

SPIROIDE

*geared for
the future*



ENGRANAJES ESPECIALES S.A.

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PARC DE MAQUINÀRIA

Detallem a continuació, algunes de les nostres màquines de producció:

TALLADORES

TALLADORES DENTAT CÒNIC-ESPIRAL

| Marca | Model | Capacitat | Mòdul |
|----------------|-------------|-----------|-------|
| 1 KLINGELNBERG | C100 U | Ø 1100 | 15,5 |
| 1 KLINGELNBERG | AMK-630/635 | Ø 710 | 12 |
| 1 KLINGELNBERG | AMKU-630 | Ø 630 | 8 |
| 1 KLINGELNBERG | KNC-40 | Ø 450 | 8 |
| 1 SPIROCONIC | SCJ-4 | Ø 360 | 6 |
| 2 KLINGELNBERG | FK-41A/B | Ø 120 | 2 |

TALLADORES DENTAT CILÍNDRIC

| Marca | Model | Diàmetre | Mòdul |
|-----------|--------|----------|-------|
| 1 PFAUTER | P-1501 | Ø 1500 | 16 |
| 1 PFAUTER | P-400 | Ø 400 | 6 |
| 1 KOEPFER | 150 | Ø 80 | 2.5 |
| 1 LAMBERT | 75 | Ø 70 | 1 |
| 1 MIKRON | | Ø 40 | 1.25 |

RECTIFICADORES

RECTIFICADORES INTERIOR

| Marca | Model | Capacitat |
|----------------|----------|-----------|
| 1 VOUMARD | 5N | Ø 300 |
| 1 HIDRO-PRECIS | N-150 | Ø 150 |
| 1 DANOBAT | R1-H-300 | Ø 60 |

RECTIFICADORES INTERIOR/EXTERIOR

| Marca | Model | Capacitat |
|-------------|----------|-----------|
| 1 SIELEMANN | RESBR80 | Ø 1200 |
| 1 TEVIMA | TVM-1000 | Ø 1000 |

RECTIFICADORES EXTERIOR

| Marca | Model | Capacitat |
|---------|-------------|-------------|
| 1 GER-1 | CU-1500 CNC | Ø 1500 E.P. |

RECTIFICADORES SUPERFÍCIES PLANES

| Marca | Model | Capacitat |
|----------------|----------|----------------|
| 1 HIDRO-PRECIS | RSP-1200 | Taula 1200x400 |

RECTIFICADORES DE FLANC

PER A ENGRANATGES CÒNIC-ESPIRALS

| Marca | Model | Capacitat | Mòdul |
|----------------|-------|-----------|-------|
| 1 KLINGELNBERG | G-80 | Ø 850 | 14 |
| 1 KLINGELNBERG | G-60 | Ø 600 | 12 |
| 1 KLINGELNBERG | G-20 | Ø 280 | 6 |

PER A ENGRANATGES CILÍNDRICS

| Marca | Model | Capacitat | Mòdul |
|-------------|-------|-----------|-------|
| 1 REISHAUER | NZA | Ø 300 | 5 |

EQUIPS I MÀQUINES DE CONTROL

LAPEJADORES

| Marca | Model | Capacitat |
|----------------|---------------|-----------|
| 1 KLINGELNBERG | LKR-630 | Ø 710 |
| 1 OERLIKON | L-60 | Ø 600 |
| 1 OERLIKON | SL-2 | Ø 400 |
| 1 GLEASON | Lapper nº 503 | |

ALTRES

| Marca | Capacitat | Varis |
|---------------------|------------|-------------------------------------|
| 1 MAUSER V5 | Altura 600 | Medidor electrònic |
| 1 CENTAUR RB2 | | Assajos duressa |
| 1 CARL ZEISS ULM600 | L = 520 | Banc horitzontal per la calibració. |
| 1 KRAUTKRAMER | MIC 10 | Duròmetre de flancs |

TESTERS

| Marca | Model | Capacitat |
|----------------|-------|-----------|
| 1 INGIMEC | 1000 | Ø 1000 |
| 2 KLINGELNBERG | P-100 | Ø 1000 |
| 1 KLINGELNBERG | PSKE | Ø 900 |
| 1 GLEASON | 519 | Ø 600 |

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LISTADO DE MAQUINARIA

A continuación, detallamos algunas de nuestras máquinas de producción:

TALLADORAS

TALLADORAS DENTADO CÓNICO-ESPIRAL

| Marca | Modelo | Capacidad | Módulo |
|----------------|-------------|-----------|--------|
| 1 KLINGELNBERG | C100 U | Ø 1100 | 15,5 |
| 1 KLINGELNBERG | AMK-630/635 | Ø 710 | 12 |
| 1 KLINGELNBERG | AMKU-630 | Ø 630 | 8 |
| 1 KLINGELNBERG | KNC-40 | Ø 450 | 8 |
| 1 SPIROCONIC | SCJ-4 | Ø 360 | 6 |
| 2 KLINGELNBERG | FK-41A/B | Ø 120 | 2 |

TALLADORAS DENTADO CILÍNDRICO

| Marca | Modelo | Diámetro | Módulo |
|-----------|--------|----------|--------|
| 1 PFAUTER | P-1501 | Ø 1500 | 16 |
| 1 PFAUTER | P-400 | Ø 400 | 6 |
| 1 KOEPFER | 150 | Ø 80 | 2.5 |
| 1 LAMBERT | 75 | Ø 70 | 1 |
| 1 MIKRON | | Ø 40 | 1.25 |

RECTIFICADORAS

RECTIFICADORAS INTERIOR

| Marca | Modelo | Capacidad |
|----------------|----------|-----------|
| 1 VOUMARD | 5N | Ø 300 |
| 1 HIDRO-PRECIS | N-150 | Ø 150 |
| 1 DANOBAT | R1-H-300 | Ø 60 |

RECTIFICADORAS INTERIOR/EXTERIOR

| Marca | Modelo | Capacidad |
|-------------|----------|-----------|
| 1 SIELEMANN | RESBR80 | Ø 1200 |
| 1 TEVIMA | TVM-1000 | Ø 1000 |

RECTIFICADORAS EXTERIOR

| Marca | Modelo | Capacidad |
|---------|-------------|-------------|
| 1 GER-1 | CU-1500 CNC | Ø 1500 E.P. |

RECTIFICADORAS SUPERFICIES PLANAS

| Marca | Modelo | Capacidad |
|----------------|----------|----------------|
| 1 HIDRO-PRECIS | RSP-1200 | Taula 1200x400 |

RECTIFICADORAS DE FLANCO

PARA ENGRANAJES CÓNICO-ESPIRALES

| Marca | Modelo | Capacidad | Módulo |
|----------------|--------|-----------|--------|
| 1 KLINGELNBERG | G-80 | Ø 850 | 14 |
| 1 KLINGELNBERG | G-60 | Ø 600 | 12 |
| 1 KLINGELNBERG | G-20 | Ø 280 | 6 |

PARA ENGRANAJES CILÍNDRICOS

| Marca | Modelo | Capacidad | Módulo |
|-------------|--------|-----------|--------|
| 1 REISHAUER | NZA | Ø 300 | 5 |

EQUIPOS Y MÁQUINAS DE CONTROL

LAPEADORAS

| Marca | Modelo | Capacidad |
|----------------|---------------|-----------|
| 1 KLINGELNBERG | LKR-630 | Ø 710 |
| 1 OERLIKON | L-60 | Ø 600 |
| 1 OERLIKON | SL-2 | Ø 400 |
| 1 GLEASON | Lapper nº 503 | |

OTRAS

| Marca | Capacidad | Varios |
|---------------------|------------|---------------------------------------|
| 1 MAUSER V5 | Altura 600 | Medidor electrónico |
| 1 CENTAUR RB2 | | Ensayos dureza |
| 1 CARL ZEISS ULM600 | L = 520 | Banco horizontal para la calibración. |
| 1 KRAUTKRAMER | MIC 10 | Durómetro de flancos |

TESTERS

| Marca | Modelo | Capacidad |
|----------------|--------|-----------|
| 1 INGIMEC | 1000 | Ø 1000 |
| 2 KLINGELNBERG | P-100 | Ø 1000 |
| 1 KLINGELNBERG | PSKE | Ø 900 |
| 1 GLEASON | 519 | Ø 600 |

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MACHINERY LIST

Below detailed, some of our production machines:

CUTTING MACHINES

SPIRAL BEVEL GEAR CUTTING MACHINES

| Branch | Model | Capacity | Module |
|----------------|-------------|----------|--------|
| 1 KLINGELNBERG | C100 U | Ø 1100 | 15,5 |
| 1 KLINGELNBERG | AMK-630/635 | Ø 710 | 12 |
| 1 KLINGELNBERG | AMKU-630 | Ø 630 | 8 |
| 1 KLINGELNBERG | KNC-40 | Ø 450 | 8 |
| 1 SPIROCONIC | SCJ-4 | Ø 360 | 6 |
| 2 KLINGELNBERG | FK-41A/B | Ø 120 | 2 |

SPUR & HELICAL GEAR CUTTING MACHINES

| Branch | Model | Capacity | Module |
|-----------|--------|----------|--------|
| 1 PFAUTER | P-1501 | Ø 1500 | 16 |
| 1 PFAUTER | P-400 | Ø 400 | 6 |
| 1 KOEPFER | 150 | Ø 80 | 2.5 |
| 1 LAMBERT | 75 | Ø 70 | 1 |
| 1 MIKRON | | Ø 40 | 1.25 |

GRINDING MACHINES

INTERNAL GRINDING MACHINES

| Branch | Model | Capacity |
|----------------|----------|----------|
| 1 VOUMARD | 5N | Ø 300 |
| 1 HIDRO-PRECIS | N-150 | Ø 150 |
| 1 DANOBAT | R1-H-300 | Ø 60 |

INTERNAL/EXTERNAL GRINDING MACHINES

| Branch | Model | Capacity |
|-------------|----------|----------|
| 1 SIELEMANN | RESBR80 | Ø 1200 |
| 1 TEVIMA | TVM-1000 | Ø 1000 |

EXTERNAL GRINDING MACHINES

| Branch | Model | Capacity |
|---------|-------------|-----------------|
| 1 GER-1 | CU-1500 CNC | Ø 1500 External |

FLAT SURFACES GRINDING MACHINES

| Branch | Model | Capacity |
|----------------|----------|----------------|
| 1 HIDRO-PRECIS | RSP-1200 | Table 1200x400 |

FLANK GRINDING MACHINES

FOR SPIRAL-BEVEL GEARS

| Branch | Model | Capacity | Module |
|----------------|-------|----------|--------|
| 1 KLINGELNBERG | G-80 | Ø 850 | 14 |
| 1 KLINGELNBERG | G-60 | Ø 600 | 12 |
| 1 KLINGELNBERG | G-20 | Ø 280 | 6 |

FOR CYLINDRICAL GEARS

| Branch | Model | Capacity | Module |
|-------------|-------|----------|--------|
| 1 REISHAUER | NZA | Ø 300 | 5 |

CONTROL EQUIPMENT & MACHINERY

LAPPING MACHINES

| Branch | Model | Capacity |
|----------------|---------------|----------|
| 1 KLINGELNBERG | LKR-630 | Ø 710 |
| 1 OERLIKON | L-60 | Ø 600 |
| 1 OERLIKON | SL-2 | Ø 400 |
| 1 GLEASON | Lapper nº 503 | |

MISCELLANEOUS

| Branch | Capacity | Others |
|---------------------|------------|------------------|
| 1 MAUSER V5 | Altura 600 | Electronic meter |
| 1 CENTAUR RB2 | | Hardness tests |
| 1 CARL ZEISS ULM600 | L = 520 | Gauge Tester |
| 1 KRAUTKRAMER | MIC 10 | Flank durometer |

TESTERS

TESTERS

| Marca | Modelo | Capacidad |
|----------------|--|-----------|
| 1 INGIMEC | Tester 1000 para eng.cónico-espinales e hipoides | Ø 1000 |
| 2 KLINGELNBERG | P-100 | Ø 1000 |
| 1 KLINGELNBERG | PSKE | Ø 900 |
| 1 GLEASON | 519 | Ø 600 |

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MASCHINENLISTE

Below detailed, some of our production machines:

SCHNEIDMASCHINEN

SPIRALKEGELRADSCHNEIDMASCHINEN

| Fabrikat | Model | Kapazität | Modul |
|----------------|-------------|-----------|-------|
| 1 KLINGELNBERG | C100 U | Ø 1100 | 15,5 |
| 1 KLINGELNBERG | AMK-630/635 | Ø 710 | 12 |
| 1 KLINGELNBERG | AMKU-630 | Ø 630 | 8 |
| 1 KLINGELNBERG | KNC-40 | Ø 450 | 8 |
| 1 SPIROCONIC | SCJ-4 | Ø 360 | 6 |
| 2 KLINGELNBERG | FK-41A/B | Ø 120 | 2 |

STIRNRADSCHNEIDMASCHINEN

| Fabrikat | Model | Kapazität | Modul |
|-----------|--------|-----------|-------|
| 1 PFAUTER | P-1501 | Ø 1500 | 16 |
| 1 PFAUTER | P-400 | Ø 400 | 6 |
| 1 KOEPFER | 150 | Ø 80 | 2.5 |
| 1 LAMBERT | 75 | Ø 70 | 1 |
| 1 MIKRON | | Ø 40 | 1.25 |

SCHLEIFMASCHINEN

INNENSCHLEIFMASCHINEN

| Fabrikat | Model | Kapazität |
|----------------|----------|-----------|
| 1 VOUMARD | 5N | Ø 300 |
| 1 HIDRO-PRECIS | N-150 | Ø 150 |
| 1 DANOBAT | R1-H-300 | Ø 60 |

INNEN/AUSSENSCHLEIFMASCHINEN

| Fabrikat | Model | Kapazität |
|-------------|----------|-----------|
| 1 SIELEMANN | RESBR80 | Ø 1200 |
| 1 TEVIMA | TVM-1000 | Ø 1000 |

AUSSENSCHLEIFMASCHINEN

| Fabrikat | Model | Kapazität |
|----------|-------------|-----------------|
| 1 GER-1 | CU-1500 CNC | Ø 1500 External |

FLÄCHENSCHLEIFMASCHINEN

| Branch | Model | Capacity |
|----------------|----------|----------------|
| 1 HIDRO-PRECIS | RSP-1200 | Table 1200x400 |

ZAHNFLANKENSCHNEIDMASCHINEN

FÜR SPIRALKEGELRÄDER

| Fabrikat | Model | Kapazität | Modul |
|----------------|-------|-----------|-------|
| 1 KLINGELNBERG | G-80 | Ø 850 | 14 |
| 1 KLINGELNBERG | G-60 | Ø 600 | 12 |
| 1 KLINGELNBERG | G-20 | Ø 280 | 6 |

FÜR STIRNRÄDER

| Fabrikat | Model | Kapazität | Modul |
|-------------|-------|-----------|-------|
| 1 REISHAUER | NZA | Ø 300 | 5 |

KONTOLLEINRICHTUNGEN UND- MASCHINEN

LÄPPMASCHINEN

| Fabrikat | Model | Kapazität |
|----------------|---------|-----------|
| 1 KLINGELNBERG | LKR-630 | Ø 710 |
| 1 OERLIKON | L-60 | Ø 600 |
| 1 OERLIKON | SL-2 | Ø 400 |
| 1 GLEASON | 503 | |

ANDERES

| Fabrikat | Kapazität | Anmerkungen |
|---------------------|------------|--------------------------|
| 1 MAUSER V5 | Altura 600 | Elektronisches Messgerät |
| 1 CENTAUR RB2 | | Hardness tests |
| 1 CARL ZEISS ULM600 | L = 520 | Gauge Tester |
| 1 KRAUTKRAMER | MIC 10 | Flank durometer |

TESTERMASCHINEN

| Fabrikat | Model | Kapazität |
|----------------|-------|-----------|
| 1 INGIMEC | 1000 | Ø 1000 |
| 2 KLINGELNBERG | P-100 | Ø 1000 |
| 1 KLINGELNBERG | PSKE | Ø 900 |
| 1 GLEASON | 519 | Ø 600 |

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LISTE DE MACHINES

Below detailed, some of our production machines:

MACHINES À TAILLER

ENGRENAGES CONIQUES À DENTURE SPIRALE

| Marque | Modèle | Capacité | Module |
|----------------|-------------|----------|--------|
| 1 KLINGELNBERG | C100 U | Ø 1100 | 15,5 |
| 1 KLINGELNBERG | AMK-630/635 | Ø 710 | 12 |
| 1 KLINGELNBERG | AMKU-630 | Ø 630 | 8 |
| 1 KLINGELNBERG | KNC-40 | Ø 450 | 8 |
| 1 SPIROCONIC | SCJ-4 | Ø 360 | 6 |
| 2 KLINGELNBERG | FK-41A/B | Ø 120 | 2 |

ENGRENAGES CYLINDRIQUES

| Marque | Modèle | Capacité | Module |
|-----------|--------|----------|--------|
| 1 PFAUTER | P-1501 | Ø 1500 | 16 |
| 1 PFAUTER | P-400 | Ø 400 | 6 |
| 1 KOEPFER | 150 | Ø 80 | 2.5 |
| 1 LAMBERT | 75 | Ø 70 | 1 |
| 1 MIKRON | | Ø 40 | 1.25 |

MACHINES À RECTIFIER

RECTIFIEUSES INTÉRIEURES

| Marque | Modèle | Capacité |
|----------------|----------|----------|
| 1 VOUMARD | 5N | Ø 300 |
| 1 HIDRO-PRECIS | N-150 | Ø 150 |
| 1 DANOBAT | R1-H-300 | Ø 60 |

RECTIFIEUSES INTÉRIEURE / EXTÉRIEURE

| Marque | Modèle | Capacité |
|-------------|----------|----------|
| 1 SIELEMANN | RESBR80 | Ø 1200 |
| 1 TEVIMA | TVM-1000 | Ø 1000 |

RECTIFIEUSES EXTÉRIEURE

| Marque | Modèle | Capacité |
|---------|-------------|-----------------|
| 1 GER-1 | CU-1500 CNC | Ø 1500 External |

RECTIFIEUSES DE SURFACES

| Marque | Modèle | Capacité |
|----------------|----------|----------------|
| 1 HIDRO-PRECIS | RSP-1200 | Table 1200x400 |

RECTIFIEUSES DE FLANCS DE DENTS

POUR ENGRENAGES CONIQUES À DENTURE SPIRALE

| Marca | Model | Capacitat | Mòdul |
|----------------|-------|-----------|-------|
| 1 KLINGELNBERG | G-80 | Ø 850 | 14 |
| 1 KLINGELNBERG | G-60 | Ø 600 | 12 |
| 1 KLINGELNBERG | G-20 | Ø 280 | 6 |

POUR ENGRENAGES CYLINDRIQUES

| Marca | Model | Capacitat | Mòdul |
|-------------|-------|-----------|-------|
| 1 REISHAUER | NZA | Ø 300 | 5 |

ÉQUIPPES ET MACHINES A CONTRÔLE

MACHINES À RODER

| Marque | Modèle | Capacité |
|----------------|---------|----------|
| 1 KLINGELNBERG | LKR-630 | Ø 710 |
| 1 OERLIKON | L-60 | Ø 600 |
| 1 OERLIKON | SL-2 | Ø 400 |
| 1 GLEASON | 503 | |

AUTRES

| Marque | Capacité | Remarques |
|---------------------|------------|-----------------------|
| 1 MAUSER V5 | Altura 600 | Mesureur électronique |
| 1 CENTAUR RB2 | | Essais de dureté |
| 1 CARL ZEISS ULM600 | L = 520 | Banc pour calibrage |
| 1 KRAUTKRAMER | MIC 10 | Durométré de flancs |

MACHINES À TESTER

| Marque | Modèle | Capacité |
|----------------|--------|----------|
| 1 INGIMEC | 1000 | Ø 1000 |
| 2 KLINGELNBERG | P-100 | Ø 1000 |
| 1 KLINGELNBERG | PSKE | Ø 900 |
| 1 GLEASON | 519 | Ø 600 |

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