm	11	11	11
Diameter of central hole (bore), mm	214	221	221
Pitch Circle Diameter, mm	275	275	275
Diameter of mounting holes, mm	32	24	24
Number of mounting holes, pieces	8	8	8
Max weight of the wheel, kg	38	38	42,5
Amount in pallet, pieces	28	28	28
Centering type	By spherical chamfers (BZ)	By central bore (MZ)	By central bore (MZ)
Shape of mounting holes	Spherical chamfer R22	-	-
Landing cone, degrees	-	-	-

7.5-20

Disk wheels



HARTUNG 7.5-20
10/335 d281 ET145



HARTUNG 7.5-20
10/335 d281.2 ET151



HARTUNG 7.5-20
10/335 d281 ET0



HARTUNG 7.5-20
10/335 d281 ET150

Size in type	7.5-20	7.5-20	7.5-20	7.5-20
Model	HARTUNG 7.5-20 10/335 d281 ET145	HARTUNG 7.5-20 10/335 d281.2 ET151	HARTUNG 7.5-20 10/335 d281 ET0	HARTUNG 7.5-20 10/335 d281 ET150
Rim width, inches	7,5	7,5	7,5	7,5
Rim diameter, inches	20	20	20	20
Drawing number/code	167.20-7,5.3101012-51 C5	167.360.3101012-20	167.360.3101012-30 C5	7.5-20.3101012-41
Applicability	NEFAZ, KAMAZ-EURO	Special purpose semi-trailers	Special purpose semi-trailers	KAMAZ-65115, busses LAZ, Ikarus, CHMZAP semi-trailers
Recommended tyre	10,0-20; 10,0R20; 11,0-20; 11,0R20	10,0-20; 10,0R20; 11,0-20; 11,0R20	10,0-20; 10,0R20; 11,0-20; 11,0R20	11,0-20; 11,0R20; 10,0-20; 10,0R20
Category	Busses	Trailers and Semi-Trailers	Trailers and Semi-Trailers	Trucks and Trailers
Load, kgf	3250	3250	3250	3000
Rim offset (internal), mm	145	151	0	150
Rim offset (external), mm	157	162	11	162
Disk thickness, mm	12	11	11	12
Diameter of central hole (bore), mm	281	281,2	281	281
Pitch Circle Diameter, mm	335	335	335	335
Diameter of mounting holes, mm	26	26	26	26
Number of mounting holes, pieces	10	10	10	10
Max weight of the wheel, kg	46,5	47	48,2	46,7
Amount in pallet, pieces	24	24	24	24
Centering type	By central bore (MZ)	By central bore (MZ)	By central bore (MZ)	By central bore (MZ)
Shape of mounting holes	-	-	-	-
Landing cone, degrees	-	-	-	-

7.5x22.5

Disk wheels



**HARTUNG 7,5x22,5
10/335 d281 ET153.2**

Size in type	7.5x22.5
Model	HARTUNG 7.5x22.5 10/335 d281 ET153.2
Rim width, inches	7,5
Rim diameter, inches	22,5
Drawing number/code	167.518.3101012
Applicability	KAMAZ-65111, 65115, 65117, 43253, 43255
Recommended tyre	10,0R22,5, 11,0R22,5
Category	Construction machinery
Load, kgf	3250
Rim offset (internal), mm	153,2
Rim offset (external), mm	165
Disk thickness, mm	11,8
Diameter of central hole (bore), mm	281
Pitch Circle Diameter, mm	335
Diameter of mounting holes, mm	26
Number of mounting holes, pieces	10
Max weight of the wheel, kg	40
Amount in pallet, pieces	20
Centering type	By central bore (MZ)
Shape of mounting holes	-
Landing cone, degrees	-



8Wx16

Disk wheels



**HARTUNG 8Wx16
6/205 d161 ET-4**



**HARTUNG 8Wx16
6/210 d165 ET-4**



**HARTUNG 8Wx16
6/210 d165 ET-42**

Size in type	8Wx16	8Wx16	8Wx16
Model	HARTUNG 8Wx16 6/205 d161 ET-4	HARTUNG 8Wx16 6/210 d165 ET-4	HARTUNG 8Wx16 6/210 d165 ET-42
Rim width, inches	8W	8W	8W
Rim diameter, inches	16	16	16
Drawing number/code	167.16xW8.3101012-10	167.16xW8.3101012-20	167.16xW8.3101012 C5
Applicability	Combine harvester NIVA, KOLOS, Sibiryak, Yenisei	Combine harvester NIVA, KOLOS, Sibiryak, Yenisei	TP10
Recommended tyre	310-406	310-406	310-406
Category	Agricultural machinery	Agricultural machinery	Agricultural machinery
Load, kgf	1700	1700	1700
Rim offset (internal), mm	-4	-4	-42
Rim offset (external), mm	3	3	-35
Disk thickness, mm	7	7	7
Diameter of central hole (bore), mm	161	165	165
Pitch Circle Diameter, mm	205	210	210
Diameter of mounting holes, mm	20	20	24
Number of mounting holes, pieces	6	6	6
Max weight of the wheel, kg	15,1	15,1	15,1
Amount in pallet, pieces	42	42	42
Centering type	By spherical chamfers (BZ)	By spherical chamfers (BZ)	By cone chamfers (BZ)
Shape of mounting holes	Spherical chamfer R22	Spherical chamfer R22	Cone chamfer 90°
Landing cone, degrees	-	-	-



8.25x22.5

Disk wheels



**HARTUNG 8.25x22.5
8/285 d221 ET153**



**HARTUNG 8.25x22.5
10/335 d281 ET153**

Size in type	8.25x22.5	8.25x22.5
Model	HARTUNG 8.25x22.5 8/285 d221 ET153	HARTUNG 8.25x22.5 10/335 d281 ET153
Rim width, inches	8,25	8,25
Rim diameter, inches	22,5	22,5
Drawing number/code	167.375.3101012-70 C5	167.375.3101012
Applicability	Trucks and Trailers	Busses LIAZ-5256, LAZ 4207, MAZ, NEFAZ, KAMAZ EURO
Recommended tyre	11,0R22,5; 11/70R22,5; 12,0R22,5; 275/80R22,5; 295/80R22,5; 315/70R22,5	11/70R22,5; 295/80R22,5
Category	Trucks and Trailers	Busses
Load, kgf	3550	3550
Rim offset (internal), mm	153	153
Rim offset (external), mm	165	165
Disk thickness, mm	12	12
Diameter of central hole (bore), mm	221	281
Pitch Circle Diameter, mm	285	335
Diameter of mounting holes, mm	32,5	26
Number of mounting holes, pieces	8	10
Max weight of the wheel, kg	42,2	39,6
Amount in pallet, pieces	20	20
Centering type	By spherical chamfers (BZ)	By central bore (MZ)
Shape of mounting holes	Spherical chamfer R22	-
Landing cone, degrees	-	-

Disk wheels



**HARTUNG 8.5-20
10/286 d222 ET174**



**HARTUNG 8.5-20
10/335 d281 ETO**



**HARTUNG 8.5-20
10/335 d281 ET161**

Size in type	8.5-20	8.5-20	8.5-20
Model	HARTUNG 8.5-20 10/286 d222 ET174	HARTUNG 8.5-20 10/335 d281 ETO	HARTUNG 8.5-20 10/335 d281 ET161.5
Rim width, inches	8,5	8,5	8,5
Rim diameter, inches	20	20	20
Drawing number/code	380.3101012-20	167.3802.3101012-60 C5	330.30.3101012-20
Applicability	KRAZ-256, 257, 258, 6510; GKB-816	Special purpose semi-trailers	TATRA
Recommended tyre	11,0-20; 11,0R20; 12,0-20	12,0R20; 12,0-20; 11,0R20	11,0-20; 11,0R20; 12,0-20
Category	Construction machinery	Trailers and Semi-Trailers	Trucks and Trailers
Load, kgf	2730	3750	4000
Rim offset (internal), mm	174	0	161
Rim offset (external), mm	185	12	175
Disk thickness, mm	11	12	14
Diameter of central hole (bore), mm	222	281	281
Pitch Circle Diameter, mm	286	335	335
Diameter of mounting holes, mm	32	26	26
Number of mounting holes, pieces	10	10	10
Max weight of the wheel, kg	47,7	51,5	50,1
Amount in pallet, pieces	24	24	24
Centering type	By spherical chamfers (BZ)	By central bore (MZ)	By spherical chamfers (BZ)
Shape of mounting holes	Spherical chamfer R22	-	Spherical chamfer R19
Landing cone, degrees	-	-	-

8.5-20

Disk wheels



**HARTUNG 8.5-20
10/335 d281 ET163**



**HARTUNG 8.5-20
10/335 d281 ET174**



**HARTUNG 8.5-20
10/335 d281 ET-56**

Size in type	8.5-20	8.5-20	8.5-20
Model	HARTUNG 8.5-20 10/335 d281 ET163	HARTUNG 8.5-20 10/335 d281 ET174	HARTUNG 8.5-20 10/335 d281 ET-56
Rim width, inches	8,5	8,5	8,5
Rim diameter, inches	20	20	20
Drawing number/code	330.30.3101012 C6	167.3803.3101012-04	3802.3101012-10
Applicability	URAL-Iveco 330.30, KAMAZ-6520, 6522, 6460, trolleybuses 14TP, 15TP	MAZ-64229, 6303, 53366, 6301, KRAZ, URAL-63685	Special purpose semi-trailers
Recommended tyre	11,0-20; 11,0R20; 12,0R20	11,0-20; 11,0R20; 12,0-20	14,0-20 Я-307; ОИ-25
Category	Busses	Construction machinery	Trailers and Semi-Trailers
Load, kgf	3750	3750	2860
Rim offset (internal), mm	163	174	-56
Rim offset (external), mm	175	185	-44
Disk thickness, mm	12	11	12
Diameter of central hole (bore), mm	281	281	281
Pitch Circle Diameter, mm	335	335	335
Diameter of mounting holes, mm	26	26	26
Number of mounting holes, pieces	10	10	10
Max weight of the wheel, kg	48,5	47,8	51,6
Amount in pallet, pieces	24	24	24
Centering type	By central bore (MZ)	By central bore (MZ)	By spherical chamfers (BZ)
Shape of mounting holes	-	-	Spherical chamfer R22
Landing cone, degrees	-	-	-

Disk wheels



**HARTUNG 8.5-24
10/335 d281 ET165**



**HARTUNG 8.5-24
10/335 d281 ET161,5**

Size in type	8.5-24	8.5-24
Model	HARTUNG 8.5-24 10/335 d281 ET165	HARTUNG 8.5-24 10/335 d281 ET161,5
Rim width, inches	8,5	8,5
Rim diameter, inches	24	24
Drawing number/code	167.3810.3101012-20	167.3810.3101012-014
Applicability	Scania, Volvo, Mercedes	Scania, Volvo, Mercedes
Recommended tyre	12,0-24; 12,0R24	12,0-24; 12,0R24
Category	Trucks and Trailers	Trucks and Trailers
Load, kgf	5600	4500
Rim offset (internal), mm	165	161,5
Rim offset (external), mm	180	175
Disk thickness, mm	15	13,5
Diameter of central hole (bore), mm	281	281
Pitch Circle Diameter, mm	335	335
Diameter of mounting holes, mm	26	26
Number of mounting holes, pieces	10	10
Max weight of the wheel, kg	76	74,6
Amount in pallet, pieces	6	6
Centering type	By central bore (MZ)	By central bore (MZ)
Shape of mounting holes	-	-
Landing cone, degrees	-	-

9.0-18 9.0x22.5

Disk wheels



HARTUNG 9.0-18
6/222.25 d163 ET60



HARTUNG 9.0x22.5
8/275 d221 ETO



HARTUNG OVERLOAD 9.0x22.5
10/335 d281 ET165.5

Size in type	9.0-18	9.0x22.5	9.0x22.5
Model	HARTUNG 9.0-18 6/222.25 d163 ET60	HARTUNG 9.0x22.5 8/275 d221 ETO	HARTUNG OVERLOAD 9.0x22.5 10/335 d281 ET165.5
Rim width, inches	9,0	9,0	9,0
Rim diameter, inches	18	22,5	22,5
Drawing number/code	6501.3101012	167.521.3101012-100B	167.521.3101012-15
Applicability	GAZ-66, GAZ 3308 Sadko	Special purpose semi-trailers	Iveco, MAN, Mercedes, Volvo, MAZ
Recommended tyre	12,0-18 mod. K-70	22,0R22,5; 13,0R22,5; 295/80R22,5; 315/70R22,5; 315/80R22,5	315/70R22,5; 295/80R22,5
Category	Trucks and Trailers	Trailers and Semi-Trailers	Trucks and Trailers
Load, kgf	1850	4000	4500
Rim offset (internal), mm	60	0	165,5
Rim offset (external), mm	69	10,5	177,5
Disk thickness, mm	9	10,5	12
Diameter of central hole (bore), mm	163	221	281
Pitch Circle Diameter, mm	222,25	275	335
Diameter of mounting holes, mm	32	24	26
Number of mounting holes, pieces	6	8	10
Max weight of the wheel, kg	41,3	40	46,2
Amount in pallet, pieces	20	20	20
Centering type	By spherical chamfers (BZ)	By spherical chamfers (BZ)	By central bore (MZ)
Shape of mounting holes	Spherical chamfer R22	Spherical chamfer R18	-
Landing cone, degrees	-	-	-

Disk wheels



HARTUNG 10.0-20
10/286 d222 ET100



HARTUNG 10.0-20
10/286 d222 ET120



HARTUNG 10.0-20
10/335 d281 ET90



HARTUNG 10.0-20
10/335 d281 ET0

Size in type	10.0-20	10.0-20	10.0-20	10.0-20
Model	HARTUNG 10.0-20 10/286 d222 ET100	HARTUNG 10.0-20 10/286 d222 ET120	HARTUNG 10.0-20 10/335 d281 ET90	HARTUNG 10.0-20 10/335 d281 ET0
Rim width, inches	10,0	10,0	10,0	10,0
Rim diameter, inches	20	20	20	20
Drawing number/code	167.6543.3101012-10	167.6543.3101012-01	167.387.3101012	167.387.3101012-70
Applicability	URAL	URAL-4320, 4420, 43202, 4320-31, 4320-41, 43203-10, 5323, 532301; CHSDM A-120	CHMZAP semi-trailers	Special purpose semi-trailers
Recommended tyre	390/95R20 156J KAMA-URAL	370-508 (14,0-20)	14,0R20	14,0R20
Category	Trucks and Trailers	Trucks and Trailers	Trailers and Semi-Trailers	Trailers and Semi-Trailers
Load, kgf	4000	3000	6500	6500
Rim offset (internal), mm	100	120	90	0
Rim offset (external), mm	111,5	130	106	13,5
Disk thickness, mm	11,5	10	16	13,5
Diameter of central hole (bore), mm	222	222	281	281
Pitch Circle Diameter, mm	286	286	335	335
Diameter of mounting holes, mm	32	32	26	26
Number of mounting holes, pieces	10	10	10	10
Max weight of the wheel, kg	59,5	56	76	76
Amount in pallet, pieces	20	20	16	16
Centering type	By spherical chamfers (BZ)	By spherical chamfers (BZ)	By central bore (MZ)	By spherical chamfers (BZ)
Shape of mounting holes	Spherical chamfer R22	Spherical chamfer R22	-	Spherical chamfer R18
Landing cone, degrees	-	-	-	-

10.0-20

Disk wheels



HARTUNG 10.0-20
10/335 d281 ET120



HARTUNG 10.0-20
10/335 d281 ET201



HARTUNG 10.0-20
10/335 D281 ET12



HARTUNG 10.0-20
10/335 D281 ET140

Size in type	10.0-20	10.0-20	10.0-20	10.0-20
Model	HARTUNG 10.0-20 10/335 d281 ET120	HARTUNG 10.0-20 10/335 d281 ET201	HARTUNG 10.0-20 10/335 D281 ET12	HARTUNG 10.0-20 10/335 D281 ET140
Rim width, inches	10,0	10,0	10,0	10,0
Rim diameter, inches	20	20	20	20
Drawing number/code	167.387.3101012-10	167.387.3101012-20	167.387.3101012-80	167.387.3101012-90
Applicability	URAL-Iveco	KAMAZ	CHMZAP semi-trailers	Special purpose semi-trailers
Recommended tyre	14,0R20	14,0R20	14,0R20	14,0R20
Category	Construction machinery	Trucks and Trailers	Trailers and Semi-Trailers	Trailers and Semi-Trailers
Load, kgf	6500	6500	6500	5000
Rim offset (internal), mm	120	201	12	140
Rim offset (external), mm	136	213,5	25,5	155
Disk thickness, mm	16	12,5	13,5	15
Diameter of central hole (bore), mm	281	281	281	281
Pitch Circle Diameter, mm	335	335	335	335
Diameter of mounting holes, mm	26	26	26	26
Number of mounting holes, pieces	10	10	10	10
Max weight of the wheel, kg	76	76	71	71
Amount in pallet, pieces	16	16	16	16
Centering type	By central bore (MZ)	By central bore (MZ)	By central bore (MZ)	By central bore (MZ)
Shape of mounting holes	-	-	-	-
Landing cone, degrees	-	-	-	-

11Wx16 11.25-20

Disk wheels



HARTUNG 11Wx16
d161 6/205 ET0



HARTUNG 11.25-20
10/335 d281 ET0



HARTUNG 11.25-20
10/335 d281 ET95



HARTUNG 11.25-20
10/335 d281 ET76

Size in type	11Wx16	11.25-20	11.25-20	11.25-20
Model	HARTUNG 11Wx16 d161 6/205 ET0	HARTUNG 11.25-20 10/335 d281 ET0	HARTUNG 11.25-20 10/335 d281 ET95	HARTUNG 11.25-20 10/335 d281 ET76
Rim width, inches	11W	11,25	11,25	11,25
Rim diameter, inches	16	20	20	20
Drawing number/code	167.16xW11.3101012 C5	167.389.3101012-60	167.389.3101012-40	167.389.3101012-80
Applicability	Combine harvesters and seeders	URAL	MAZ	Trucks and Trailers
Recommended tyre	13.0/75-16	16,0R20	16,0R20	16,0R20
Category	Agricultural machinery	Special purpose vehicles	Busses	Trucks and Trailers
Load, kgf	2500	6500	6500	6500
Rim offset (internal), mm	0	0	95	76
Rim offset (external), mm	7	13,2	109	92
Disk thickness, mm	7	13,2	14	16
Diameter of central hole (bore), mm	161	281	281	281
Pitch Circle Diameter, mm	205	335	335	335
Diameter of mounting holes, mm	21,5	26	26	26
Number of mounting holes, pieces	6	10	10	10
Max weight of the wheel, kg	19	73	81,4	81
Amount in pallet, pieces	24	16	16	16
Centering type	By spherical chamfers (BZ)	By central bore (MZ)	By central bore (MZ)	By central bore (MZ)
Shape of mounting holes	Spherical chamfer R16	-	-	-
Landing cone, degrees	-	-	-	-

11.25-20 11.25-24

Disk wheels



HARTUNG 11.25-20
10/335 d281 ET105



HARTUNG 11.25-20
10/335 d281 ET95



HARTUNG 11.25-20
10/335 d281 ET154



HARTUNG 11.25-24
12/450 d402 ET80

Size in type	11.25-20	11.25-20	11.25-20	11.25-24
Model	HARTUNG 11.25-20 10/335 d281 ET105	HARTUNG 11.25-20 10/335 d281 ET95	HARTUNG 11.25-20 10/335 d281 ET154	HARTUNG 11.25-24 12/450 d402 ET80
Rim width, inches	11,25	11,25	11,25	11,25
Rim diameter, inches	20	20	20	24
Drawing number/code	167.389.3101012-10	167.3891.3101012-61	167.389.3101012-21	167.409.3101012-82
Applicability	KAMAZ	URAL, Special purpose semi-trailers	URAL-65222	CHSDM
Recommended tyre	16,0R20	16,0-20	16,0R20	16,0-24
Category	Trucks and Trailers	Special purpose vehicles	Special purpose vehicles	Loaders
Load, kgf	6500	6500	6500	3750
Rim offset (internal), mm	105	95	154	80
Rim offset (external), mm	118,5	108,2	167,5	96
Disk thickness, mm	13,5	13,2	13,5	16
Diameter of central hole (bore), mm	281	281	281	402
Pitch Circle Diameter, mm	335	335	335	450
Diameter of mounting holes, mm	26	26	26	25
Number of mounting holes, pieces	10	10	10	12
Max weight of the wheel, kg	79	76	79	138
Amount in pallet, pieces	16	16	16	8 (separate pallet with rings)
Centering type	By central bore (MZ)	By central bore (MZ)	By central bore (MZ)	By spherical chamfers (BZ)
Shape of mounting holes	-	-	-	Spherical chamfer R22
Landing cone, degrees	-	-	-	-

11.75x22.5

Disk wheels



HARTUNG OVERLOAD
11.75x22.5
10/335 d281 ETO

HARTUNG OVERLOAD
11.75x22.5
10/335 d281 ET120

HARTUNG
11.75x22.5
10/335 d281 ET135

HARTUNG
11.75x22.5
8/275 d221 ETO

Size in type	11.75x22.5	11.75x22.5	11.75x22.5	11.75x22.5
Model	HARTUNG OVERLOAD 11.75x22.5 10/335 d281 ETO	HARTUNG OVERLOAD 11.75x22.5 10/335 d281 ET120	HARTUNG 11.75x22.5 10/335 d281 ET135	HARTUNG 11.75x22.5 8/275 d221 ETO
Rim width, inches	11,75	11,75	11,75	11,75
Rim diameter, inches	22,5	22,5	22,5	22,5
Drawing number/code	167.9911.3101012-04	167.9911.3101012-21	167.9911.3101012-40	167.9911.3101012-70
Applicability	CHMZAP semi-trailers 9906, MAZ, TONAR, MTM, SZAP	CHMZAP semi-trailers, MAZ, TONAR, MTM, SZAP	Scania, Volvo, DAF	Trailers and Semi-Trailers
Recommended tyre	355/50R22,5; 365/70R22,5; 375/50R22,5; 375/90R22,5; 385/55R22,5; 385/65R22,5	355/50R22,5; 365/70R22,5; 375/50R22,5; 375/90R22,5; 385/55R22,5; 385/65R22,5	385/55R22,5; 385/65R22,5	355/50R22,5; 365/70R22,5; 375/50R22,5; 375/90R22,5; 385/55R22,5; 385/65R22,5
Category	Trailers and Semi-Trailers	Trailers and Semi-Trailers	Trucks and Trailers	Trailers and Semi-Trailers
Load, kgf	4500	4500	4500	4500
Rim offset (internal), mm	0	120	135	0
Rim offset (external), mm	10,8	132	147,2	12
Disk thickness, mm	10,8	12	12,2	12
Diameter of central hole (bore), mm	281	281	281	221
Pitch Circle Diameter, mm	335	335	335	275
Diameter of mounting holes, mm	26	26	26	21,5
Number of mounting holes, pieces	10	10	10	8
Max weight of the wheel, kg	46,5	52	50,7	45
Amount in pallet, pieces	20	20	20	20
Centering type	By central bore (MZ)	By central bore (MZ)	By central bore (MZ)	By spherical chamfers (BZ)
Shape of mounting holes	-	-	-	Spherical chamfer R16
Landing cone, degrees	-	-	-	-

12.0-21

Disk wheels



**HARTUNG 12.0-21
10/286 d222 ET100**



**HARTUNG 12.0-21
10/286 d222 ET100**



**HARTUNG 12.0-21
10/286 d222 ET120**

Size in type	12.0-21	12.0-21	12.0-21
Model	HARTUNG 12.0-21 10/286 d222 ET100	HARTUNG 12.0-21 10/286 d222 ET100	HARTUNG 12.0-21 10/286 d222 ET120
Rim width, inches	12,0	12,0	12,0
Rim diameter, inches	21	21	21
Drawing number/code	167.659.3101012-10	659.3101012-01 C5	167.659.3101012
Applicability	URAL-43202, KAMAZ-43118, 43114, 43501, 53501	URAL-43202, KAMAZ-43118, 43114, 43501, 53501	KAMAZ-4310
Recommended tyre	1200x400-533 I-P184-1; 425/85R21 KAMA -1260, KAMA1260 -1	1220x400-533 I_P184-1; 425/85R21 KAMA-1260	1220x400-533 I-P184-1; 425/85R21 KAMA-1260
Category	Trucks and Trailers	Trucks and Trailers	Trucks and Trailers
Load, kgf	4000	4000	4000
Rim offset (internal), mm	100	100	120
Rim offset (external), mm	111,5	112	132
Disk thickness, mm	11,5	12	12
Diameter of central hole (bore), mm	222	222	222
Pitch Circle Diameter, mm	286	286	286
Diameter of mounting holes, mm	32	32	32
Number of mounting holes, pieces	10	10	10
Max weight of the wheel, kg	61,4	59,5	58
Amount in pallet, pieces	16	16	16
Centering type	By spherical chamfers (BZ)	By spherical chamfers (BZ)	By spherical chamfers (BZ)
Shape of mounting holes	Spherical chamfer R22	Spherical chamfer R22	Spherical chamfer R22
Landing cone, degrees	-	-	-

Disk wheels



HARTUNG 12.0-21
10/335 d281 ETO



HARTUNG 12.0-21
10/335 d281 ETO



HARTUNG 12.0-21
10/335 d281 ET140

Size in type	12.0-21	12.0-21	12.0-21
Model	HARTUNG 12.0-21 10/335 d281 ETO	HARTUNG 12.0-21 10/335 d281 ETO	HARTUNG 12.0-21 10/335 d281 ET140
Rim width, inches	12,0	12,0	12,0
Rim diameter, inches	21	21	21
Drawing number/code	167.533-310.3101012-30	659.3101012-20 C6	167.533-310.3101012-60
Applicability	Special purpose vehicles	Trailers and Semi-Trailers	Special purpose vehicles
Recommended tyre	200x400-533 I-P184-1; 425/85R21 Kama-1260, Kama-1260-1	1220x400-533 I-P184-1; 425/85R21 Kama-1260	200x400-533 I-P184-1; 425/85R21 Kama-1260, Kama-1260-1
Category	Special purpose vehicles	Trucks and Trailers	Semi-trailers
Load, kgf	6500	4000	6500
Rim offset (internal), mm	0	0	140
Rim offset (external), mm	14	13	154
Disk thickness, mm	14	13	14
Diameter of central hole (bore), mm	281	281	281
Pitch Circle Diameter, mm	335	335	335
Diameter of mounting holes, mm	26	26	26
Number of mounting holes, pieces	10	10	10
Max weight of the wheel, kg	80	59,3	80
Amount in pallet, pieces	16	16	16
Centering type	By central bore (MZ)	By central bore (MZ)	By central bore (MZ)
Shape of mounting holes	-	-	-
Landing cone, degrees	-	-	-

12.0-21

Disk wheels



HARTUNG 12.0-21
10/286 d222 ET100



HARTUNG 12.0-21
10/335 d281 ET115



HARTUNG 12.0-21
10/335 d281 ET120



HARTUNG 12.0-21
10/335 d281 ET90

Size in type	12.0-21	12.0-21	12.0-21	12.0-21
Model	HARTUNG 12.0-21 10/286 d222 ET100	HARTUNG 12.0-21 10/335 d281 ET115	HARTUNG 12.0-21 10/335 d281 ET120	HARTUNG 12.0-21 10/335 d281 ET90
Rim width, inches	12,0	12,0	12,0	12,0
Rim diameter, inches	21	21	21	21
Drawing number/code	167.533-310.3101012-80	167.533-310.3101012-40	167.533-310.3101012-10	533-310.3101012 C5
Applicability	KAMAZ-43501, KAMAZ-53501, KAMAZ-6450, KAMAZ-63501, KAMAZ-43261	Special purpose vehicles	Special purpose vehicles	KRAZ-225, 260V, MZKT Special purpose vehicles, HOWO, DONG FENG
Recommended tyre	200x400-533 I-P184-1; 425/85R21	200x400-533 I-P84-1; 425/85R21 Kama-1260, Kama-1260-1	200x400-533 I-P184-1; 425/85R21 Kama-1260, Kama-1260-1	1220x400-533 I-P184-1; 425/85R21 Kama-1260
Category	Trucks and Trailers	Special purpose vehicles	Special purpose vehicles	Trucks and Trailers
Load, kgf	6500	6500	6500	6500
Rim offset (internal), mm	100	115	120	90
Rim offset (external), mm	114,5	128,5	133,5	103,5
Disk thickness, mm	14,5	13,5	13,5	13,5
Diameter of central hole (bore), mm	222	281	281	281
Pitch Circle Diameter, mm	286	335	335	335
Diameter of mounting holes, mm	32	26	26	26
Number of mounting holes, pieces	10	10	10	10
Max weight of the wheel, kg	81,2	80	80	82
Amount in pallet, pieces	16	16	16	16
Centering type	By central bore (MZ)	By central bore (MZ)	By central bore (MZ)	By central bore (MZ)
Shape of mounting holes	-	-	-	-
Landing cone, degrees	-	-	-	-

Disk wheels



**HARTUNG 13.0-18
6/205 d161 ETO**



**HARTUNG 13.0-18
8/275 d221 ETO**

Size in type	13.0-18	13.0-18
Model	HARTUNG 13.0-18 6/205 d161 ETO	HARTUNG 13.0-18 8/275 d221 ETO
Rim width, inches	13,0	13,0
Rim diameter, inches	18	18
Drawing number/code	167.3932.3101012-51	167.3932.3101012-41
Applicability	Semi-trailers	Special purpose trailers
Recommended tyre	1065x420-457, 980x390-457	1065x420-457, 980x390-457
Category	Trailers and Semi-Trailers	Trailers and Semi-Trailers
Load, kgf	3000	4000
Rim offset (internal), mm	0	0
Rim offset (external), mm	10	10
Disk thickness, mm	10	10
Diameter of central hole (bore), mm	161	221
Pitch Circle Diameter, mm	205	275
Diameter of mounting holes, mm	21,5	24
Number of mounting holes, pieces	6	8
Max weight of the wheel, kg	51	49,7
Amount in pallet, pieces	20	20
Centering type	By spherical chamfers (BZ)	By spherical chamfers (BZ)
Shape of mounting holes	Spherical chamfer R16	Spherical chamfer R18
Landing cone, degrees	-	-

14.0x22.5

Disk wheels



HARTUNG 14.0x22.5 10/335
d281 ETO

Size in type	14.0x22.5
Model	HARTUNG 14.0x22.5 10/335 d281 ETO
Rim width, inches	14,0
Rim diameter, inches	22,5
Drawing number/code	167.522.3101012-30
Applicability	Special purpose trailers
Recommended tyre	445/65 R22,5
Category	Trailers and Semi-Trailers
Load, kgf	6600
Rim offset (internal), mm	0
Rim offset (external), mm	13,2
Disk thickness, mm	13,2
Diameter of central hole (bore), mm	281
Pitch Circle Diameter, mm	335
Diameter of mounting holes, mm	26
Number of mounting holes, pieces	10
Max weight of the wheel, kg	57,5
Amount in pallet, pieces	20
Centering type	By central bore (MZ)
Shape of mounting holes	-
Landing cone, degrees	-



16.0-20 17.0-21

Disk wheels



HARTUNG 16.0-20
10/286 d222 ET115



HARTUNG 16.0-20
10/335 d281 ET40



HARTUNG 17.0-21
10/335 d281 ET110



HARTUNG 17.0-21
10/335 d281 ET20

Size in type	16.0-20	16.0-20	17.0-21	17.0-21
Model	HARTUNG 16.0-20 10/286 d222 ET115	HARTUNG 16.0-20 10/335 d281 ET40	HARTUNG 17.0-21 10/335 d281 ET110	HARTUNG 17.0-21 10/335 d281 ET20
Rim width, inches	16,0	16,0	17,0	17,0
Rim diameter, inches	20	20	21	21
Drawing number/code	167.670.3101012-02	6701.3101012-01 C5	167.533-440.3101012-10	167.533-440.3101012-80
Applicability	URAL-5557, 43206-41, 55571-40	URAL	Special purpose vehicles	MZKT
Recommended tyre	1200x500-508; ID-P284	1200x500-508	1300x530-533P (21,5/75 R21)	1300x530-533P (21,5/75 R21)
Category	Construction machinery	Special purpose vehicles	Special purpose vehicles	Special purpose vehicles
Load, kgf	4000	4000	5500	6500
Rim offset (internal), mm	115	40	110	20
Rim offset (external), mm	126	53	126	36
Disk thickness, mm	11	13	16	16
Diameter of central hole (bore), mm	222	281	281	281
Pitch Circle Diameter, mm	286	335	335	335
Diameter of mounting holes, mm	37	26	26	26
Number of mounting holes, pieces	10	10	10	10
Max weight of the wheel, kg	69	71,3	97,3	97,3
Amount in pallet, pieces	16	16	12	12
Centering type	By spherical chamfers (BZ)	By central bore (MZ)	By central bore (MZ)	By central bore (MZ)
Shape of mounting holes	Spherical chamfer R22	-	-	-
Landing cone, degrees	-	-	-	-

17.0-21

Disk wheels



HARTUNG 17.0-21
10/335 d281 ET65



HARTUNG 17.0-21
10/335 d281 ET-79



HARTUNG 17.0-21
10/286 d222 ET174.5



HARTUNG 17.0-21
10/335 d281 ET-172

Size in type	17.0-21	17.0-21	17.0-21	17.0-21
Model	HARTUNG 17.0-21 10/335 d281 ET65	HARTUNG 17.0-21 10/335 d281 ET-79	HARTUNG 17.0-21 10/286 d222 ET174.5	HARTUNG 17.0-21 10/335 d281 ET-172
Rim width, inches	17,0	17,0	17,0	17,0
Rim diameter, inches	21	21	21	21
Drawing number/code	533-440.3101012	167.533-440.3101012-30	167.533-440.3101012-60	167.533-440.3101012-20
Applicability	KPAZ-225, 260B, MZKT special purpose vehicles, HOWO, DONG FENG	Special purpose vehicles	BAZ	Special purpose vehicles
Recommended tyre	1300x530-533P (21,5/75R21)	1300x530-533P (21,5/75R21)	1300x530-533RP (21,5/75R21)	1300x530-533P (21,5/75R21)
Category	Trucks and Trailers	Special purpose vehicles	Trucks and Trailers	Special purpose vehicles
Load, kgf	6500	6500	6500	5500
Rim offset (internal), mm	65	-79	174,5	-172
Rim offset (external), mm	78,5	-63	190,5	-186,5
Disk thickness, mm	13,5	16	16	14,5
Diameter of central hole (bore), mm	281	281	222	281
Pitch Circle Diameter, mm	335	335	286	335
Diameter of mounting holes, mm	26	26	24	26
Number of mounting holes, pieces	10	10	10	10
Max weight of the wheel, kg	97	97,3	97,3	97,3
Amount in pallet, pieces	12	12	12	12
Centering type	By central bore (MZ)	By central bore (MZ)	By spherical chamfers (BZ)	By central bore (MZ)
Shape of mounting holes	-	-	Spherical chamfer R22	-
Landing cone, degrees	-	-	-	-

Disk wheels



HARTUNG 17.0-25
12/415 d370 ET72



HARTUNG 17.0-25
12/505 d445 ET83.9



HARTUNG 17.0-25
12/450 d402 ET37.9

Size in type	17.0-25	17.0-25	17.0-25
Model	HARTUNG 17.0-25 12/415 d370 ET72	HARTUNG 17.0-25 12/505 d445 ET83.9	HARTUNG 17.0-25 12/450 d402 ET37.9
Rim width, inches	17,0	17,0	17,0
Rim diameter, inches	25	25	25
Drawing number/code	434.3101012-40 C5	434.3101012-10 C5	434.3101012-20 C5
Applicability	Special purpose vehicles	Special purpose vehicles	Special purpose vehicles
Recommended tyre	20,5-25	20,5-25	20,5-25
Category	Trucks and Trailers	Trucks and Trailers	Trucks and Trailers
Load, kgf	5450	5450	5450
Rim offset (internal), mm	72	83,9	37,9
Rim offset (external), mm	88	99,9	53,9
Disk thickness, mm	16	16	16
Diameter of central hole (bore), mm	370	445	402
Pitch Circle Diameter, mm	415	505	450
Diameter of mounting holes, mm	24	25	25
Number of mounting holes, pieces	12	12	12
Max weight of the wheel, kg	167,7	157,2	146
Amount in pallet, pieces	Without package	Without package	Without package
Centering type	By spherical chamfers (BZ)	By spherical chamfers (BZ)	By spherical chamfers (BZ)
Shape of mounting holes	Spherical chamfer R22	Spherical chamfer R22	Spherical chamfer R22
Landing cone, degrees	-	-	-

17.0-25 19.5-25

Disk wheels



HARTUNG 17.0-25
12/425 d375 ET-23



HARTUNG 17.0-25
12/425 d375 ET30



HARTUNG 19.5-25/2.5
20/425 d370 ET77

Size in type	17.0-25	17.0-25	19.5-25
Model	HARTUNG 17.0-25 12/425 d375 ET-23	HARTUNG 17.0-25 12/425 d375 ET30	HARTUNG 19.5-25/2.5 20/425 d370 ET77
Rim width, inches	17,0	17,0	19,5
Rim diameter, inches	25	25	25
Drawing number/code	167.4341.3101012-40 C5	167.4341.3101012-01 C5	167.440.3101012
Applicability	Amkador	Amkador	Special purpose vehicles
Recommended tyre	20,5-25	20,5-25	23,5-25
Category	Special purpose vehicles	Special purpose vehicles	Forklifts
Load, kgf	8500	8500	12500
Rim offset (internal), mm	-23	30	77
Rim offset (external), mm	-3	50	97
Disk thickness, mm	20	20	20
Diameter of central hole (bore), mm	375	375	370
Pitch Circle Diameter, mm	425	425	425
Diameter of mounting holes, mm	27	27	24
Number of mounting holes, pieces	12	12	20
Max weight of the wheel, kg	172	172	173
Amount in pallet, pieces	Without package	Without package	Without package
Centering type	By spherical chamfers (BZ)	By spherical chamfers (BZ)	By spherical chamfers (BZ)
Shape of mounting holes	Spherical chamfer R22	Spherical chamfer R22	Spherical chamfer R22
Landing cone, degrees	-	-	-



7.0-15 7.0-20
8.5-20

Diskless wheels



HARTUNG 7.0-15 d345

HARTUNG 7.0-20 d472

HARTUNG 8.5-20 d465

HARTUNG 8.5-20 d470

Size in type	7.0-15	7.0-20	8.5-20	8.5-20
Model	HARTUNG 7.0-15 d345	HARTUNG 7.0-20 d472	HARTUNG 8.5-20 d465	HARTUNG 8.5-20 d470
Rim width, inches	7,0	7,0	8,5	8,5
Rim diameter, inches	15	20	20	20
Drawing number/code	7.0-15.3101012 A	349.3101012-02	167.380.3101012-50	379.3101012 C5
Applicability	Semi-Trailers	KAMAZ-5320, 5330,53212, 5410, 54112, 55102, 5511, MAZ	Special purpose vehicles	MAZ, KRAZ. KAMAZ-5425, trolleybus
Recommended tyre	8,25-15; 9,0-15	260-508R	12,0R20; 12,0-20; 11,0R20; 14,0R20	11,0-20; 11,0R20; 12,0-20
Category	Trailers and Semi-Trailers	Trucks and Trailers	Trailers and Semi-Trailers	Busses
Load, kgf	2500	2250	12000	3750
Rim offset (internal), mm	Diskless	Diskless	Diskless	Diskless
Rim offset (external), mm	-	-	-	-
Disk thickness, mm	-	-	-	-
Diameter of central hole (bore), mm	345	472	465	470
Pitch Circle Diameter, mm	-	-	-	-
Diameter of mounting holes, mm	-	-	-	-
Number of mounting holes, pieces	-	-	-	-
Max weight of the wheel, kg	20,4	27	51,7	35
Amount in pallet, pieces	36	36	24	24
Centering type	By landing cone	By landing cone	By landing cone	By landing cone
Shape of mounting holes	-	-	-	-
Landing cone, degrees	28	28	28	28

10.0-20 10.0-24
11.25-24 13.0-18

Diskless wheels



**HARTUNG 10.0-20
d465**



**HARTUNG 10.0-24
d537**



**HARTUNG 11.25-24
d538**



**HARTUNG 13.0-18
d392**

Size in type	10.0-20	10.0-24	11.25-24	13.0-18
Model	HARTUNG 10.0-20 d465	HARTUNG 10.0-24 d537	HARTUNG 11.25-24 d538	HARTUNG 13.0-18 d392
Rim width, inches	10,0	10,0	11,25	13,0
Rim diameter, inches	20	24	24	18
Drawing number/code	167.3871.3101012-30	24-10.00.3101012 C5	167.409.3101012-23	3931.3101012 C5
Applicability	KAMAZ	Bryanskij Arsenal	Special purpose vehicles	Semi-trailers 1PTS-9, ZPTS-12, ORSK, Ishim, Bobruisk
Recommended tyre	14,0R20	14,0-24	16,0-24	1065x420-457, 980x390-457
Category	Trucks and Trailers	Forklifts	Special purpose vehicles	Trucks and Trailers
Load, kgf	10000	9500	3750	4500
Rim offset (internal), mm	Diskless	Diskless	Diskless	Diskless
Rim offset (external), mm	-	-	-	-
Disk thickness, mm	-	-	-	-
Diameter of central hole (bore), mm	465	537	538	392
Pitch Circle Diameter, mm	-	-	-	-
Diameter of mounting holes, mm	-	-	-	-
Number of mounting holes, pieces	-	-	-	-
Max weight of the wheel, kg	55,6	123	121,6	47,8
Amount in pallet, pieces	16	Without package	Without package	20
Centering type	By landing cone	By landing cone	By landing cone	By landing cone
Shape of mounting holes	-	-	-	-
Landing cone, degrees	28	28	28	28

13.0-25 15.0-33
17.0-21 17.0-25

Diskless wheels



**HARTUNG 13.0-25
d554**



**HARTUNG 15.0-33
d757**



**HARTUNG 17.0-21
d463**



**HARTUNG 17.0-25
d554**

Size in type	13.0-25	15.0-33	17.0-21	17.0-25
Model	HARTUNG 13.0-25 d554	HARTUNG 15.0-33 d757	HARTUNG 17.0-21 d463	HARTUNG 17.0-25 d554
Rim width, inches	13,0	15,0	17,0	17,0
Rim diameter, inches	25	33	21	25
Drawing number/code	167.410.3101012-04	431.3101012-02	167.533-440.3101012-40 C5	434.3101012 C5
Applicability	BELAZ-540, 7522, 7540, 75405	BELAZ-548. 7523, 7548	KRAZ, MAZ	Special purpose vehicles
Recommended tyre	18,0-25	21,0-33	1200x400-533 I-P184-1; 425/85R22	20,5-25
Category	Construction machinery	Construction machinery	Trucks and Trailers	Forklifts
Load, kgf	8650	12000	5000	5450
Rim offset (internal), mm	Diskless	Diskless	Diskless	Diskless
Rim offset (external), mm	-	-	-	-
Disk thickness, mm	-	-	-	-
Diameter of central hole (bore), mm	554	757	463	554
Pitch Circle Diameter, mm	-	-	-	-
Diameter of mounting holes, mm	-	-	-	-
Number of mounting holes, pieces	-	-	-	-
Max weight of the wheel, kg	137	229,4	85	146
Amount in pallet, pieces	Without package	Without package	12	Without package
Centering type	By landing cone	By landing cone	By landing cone	By landing cone
Shape of mounting holes	-	-	-	-
Landing cone, degrees	28	28	18	28

19.5-25 22.0-25
24.0-25

Diskless wheels



**HARTUNG 19.5-25
d556**



**HARTUNG 22.0-25
d553**



**HARTUNG 24.0-25
d552**

Size in type	19.5-25	22.0-25	24.0-25
Model	HARTUNG 19.5-25 d556	HARTUNG 22.0-25 d553	HARTUNG 24.0-25 d552
Rim width, inches	19,5	22,0	24,0
Rim diameter, inches	25	25	25
Drawing number/code	167.440.3101012-50 C5	450.3101012 C5	167.455.3101012-08 C5
Applicability	Special purpose vehicles	CHSDM loader V-175, TO-40	Tractor K-702, 703; PTZ K-702MV, K-702MBA, K-702MVA
Recommended tyre	23,5-25	26,5-25	29,5-25
Category	Forklifts	Forklifts	Agricultural machinery
Load, kgf	9800	11000	8000
Rim offset (internal), mm	Diskless	Diskless	Diskless
Rim offset (external), mm	-	-	-
Disk thickness, mm	-	-	-
Diameter of central hole (bore), mm	556	553	552
Pitch Circle Diameter, mm	-	-	-
Diameter of mounting holes, mm	-	-	-
Number of mounting holes, pieces	-	-	-
Max weight of the wheel, kg	157	195	168
Amount in pallet, pieces	Without package	Without package	Without package
Centering type	By landing cone	By landing cone	By landing cone
Shape of mounting holes	-	-	-
Landing cone, degrees	28	28	28

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