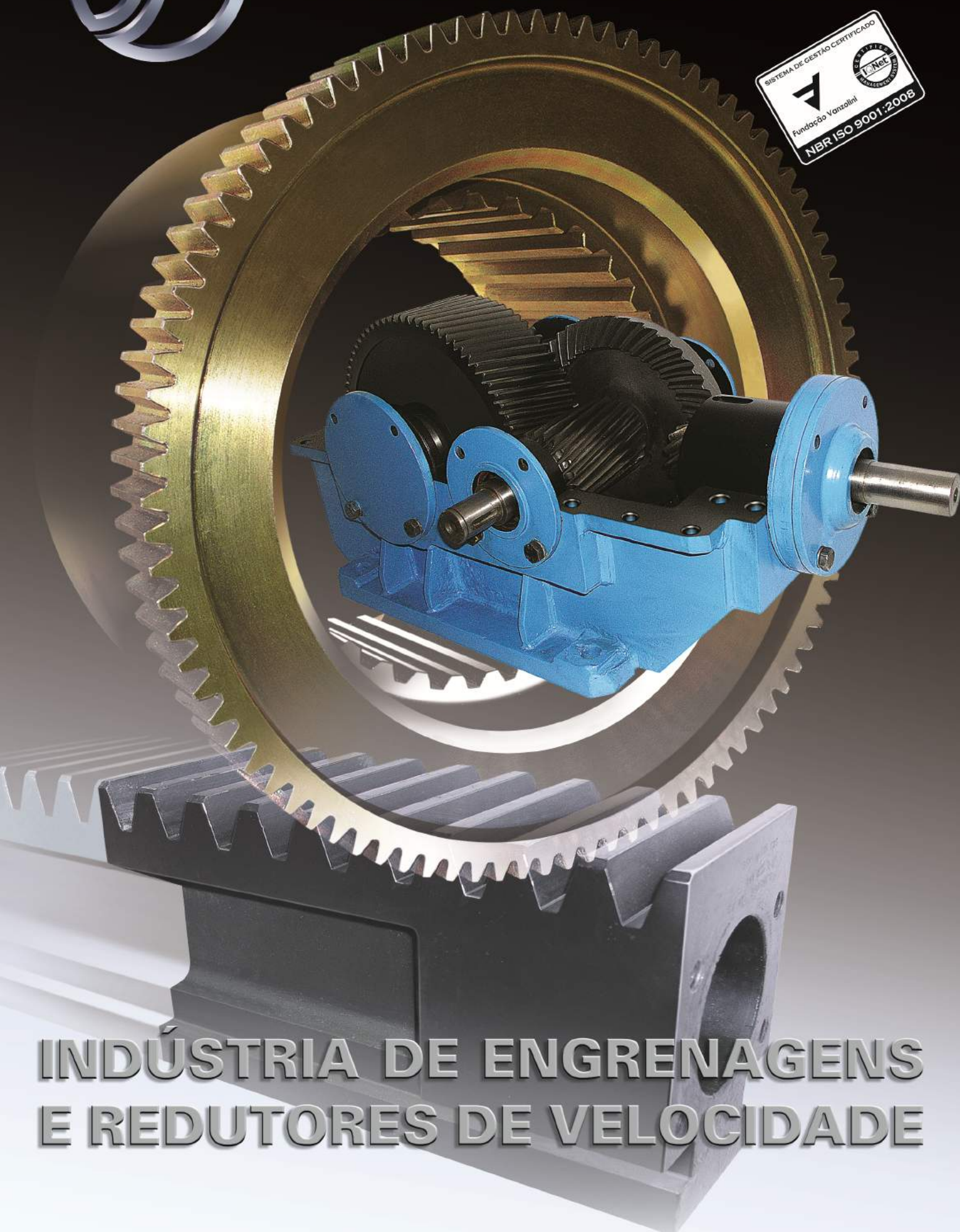




Fresadora SANT'ANA



**INDÚSTRIA DE ENGRENAGENS
E REDUTORES DE VELOCIDADE**



Fresadora SANT'ANA



Fundada em 1976, a **Fresadora SANT'ANA** Indústria de Engrenagens baseou suas pretensões empresariais na constante melhoria da qualidade em diversos segmentos de mercado, atendendo os setores de metalúrgica, siderúrgica, petroquímica, ferroviária, papel e celulose, mineração, química, usinas de açúcar e álcool, máquinas e equipamentos industriais, indústria de produtos de borracha, alimentícia, naval, aeronáutica, algodoeira, etc.



Established in 1976, **Fresadora SANT'ANA** Indústria de Engrenagens set as its goals the permanent quality improvement of gear products for several market segments, supplying gear products for diversified users such as metallurgical, siderurgical, petrochemical, railroad, cellulose and paper, mining, chemical, sugar and alcohol plants, industrial equipment and machinery, foodstuffs, naval, aeronautical, cotton and textiles, etc.

Fundada em 1976, la **Fresadora SANT'ANA** Industria de Engrenagens estableció sus objetivos empresariales visando el constante perfeccionamiento de la calidad de sus productos de engranajes para los distintos segmentos del mercado, suministrando sus productos para industrias metalúrgicas, siderúrgicas, petroquímicas, ferrocarriles, papel y celulosa, minería, química, usinas de azúcar y alcohol, máquinas y equipos industriales, productos de caucho, alimentos, naval, aeronáutica, algodón y textiles, etc.





ENGRENAGENS BI-HELICOIDAIS
(ESPINHA DE PEIXE)
E PERFIS ESPECIAIS ATÉ
MÓDULO 70 E DIÂMETRO
DE 2500MM.

*DOUBLE-HELICAL GEARS
(HERRINGBONE) AND SPECIAL
PROFILES UP TO MODURE 70 AND
2500 MM DIAMETER.*

ENGRANAJES BI-HELICOIDALES
(HERRINGBONE) Y PERFILES
ESPECIALES HASTA MÓDULO 70 Y
DIÁMETRO DE 2500 MM



COROA E SEM FIM SISTEMA GLOBOIDAL ZI,
ZK, ZN, ZA ATÉ MÓDULO 30

*GLOBOIDAL WORMS AND
WORMGEARS ZI, ZK, ZN,
ZA UP TO MODULE 30*

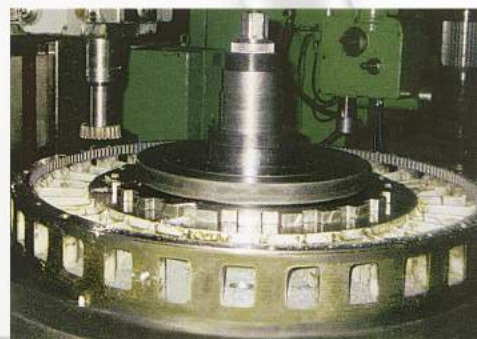
CORONA Y SINFIN
SISTEMA GLOBOIDAL
ZI, ZK, ZN, ZA HASTA
MÓDULO 30



ENGRENAGENS COM
DENTES INTERNOS
ATÉ DIÂMETRO DE 2000 MM

*GEARS WITH INTERNAL TEETH,
UP TO 2000 MM DIAMETER*

ENGRANAJES CON DIENTES
INTERNOS, CON DIÁMETRO
HASTA 2000 MM



ENGRENAGENS COM DENTES RETIFICADOS COM
EMIÇÃO DE GRÁFICO COMPUTADORIZADO DE
EVOLVENTE, HÉLICE E PASSO ATÉ MODULO 30.

*GEARS WITH GROUND TEETH , WITH
COMPUTER-PRINTED INVOLUTE, HELIX
AND STEP GRAPHS UP TO MODULE 30*

ENGRANAJES CON DIENTES
RETIFICADOS CON EMISIÓN DE





ROSCAS, FUSOS E CILINDROS ATÉ 6000 MM DE COMPRIMENTO PARA MÁQUINAS DE EXTRUSORAS E TRANSPORTES DE MATERIAL.

WORMS, SCREWS AND CYLINDERS UP TO 6000 MM LENGTH FOR EXTRUDERS AND CONVEYING MACHINERY

ROSCAS, FUSOS Y CILINDROS HASTA 6000 MM DE LARGO PARA MÁQUINAS DE EXTRUSIÓN Y TRANSPORTE DE MATERIAL



CREMALHEIRA ATÉ 6000 MM DE COMPRIMENTO

RACKS UP TO 6000 MM LENGTH

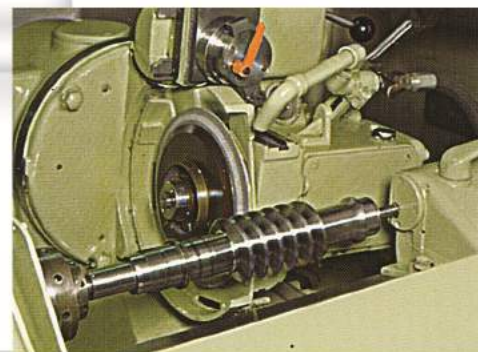
CREMALLERAS HASTA 6000 MM DE LARGO



ROSCAS SEM FIM COM DENTES RETIFICADOS ATÉ MÓDULO 30

WORMS WITH GROUND TEETH UP TO MODULE 30

ROSCAS SINFIN CON DIENTES RETIFICADOS HASTA MÓDULO 30



EIXOS ENTALHADOS E ESTRIADOS COM DENTES RETIFICADOS

SPLINED SHAFTS WITH GROUND TEETH

EJES ENTALLADOS CON DIENTES RETIFICADOS





**ENGRENAGENS
CÔNICAS DE DENTES
ESPIRAIS, HIPOIDAI E
PALOIDAIS**

*BEVEL GEARS WITH SPIRAL,
HYPOIDAL AND PALLOIDAL TEETH*

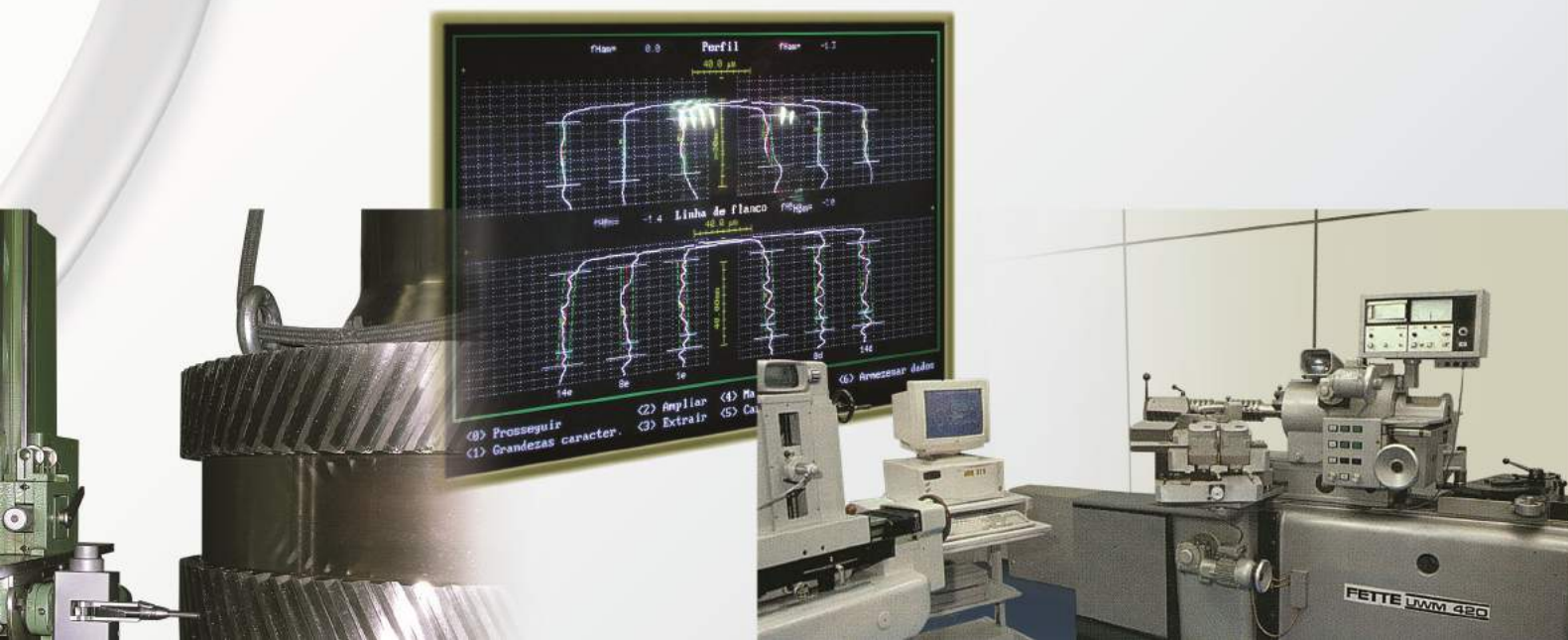
ENGRANAJES CÔNICAS DE DIENTES
ESPIRALES, HIPOIDAI E PALOIDAI



**ENGRENAGENS CÔNICAS DE DENTES
RETOS ATÉ MÓDULO 25**

*BEVEL GEARS WITH STRAIGHT TEETH
UP TO MODULE 25*

ENGRANAJES CÔNICAS DE DIENTES
RECTOS HASTA MÓDULO 25





FUNDAÇÃO VANZOLINI

QUALITY MANAGEMENT SYSTEM CERTIFICATE

FUNDAÇÃO CARLOS ALBERTO VANZOLINI
hereby certifies that the organization
FRESADORA SANT'ANA SOCIEDADE COMERCIAL LTDA.
Rua Moxel, 236/ 246 - São Paulo - SP - Brasil

for the following field of activities:
Manufacture of gears, worm gears, racks, shafts, pulleys, bevel gear and general machining.
Design, manufacturing, engineering and refurbishing of speed reducers and mechanical transmissions.

has implemented and now maintains a
Quality Management System

A quality audit performed by Fundação Vanzolini has verified that this
Management System fulfills the requirements of the following standard:
NBR ISO 9001: 2008
Quality Management Systems - Requirements

This certificate is valid until: August 5th 2011
Certification Registration #: 6Q-9269
São Paulo, July 18th 2009



ISO-9001:2008

FUNDAÇÃO CARLOS ALBERTO VANZOLINI
Rua Curitiba, 213
Alto da Lapa - São Paulo - SP - Brasil



ISO 9001



IONet®

THE INTERNATIONAL CERTIFICATION NETWORK

CERTIFICATE

IONET and FCAV

hereby certifies that the organization
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Rua Moxel, 236/ 246 - São Paulo - SP - Brasil

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which fulfills the requirements of the following standard:
ISO 9001: 2008

Issued on: 2009-07-15
Validity date: 2011-08-05
Registration Number: BR-SQ-9269



President of IONet

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ESPECIALIZADA NA MANUTENÇÃO DE REDUTORES

**SPECIALIZED IN SPEED
REDUCER MAINTENANCE**

**ESPECIALIZADA EN
MANTENIMIENTO DE
REDUCTORES**

FABRICAÇÃO, REFORMA E PROJETOS DE REDUTORES DE VELOCIDADE COM ENGRANAGENS CILÍNDRICAS HELICOIDAIS RETIFICADAS, CÔNICAS, BI-HELICOIDAIS PLANETÁRIAS E ROSCAS GLOBOIDAIS

MANUFACTURE, REFITTING AND DESIGN OF SPEED REDUCERS WITH GROUND HELICAL CYLINDRICAL GEARS, BEVEL GEARS, HERRINGBONE, PLANETARY AND GLOBOIDAL WORMGEARS.

FABRICACIÓN, REFORMA Y PROYECTOS DE REDUCTORES DE VELOCIDAD CON ENGRANAJES CILÍNDRICAS HELICOIDALES RETIFICADAS, CÔNICAS, BI-HELICOIDALES, PLANETARIAS, Y ROSCAS GLOBOIDALES.





Fresadora SANT'ANA
INDÚSTRIA DE ENGRENAGENS
E REDUTORES LTDA.

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REPRESENTANTE: