

Tilaja Purchaser BE GROUP OY AB 15100 LAHTI FINLAND Tilaus no. Order No. P024578	Vastaanottaja Consignee BE GROUP OY AB 20240 TURKU FINLAND Asiakkaan merkki Shipping mark	Päivämäärä Date 25.08.2014 Valmistajan merkki Mark of the Manufacturer
Todistus Certificate 31	Laivaus Shipping	Laatuleimaus Quality Stamping



Mxx

Toimitustyyppi Delivery type OSATOIMITUS	Sulatus nro levy nro Cast No. Plate No. XXXXX XXX XX XXX	Tarkastajan leima Stamp of Inspector
Tuote Product NAUHALEVIYÄ	Toleranssit Tolerances RUUKKI LASER, EN 10051	Vastaanottajan leima Stamp of Surveyor
Leiji Grade LASER 355 MC		Muut leimaukset Other Stamps

Tekniset vaatimukset ja/tai viralliset määräykset Technical terms of Delivery and/or Official Regulations

Mitat mm Dimensions mm 003 8.00 x 1500 x 3000 2101750560	Kpl Pcs 82	Paino kg Weight kg 23135	Sulatus evy nro Cast Plate No 23135 10602 021 021	SP nro SP No UT MT
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KUUMAV. TERÄSL. NIPPUINA VALSSAUSREUNOIN PEITATTUINA
MEETS REQUIREMENTS OF EN10149-2 S355MC. FLATNESS DEVIATION MAX. 3MM/M IMPACT TEST AT -20 DEG.C MIN 40J FULL SIZE

RUUKKI LASER, MUOV.LUJIA HIENORAETERÄS LASER/PLASMA LEIKK.

Täten todistamme, että toimitus on tilausvahvistuksen mukainen.
We hereby certify that the material described above has been tested and complies with the terms of the order confirmation.

Raabe Steel Works

Testaus ja tarkastus Testing and Inspection

MINNA VALKAMA

Valtuutettu tarkastaja Authorized inspection representative

Yhtiön nimi Company Name: **RUUKKI METALS OY**
Kotipaikka Registered Office: **HELSINKI**

Osoite Address: **PL 93, P.O Box 93
FIN-92101 RAAHE, FINLAND**

Puhelin Telephone: **020 5911
+358 20 5911**

Telekopio Telefax: **020 592 2736
+358 20 592 2736**

Y-tunnus Business ID: **23894-5-7**

Tilaja Purchaser
BE GROUP OY AB

Vastaanottaja Consignee
BE GROUP OY AB

Päivämäärä Date
25.08.2014
YJS
Valmistajan merkki
Mark of the Manufacturer

Tilaus nro Order No.
P024578

Asiakkaan merkki Shipping mark

Laji Grade
LASER 355 MC

Lisävaatimukset Additional requirements

Jakuvailettua happiteräsiä
Oxygen steel, continuous casting
Fully killed, Fine grain practiced

Laatuseilytykset Quality Specifications

RUIJKI LASER, MUOV.LUJA HIENORAETERÄS LASER/PLASMA LEIKK.

Pos. Item	Sulatus k. erä nro Cast. test No	T-tila Cond	Vetokoe Tensile test		K2 °C	K3 °C	K4 °C	K5 °C	K6 °C	K7 °C	K8 °C	K9 °C	K10 °C	K11 °C	K12 °C	K13 °C	K14 °C	K15 °C	K16 °C	K17 °C	K18 °C	K19 °C	K20 °C	K21 °C	K22 °C	K23 °C	K24 °C	K25 °C	K26 °C	K27 °C	K28 °C	K29 °C	K30 °C	K31 °C	K32 °C	K33 °C	K34 °C	K35 °C	K36 °C	K37 °C	K38 °C	K39 °C	K40 °C	K41 °C	K42 °C	K43 °C	K44 °C	K45 °C	K46 °C	K47 °C	K48 °C	K49 °C	K50 °C	K51 °C	K52 °C	K53 °C	K54 °C	K55 °C	K56 °C	K57 °C	K58 °C	K59 °C	K60 °C	K61 °C	K62 °C	K63 °C	K64 °C	K65 °C	K66 °C	K67 °C	K68 °C	K69 °C	K70 °C	K71 °C	K72 °C	K73 °C	K74 °C	K75 °C	K76 °C	K77 °C	K78 °C	K79 °C	K80 °C	K81 °C	K82 °C	K83 °C	K84 °C	K85 °C	K86 °C	K87 °C	K88 °C	K89 °C	K90 °C	K91 °C	K92 °C	K93 °C	K94 °C	K95 °C	K96 °C	K97 °C	K98 °C	K99 °C	K100 °C	K101 °C	K102 °C	K103 °C	K104 °C	K105 °C	K106 °C	K107 °C	K108 °C	K109 °C	K110 °C	K111 °C	K112 °C	K113 °C	K114 °C	K115 °C	K116 °C	K117 °C	K118 °C	K119 °C	K120 °C	K121 °C	K122 °C	K123 °C	K124 °C	K125 °C	K126 °C	K127 °C	K128 °C	K129 °C	K130 °C	K131 °C	K132 °C	K133 °C	K134 °C	K135 °C	K136 °C	K137 °C	K138 °C	K139 °C	K140 °C	K141 °C	K142 °C	K143 °C	K144 °C	K145 °C	K146 °C	K147 °C	K148 °C	K149 °C	K150 °C	K151 °C	K152 °C	K153 °C	K154 °C	K155 °C	K156 °C	K157 °C	K158 °C	K159 °C	K160 °C	K161 °C	K162 °C	K163 °C	K164 °C	K165 °C	K166 °C	K167 °C	K168 °C	K169 °C	K170 °C	K171 °C	K172 °C	K173 °C	K174 °C	K175 °C	K176 °C	K177 °C	K178 °C	K179 °C	K180 °C	K181 °C	K182 °C	K183 °C	K184 °C	K185 °C	K186 °C	K187 °C	K188 °C	K189 °C	K190 °C	K191 °C	K192 °C	K193 °C	K194 °C	K195 °C	K196 °C	K197 °C	K198 °C	K199 °C	K200 °C	K201 °C	K202 °C	K203 °C	K204 °C	K205 °C	K206 °C	K207 °C	K208 °C	K209 °C	K210 °C	K211 °C	K212 °C	K213 °C	K214 °C	K215 °C	K216 °C	K217 °C	K218 °C	K219 °C	K220 °C	K221 °C	K222 °C	K223 °C	K224 °C	K225 °C	K226 °C	K227 °C	K228 °C	K229 °C	K230 °C	K231 °C	K232 °C	K233 °C	K234 °C	K235 °C	K236 °C	K237 °C	K238 °C	K239 °C	K240 °C	K241 °C	K242 °C	K243 °C	K244 °C	K245 °C	K246 °C	K247 °C	K248 °C	K249 °C	K250 °C	K251 °C	K252 °C	K253 °C	K254 °C	K255 °C	K256 °C	K257 °C	K258 °C	K259 °C	K260 °C	K261 °C	K262 °C	K263 °C	K264 °C	K265 °C	K266 °C	K267 °C	K268 °C	K269 °C	K270 °C	K271 °C	K272 °C	K273 °C	K274 °C	K275 °C	K276 °C	K277 °C	K278 °C	K279 °C	K280 °C	K281 °C	K282 °C	K283 °C	K284 °C	K285 °C	K286 °C	K287 °C	K288 °C	K289 °C	K290 °C	K291 °C	K292 °C	K293 °C	K294 °C	K295 °C	K296 °C	K297 °C	K298 °C	K299 °C	K300 °C	K301 °C	K302 °C	K303 °C	K304 °C	K305 °C	K306 °C	K307 °C	K308 °C	K309 °C	K310 °C	K311 °C	K312 °C	K313 °C	K314 °C	K315 °C	K316 °C	K317 °C	K318 °C	K319 °C	K320 °C	K321 °C	K322 °C	K323 °C	K324 °C	K325 °C	K326 °C	K327 °C	K328 °C	K329 °C	K330 °C	K331 °C	K332 °C	K333 °C	K334 °C	K335 °C	K336 °C	K337 °C	K338 °C	K339 °C	K340 °C	K341 °C	K342 °C	K343 °C	K344 °C	K345 °C	K346 °C	K347 °C	K348 °C	K349 °C	K350 °C	K351 °C	K352 °C	K353 °C	K354 °C	K355 °C	K356 °C	K357 °C	K358 °C	K359 °C	K360 °C	K361 °C	K362 °C	K363 °C	K364 °C	K365 °C	K366 °C	K367 °C	K368 °C	K369 °C	K370 °C	K371 °C	K372 °C	K373 °C	K374 °C	K375 °C	K376 °C	K377 °C	K378 °C	K379 °C	K380 °C	K381 °C	K382 °C	K383 °C	K384 °C	K385 °C	K386 °C	K387 °C	K388 °C	K389 °C	K390 °C	K391 °C	K392 °C	K393 °C	K394 °C	K395 °C	K396 °C	K397 °C	K398 °C	K399 °C	K400 °C	K401 °C	K402 °C	K403 °C	K404 °C	K405 °C	K406 °C	K407 °C	K408 °C	K409 °C	K410 °C	K411 °C	K412 °C	K413 °C	K414 °C	K415 °C	K416 °C	K417 °C	K418 °C	K419 °C	K420 °C	K421 °C	K422 °C	K423 °C	K424 °C	K425 °C	K426 °C	K427 °C	K428 °C	K429 °C	K430 °C	K431 °C	K432 °C	K433 °C	K434 °C	K435 °C	K436 °C	K437 °C	K438 °C	K439 °C	K440 °C	K441 °C	K442 °C	K443 °C	K444 °C	K445 °C	K446 °C	K447 °C	K448 °C	K449 °C	K450 °C	K451 °C	K452 °C	K453 °C	K454 °C	K455 °C	K456 °C	K457 °C	K458 °C	K459 °C	K460 °C	K461 °C	K462 °C	K463 °C	K464 °C	K465 °C	K466 °C	K467 °C	K468 °C	K469 °C	K470 °C	K471 °C	K472 °C	K473 °C	K474 °C	K475 °C	K476 °C	K477 °C	K478 °C	K479 °C	K480 °C	K481 °C	K482 °C	K483 °C	K484 °C	K485 °C	K486 °C	K487 °C	K488 °C	K489 °C	K490 °C	K491 °C	K492 °C	K493 °C	K494 °C	K495 °C	K496 °C	K497 °C	K498 °C	K499 °C	K500 °C	K501 °C	K502 °C	K503 °C	K504 °C	K505 °C	K506 °C	K507 °C	K508 °C	K509 °C	K510 °C	K511 °C	K512 °C	K513 °C	K514 °C	K515 °C	K516 °C	K517 °C	K518 °C	K519 °C	K520 °C	K521 °C	K522 °C	K523 °C	K524 °C	K525 °C	K526 °C	K527 °C	K528 °C	K529 °C	K530 °C	K531 °C	K532 °C	K533 °C	K534 °C	K535 °C	K536 °C	K537 °C	K538 °C	K539 °C	K540 °C	K541 °C	K542 °C	K543 °C	K544 °C	K545 °C	K546 °C	K547 °C	K548 °C	K549 °C	K550 °C	K551 °C	K552 °C	K553 °C	K554 °C	K555 °C	K556 °C	K557 °C	K558 °C	K559 °C	K560 °C	K561 °C	K562 °C	K563 °C	K564 °C	K565 °C	K566 °C	K567 °C	K568 °C	K569 °C	K570 °C	K571 °C	K572 °C	K573 °C	K574 °C	K575 °C	K576 °C	K577 °C	K578 °C	K579 °C	K580 °C	K581 °C	K582 °C	K583 °C	K584 °C	K585 °C	K586 °C	K587 °C	K588 °C	K589 °C	K590 °C	K591 °C	K592 °C	K593 °C	K594 °C	K595 °C	K596 °C	K597 °C	K598 °C	K599 °C	K600 °C	K601 °C	K602 °C	K603 °C	K604 °C	K605 °C	K606 °C	K607 °C	K608 °C	K609 °C	K610 °C	K611 °C	K612 °C	K613 °C	K614 °C	K615 °C	K616 °C	K617 °C	K618 °C	K619 °C	K620 °C	K621 °C	K622 °C	K623 °C	K624 °C	K625 °C	K626 °C	K627 °C	K628 °C	K629 °C	K630 °C	K631 °C	K632 °C	K633 °C	K634 °C	K635 °C	K636 °C	K637 °C	K638 °C	K639 °C	K640 °C	K641 °C	K642 °C	K643 °C	K644 °C	K645 °C	K646 °C	K647 °C	K648 °C	K649 °C	K650 °C	K651 °C	K652 °C	K653 °C	K654 °C	K655 °C	K656 °C	K657 °C	K658 °C	K659 °C	K660 °C	K661 °C	K662 °C	K663 °C	K664 °C	K665 °C	K666 °C	K667 °C	K668 °C	K669 °C	K670 °C	K671 °C	K672 °C	K673 °C	K674 °C	K675 °C	K676 °C	K677 °C	K678 °C	K679 °C	K680 °C	K681 °C	K682 °C	K683 °C	K684 °C	K685 °C	K686 °C	K687 °C	K688 °C	K689 °C	K690 °C	K691 °C	K692 °C	K693 °C	K694 °C	K695 °C	K696 °C	K697 °C	K698 °C	K699 °C	K700 °C	K701 °C	K702 °C	K703 °C	K704 °C	K705 °C	K706 °C	K707 °C	K708 °C	K709 °C	K710 °C	K711 °C	K712 °C	K713 °C	K714 °C	K715 °C	K716 °C	K717 °C	K718 °C	K719 °C	K720 °C	K721 °C	K722 °C	K723 °C	K724 °C	K725 °C	K726 °C	K727 °C	K728 °C	K729 °C	K730 °C	K731 °C	K732 °C	K733 °C	K734 °C	K735 °C	K736 °C	K737 °C	K738 °C	K739 °C	K740 °C	K741 °C	K742 °C	K743 °C	K744 °C	K745 °C	K746 °C	K747 °C	K748 °C	K749 °C	K750 °C	K751 °C	K752 °C	K753 °C	K754 °C	K755 °C	K756 °C	K757 °C	K758 °C	K759 °C	K760 °C	K761 °C	K762 °C	K763 °C	K764 °C	K765 °C	K766 °C	K767 °C	K768 °C	K769 °C	K770 °C	K771 °C	K772 °C	K773 °C	K774 °C
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ANALYYSITODISTUS ANALYSIS CERTIFICATE
 ANALYSEBESCHEINIGUNG COMPOSITIO CHIMIQUE CERTIFICAT
 СЕРТИФИКАТ АНАЛИЗА

3/3

73305U-001

22.08.2014

Päivämäärä Date Datum Date Дата
 25.08.2014 VJS

Analyysi % Chemical composition % Chemisch Zusammensetzung % Composition Chimique % Анализ пробы % (*=ppm)

Sulatus nro
Cast No
Schmelzen Nr.
No de coulée
№ Плавки

Positi
item
Pos.
Poste
Поз.

Cekv
Ceq
Céq
Céq
Cekv

10602 003 .19 .058 .01 0.70 .010 .004 .025 .023 .009 .001

Cekv

Cekv

CEQ=C+Mn/6 + (CR+MO+V) / 5 + (NI+CU) / 15

Raabe Steel Works

Testaus ja tarkastus
Prüfung und Kontrolle
Essais et Contrôle

Испытание и контроль качества

Minna Valikama

MINNA VALIKAMA

Vuutettu tarkastaja
Sachverständiger

Authorized inspection representative
Inspector autorisé

Уполномоченный инспектор

Yhtiön nimi Company Name:
Kotipaikka Registered Office:

PL 93, P.O Box 93
FIN-92101 RAAHE, FINLAND

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+358 20 5911

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+358 20 592 2736

Y-tunnus Business ID: 2389445-7

Steel manufactured and supplied by Raataruukki is free from radiation.
 Произведенная металлургическим концерном «Раатаруукки» и поставленная
 заказчику сталь не содержит радиации.